API Reference

AWS Security Hub CSPM

API Version 2018-10-26

Copyright © 2026 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

AWS Security Hub CSPM: API Reference

Copyright © 2026 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

Amazon's trademarks and trade dress may not be used in connection with any product or service that is not Amazon's, in any manner that is likely to cause confusion among customers, or in any manner that disparages or discredits Amazon. All other trademarks not owned by Amazon are the property of their respective owners, who may or may not be affiliated with, connected to, or sponsored by Amazon.

Table of Contents

Overview **1**
Finding Regional endpoints 2
Throttling limits 2
Timestamps 3
Actions **4**
AcceptAdministratorInvitation 8
Request Syntax 8
URI Request Parameters 8
Request Body 8
Response Syntax 9
Response Elements 9
Errors 9
See Also 10
AcceptInvitation 11
Request Syntax 11
URI Request Parameters 11
Request Body 11
Response Syntax 12
Response Elements 12
Errors 12
See Also 13
BatchDeleteAutomationRules 14
Request Syntax 14
URI Request Parameters 14
Request Body 14
Response Syntax 14
Response Elements 15
Errors 15
See Also 16
BatchDisableStandards 17
Request Syntax 17
URI Request Parameters 17
Request Body 17
Response Syntax 17

Response Elements ... 18
Errors ... 18
See Also ... 19
BatchEnableStandards ... 20
Request Syntax ... 20
URI Request Parameters ... 20
Request Body ... 20
Response Syntax ... 21
Response Elements ... 21
Errors ... 21
See Also ... 22
BatchGetAutomationRules ... 24
Request Syntax ... 24
URI Request Parameters ... 24
Request Body ... 24
Response Syntax ... 24
Response Elements ... 32
Errors ... 32
See Also ... 33
BatchGetConfigurationPolicyAssociations ... 34
Request Syntax ... 34
URI Request Parameters ... 34
Request Body ... 34
Response Syntax ... 34
Response Elements ... 35
Errors ... 36
See Also ... 36
BatchGetSecurityControls ... 38
Request Syntax ... 38
URI Request Parameters ... 38
Request Body ... 38
Response Syntax ... 38
Response Elements ... 39
Errors ... 40
See Also ... 40
BatchGetStandardsControlAssociations ... 42

Request Syntax ... 42
URI Request Parameters ... 42
Request Body ... 42
Response Syntax ... 43
Response Elements ... 43
Errors ... 44
See Also ... 44
BatchImportFindings ... 46
Request Syntax ... 47
URI Request Parameters ... 145
Request Body ... 145
Response Syntax ... 145
Response Elements ... 145
Errors ... 146
See Also ... 147
BatchUpdateAutomationRules ... 148
Request Syntax ... 148
URI Request Parameters ... 155
Request Body ... 155
Response Syntax ... 155
Response Elements ... 156
Errors ... 156
See Also ... 157
BatchUpdateFindings ... 158
Request Syntax ... 158
URI Request Parameters ... 159
Request Body ... 159
Response Syntax ... 162
Response Elements ... 163
Errors ... 163
See Also ... 164
BatchUpdateFindingsV2 ... 165
Request Syntax ... 165
URI Request Parameters ... 165
Request Body ... 165
Response Syntax ... 167

Response Elements ... 168
Errors ... 168
See Also ... 169
BatchUpdateStandardsControlAssociations ... 170
Request Syntax ... 170
URI Request Parameters ... 170
Request Body ... 170
Response Syntax ... 171
Response Elements ... 171
Errors ... 171
See Also ... 172
CreateActionTarget ... 174
Request Syntax ... 174
URI Request Parameters ... 174
Request Body ... 174
Response Syntax ... 175
Response Elements ... 175
Errors ... 175
See Also ... 176
CreateAggregatorV2 ... 178
Request Syntax ... 178
URI Request Parameters ... 178
Request Body ... 178
Response Syntax ... 179
Response Elements ... 180
Errors ... 180
See Also ... 181
CreateAutomationRule ... 183
Request Syntax ... 183
URI Request Parameters ... 190
Request Body ... 190
Response Syntax ... 192
Response Elements ... 192
Errors ... 192
See Also ... 193
CreateAutomationRuleV2 ... 195

Request Syntax ... 195
URI Request Parameters ... 195
Request Body ... 195
Response Syntax ... 197
Response Elements ... 198
Errors ... 198
See Also ... 199
CreateConfigurationPolicy ... 200
Request Syntax ... 200
URI Request Parameters ... 200
Request Body ... 200
Response Syntax ... 201
Response Elements ... 202
Errors ... 203
See Also ... 204
CreateConnectorV2 ... 206
Request Syntax ... 206
URI Request Parameters ... 206
Request Body ... 206
Response Syntax ... 208
Response Elements ... 208
Errors ... 209
See Also ... 210
CreateFindingAggregator ... 211
Request Syntax ... 211
URI Request Parameters ... 211
Request Body ... 211
Response Syntax ... 212
Response Elements ... 213
Errors ... 214
See Also ... 214
CreateInsight ... 216
Request Syntax ... 216
URI Request Parameters ... 232
Request Body ... 232
Response Syntax ... 233

Response Elements ... 233
Errors ... 233
See Also ... 234
CreateMembers ... 235
Request Syntax ... 236
URI Request Parameters ... 236
Request Body ... 236
Response Syntax ... 236
Response Elements ... 237
Errors ... 237
See Also ... 238
CreateTicketV2 ... 239
Request Syntax ... 239
URI Request Parameters ... 239
Request Body ... 239
Response Syntax ... 240
Response Elements ... 240
Errors ... 241
See Also ... 242
DeclineInvitations ... 243
Request Syntax ... 243
URI Request Parameters ... 243
Request Body ... 243
Response Syntax ... 244
Response Elements ... 244
Errors ... 244
See Also ... 245
DeleteActionTarget ... 246
Request Syntax ... 246
URI Request Parameters ... 246
Request Body ... 246
Response Syntax ... 246
Response Elements ... 246
Errors ... 247
See Also ... 247
DeleteAggregatorV2 ... 249

Request Syntax ... 249
URI Request Parameters ... 249
Request Body ... 249
Response Syntax ... 249
Response Elements ... 249
Errors ... 249
See Also ... 250
DeleteAutomationRuleV2 ... 252
Request Syntax ... 252
URI Request Parameters ... 252
Request Body ... 252
Response Syntax ... 252
Response Elements ... 252
Errors ... 252
See Also ... 253
DeleteConfigurationPolicy ... 255
Request Syntax ... 255
URI Request Parameters ... 255
Request Body ... 255
Response Syntax ... 255
Response Elements ... 255
Errors ... 255
See Also ... 256
DeleteConnectorV2 ... 258
Request Syntax ... 258
URI Request Parameters ... 258
Request Body ... 258
Response Syntax ... 258
Response Elements ... 258
Errors ... 258
See Also ... 259
DeleteFindingAggregator ... 261
Request Syntax ... 261
URI Request Parameters ... 261
Request Body ... 261
Response Syntax ... 261

Response Elements ... 262
Errors ... 262
See Also ... 263
DeleteInsight ... 264
Request Syntax ... 264
URI Request Parameters ... 264
Request Body ... 264
Response Syntax ... 264
Response Elements ... 264
Errors ... 265
See Also ... 266
DeleteInvitations ... 267
Request Syntax ... 267
URI Request Parameters ... 267
Request Body ... 267
Response Syntax ... 268
Response Elements ... 268
Errors ... 268
See Also ... 269
DeleteMembers ... 271
Request Syntax ... 271
URI Request Parameters ... 271
Request Body ... 271
Response Syntax ... 271
Response Elements ... 272
Errors ... 272
See Also ... 273
DescribeActionTargets ... 274
Request Syntax ... 274
URI Request Parameters ... 274
Request Body ... 274
Response Syntax ... 275
Response Elements ... 275
Errors ... 276
See Also ... 276
DescribeHub ... 278

Request Syntax ... 278
URI Request Parameters ... 278
Request Body ... 278
Response Syntax ... 278
Response Elements ... 278
Errors ... 280
See Also ... 281
DescribeOrganizationConfiguration ... 282
Request Syntax ... 282
URI Request Parameters ... 282
Request Body ... 282
Response Syntax ... 282
Response Elements ... 282
Errors ... 284
See Also ... 284
DescribeProducts ... 286
Request Syntax ... 286
URI Request Parameters ... 286
Request Body ... 286
Response Syntax ... 287
Response Elements ... 287
Errors ... 287
See Also ... 288
DescribeProductsV2 ... 290
Request Syntax ... 290
URI Request Parameters ... 290
Request Body ... 290
Response Syntax ... 290
Response Elements ... 291
Errors ... 291
See Also ... 292
DescribeSecurityHubV2 ... 293
Request Syntax ... 293
URI Request Parameters ... 293
Request Body ... 293
Response Syntax ... 293

Response Elements ... 293
Errors ... 294
See Also ... 294
DescribeStandards ... 296
Request Syntax ... 296
URI Request Parameters ... 296
Request Body ... 296
Response Syntax ... 296
Response Elements ... 297
Errors ... 297
See Also ... 298
DescribeStandardsControls ... 299
Request Syntax ... 299
URI Request Parameters ... 299
Request Body ... 300
Response Syntax ... 300
Response Elements ... 300
Errors ... 301
See Also ... 301
DisableImportFindingsForProduct ... 303
Request Syntax ... 303
URI Request Parameters ... 303
Request Body ... 303
Response Syntax ... 303
Response Elements ... 303
Errors ... 303
See Also ... 304
DisableOrganizationAdminAccount ... 306
Request Syntax ... 306
URI Request Parameters ... 306
Request Body ... 306
Response Syntax ... 307
Response Elements ... 307
Errors ... 307
See Also ... 308
DisableSecurityHub ... 309

Request Syntax ... 309
URI Request Parameters ... 309
Request Body ... 309
Response Syntax ... 309
Response Elements ... 309
Errors ... 309
See Also ... 310
DisableSecurityHubV2 ... 312
Request Syntax ... 312
URI Request Parameters ... 312
Request Body ... 312
Response Syntax ... 312
Response Elements ... 312
Errors ... 312
See Also ... 313
DisassociateFromAdministratorAccount ... 314
Request Syntax ... 314
URI Request Parameters ... 314
Request Body ... 314
Response Syntax ... 314
Response Elements ... 314
Errors ... 314
See Also ... 315
DisassociateFromMasterAccount ... 316
Request Syntax ... 316
URI Request Parameters ... 316
Request Body ... 316
Response Syntax ... 316
Response Elements ... 316
Errors ... 317
See Also ... 317
DisassociateMembers ... 319
Request Syntax ... 319
URI Request Parameters ... 319
Request Body ... 319
Response Syntax ... 319

Response Elements ... 319
Errors ... 320
See Also ... 320
EnableImportFindingsForProduct ... 322
Request Syntax ... 322
URI Request Parameters ... 322
Request Body ... 322
Response Syntax ... 322
Response Elements ... 323
Errors ... 323
See Also ... 324
EnableOrganizationAdminAccount ... 325
Request Syntax ... 325
URI Request Parameters ... 325
Request Body ... 325
Response Syntax ... 326
Response Elements ... 326
Errors ... 326
See Also ... 327
EnableSecurityHub ... 329
Request Syntax ... 329
URI Request Parameters ... 329
Request Body ... 330
Response Syntax ... 331
Response Elements ... 331
Errors ... 331
See Also ... 332
EnableSecurityHubV2 ... 333
Request Syntax ... 333
URI Request Parameters ... 333
Request Body ... 333
Response Syntax ... 333
Response Elements ... 334
Errors ... 334
See Also ... 335
GetAdministratorAccount ... 336

Request Syntax ... 336
URI Request Parameters ... 336
Request Body ... 336
Response Syntax ... 336
Response Elements ... 336
Errors ... 337
See Also ... 338
GetAggregatorV2 ... 339
Request Syntax ... 339
URI Request Parameters ... 339
Request Body ... 339
Response Syntax ... 339
Response Elements ... 339
Errors ... 340
See Also ... 341
GetAutomationRuleV2 ... 343
Request Syntax ... 343
URI Request Parameters ... 343
Request Body ... 343
Response Syntax ... 343
Response Elements ... 344
Errors ... 346
See Also ... 346
GetConfigurationPolicy ... 348
Request Syntax ... 348
URI Request Parameters ... 348
Request Body ... 348
Response Syntax ... 348
Response Elements ... 349
Errors ... 350
See Also ... 351
GetConfigurationPolicyAssociation ... 352
Request Syntax ... 352
URI Request Parameters ... 352
Request Body ... 352
Response Syntax ... 352

Response Elements ... 353
Errors ... 354
See Also ... 355
GetConnectorV2 ... 356
Request Syntax ... 356
URI Request Parameters ... 356
Request Body ... 356
Response Syntax ... 356
Response Elements ... 357
Errors ... 358
See Also ... 359
GetEnabledStandards ... 360
Request Syntax ... 360
URI Request Parameters ... 360
Request Body ... 360
Response Syntax ... 361
Response Elements ... 361
Errors ... 362
See Also ... 363
GetFindingAggregator ... 364
Request Syntax ... 364
URI Request Parameters ... 364
Request Body ... 364
Response Syntax ... 364
Response Elements ... 365
Errors ... 366
See Also ... 366
GetFindingHistory ... 368
Request Syntax ... 368
URI Request Parameters ... 368
Request Body ... 368
Response Syntax ... 370
Response Elements ... 371
Errors ... 371
See Also ... 372
GetFindings ... 373

Request Syntax ... 373
URI Request Parameters ... 389
Request Body ... 389
Response Syntax ... 390
Response Elements ... 488
Errors ... 488
See Also ... 489
GetFindingStatisticsV2 ... 490
Request Syntax ... 490
URI Request Parameters ... 492
Request Body ... 492
Response Syntax ... 493
Response Elements ... 493
Errors ... 493
See Also ... 494
GetFindingsTrendsV2 ... 495
Request Syntax ... 495
URI Request Parameters ... 495
Request Body ... 496
Response Syntax ... 497
Response Elements ... 497
Errors ... 498
See Also ... 498
GetFindingsV2 ... 500
Request Syntax ... 500
URI Request Parameters ... 502
Request Body ... 502
Response Syntax ... 503
Response Elements ... 503
Errors ... 503
See Also ... 504
GetInsightResults ... 506
Request Syntax ... 506
URI Request Parameters ... 506
Request Body ... 506
Response Syntax ... 506

Response Elements ... 507
Errors ... 507
See Also ... 508
GetInsights ... 509
Request Syntax ... 509
URI Request Parameters ... 509
Request Body ... 509
Response Syntax ... 510
Response Elements ... 526
Errors ... 526
See Also ... 527
GetInvitationsCount ... 529
Request Syntax ... 529
URI Request Parameters ... 529
Request Body ... 529
Response Syntax ... 529
Response Elements ... 529
Errors ... 530
See Also ... 530
GetMasterAccount ... 532
Request Syntax ... 532
URI Request Parameters ... 532
Request Body ... 532
Response Syntax ... 532
Response Elements ... 533
Errors ... 533
See Also ... 534
GetMembers ... 535
Request Syntax ... 535
URI Request Parameters ... 535
Request Body ... 535
Response Syntax ... 535
Response Elements ... 536
Errors ... 536
See Also ... 537
GetResourcesStatisticsV2 ... 539

Request Syntax ... 539
URI Request Parameters ... 540
Request Body ... 540
Response Syntax ... 541
Response Elements ... 542
Errors ... 542
See Also ... 543
GetResourcesTrendsV2 ... 544
Request Syntax ... 544
URI Request Parameters ... 544
Request Body ... 545
Response Syntax ... 546
Response Elements ... 546
Errors ... 547
See Also ... 547
GetResourcesV2 ... 549
Request Syntax ... 549
URI Request Parameters ... 550
Request Body ... 550
Response Syntax ... 551
Response Elements ... 552
Errors ... 553
See Also ... 554
GetSecurityControlDefinition ... 555
Request Syntax ... 555
URI Request Parameters ... 555
Request Body ... 555
Response Syntax ... 555
Response Elements ... 556
Errors ... 556
See Also ... 557
InviteMembers ... 558
Request Syntax ... 558
URI Request Parameters ... 558
Request Body ... 558
Response Syntax ... 559

Response Elements ... 559
Errors ... 559
See Also ... 560
ListAggregatorsV2 ... 562
Request Syntax ... 562
URI Request Parameters ... 562
Request Body ... 562
Response Syntax ... 562
Response Elements ... 563
Errors ... 563
See Also ... 564
ListAutomationRules ... 565
Request Syntax ... 565
URI Request Parameters ... 565
Request Body ... 565
Response Syntax ... 565
Response Elements ... 566
Errors ... 566
See Also ... 567
ListAutomationRulesV2 ... 568
Request Syntax ... 568
URI Request Parameters ... 568
Request Body ... 568
Response Syntax ... 568
Response Elements ... 569
Errors ... 569
See Also ... 570
ListConfigurationPolicies ... 571
Request Syntax ... 571
URI Request Parameters ... 571
Request Body ... 571
Response Syntax ... 572
Response Elements ... 572
Errors ... 573
See Also ... 573
ListConfigurationPolicyAssociations ... 575

Request Syntax ... 575
URI Request Parameters ... 575
Request Body ... 575
Response Syntax ... 576
Response Elements ... 577
Errors ... 577
See Also ... 578
ListConnectorsV2 ... 579
Request Syntax ... 579
URI Request Parameters ... 579
Request Body ... 579
Response Syntax ... 580
Response Elements ... 580
Errors ... 581
See Also ... 581
ListEnabledProductsForImport ... 583
Request Syntax ... 583
URI Request Parameters ... 583
Request Body ... 583
Response Syntax ... 583
Response Elements ... 584
Errors ... 584
See Also ... 585
ListFindingAggregators ... 586
Request Syntax ... 586
URI Request Parameters ... 586
Request Body ... 586
Response Syntax ... 586
Response Elements ... 587
Errors ... 587
See Also ... 588
ListInvitations ... 589
Request Syntax ... 589
URI Request Parameters ... 589
Request Body ... 589
Response Syntax ... 590

Response Elements 590
Errors 590
See Also 591
ListMembers 593
Request Syntax 593
URI Request Parameters 593
Request Body 593
Response Syntax 594
Response Elements 594
Errors 594
See Also 595
ListOrganizationAdminAccounts 597
Request Syntax 597
URI Request Parameters 597
Request Body 597
Response Syntax 597
Response Elements 598
Errors 598
See Also 599
ListSecurityControlDefinitions 601
Request Syntax 601
URI Request Parameters 601
Request Body 601
Response Syntax 601
Response Elements 602
Errors 602
See Also 603
ListStandardsControlAssociations 605
Request Syntax 605
URI Request Parameters 605
Request Body 606
Response Syntax 606
Response Elements 606
Errors 607
See Also 607
ListTagsForResource 609

Request Syntax ... 609
URI Request Parameters ... 609
Request Body ... 609
Response Syntax ... 609
Response Elements ... 609
Errors ... 610
See Also ... 610
RegisterConnectorV2 ... 612
Request Syntax ... 612
URI Request Parameters ... 612
Request Body ... 612
Response Syntax ... 613
Response Elements ... 613
Errors ... 613
See Also ... 614
StartConfigurationPolicyAssociation ... 616
Request Syntax ... 616
URI Request Parameters ... 616
Request Body ... 616
Response Syntax ... 617
Response Elements ... 617
Errors ... 618
See Also ... 619
StartConfigurationPolicyDisassociation ... 621
Request Syntax ... 621
URI Request Parameters ... 621
Request Body ... 621
Response Syntax ... 622
Response Elements ... 622
Errors ... 622
See Also ... 623
TagResource ... 624
Request Syntax ... 624
URI Request Parameters ... 624
Request Body ... 624
Response Syntax ... 625

Response Elements ... 625
Errors ... 625
See Also ... 625
UntagResource ... 627
Request Syntax ... 627
URI Request Parameters ... 627
Request Body ... 627
Response Syntax ... 627
Response Elements ... 628
Errors ... 628
See Also ... 628
UpdateActionTarget ... 630
Request Syntax ... 630
URI Request Parameters ... 630
Request Body ... 630
Response Syntax ... 631
Response Elements ... 631
Errors ... 631
See Also ... 632
UpdateAggregatorV2 ... 633
Request Syntax ... 633
URI Request Parameters ... 633
Request Body ... 633
Response Syntax ... 634
Response Elements ... 634
Errors ... 635
See Also ... 636
UpdateAutomationRuleV2 ... 637
Request Syntax ... 637
URI Request Parameters ... 637
Request Body ... 638
Response Syntax ... 639
Response Elements ... 639
Errors ... 639
See Also ... 640
UpdateConfigurationPolicy ... 641

Request Syntax ... 641
URI Request Parameters ... 641
Request Body ... 641
Response Syntax ... 643
Response Elements ... 643
Errors ... 644
See Also ... 645
UpdateConnectorV2 ... 647
Request Syntax ... 647
URI Request Parameters ... 647
Request Body ... 647
Response Syntax ... 648
Response Elements ... 648
Errors ... 648
See Also ... 649
UpdateFindingAggregator ... 650
Request Syntax ... 650
URI Request Parameters ... 650
Request Body ... 650
Response Syntax ... 652
Response Elements ... 652
Errors ... 653
See Also ... 654
UpdateFindings ... 655
Request Syntax ... 655
URI Request Parameters ... 671
Request Body ... 671
Response Syntax ... 672
Response Elements ... 672
Errors ... 672
See Also ... 673
UpdateInsight ... 674
Request Syntax ... 674
URI Request Parameters ... 690
Request Body ... 690
Response Syntax ... 691

Response Elements ... 691
Errors ... 691
See Also ... 692
UpdateOrganizationConfiguration ... 693
Request Syntax ... 693
URI Request Parameters ... 693
Request Body ... 693
Response Syntax ... 694
Response Elements ... 694
Errors ... 695
See Also ... 696
UpdateSecurityControl ... 697
Request Syntax ... 697
URI Request Parameters ... 697
Request Body ... 697
Response Syntax ... 698
Response Elements ... 698
Errors ... 698
See Also ... 699
UpdateSecurityHubConfiguration ... 701
Request Syntax ... 701
URI Request Parameters ... 701
Request Body ... 701
Response Syntax ... 702
Response Elements ... 702
Errors ... 702
See Also ... 703
UpdateStandardsControl ... 705
Request Syntax ... 705
URI Request Parameters ... 705
Request Body ... 705
Response Syntax ... 706
Response Elements ... 706
Errors ... 706
See Also ... 707
Data Types ... 708

Primary data types 735
AccountDetails 743
Action 744
ActionLocalIpDetails 746
ActionLocalPortDetails 747
ActionRemoteIpDetails 748
ActionRemotePortDetails 750
ActionTarget 751
Actor 753
ActorSession 755
ActorUser 757
Adjustment 759
AdminAccount 760
AssociatedStandard 761
AssociationFilters 762
AutomationRulesAction 764
AutomationRulesConfig 765
AutomationRulesFindingFieldsUpdate 768
AutomationRulesFindingFilters 771
AutomationRulesMetadata 781
AwsApiCallAction 784
AwsApiCallActionDomainDetails 787
AwsSecurityFinding 788
AwsSecurityFindingFilters 800
AwsSecurityFindingIdentifier 821
BatchUpdateFindingsUnprocessedFinding 822
BooleanConfigurationOptions 824
BooleanFilter 825
Cell 826
City 828
ClassificationResult 829
ClassificationStatus 831
CodeVulnerabilitiesFilePath 832
Compliance 834
ConfigurationOptions 837
ConfigurationPolicyAssociation 839

ConfigurationPolicyAssociationSummary 840
ConfigurationPolicySummary 842
Country 844
CustomDataIdentifiersDetections 845
CustomDataIdentifiersResult 847
Cvss 848
DataClassificationDetails 850
DateFilter 851
DateRange 853
Detection 854
DnsRequestAction 855
DoubleConfigurationOptions 857
EnumConfigurationOptions 858
EnumListConfigurationOptions 859
FilePaths 861
FindingAggregator 863
FindingHistoryRecord 864
FindingHistoryUpdate 866
FindingHistoryUpdateSource 868
FindingProviderFields 869
FindingProviderSeverity 872
GeneratorDetails 874
GeoLocation 876
IcmpTypeCode 877
ImportFindingsError 878
Indicator 880
Insight 882
InsightResults 884
InsightResultValue 886
IntegerConfigurationOptions 887
IntegerListConfigurationOptions 888
Invitation 890
IpFilter 892
IpOrganizationDetails 893
KeywordFilter 895
Malware 896

MapFilter ... 898
Member ... 901
Network ... 904
NetworkAutonomousSystem ... 907
NetworkConnection ... 908
NetworkConnectionAction ... 909
NetworkEndpoint ... 911
NetworkGeoLocation ... 913
NetworkPathComponent ... 915
NetworkPathComponentDetails ... 917
Note ... 918
NoteUpdate ... 920
NumberFilter ... 921
Occurrences ... 923
OrganizationConfiguration ... 925
Page ... 927
ParameterConfiguration ... 928
ParameterDefinition ... 930
ParameterValue ... 931
PatchSummary ... 934
Policy ... 938
PortProbeAction ... 939
PortProbeDetail ... 940
ProcessDetails ... 941
Product ... 943
Range ... 946
Recommendation ... 947
Record ... 948
RelatedFinding ... 949
Remediation ... 950
Resource ... 951
ResourceDetails ... 954
Result ... 973
SecurityControl ... 974
SecurityControlCustomParameter ... 977
SecurityControlDefinition ... 978

SecurityControlParameter 981
SecurityControlsConfiguration 982
SecurityHubPolicy 984
SensitiveDataDetections 986
SensitiveDataResult 987
Sequence 988
Severity 990
SeverityUpdate 993
Signal 995
SoftwarePackage 999
SortCriterion 1002
Standard 1003
StandardsControl 1005
StandardsControlAssociationDetail 1008
StandardsControlAssociationId 1011
StandardsControlAssociationSummary 1012
StandardsControlAssociationUpdate 1015
StandardsManagedBy 1017
StandardsStatusReason 1018
StandardsSubscription 1019
StandardsSubscriptionRequest 1022
StatusReason 1023
StringConfigurationOptions 1024
StringFilter 1026
StringListConfigurationOptions 1029
Target 1031
Threat 1033
ThreatIntelIndicator 1035
UnprocessedAutomationRule 1037
UnprocessedConfigurationPolicyAssociation 1039
UnprocessedSecurityControl 1041
UnprocessedStandardsControlAssociation 1043
UnprocessedStandardsControlAssociationUpdate 1045
UpdateAutomationRulesRequestItem 1047
UserAccount 1050
Vulnerability 1051

VulnerabilityCodeVulnerabilities 1054
VulnerabilityVendor 1056
Workflow 1058
WorkflowUpdate 1060
AggregatorV2 1062
AutomationRulesActionTypeObjectV2 1063
AutomationRulesActionV2 1064
AutomationRulesFindingFieldsUpdateV2 1065
AutomationRulesMetadataV2 1066
BatchUpdateFindingsV2ProcessedFinding 1069
BatchUpdateFindingsV2UnprocessedFinding 1070
CompositeFilter 1072
Criteria 1074
ExternalIntegrationConfiguration 1075
GroupByResult 1076
GroupByRule 1077
GroupByValue 1079
OcsfBooleanFilter 1080
OcsfDateFilter 1081
OcsfFindingFilters 1082
OcsfFindingIdentifier 1083
OcsfNumberFilter 1085
OcsfMapFilter 1086
OcsfStringFilter 1087
ProductV2 1089
ResourceFindingsSummary 1091
ResourceGroupByRule 1093
ResourceResult 1094
ResourcesCompositeFilter 1097
ResourcesDateFilter 1099
ResourceSeverityBreakdown 1100
ResourcesFilters 1102
ResourcesMapFilter 1103
ResourcesNumberFilter 1104
ResourcesStringFilter 1105
ResourceTag 1106

ConnectorSummary 1107
HealthCheck 1109
JiraCloudDetail 1111
JiraCloudProviderConfiguration 1113
JiraCloudUpdateConfiguration 1114
ProviderConfiguration 1115
ProviderDetail 1116
ProviderSummary 1117
ProviderUpdateConfiguration 1118
ServiceNowDetail 1119
ServiceNowProviderConfiguration 1121
OcsfIpFilter 1122
ASFF resource objects 1122
Amazon MQ objects 1144
Amazon API Gateway 1159
AWS AppSync objects 1186
Amazon Athena objects 1199
AWS Backup 1204
ACM objects 1228
AWS CloudFormation 1245
Amazon CloudFront 1252
AWS CloudTrail 1274
Amazon CloudWatch 1278
AWS CodeBuild 1285
AWS DMS objects 1307
Amazon DynamoDB 1321
Amazon EC2 1346
Amazon EC2 Auto Scaling 1506
Amazon ECR objects 1533
Amazon ECS objects 1539
Amazon EFS objects 1636
Amazon EKS objects 1644
AWS Elastic Beanstalk 1652
Amazon ElasticSearch objects 1661
Elastic Load Balancing objects 1678
Amazon EventBridge objects 1706

Amazon GuardDuty objects 1720
AWS Identity and Access Management (IAM) objects 1734
Amazon Kinesis objects 1764
AWS KMS objects 1767
AWS Lambda objects 1770
Amazon MSK objects 1786
AWS Network Firewall objects 1798
Amazon OpenSearch Service 1839
Amazon RDS objects 1861
Amazon Redshift objects 1929
Amazon Route 53 1964
Amazon S3 objects 1974
Amazon SageMaker AI 2024
AWS Secrets Manager objects 2031
Amazon SNS objects 2034
Amazon SQS objects 2038
AWS Systems Manager objects 2040
AWS Step Functions objects 2047
AWS WAF objects 2054
AWS X-Ray objects 2117
Container objects 2119
Code repository objects 2122
Common Parameters 2125
Common Errors 2128

AWS Security Hub CSPM API Reference

AWS Security Hub CSPM provides you with a comprehensive view of your security state in AWS and helps you assess your AWS environment against security industry standards and best practices.

Security Hub CSPM collects security data across AWS accounts, AWS services, and supported third-party products and helps you analyze your security trends and identify the highest priority security issues.

To help you manage the security state of your organization, Security Hub CSPM supports multiple security standards. These include the AWS Foundational Security Best Practices (FSBP) standard developed by AWS, and external compliance frameworks such as the Center for Internet Security (CIS), the Payment Card Industry Data Security Standard (PCI DSS), and the National Institute of Standards and Technology (NIST). Each standard includes several security controls, each of which represents a security best practice. Security Hub CSPM runs checks against security controls and generates control findings to help you assess your compliance against security best practices.

In addition to generating control findings, Security Hub CSPM also receives findings from other AWS services, such as Amazon GuardDuty and Amazon Inspector, and supported third-party products. This gives you visibility into a variety of security-related issues. You can also send Security Hub CSPM findings to other AWS services and supported third-party products.

Security Hub CSPM offers automation features that help you triage and remediate security issues. For example, you can use automation rules to automatically update critical findings when a security check fails. You can also leverage the integration with Amazon EventBridge to trigger automatic responses to specific findings.

This guide, the *AWS Security Hub CSPM API Reference*, provides information about the Security Hub CSPM API. This includes supported resources, HTTP methods, parameters, and schemas. If you're new to Security Hub CSPM, you might find it helpful to also review the *AWS Security Hub CSPM User Guide*. The user guide explains key concepts and provides procedures that demonstrate how to use Security Hub CSPM features. It also provides information about topics such as integrating Security Hub CSPM with other AWS services. Additional information about the AWS Security Finding Format (ASFF) is also included in the *AWS Security Hub CSPM User Guide*.

In addition to interacting with Security Hub CSPM by making calls to the Security Hub CSPM API, you can use a current version of an AWS command line tool or SDK. AWS provides tools and SDKs that consist of libraries and sample code for various languages and platforms, such as PowerShell,

Java, Go, Python, C++, and .NET. These tools and SDKs provide convenient, programmatic access to Security Hub CSPM and other AWS services . They also handle tasks such as signing requests, managing errors, and retrying requests automatically. For information about installing and using the AWS tools and SDKs, see Tools to Build on AWS.

Finding Regional endpoints

The AWS Security Hub CSPM API is available in most AWS Regions, and it provides an endpoint for each of these Regions. For a list of Regions and endpoints where the API is currently available, see AWS Security Hub CSPM endpoints and quotas in the *AWS General Reference*. To learn about managing AWS Regions for your AWS account, see Enable or disable AWS Regions in your account in the *AWS Account Management Reference Guide*.

With the exception of operations that are related to central configuration, Security Hub CSPM API requests are executed only in the AWS Region that's currently active in your AWS account or specified in your request. Any changes submitted by a request apply only in that Region. To make the same changes in other Regions, send the request in each additional Region that you want to apply the changes to. When you use central configuration, API requests for configuring Security Hub CSPM, standards, and controls are executed in the home Region and all linked Regions. For more information, see Central configuration in the *AWS Security Hub CSPM User Guide*.

Throttling limits

The following throttling limits apply to Security Hub CSPM API operations.

- `BatchEnableStandards` - `RateLimit` of 1 request per second. `BurstLimit` of 1 request per second.
- `GetFindings` - `RateLimit` of 3 requests per second. `BurstLimit` of 6 requests per second.
- `BatchImportFindings` - `RateLimit` of 10 requests per second. `BurstLimit` of 30 requests per second.
- `BatchUpdateFindings` - `RateLimit` of 10 requests per second. `BurstLimit` of 30 requests per second.
- `UpdateStandardsControl` - `RateLimit` of 1 request per second. `BurstLimit` of 5 requests per second.
- All other operations - `RateLimit` of 10 requests per second. `BurstLimit` of 30 requests per second.

Timestamps

In the Security Hub CSPM API, timestamp fields can end with Z or `("+" / "-") time-hour [":" time-minute]`. The time-secfrac after seconds is limited to a maximum of 9 digits. The offset is bounded by +/-18:00. Here are valid timestamp formats that you can send to Security Hub CSPM:

- `YYYY-MM-DDTHH:MM:SSZ` (for example, `2019-01-31T23:00:00Z`)
- `YYYY-MM-DDTHH:MM:SS.mmmmmmmmmZ` (for example, `2019-01-31T23:00:00.123456789Z`)
- `YYYY-MM-DDTHH:MM:SS+HH:MM` (for example, `2024-01-04T15:25:10+17:59`)
- `YYYY-MM-DDTHH:MM:SS-HHMM` (for example, `2024-01-04T15:25:10-1759`)
- `YYYY-MM-DDTHH:MM:SS.mmmmmmmmm+HH:MM` (for example, `2024-01-04T15:25:10.123456789+17:59`)

If a finding provider sends a finding to Security Hub CSPM that contains a timestamp in nanoseconds, we round it to milliseconds. For example, we round `2024-10-31T23:00:00.123456789Z` to `2024-10-31T23:00:00.123Z`.

Actions

The following actions are supported:

- AcceptAdministratorInvitation
- AcceptInvitation
- BatchDeleteAutomationRules
- BatchDisableStandards
- BatchEnableStandards
- BatchGetAutomationRules
- BatchGetConfigurationPolicyAssociations
- BatchGetSecurityControls
- BatchGetStandardsControlAssociations
- BatchImportFindings
- BatchUpdateAutomationRules
- BatchUpdateFindings
- BatchUpdateFindingsV2
- BatchUpdateStandardsControlAssociations
- CreateActionTarget
- CreateAggregatorV2
- CreateAutomationRule
- CreateAutomationRuleV2
- CreateConfigurationPolicy
- CreateConnectorV2
- CreateFindingAggregator
- CreateInsight
- CreateMembers
- CreateTicketV2
- DeclineInvitations
- DeleteActionTarget
- DeleteAggregatorV2

- DeleteAutomationRuleV2
- DeleteConfigurationPolicy
- DeleteConnectorV2
- DeleteFindingAggregator
- DeleteInsight
- DeleteInvitations
- DeleteMembers
- DescribeActionTargets
- DescribeHub
- DescribeOrganizationConfiguration
- DescribeProducts
- DescribeProductsV2
- DescribeSecurityHubV2
- DescribeStandards
- DescribeStandardsControls
- DisableImportFindingsForProduct
- DisableOrganizationAdminAccount
- DisableSecurityHub
- DisableSecurityHubV2
- DisassociateFromAdministratorAccount
- DisassociateFromMasterAccount
- DisassociateMembers
- EnableImportFindingsForProduct
- EnableOrganizationAdminAccount
- EnableSecurityHub
- EnableSecurityHubV2
- GetAdministratorAccount
- GetAggregatorV2
- GetAutomationRuleV2
- GetConfigurationPolicy

- GetConfigurationPolicyAssociation
- GetConnectorV2
- GetEnabledStandards
- GetFindingAggregator
- GetFindingHistory
- GetFindings
- GetFindingStatisticsV2
- GetFindingsTrendsV2
- GetFindingsV2
- GetInsightResults
- GetInsights
- GetInvitationsCount
- GetMasterAccount
- GetMembers
- GetResourcesStatisticsV2
- GetResourcesTrendsV2
- GetResourcesV2
- GetSecurityControlDefinition
- InviteMembers
- ListAggregatorsV2
- ListAutomationRules
- ListAutomationRulesV2
- ListConfigurationPolicies
- ListConfigurationPolicyAssociations
- ListConnectorsV2
- ListEnabledProductsForImport
- ListFindingAggregators
- ListInvitations
- ListMembers
- ListOrganizationAdminAccounts

- ListSecurityControlDefinitions
- ListStandardsControlAssociations
- ListTagsForResource
- RegisterConnectorV2
- StartConfigurationPolicyAssociation
- StartConfigurationPolicyDisassociation
- TagResource
- UntagResource
- UpdateActionTarget
- UpdateAggregatorV2
- UpdateAutomationRuleV2
- UpdateConfigurationPolicy
- UpdateConnectorV2
- UpdateFindingAggregator
- UpdateFindings
- UpdateInsight
- UpdateOrganizationConfiguration
- UpdateSecurityControl
- UpdateSecurityHubConfiguration
- UpdateStandardsControl

AcceptAdministratorInvitation

> **Note**
>
> We recommend using AWS Organizations instead of Security Hub CSPM invitations to manage your member accounts. For information, see Managing Security Hub CSPM administrator and member accounts with Organizations in the *AWS Security Hub CSPM User Guide*.

Accepts the invitation to be a member account and be monitored by the Security Hub CSPM administrator account that the invitation was sent from.

This operation is only used by member accounts that are not added through Organizations.

When the member account accepts the invitation, permission is granted to the administrator account to view findings generated in the member account.

Request Syntax

```
POST /administrator HTTP/1.1
Content-type: application/json

{
   "AdministratorId": "string",
   "InvitationId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AdministratorId

The account ID of the Security Hub CSPM administrator account that sent the invitation.

Type: String

Pattern: `.*\S.*`

Required: Yes

InvitationId

The identifier of the invitation sent from the Security Hub CSPM administrator account.

Type: String

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

AcceptInvitation

This method is deprecated. Instead, use `AcceptAdministratorInvitation`.

The Security Hub CSPM console continues to use `AcceptInvitation`. It will eventually change to use `AcceptAdministratorInvitation`. Any IAM policies that specifically control access to this function must continue to use `AcceptInvitation`. You should also add `AcceptAdministratorInvitation` to your policies to ensure that the correct permissions are in place after the console begins to use `AcceptAdministratorInvitation`.

Accepts the invitation to be a member account and be monitored by the Security Hub CSPM administrator account that the invitation was sent from.

This operation is only used by member accounts that are not added through Organizations.

When the member account accepts the invitation, permission is granted to the administrator account to view findings generated in the member account.

Request Syntax

```
POST /master HTTP/1.1
Content-type: application/json

{
   "InvitationId": "string",
   "MasterId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

InvitationId

The identifier of the invitation sent from the Security Hub CSPM administrator account.

Type: String

Pattern: `.*\S.*`

Required: Yes

MasterId

The account ID of the Security Hub CSPM administrator account that sent the invitation.

Type: String

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchDeleteAutomationRules

Deletes one or more automation rules.

Request Syntax

```
POST /automationrules/delete HTTP/1.1
Content-type: application/json

{
   "AutomationRulesArns": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AutomationRulesArns

A list of Amazon Resource Names (ARNs) for the rules that are to be deleted.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "ProcessedAutomationRules": [ "string" ],
   "UnprocessedAutomationRules": [
```

```
        {
            "ErrorCode": number,
            "ErrorMessage": "string",
            "RuleArn": "string"
        }
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ProcessedAutomationRules

A list of properly processed rule ARNs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Pattern: `.*\S.*`

UnprocessedAutomationRules

A list of objects containing `RuleArn`, `ErrorCode`, and `ErrorMessage`. This parameter tells you which automation rules the request didn't delete and why.

Type: Array of UnprocessedAutomationRule objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchDisableStandards

Disables the standards specified by the provided `StandardsSubscriptionArns`.

For more information, see Security Standards section of the *AWS Security Hub CSPM User Guide*.

Request Syntax

```
POST /standards/deregister HTTP/1.1
Content-type: application/json

{
   "StandardsSubscriptionArns": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

StandardsSubscriptionArns

The ARNs of the standards subscriptions to disable.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
    "StandardsSubscriptions": [
       {
          "StandardsArn": "string",
          "StandardsControlsUpdatable": "string",
          "StandardsInput": {
             "string" : "string"
          },
          "StandardsStatus": "string",
          "StandardsStatusReason": {
             "StatusReasonCode": "string"
          },
          "StandardsSubscriptionArn": "string"
       }
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

StandardsSubscriptions

The details of the standards subscriptions that were disabled.

Type: Array of StandardsSubscription objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchEnableStandards

Enables the standards specified by the provided `StandardsArn`. To obtain the ARN for a standard, use the `DescribeStandards` operation.

For more information, see the Security Standards section of the *AWS Security Hub CSPM User Guide*.

Request Syntax

```
POST /standards/register HTTP/1.1
Content-type: application/json

{
   "StandardsSubscriptionRequests": [
      {
         "StandardsArn": "string",
         "StandardsInput": {
            "string" : "string"
         }
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

StandardsSubscriptionRequests

The list of standards checks to enable.

Type: Array of StandardsSubscriptionRequest objects

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "StandardsSubscriptions": [
      {
         "StandardsArn": "string",
         "StandardsControlsUpdatable": "string",
         "StandardsInput": {
            "string" : "string"
         },
         "StandardsStatus": "string",
         "StandardsStatusReason": {
            "StatusReasonCode": "string"
         },
         "StandardsSubscriptionArn": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

StandardsSubscriptions

The details of the standards subscriptions that were enabled.

Type: Array of StandardsSubscription objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetAutomationRules

Retrieves a list of details for automation rules based on rule Amazon Resource Names (ARNs).

Request Syntax

```
POST /automationrules/get HTTP/1.1
Content-type: application/json

{
   "AutomationRulesArns": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AutomationRulesArns

A list of rule ARNs to get details for.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Rules": [
      {
         "Actions": [
```

```
            {
               "FindingFieldsUpdate": {
                  "Confidence": number,
                  "Criticality": number,
                  "Note": {
                     "Text": "string",
                     "UpdatedBy": "string"
                  },
                  "RelatedFindings": [
                     {
                        "Id": "string",
                        "ProductArn": "string"
                     }
                  ],
                  "Severity": {
                     "Label": "string",
                     "Normalized": number,
                     "Product": number
                  },
                  "Types": [ "string" ],
                  "UserDefinedFields": {
                     "string" : "string"
                  },
                  "VerificationState": "string",
                  "Workflow": {
                     "Status": "string"
                  }
               },
               "Type": "string"
            }
         ],
         "CreatedAt": "string",
         "CreatedBy": "string",
         "Criteria": {
            "AwsAccountId": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "AwsAccountName": [
               {
                  "Comparison": "string",
                  "Value": "string"
```

```
            }
        ],
        "CompanyName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ComplianceAssociatedStandardsId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ComplianceSecurityControlId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ComplianceStatus": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "Confidence": [
            {
                "Eq": number,
                "Gt": number,
                "Gte": number,
                "Lt": number,
                "Lte": number
            }
        ],
        "CreatedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
```

```
            ],
            "Criticality": [
               {
                  "Eq": number,
                  "Gt": number,
                  "Gte": number,
                  "Lt": number,
                  "Lte": number
               }
            ],
            "Description": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "FirstObservedAt": [
               {
                  "DateRange": {
                     "Unit": "string",
                     "Value": number
                  },
                  "End": "string",
                  "Start": "string"
               }
            ],
            "GeneratorId": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "Id": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "LastObservedAt": [
               {
                  "DateRange": {
                     "Unit": "string",
                     "Value": number
                  },
```

```
                "End": "string",
                "Start": "string"
            }
        ],
        "NoteText": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NoteUpdatedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "NoteUpdatedBy": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ProductArn": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ProductName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "RecordState": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
```

```
            "RelatedFindingsId": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "RelatedFindingsProductArn": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceApplicationArn": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceApplicationName": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceDetailsOther": [
               {
                  "Comparison": "string",
                  "Key": "string",
                  "Value": "string"
               }
            ],
            "ResourceId": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourcePartition": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceRegion": [
```

```
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceTags": [
            {
                "Comparison": "string",
                "Key": "string",
                "Value": "string"
            }
        ],
        "ResourceType": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "SeverityLabel": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "SourceUrl": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "Title": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "Type": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "UpdatedAt": [
            {
```

```
                "DateRange": {
                   "Unit": "string",
                   "Value": number
                },
                "End": "string",
                "Start": "string"
             }
          ],
          "UserDefinedFields": [
             {
                "Comparison": "string",
                "Key": "string",
                "Value": "string"
             }
          ],
          "VerificationState": [
             {
                "Comparison": "string",
                "Value": "string"
             }
          ],
          "WorkflowStatus": [
             {
                "Comparison": "string",
                "Value": "string"
             }
          ]
       },
       "Description": "string",
       "IsTerminal": boolean,
       "RuleArn": "string",
       "RuleName": "string",
       "RuleOrder": number,
       "RuleStatus": "string",
       "UpdatedAt": "string"
    }
 ],
 "UnprocessedAutomationRules": [
    {
       "ErrorCode": number,
       "ErrorMessage": "string",
       "RuleArn": "string"
    }
 ]
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Rules

A list of rule details for the provided rule ARNs.

Type: Array of AutomationRulesConfig objects

UnprocessedAutomationRules

A list of objects containing `RuleArn`, `ErrorCode`, and `ErrorMessage`. This parameter tells you which automation rules the request didn't retrieve and why.

Type: Array of UnprocessedAutomationRule objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetConfigurationPolicyAssociations

Returns associations between an AWS Security Hub CSPM configuration and a batch of target accounts, organizational units, or the root. Only the Security Hub CSPM delegated administrator can invoke this operation from the home Region. A configuration can refer to a configuration policy or to a self-managed configuration.

Request Syntax

```
POST /configurationPolicyAssociation/batchget HTTP/1.1
Content-type: application/json

{
   "ConfigurationPolicyAssociationIdentifiers": [
      {
         "Target": { ... }
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ConfigurationPolicyAssociationIdentifiers

Specifies one or more target account IDs, organizational unit (OU) IDs, or the root ID to retrieve associations for.

Type: Array of ConfigurationPolicyAssociation objects

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "ConfigurationPolicyAssociations": [
      {
         "AssociationStatus": "string",
         "AssociationStatusMessage": "string",
         "AssociationType": "string",
         "ConfigurationPolicyId": "string",
         "TargetId": "string",
         "TargetType": "string",
         "UpdatedAt": "string"
      }
   ],
   "UnprocessedConfigurationPolicyAssociations": [
      {
         "ConfigurationPolicyAssociationIdentifiers": {
            "Target": { ... }
         },
         "ErrorCode": "string",
         "ErrorReason": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ConfigurationPolicyAssociations

Describes associations for the target accounts, OUs, or the root.

Type: Array of ConfigurationPolicyAssociationSummary objects

UnprocessedConfigurationPolicyAssociations

An array of configuration policy associations, one for each configuration policy association identifier, that was specified in the request but couldn't be processed due to an error.

Type: Array of UnprocessedConfigurationPolicyAssociation objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetSecurityControls

Provides details about a batch of security controls for the current AWS account and AWS Region.

Request Syntax

```
POST /securityControls/batchGet HTTP/1.1
Content-type: application/json

{
   "SecurityControlIds": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

SecurityControlIds

A list of security controls (identified with `SecurityControlId`, `SecurityControlArn`, or a mix of both parameters). The security control ID or Amazon Resource Name (ARN) is the same across standards.

Type: Array of strings

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "SecurityControls": [
      {
```

```
            "Description": "string",
            "LastUpdateReason": "string",
            "Parameters": {
               "string" : {
                  "Value": { ... },
                  "ValueType": "string"
               }
            },
            "RemediationUrl": "string",
            "SecurityControlArn": "string",
            "SecurityControlId": "string",
            "SecurityControlStatus": "string",
            "SeverityRating": "string",
            "Title": "string",
            "UpdateStatus": "string"
         }
      ],
      "UnprocessedIds": [
         {
            "ErrorCode": "string",
            "ErrorReason": "string",
            "SecurityControlId": "string"
         }
      ]
   }
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

SecurityControls

An array that returns the identifier, Amazon Resource Name (ARN), and other details about a security control. The same information is returned whether the request includes `SecurityControlId` or `SecurityControlArn`.

Type: Array of SecurityControl objects

UnprocessedIds

A security control (identified with `SecurityControlId`, `SecurityControlArn`, or a mix of both parameters) for which details cannot be returned.

Type: Array of UnprocessedSecurityControl objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetStandardsControlAssociations

For a batch of security controls and standards, identifies whether each control is currently enabled or disabled in a standard.

Calls to this operation return a `RESOURCE_NOT_FOUND_EXCEPTION` error when the standard subscription for the association has a `NOT_READY_FOR_UPDATES` value for `StandardsControlsUpdatable`.

Request Syntax

```
POST /associations/batchGet HTTP/1.1
Content-type: application/json

{
   "StandardsControlAssociationIds": [
      {
         "SecurityControlId": "string",
         "StandardsArn": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

StandardsControlAssociationIds

An array with one or more objects that includes a security control (identified with `SecurityControlId`, `SecurityControlArn`, or a mix of both parameters) and the Amazon Resource Name (ARN) of a standard. This field is used to query the enablement status of a control in a specified standard. The security control ID or ARN is the same across standards.

Type: Array of StandardsControlAssociationId objects

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "StandardsControlAssociationDetails": [
      {
         "AssociationStatus": "string",
         "RelatedRequirements": [ "string" ],
         "SecurityControlArn": "string",
         "SecurityControlId": "string",
         "StandardsArn": "string",
         "StandardsControlArns": [ "string" ],
         "StandardsControlDescription": "string",
         "StandardsControlTitle": "string",
         "UpdatedAt": "string",
         "UpdatedReason": "string"
      }
   ],
   "UnprocessedAssociations": [
      {
         "ErrorCode": "string",
         "ErrorReason": "string",
         "StandardsControlAssociationId": {
            "SecurityControlId": "string",
            "StandardsArn": "string"
         }
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

StandardsControlAssociationDetails

Provides the enablement status of a security control in a specified standard and other details for the control in relation to the specified standard.

Type: Array of StandardsControlAssociationDetail objects

UnprocessedAssociations

A security control (identified with `SecurityControlId`, `SecurityControlArn`, or a mix of both parameters) whose enablement status in a specified standard cannot be returned.

Type: Array of UnprocessedStandardsControlAssociation objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchImportFindings

Imports security findings generated by a finding provider into Security Hub CSPM. This action is requested by the finding provider to import its findings into Security Hub CSPM.

`BatchImportFindings` must be called by one of the following:

- The AWS account that is associated with a finding if you are using the default product ARN or are a partner sending findings from within a customer's AWS account. In these cases, the identifier of the account that you are calling `BatchImportFindings` from needs to be the same as the `AwsAccountId` attribute for the finding.
- An AWS account that Security Hub CSPM has allow-listed for an official partner integration. In this case, you can call `BatchImportFindings` from the allow-listed account and send findings from different customer accounts in the same batch.

The maximum allowed size for a finding is 240 Kb. An error is returned for any finding larger than 240 Kb.

After a finding is created, `BatchImportFindings` cannot be used to update the following finding fields and objects, which Security Hub CSPM customers use to manage their investigation workflow.

- `Note`
- `UserDefinedFields`
- `VerificationState`
- `Workflow`

Finding providers also should not use `BatchImportFindings` to update the following attributes.

- `Confidence`
- `Criticality`
- `RelatedFindings`
- `Severity`
- `Types`

Instead, finding providers use `FindingProviderFields` to provide values for these attributes.

Request Syntax

```
POST /findings/import HTTP/1.1
Content-type: application/json

{
   "Findings": [
      {
         "Action": {
            "ActionType": "string",
            "AwsApiCallAction": {
               "AffectedResources": {
                  "string" : "string"
               },
               "Api": "string",
               "CallerType": "string",
               "DomainDetails": {
                  "Domain": "string"
               },
               "FirstSeen": "string",
               "LastSeen": "string",
               "RemoteIpDetails": {
                  "City": {
                     "CityName": "string"
                  },
                  "Country": {
                     "CountryCode": "string",
                     "CountryName": "string"
                  },
                  "GeoLocation": {
                     "Lat": number,
                     "Lon": number
                  },
                  "IpAddressV4": "string",
                  "Organization": {
                     "Asn": number,
                     "AsnOrg": "string",
                     "Isp": "string",
                     "Org": "string"
                  }
               },
               "ServiceName": "string"
            },
```

```
            "DnsRequestAction": {
               "Blocked": boolean,
               "Domain": "string",
               "Protocol": "string"
            },
            "NetworkConnectionAction": {
               "Blocked": boolean,
               "ConnectionDirection": "string",
               "LocalPortDetails": {
                  "Port": number,
                  "PortName": "string"
               },
               "Protocol": "string",
               "RemoteIpDetails": {
                  "City": {
                     "CityName": "string"
                  },
                  "Country": {
                     "CountryCode": "string",
                     "CountryName": "string"
                  },
                  "GeoLocation": {
                     "Lat": number,
                     "Lon": number
                  },
                  "IpAddressV4": "string",
                  "Organization": {
                     "Asn": number,
                     "AsnOrg": "string",
                     "Isp": "string",
                     "Org": "string"
                  }
               },
               "RemotePortDetails": {
                  "Port": number,
                  "PortName": "string"
               }
            },
            "PortProbeAction": {
               "Blocked": boolean,
               "PortProbeDetails": [
                  {
                     "LocalIpDetails": {
                        "IpAddressV4": "string"
```

```
                    },
                    "LocalPortDetails": {
                       "Port": number,
                       "PortName": "string"
                    },
                    "RemoteIpDetails": {
                       "City": {
                          "CityName": "string"
                       },
                       "Country": {
                          "CountryCode": "string",
                          "CountryName": "string"
                       },
                       "GeoLocation": {
                          "Lat": number,
                          "Lon": number
                       },
                       "IpAddressV4": "string",
                       "Organization": {
                          "Asn": number,
                          "AsnOrg": "string",
                          "Isp": "string",
                          "Org": "string"
                       }
                    }
                 }
              ]
           }
        },
        "AwsAccountId": "string",
        "AwsAccountName": "string",
        "CompanyName": "string",
        "Compliance": {
           "AssociatedStandards": [
              {
                 "StandardsId": "string"
              }
           ],
           "RelatedRequirements": [ "string" ],
           "SecurityControlId": "string",
           "SecurityControlParameters": [
              {
                 "Name": "string",
                 "Value": [ "string" ]
```

```
                }
            ],
            "Status": "string",
            "StatusReasons": [
                {
                    "Description": "string",
                    "ReasonCode": "string"
                }
            ]
        },
        "Confidence": number,
        "CreatedAt": "string",
        "Criticality": number,
        "Description": "string",
        "Detection": {
            "Sequence": {
                "Actors": [
                    {
                        "Id": "string",
                        "Session": {
                            "CreatedTime": number,
                            "Issuer": "string",
                            "MfaStatus": "string",
                            "Uid": "string"
                        },
                        "User": {
                            "Account": {
                                "Name": "string",
                                "Uid": "string"
                            },
                            "CredentialUid": "string",
                            "Name": "string",
                            "Type": "string",
                            "Uid": "string"
                        }
                    }
                ],
                "Endpoints": [
                    {
                        "AutonomousSystem": {
                            "Name": "string",
                            "Number": number
                        },
                        "Connection": {
```

```
                "Direction": "string"
            },
            "Domain": "string",
            "Id": "string",
            "Ip": "string",
            "Location": {
                "City": "string",
                "Country": "string",
                "Lat": number,
                "Lon": number
            },
            "Port": number
        }
    ],
    "SequenceIndicators": [
        {
            "Key": "string",
            "Title": "string",
            "Type": "string",
            "Values": [ "string" ]
        }
    ],
    "Signals": [
        {
            "ActorIds": [ "string" ],
            "Count": number,
            "CreatedAt": number,
            "EndpointIds": [ "string" ],
            "FirstSeenAt": number,
            "Id": "string",
            "LastSeenAt": number,
            "Name": "string",
            "ProductArn": "string",
            "ResourceIds": [ "string" ],
            "Severity": number,
            "SignalIndicators": [
                {
                    "Key": "string",
                    "Title": "string",
                    "Type": "string",
                    "Values": [ "string" ]
                }
            ],
            "Title": "string",
```

```
                    "Type": "string",
                    "UpdatedAt": number
                }
            ],
            "Uid": "string"
        }
    },
    "FindingProviderFields": {
        "Confidence": number,
        "Criticality": number,
        "RelatedFindings": [
            {
                "Id": "string",
                "ProductArn": "string"
            }
        ],
        "Severity": {
            "Label": "string",
            "Original": "string"
        },
        "Types": [ "string" ]
    },
    "FirstObservedAt": "string",
    "GeneratorDetails": {
        "Description": "string",
        "Labels": [ "string" ],
        "Name": "string"
    },
    "GeneratorId": "string",
    "Id": "string",
    "LastObservedAt": "string",
    "Malware": [
        {
            "Name": "string",
            "Path": "string",
            "State": "string",
            "Type": "string"
        }
    ],
    "Network": {
        "DestinationDomain": "string",
        "DestinationIpV4": "string",
        "DestinationIpV6": "string",
        "DestinationPort": number,
```

```
            "Direction": "string",
            "OpenPortRange": {
               "Begin": number,
               "End": number
            },
            "Protocol": "string",
            "SourceDomain": "string",
            "SourceIpV4": "string",
            "SourceIpV6": "string",
            "SourceMac": "string",
            "SourcePort": number
         },
         "NetworkPath": [
            {
               "ComponentId": "string",
               "ComponentType": "string",
               "Egress": {
                  "Destination": {
                     "Address": [ "string" ],
                     "PortRanges": [
                        {
                           "Begin": number,
                           "End": number
                        }
                     ]
                  },
                  "Protocol": "string",
                  "Source": {
                     "Address": [ "string" ],
                     "PortRanges": [
                        {
                           "Begin": number,
                           "End": number
                        }
                     ]
                  }
               },
               "Ingress": {
                  "Destination": {
                     "Address": [ "string" ],
                     "PortRanges": [
                        {
                           "Begin": number,
                           "End": number
```

```
                    }
                ]
            },
            "Protocol": "string",
            "Source": {
                "Address": [ "string" ],
                "PortRanges": [
                    {
                        "Begin": number,
                        "End": number
                    }
                ]
            }
        }
    }
],
"Note": {
    "Text": "string",
    "UpdatedAt": "string",
    "UpdatedBy": "string"
},
"PatchSummary": {
    "FailedCount": number,
    "Id": "string",
    "InstalledCount": number,
    "InstalledOtherCount": number,
    "InstalledPendingReboot": number,
    "InstalledRejectedCount": number,
    "MissingCount": number,
    "Operation": "string",
    "OperationEndTime": "string",
    "OperationStartTime": "string",
    "RebootOption": "string"
},
"Process": {
    "LaunchedAt": "string",
    "Name": "string",
    "ParentPid": number,
    "Path": "string",
    "Pid": number,
    "TerminatedAt": "string"
},
"ProcessedAt": "string",
"ProductArn": "string",
```

```
        "ProductFields": {
           "string" : "string"
        },
        "ProductName": "string",
        "RecordState": "string",
        "Region": "string",
        "RelatedFindings": [
           {
              "Id": "string",
              "ProductArn": "string"
           }
        ],
        "Remediation": {
           "Recommendation": {
              "Text": "string",
              "Url": "string"
           }
        },
        "Resources": [
           {
              "ApplicationArn": "string",
              "ApplicationName": "string",
              "DataClassification": {
                 "DetailedResultsLocation": "string",
                 "Result": {
                    "AdditionalOccurrences": boolean,
                    "CustomDataIdentifiers": {
                       "Detections": [
                          {
                             "Arn": "string",
                             "Count": number,
                             "Name": "string",
                             "Occurrences": {
                                "Cells": [
                                   {
                                      "CellReference": "string",
                                      "Column": number,
                                      "ColumnName": "string",
                                      "Row": number
                                   }
                                ],
                                "LineRanges": [
                                   {
                                      "End": number,
```

```
                                "Start": number,
                                "StartColumn": number
                            }
                        ],
                        "OffsetRanges": [
                            {
                                "End": number,
                                "Start": number,
                                "StartColumn": number
                            }
                        ],
                        "Pages": [
                            {
                                "LineRange": {
                                    "End": number,
                                    "Start": number,
                                    "StartColumn": number
                                },
                                "OffsetRange": {
                                    "End": number,
                                    "Start": number,
                                    "StartColumn": number
                                },
                                "PageNumber": number
                            }
                        ],
                        "Records": [
                            {
                                "JsonPath": "string",
                                "RecordIndex": number
                            }
                        ]
                    }
                }
            ],
            "TotalCount": number
        },
        "MimeType": "string",
        "SensitiveData": [
            {
                "Category": "string",
                "Detections": [
                    {
                        "Count": number,
```

```
                "Occurrences": {
                   "Cells": [
                      {
                         "CellReference": "string",
                         "Column": number,
                         "ColumnName": "string",
                         "Row": number
                      }
                   ],
                   "LineRanges": [
                      {
                         "End": number,
                         "Start": number,
                         "StartColumn": number
                      }
                   ],
                   "OffsetRanges": [
                      {
                         "End": number,
                         "Start": number,
                         "StartColumn": number
                      }
                   ],
                   "Pages": [
                      {
                         "LineRange": {
                            "End": number,
                            "Start": number,
                            "StartColumn": number
                         },
                         "OffsetRange": {
                            "End": number,
                            "Start": number,
                            "StartColumn": number
                         },
                         "PageNumber": number
                      }
                   ],
                   "Records": [
                      {
                         "JsonPath": "string",
                         "RecordIndex": number
                      }
                   ]
```

```
                                },
                                "Type": "string"
                            }
                        ],
                        "TotalCount": number
                    }
                ],
                "SizeClassified": number,
                "Status": {
                    "Code": "string",
                    "Reason": "string"
                }
            }
        },
        "Details": {
            "AwsAmazonMqBroker": {
                "AuthenticationStrategy": "string",
                "AutoMinorVersionUpgrade": boolean,
                "BrokerArn": "string",
                "BrokerId": "string",
                "BrokerName": "string",
                "DeploymentMode": "string",
                "EncryptionOptions": {
                    "KmsKeyId": "string",
                    "UseAwsOwnedKey": boolean
                },
                "EngineType": "string",
                "EngineVersion": "string",
                "HostInstanceType": "string",
                "LdapServerMetadata": {
                    "Hosts": [ "string" ],
                    "RoleBase": "string",
                    "RoleName": "string",
                    "RoleSearchMatching": "string",
                    "RoleSearchSubtree": boolean,
                    "ServiceAccountUsername": "string",
                    "UserBase": "string",
                    "UserRoleName": "string",
                    "UserSearchMatching": "string",
                    "UserSearchSubtree": boolean
                },
                "Logs": {
                    "Audit": boolean,
                    "AuditLogGroup": "string",
```

```
                "General": boolean,
                "GeneralLogGroup": "string",
                "Pending": {
                   "Audit": boolean,
                   "General": boolean
                }
             },
             "MaintenanceWindowStartTime": {
                "DayOfWeek": "string",
                "TimeOfDay": "string",
                "TimeZone": "string"
             },
             "PubliclyAccessible": boolean,
             "SecurityGroups": [ "string" ],
             "StorageType": "string",
             "SubnetIds": [ "string" ],
             "Users": [
                {
                   "PendingChange": "string",
                   "Username": "string"
                }
             ]
          },
          "AwsApiGatewayRestApi": {
             "ApiKeySource": "string",
             "BinaryMediaTypes": [ "string" ],
             "CreatedDate": "string",
             "Description": "string",
             "EndpointConfiguration": {
                "Types": [ "string" ]
             },
             "Id": "string",
             "MinimumCompressionSize": number,
             "Name": "string",
             "Version": "string"
          },
          "AwsApiGatewayStage": {
             "AccessLogSettings": {
                "DestinationArn": "string",
                "Format": "string"
             },
             "CacheClusterEnabled": boolean,
             "CacheClusterSize": "string",
             "CacheClusterStatus": "string",
```

```
                "CanarySettings": {
                   "DeploymentId": "string",
                   "PercentTraffic": number,
                   "StageVariableOverrides": {
                      "string" : "string"
                   },
                   "UseStageCache": boolean
                },
                "ClientCertificateId": "string",
                "CreatedDate": "string",
                "DeploymentId": "string",
                "Description": "string",
                "DocumentationVersion": "string",
                "LastUpdatedDate": "string",
                "MethodSettings": [
                   {
                      "CacheDataEncrypted": boolean,
                      "CacheTtlInSeconds": number,
                      "CachingEnabled": boolean,
                      "DataTraceEnabled": boolean,
                      "HttpMethod": "string",
                      "LoggingLevel": "string",
                      "MetricsEnabled": boolean,
                      "RequireAuthorizationForCacheControl": boolean,
                      "ResourcePath": "string",
                      "ThrottlingBurstLimit": number,
                      "ThrottlingRateLimit": number,
                      "UnauthorizedCacheControlHeaderStrategy": "string"
                   }
                ],
                "StageName": "string",
                "TracingEnabled": boolean,
                "Variables": {
                   "string" : "string"
                },
                "WebAclArn": "string"
             },
             "AwsApiGatewayV2Api": {
                "ApiEndpoint": "string",
                "ApiId": "string",
                "ApiKeySelectionExpression": "string",
                "CorsConfiguration": {
                   "AllowCredentials": boolean,
                   "AllowHeaders": [ "string" ],
```

```
                "AllowMethods": [ "string" ],
                "AllowOrigins": [ "string" ],
                "ExposeHeaders": [ "string" ],
                "MaxAge": number
            },
            "CreatedDate": "string",
            "Description": "string",
            "Name": "string",
            "ProtocolType": "string",
            "RouteSelectionExpression": "string",
            "Version": "string"
        },
        "AwsApiGatewayV2Stage": {
            "AccessLogSettings": {
                "DestinationArn": "string",
                "Format": "string"
            },
            "ApiGatewayManaged": boolean,
            "AutoDeploy": boolean,
            "ClientCertificateId": "string",
            "CreatedDate": "string",
            "DefaultRouteSettings": {
                "DataTraceEnabled": boolean,
                "DetailedMetricsEnabled": boolean,
                "LoggingLevel": "string",
                "ThrottlingBurstLimit": number,
                "ThrottlingRateLimit": number
            },
            "DeploymentId": "string",
            "Description": "string",
            "LastDeploymentStatusMessage": "string",
            "LastUpdatedDate": "string",
            "RouteSettings": {
                "DataTraceEnabled": boolean,
                "DetailedMetricsEnabled": boolean,
                "LoggingLevel": "string",
                "ThrottlingBurstLimit": number,
                "ThrottlingRateLimit": number
            },
            "StageName": "string",
            "StageVariables": {
                "string" : "string"
            }
        },
```

```
                "AwsAppSyncGraphQlApi": {
                   "AdditionalAuthenticationProviders": [
                      {
                         "AuthenticationType": "string",
                         "LambdaAuthorizerConfig": {
                            "AuthorizerResultTtlInSeconds": number,
                            "AuthorizerUri": "string",
                            "IdentityValidationExpression": "string"
                         },
                         "OpenIdConnectConfig": {
                            "AuthTtL": number,
                            "ClientId": "string",
                            "IatTtL": number,
                            "Issuer": "string"
                         },
                         "UserPoolConfig": {
                            "AppIdClientRegex": "string",
                            "AwsRegion": "string",
                            "DefaultAction": "string",
                            "UserPoolId": "string"
                         }
                      }
                   ],
                   "ApiId": "string",
                   "Arn": "string",
                   "AuthenticationType": "string",
                   "Id": "string",
                   "LambdaAuthorizerConfig": {
                      "AuthorizerResultTtlInSeconds": number,
                      "AuthorizerUri": "string",
                      "IdentityValidationExpression": "string"
                   },
                   "LogConfig": {
                      "CloudWatchLogsRoleArn": "string",
                      "ExcludeVerboseContent": boolean,
                      "FieldLogLevel": "string"
                   },
                   "Name": "string",
                   "OpenIdConnectConfig": {
                      "AuthTtL": number,
                      "ClientId": "string",
                      "IatTtL": number,
                      "Issuer": "string"
                   },
```

```
                "UserPoolConfig": {
                   "AppIdClientRegex": "string",
                   "AwsRegion": "string",
                   "DefaultAction": "string",
                   "UserPoolId": "string"
                },
                "WafWebAclArn": "string",
                "XrayEnabled": boolean
             },
             "AwsAthenaWorkGroup": {
                "Configuration": {
                   "ResultConfiguration": {
                      "EncryptionConfiguration": {
                         "EncryptionOption": "string",
                         "KmsKey": "string"
                      }
                   }
                },
                "Description": "string",
                "Name": "string",
                "State": "string"
             },
             "AwsAutoScalingAutoScalingGroup": {
                "AvailabilityZones": [
                   {
                      "Value": "string"
                   }
                ],
                "CapacityRebalance": boolean,
                "CreatedTime": "string",
                "HealthCheckGracePeriod": number,
                "HealthCheckType": "string",
                "LaunchConfigurationName": "string",
                "LaunchTemplate": {
                   "LaunchTemplateId": "string",
                   "LaunchTemplateName": "string",
                   "Version": "string"
                },
                "LoadBalancerNames": [ "string" ],
                "MixedInstancesPolicy": {
                   "InstancesDistribution": {
                      "OnDemandAllocationStrategy": "string",
                      "OnDemandBaseCapacity": number,
                      "OnDemandPercentageAboveBaseCapacity": number,
```

```
                "SpotAllocationStrategy": "string",
                "SpotInstancePools": number,
                "SpotMaxPrice": "string"
            },
            "LaunchTemplate": {
                "LaunchTemplateSpecification": {
                    "LaunchTemplateId": "string",
                    "LaunchTemplateName": "string",
                    "Version": "string"
                },
                "Overrides": [
                    {
                        "InstanceType": "string",
                        "WeightedCapacity": "string"
                    }
                ]
            }
        }
    },
    "AwsAutoScalingLaunchConfiguration": {
        "AssociatePublicIpAddress": boolean,
        "BlockDeviceMappings": [
            {
                "DeviceName": "string",
                "Ebs": {
                    "DeleteOnTermination": boolean,
                    "Encrypted": boolean,
                    "Iops": number,
                    "SnapshotId": "string",
                    "VolumeSize": number,
                    "VolumeType": "string"
                },
                "NoDevice": boolean,
                "VirtualName": "string"
            }
        ],
        "ClassicLinkVpcId": "string",
        "ClassicLinkVpcSecurityGroups": [ "string" ],
        "CreatedTime": "string",
        "EbsOptimized": boolean,
        "IamInstanceProfile": "string",
        "ImageId": "string",
        "InstanceMonitoring": {
            "Enabled": boolean
```

```
                    },
                    "InstanceType": "string",
                    "KernelId": "string",
                    "KeyName": "string",
                    "LaunchConfigurationName": "string",
                    "MetadataOptions": {
                       "HttpEndpoint": "string",
                       "HttpPutResponseHopLimit": number,
                       "HttpTokens": "string"
                    },
                    "PlacementTenancy": "string",
                    "RamdiskId": "string",
                    "SecurityGroups": [ "string" ],
                    "SpotPrice": "string",
                    "UserData": "string"
                 },
                 "AwsBackupBackupPlan": {
                    "BackupPlan": {
                       "AdvancedBackupSettings": [
                          {
                             "BackupOptions": {
                                "string" : "string"
                             },
                             "ResourceType": "string"
                          }
                       ],
                       "BackupPlanName": "string",
                       "BackupPlanRule": [
                          {
                             "CompletionWindowMinutes": number,
                             "CopyActions": [
                                {
                                   "DestinationBackupVaultArn": "string",
                                   "Lifecycle": {
                                      "DeleteAfterDays": number,
                                      "MoveToColdStorageAfterDays": number
                                   }
                                }
                             ],
                             "EnableContinuousBackup": boolean,
                             "Lifecycle": {
                                "DeleteAfterDays": number,
                                "MoveToColdStorageAfterDays": number
                             },
```

```
                    "RuleId": "string",
                    "RuleName": "string",
                    "ScheduleExpression": "string",
                    "StartWindowMinutes": number,
                    "TargetBackupVault": "string"
                }
            ]
        },
        "BackupPlanArn": "string",
        "BackupPlanId": "string",
        "VersionId": "string"
    },
    "AwsBackupBackupVault": {
        "AccessPolicy": "string",
        "BackupVaultArn": "string",
        "BackupVaultName": "string",
        "EncryptionKeyArn": "string",
        "Notifications": {
            "BackupVaultEvents": [ "string" ],
            "SnsTopicArn": "string"
        }
    },
    "AwsBackupRecoveryPoint": {
        "BackupSizeInBytes": number,
        "BackupVaultArn": "string",
        "BackupVaultName": "string",
        "CalculatedLifecycle": {
            "DeleteAt": "string",
            "MoveToColdStorageAt": "string"
        },
        "CompletionDate": "string",
        "CreatedBy": {
            "BackupPlanArn": "string",
            "BackupPlanId": "string",
            "BackupPlanVersion": "string",
            "BackupRuleId": "string"
        },
        "CreationDate": "string",
        "EncryptionKeyArn": "string",
        "IamRoleArn": "string",
        "IsEncrypted": boolean,
        "LastRestoreTime": "string",
        "Lifecycle": {
            "DeleteAfterDays": number,
```

```
                "MoveToColdStorageAfterDays": number
            },
            "RecoveryPointArn": "string",
            "ResourceArn": "string",
            "ResourceType": "string",
            "SourceBackupVaultArn": "string",
            "Status": "string",
            "StatusMessage": "string",
            "StorageClass": "string"
        },
        "AwsCertificateManagerCertificate": {
            "CertificateAuthorityArn": "string",
            "CreatedAt": "string",
            "DomainName": "string",
            "DomainValidationOptions": [
                {
                    "DomainName": "string",
                    "ResourceRecord": {
                        "Name": "string",
                        "Type": "string",
                        "Value": "string"
                    },
                    "ValidationDomain": "string",
                    "ValidationEmails": [ "string" ],
                    "ValidationMethod": "string",
                    "ValidationStatus": "string"
                }
            ],
            "ExtendedKeyUsages": [
                {
                    "Name": "string",
                    "OId": "string"
                }
            ],
            "FailureReason": "string",
            "ImportedAt": "string",
            "InUseBy": [ "string" ],
            "IssuedAt": "string",
            "Issuer": "string",
            "KeyAlgorithm": "string",
            "KeyUsages": [
                {
                    "Name": "string"
                }
```

```
                ],
                "NotAfter": "string",
                "NotBefore": "string",
                "Options": {
                   "CertificateTransparencyLoggingPreference": "string"
                },
                "RenewalEligibility": "string",
                "RenewalSummary": {
                   "DomainValidationOptions": [
                      {
                         "DomainName": "string",
                         "ResourceRecord": {
                            "Name": "string",
                            "Type": "string",
                            "Value": "string"
                         },
                         "ValidationDomain": "string",
                         "ValidationEmails": [ "string" ],
                         "ValidationMethod": "string",
                         "ValidationStatus": "string"
                      }
                   ],
                   "RenewalStatus": "string",
                   "RenewalStatusReason": "string",
                   "UpdatedAt": "string"
                },
                "Serial": "string",
                "SignatureAlgorithm": "string",
                "Status": "string",
                "Subject": "string",
                "SubjectAlternativeNames": [ "string" ],
                "Type": "string"
             },
             "AwsCloudFormationStack": {
                "Capabilities": [ "string" ],
                "CreationTime": "string",
                "Description": "string",
                "DisableRollback": boolean,
                "DriftInformation": {
                   "StackDriftStatus": "string"
                },
                "EnableTerminationProtection": boolean,
                "LastUpdatedTime": "string",
                "NotificationArns": [ "string" ],
```

```
                "Outputs": [
                   {
                      "Description": "string",
                      "OutputKey": "string",
                      "OutputValue": "string"
                   }
                ],
                "RoleArn": "string",
                "StackId": "string",
                "StackName": "string",
                "StackStatus": "string",
                "StackStatusReason": "string",
                "TimeoutInMinutes": number
             },
             "AwsCloudFrontDistribution": {
                "CacheBehaviors": {
                   "Items": [
                      {
                         "ViewerProtocolPolicy": "string"
                      }
                   ]
                },
                "DefaultCacheBehavior": {
                   "ViewerProtocolPolicy": "string"
                },
                "DefaultRootObject": "string",
                "DomainName": "string",
                "ETag": "string",
                "LastModifiedTime": "string",
                "Logging": {
                   "Bucket": "string",
                   "Enabled": boolean,
                   "IncludeCookies": boolean,
                   "Prefix": "string"
                },
                "OriginGroups": {
                   "Items": [
                      {
                         "FailoverCriteria": {
                            "StatusCodes": {
                               "Items": [ number ],
                               "Quantity": number
                            }
                         }
```

```
                    }
                ]
            },
            "Origins": {
                "Items": [
                    {
                        "CustomOriginConfig": {
                            "HttpPort": number,
                            "HttpsPort": number,
                            "OriginKeepaliveTimeout": number,
                            "OriginProtocolPolicy": "string",
                            "OriginReadTimeout": number,
                            "OriginSslProtocols": {
                                "Items": [ "string" ],
                                "Quantity": number
                            }
                        },
                        "DomainName": "string",
                        "Id": "string",
                        "OriginPath": "string",
                        "S3OriginConfig": {
                            "OriginAccessIdentity": "string"
                        }
                    }
                ]
            },
            "Status": "string",
            "ViewerCertificate": {
                "AcmCertificateArn": "string",
                "Certificate": "string",
                "CertificateSource": "string",
                "CloudFrontDefaultCertificate": boolean,
                "IamCertificateId": "string",
                "MinimumProtocolVersion": "string",
                "SslSupportMethod": "string"
            },
            "WebAclId": "string"
        },
        "AwsCloudTrailTrail": {
            "CloudWatchLogsLogGroupArn": "string",
            "CloudWatchLogsRoleArn": "string",
            "HasCustomEventSelectors": boolean,
            "HomeRegion": "string",
            "IncludeGlobalServiceEvents": boolean,
```

```
                "IsMultiRegionTrail": boolean,
                "IsOrganizationTrail": boolean,
                "KmsKeyId": "string",
                "LogFileValidationEnabled": boolean,
                "Name": "string",
                "S3BucketName": "string",
                "S3KeyPrefix": "string",
                "SnsTopicArn": "string",
                "SnsTopicName": "string",
                "TrailArn": "string"
            },
            "AwsCloudWatchAlarm": {
                "ActionsEnabled": boolean,
                "AlarmActions": [ "string" ],
                "AlarmArn": "string",
                "AlarmConfigurationUpdatedTimestamp": "string",
                "AlarmDescription": "string",
                "AlarmName": "string",
                "ComparisonOperator": "string",
                "DatapointsToAlarm": number,
                "Dimensions": [
                    {
                        "Name": "string",
                        "Value": "string"
                    }
                ],
                "EvaluateLowSampleCountPercentile": "string",
                "EvaluationPeriods": number,
                "ExtendedStatistic": "string",
                "InsufficientDataActions": [ "string" ],
                "MetricName": "string",
                "Namespace": "string",
                "OkActions": [ "string" ],
                "Period": number,
                "Statistic": "string",
                "Threshold": number,
                "ThresholdMetricId": "string",
                "TreatMissingData": "string",
                "Unit": "string"
            },
            "AwsCodeBuildProject": {
                "Artifacts": [
                    {
                        "ArtifactIdentifier": "string",
```

```
                "EncryptionDisabled": boolean,
                "Location": "string",
                "Name": "string",
                "NamespaceType": "string",
                "OverrideArtifactName": boolean,
                "Packaging": "string",
                "Path": "string",
                "Type": "string"
            }
        ],
        "EncryptionKey": "string",
        "Environment": {
            "Certificate": "string",
            "EnvironmentVariables": [
                {
                    "Name": "string",
                    "Type": "string",
                    "Value": "string"
                }
            ],
            "ImagePullCredentialsType": "string",
            "PrivilegedMode": boolean,
            "RegistryCredential": {
                "Credential": "string",
                "CredentialProvider": "string"
            },
            "Type": "string"
        },
        "LogsConfig": {
            "CloudWatchLogs": {
                "GroupName": "string",
                "Status": "string",
                "StreamName": "string"
            },
            "S3Logs": {
                "EncryptionDisabled": boolean,
                "Location": "string",
                "Status": "string"
            }
        },
        "Name": "string",
        "SecondaryArtifacts": [
            {
                "ArtifactIdentifier": "string",
```

```
                "EncryptionDisabled": boolean,
                "Location": "string",
                "Name": "string",
                "NamespaceType": "string",
                "OverrideArtifactName": boolean,
                "Packaging": "string",
                "Path": "string",
                "Type": "string"
            }
        ],
        "ServiceRole": "string",
        "Source": {
            "GitCloneDepth": number,
            "InsecureSsl": boolean,
            "Location": "string",
            "Type": "string"
        },
        "VpcConfig": {
            "SecurityGroupIds": [ "string" ],
            "Subnets": [ "string" ],
            "VpcId": "string"
        }
    },
    "AwsDmsEndpoint": {
        "CertificateArn": "string",
        "DatabaseName": "string",
        "EndpointArn": "string",
        "EndpointIdentifier": "string",
        "EndpointType": "string",
        "EngineName": "string",
        "ExternalId": "string",
        "ExtraConnectionAttributes": "string",
        "KmsKeyId": "string",
        "Port": number,
        "ServerName": "string",
        "SslMode": "string",
        "Username": "string"
    },
    "AwsDmsReplicationInstance": {
        "AllocatedStorage": number,
        "AutoMinorVersionUpgrade": boolean,
        "AvailabilityZone": "string",
        "EngineVersion": "string",
        "KmsKeyId": "string",
```

```
                "MultiAZ": boolean,
                "PreferredMaintenanceWindow": "string",
                "PubliclyAccessible": boolean,
                "ReplicationInstanceClass": "string",
                "ReplicationInstanceIdentifier": "string",
                "ReplicationSubnetGroup": {
                   "ReplicationSubnetGroupIdentifier": "string"
                },
                "VpcSecurityGroups": [
                   {
                      "VpcSecurityGroupId": "string"
                   }
                ]
             },
             "AwsDmsReplicationTask": {
                "CdcStartPosition": "string",
                "CdcStartTime": "string",
                "CdcStopPosition": "string",
                "Id": "string",
                "MigrationType": "string",
                "ReplicationInstanceArn": "string",
                "ReplicationTaskIdentifier": "string",
                "ReplicationTaskSettings": "string",
                "ResourceIdentifier": "string",
                "SourceEndpointArn": "string",
                "TableMappings": "string",
                "TargetEndpointArn": "string",
                "TaskData": "string"
             },
             "AwsDynamoDbTable": {
                "AttributeDefinitions": [
                   {
                      "AttributeName": "string",
                      "AttributeType": "string"
                   }
                ],
                "BillingModeSummary": {
                   "BillingMode": "string",
                   "LastUpdateToPayPerRequestDateTime": "string"
                },
                "CreationDateTime": "string",
                "DeletionProtectionEnabled": boolean,
                "GlobalSecondaryIndexes": [
                   {
```

```
                "Backfilling": boolean,
                "IndexArn": "string",
                "IndexName": "string",
                "IndexSizeBytes": number,
                "IndexStatus": "string",
                "ItemCount": number,
                "KeySchema": [
                   {
                      "AttributeName": "string",
                      "KeyType": "string"
                   }
                ],
                "Projection": {
                   "NonKeyAttributes": [ "string" ],
                   "ProjectionType": "string"
                },
                "ProvisionedThroughput": {
                   "LastDecreaseDateTime": "string",
                   "LastIncreaseDateTime": "string",
                   "NumberOfDecreasesToday": number,
                   "ReadCapacityUnits": number,
                   "WriteCapacityUnits": number
                }
             }
          ],
          "GlobalTableVersion": "string",
          "ItemCount": number,
          "KeySchema": [
             {
                "AttributeName": "string",
                "KeyType": "string"
             }
          ],
          "LatestStreamArn": "string",
          "LatestStreamLabel": "string",
          "LocalSecondaryIndexes": [
             {
                "IndexArn": "string",
                "IndexName": "string",
                "KeySchema": [
                   {
                      "AttributeName": "string",
                      "KeyType": "string"
                   }
```

```
                ],
                "Projection": {
                   "NonKeyAttributes": [ "string" ],
                   "ProjectionType": "string"
                }
             }
          ],
          "ProvisionedThroughput": {
             "LastDecreaseDateTime": "string",
             "LastIncreaseDateTime": "string",
             "NumberOfDecreasesToday": number,
             "ReadCapacityUnits": number,
             "WriteCapacityUnits": number
          },
          "Replicas": [
             {
                "GlobalSecondaryIndexes": [
                   {
                      "IndexName": "string",
                      "ProvisionedThroughputOverride": {
                         "ReadCapacityUnits": number
                      }
                   }
                ],
                "KmsMasterKeyId": "string",
                "ProvisionedThroughputOverride": {
                   "ReadCapacityUnits": number
                },
                "RegionName": "string",
                "ReplicaStatus": "string",
                "ReplicaStatusDescription": "string"
             }
          ],
          "RestoreSummary": {
             "RestoreDateTime": "string",
             "RestoreInProgress": boolean,
             "SourceBackupArn": "string",
             "SourceTableArn": "string"
          },
          "SseDescription": {
             "InaccessibleEncryptionDateTime": "string",
             "KmsMasterKeyArn": "string",
             "SseType": "string",
             "Status": "string"
```

```
                    },
                    "StreamSpecification": {
                        "StreamEnabled": boolean,
                        "StreamViewType": "string"
                    },
                    "TableId": "string",
                    "TableName": "string",
                    "TableSizeBytes": number,
                    "TableStatus": "string"
                },
                "AwsEc2ClientVpnEndpoint": {
                    "AuthenticationOptions": [
                        {
                            "ActiveDirectory": {
                                "DirectoryId": "string"
                            },
                            "FederatedAuthentication": {
                                "SamlProviderArn": "string",
                                "SelfServiceSamlProviderArn": "string"
                            },
                            "MutualAuthentication": {
                                "ClientRootCertificateChain": "string"
                            },
                            "Type": "string"
                        }
                    ],
                    "ClientCidrBlock": "string",
                    "ClientConnectOptions": {
                        "Enabled": boolean,
                        "LambdaFunctionArn": "string",
                        "Status": {
                            "Code": "string",
                            "Message": "string"
                        }
                    },
                    "ClientLoginBannerOptions": {
                        "BannerText": "string",
                        "Enabled": boolean
                    },
                    "ClientVpnEndpointId": "string",
                    "ConnectionLogOptions": {
                        "CloudwatchLogGroup": "string",
                        "CloudwatchLogStream": "string",
                        "Enabled": boolean
```

```
                    },
                    "Description": "string",
                    "DnsServer": [ "string" ],
                    "SecurityGroupIdSet": [ "string" ],
                    "SelfServicePortalUrl": "string",
                    "ServerCertificateArn": "string",
                    "SessionTimeoutHours": number,
                    "SplitTunnel": boolean,
                    "TransportProtocol": "string",
                    "VpcId": "string",
                    "VpnPort": number
                },
                "AwsEc2Eip": {
                    "AllocationId": "string",
                    "AssociationId": "string",
                    "Domain": "string",
                    "InstanceId": "string",
                    "NetworkBorderGroup": "string",
                    "NetworkInterfaceId": "string",
                    "NetworkInterfaceOwnerId": "string",
                    "PrivateIpAddress": "string",
                    "PublicIp": "string",
                    "PublicIpv4Pool": "string"
                },
                "AwsEc2Instance": {
                    "IamInstanceProfileArn": "string",
                    "ImageId": "string",
                    "IpV4Addresses": [ "string" ],
                    "IpV6Addresses": [ "string" ],
                    "KeyName": "string",
                    "LaunchedAt": "string",
                    "MetadataOptions": {
                        "HttpEndpoint": "string",
                        "HttpProtocolIpv6": "string",
                        "HttpPutResponseHopLimit": number,
                        "HttpTokens": "string",
                        "InstanceMetadataTags": "string"
                    },
                    "Monitoring": {
                        "State": "string"
                    },
                    "NetworkInterfaces": [
                        {
                            "NetworkInterfaceId": "string"
```

```
                    }
                ],
                "SubnetId": "string",
                "Type": "string",
                "VirtualizationType": "string",
                "VpcId": "string"
            },
            "AwsEc2LaunchTemplate": {
                "DefaultVersionNumber": number,
                "Id": "string",
                "LatestVersionNumber": number,
                "LaunchTemplateData": {
                    "BlockDeviceMappingSet": [
                        {
                            "DeviceName": "string",
                            "Ebs": {
                                "DeleteOnTermination": boolean,
                                "Encrypted": boolean,
                                "Iops": number,
                                "KmsKeyId": "string",
                                "SnapshotId": "string",
                                "Throughput": number,
                                "VolumeSize": number,
                                "VolumeType": "string"
                            },
                            "NoDevice": "string",
                            "VirtualName": "string"
                        }
                    ],
                    "CapacityReservationSpecification": {
                        "CapacityReservationPreference": "string",
                        "CapacityReservationTarget": {
                            "CapacityReservationId": "string",
                            "CapacityReservationResourceGroupArn": "string"
                        }
                    },
                    "CpuOptions": {
                        "CoreCount": number,
                        "ThreadsPerCore": number
                    },
                    "CreditSpecification": {
                        "CpuCredits": "string"
                    },
                    "DisableApiStop": boolean,
```

```
                "DisableApiTermination": boolean,
                "EbsOptimized": boolean,
                "ElasticGpuSpecificationSet": [
                   {
                      "Type": "string"
                   }
                ],
                "ElasticInferenceAcceleratorSet": [
                   {
                      "Count": number,
                      "Type": "string"
                   }
                ],
                "EnclaveOptions": {
                   "Enabled": boolean
                },
                "HibernationOptions": {
                   "Configured": boolean
                },
                "IamInstanceProfile": {
                   "Arn": "string",
                   "Name": "string"
                },
                "ImageId": "string",
                "InstanceInitiatedShutdownBehavior": "string",
                "InstanceMarketOptions": {
                   "MarketType": "string",
                   "SpotOptions": {
                      "BlockDurationMinutes": number,
                      "InstanceInterruptionBehavior": "string",
                      "MaxPrice": "string",
                      "SpotInstanceType": "string",
                      "ValidUntil": "string"
                   }
                },
                "InstanceRequirements": {
                   "AcceleratorCount": {
                      "Max": number,
                      "Min": number
                   },
                   "AcceleratorManufacturers": [ "string" ],
                   "AcceleratorNames": [ "string" ],
                   "AcceleratorTotalMemoryMiB": {
                      "Max": number,
```

```
                    "Min": number
                },
                "AcceleratorTypes": [ "string" ],
                "BareMetal": "string",
                "BaselineEbsBandwidthMbps": {
                    "Max": number,
                    "Min": number
                },
                "BurstablePerformance": "string",
                "CpuManufacturers": [ "string" ],
                "ExcludedInstanceTypes": [ "string" ],
                "InstanceGenerations": [ "string" ],
                "LocalStorage": "string",
                "LocalStorageTypes": [ "string" ],
                "MemoryGiBPerVCpu": {
                    "Max": number,
                    "Min": number
                },
                "MemoryMiB": {
                    "Max": number,
                    "Min": number
                },
                "NetworkInterfaceCount": {
                    "Max": number,
                    "Min": number
                },
                "OnDemandMaxPricePercentageOverLowestPrice": number,
                "RequireHibernateSupport": boolean,
                "SpotMaxPricePercentageOverLowestPrice": number,
                "TotalLocalStorageGB": {
                    "Max": number,
                    "Min": number
                },
                "VCpuCount": {
                    "Max": number,
                    "Min": number
                }
            },
            "InstanceType": "string",
            "KernelId": "string",
            "KeyName": "string",
            "LicenseSet": [
                {
                    "LicenseConfigurationArn": "string"
```

```
                    }
                ],
                "MaintenanceOptions": {
                    "AutoRecovery": "string"
                },
                "MetadataOptions": {
                    "HttpEndpoint": "string",
                    "HttpProtocolIpv6": "string",
                    "HttpPutResponseHopLimit": number,
                    "HttpTokens": "string",
                    "InstanceMetadataTags": "string"
                },
                "Monitoring": {
                    "Enabled": boolean
                },
                "NetworkInterfaceSet": [
                    {
                        "AssociateCarrierIpAddress": boolean,
                        "AssociatePublicIpAddress": boolean,
                        "DeleteOnTermination": boolean,
                        "Description": "string",
                        "DeviceIndex": number,
                        "Groups": [ "string" ],
                        "InterfaceType": "string",
                        "Ipv4PrefixCount": number,
                        "Ipv4Prefixes": [
                            {
                                "Ipv4Prefix": "string"
                            }
                        ],
                        "Ipv6AddressCount": number,
                        "Ipv6Addresses": [
                            {
                                "Ipv6Address": "string"
                            }
                        ],
                        "Ipv6PrefixCount": number,
                        "Ipv6Prefixes": [
                            {
                                "Ipv6Prefix": "string"
                            }
                        ],
                        "NetworkCardIndex": number,
                        "NetworkInterfaceId": "string",
```

```
                    "PrivateIpAddress": "string",
                    "PrivateIpAddresses": [
                       {
                          "Primary": boolean,
                          "PrivateIpAddress": "string"
                       }
                    ],
                    "SecondaryPrivateIpAddressCount": number,
                    "SubnetId": "string"
                 }
              ],
              "Placement": {
                 "Affinity": "string",
                 "AvailabilityZone": "string",
                 "GroupName": "string",
                 "HostId": "string",
                 "HostResourceGroupArn": "string",
                 "PartitionNumber": number,
                 "SpreadDomain": "string",
                 "Tenancy": "string"
              },
              "PrivateDnsNameOptions": {
                 "EnableResourceNameDnsAAAARecord": boolean,
                 "EnableResourceNameDnsARecord": boolean,
                 "HostnameType": "string"
              },
              "RamDiskId": "string",
              "SecurityGroupIdSet": [ "string" ],
              "SecurityGroupSet": [ "string" ],
              "UserData": "string"
           },
           "LaunchTemplateName": "string"
        },
        "AwsEc2NetworkAcl": {
           "Associations": [
              {
                 "NetworkAclAssociationId": "string",
                 "NetworkAclId": "string",
                 "SubnetId": "string"
              }
           ],
           "Entries": [
              {
                 "CidrBlock": "string",
```

```
                    "Egress": boolean,
                    "IcmpTypeCode": {
                       "Code": number,
                       "Type": number
                    },
                    "Ipv6CidrBlock": "string",
                    "PortRange": {
                       "From": number,
                       "To": number
                    },
                    "Protocol": "string",
                    "RuleAction": "string",
                    "RuleNumber": number
                 }
              ],
              "IsDefault": boolean,
              "NetworkAclId": "string",
              "OwnerId": "string",
              "VpcId": "string"
           },
           "AwsEc2NetworkInterface": {
              "Attachment": {
                 "AttachmentId": "string",
                 "AttachTime": "string",
                 "DeleteOnTermination": boolean,
                 "DeviceIndex": number,
                 "InstanceId": "string",
                 "InstanceOwnerId": "string",
                 "Status": "string"
              },
              "IpV6Addresses": [
                 {
                    "IpV6Address": "string"
                 }
              ],
              "NetworkInterfaceId": "string",
              "PrivateIpAddresses": [
                 {
                    "PrivateDnsName": "string",
                    "PrivateIpAddress": "string"
                 }
              ],
              "PublicDnsName": "string",
              "PublicIp": "string",
```

```
                "SecurityGroups": [
                    {
                        "GroupId": "string",
                        "GroupName": "string"
                    }
                ],
                "SourceDestCheck": boolean
            },
            "AwsEc2RouteTable": {
                "AssociationSet": [
                    {
                        "AssociationState": {
                            "State": "string",
                            "StatusMessage": "string"
                        },
                        "GatewayId": "string",
                        "Main": boolean,
                        "RouteTableAssociationId": "string",
                        "RouteTableId": "string",
                        "SubnetId": "string"
                    }
                ],
                "OwnerId": "string",
                "PropagatingVgwSet": [
                    {
                        "GatewayId": "string"
                    }
                ],
                "RouteSet": [
                    {
                        "CarrierGatewayId": "string",
                        "CoreNetworkArn": "string",
                        "DestinationCidrBlock": "string",
                        "DestinationIpv6CidrBlock": "string",
                        "DestinationPrefixListId": "string",
                        "EgressOnlyInternetGatewayId": "string",
                        "GatewayId": "string",
                        "InstanceId": "string",
                        "InstanceOwnerId": "string",
                        "LocalGatewayId": "string",
                        "NatGatewayId": "string",
                        "NetworkInterfaceId": "string",
                        "Origin": "string",
                        "State": "string",
```

```
                    "TransitGatewayId": "string",
                    "VpcPeeringConnectionId": "string"
                }
            ],
            "RouteTableId": "string",
            "VpcId": "string"
        },
        "AwsEc2SecurityGroup": {
            "GroupId": "string",
            "GroupName": "string",
            "IpPermissions": [
                {
                    "FromPort": number,
                    "IpProtocol": "string",
                    "IpRanges": [
                        {
                            "CidrIp": "string"
                        }
                    ],
                    "Ipv6Ranges": [
                        {
                            "CidrIpv6": "string"
                        }
                    ],
                    "PrefixListIds": [
                        {
                            "PrefixListId": "string"
                        }
                    ],
                    "ToPort": number,
                    "UserIdGroupPairs": [
                        {
                            "GroupId": "string",
                            "GroupName": "string",
                            "PeeringStatus": "string",
                            "UserId": "string",
                            "VpcId": "string",
                            "VpcPeeringConnectionId": "string"
                        }
                    ]
                }
            ],
            "IpPermissionsEgress": [
                {
```

```
                    "FromPort": number,
                    "IpProtocol": "string",
                    "IpRanges": [
                       {
                          "CidrIp": "string"
                       }
                    ],
                    "Ipv6Ranges": [
                       {
                          "CidrIpv6": "string"
                       }
                    ],
                    "PrefixListIds": [
                       {
                          "PrefixListId": "string"
                       }
                    ],
                    "ToPort": number,
                    "UserIdGroupPairs": [
                       {
                          "GroupId": "string",
                          "GroupName": "string",
                          "PeeringStatus": "string",
                          "UserId": "string",
                          "VpcId": "string",
                          "VpcPeeringConnectionId": "string"
                       }
                    ]
                 }
              ],
              "OwnerId": "string",
              "VpcId": "string"
           },
           "AwsEc2Subnet": {
              "AssignIpv6AddressOnCreation": boolean,
              "AvailabilityZone": "string",
              "AvailabilityZoneId": "string",
              "AvailableIpAddressCount": number,
              "CidrBlock": "string",
              "DefaultForAz": boolean,
              "Ipv6CidrBlockAssociationSet": [
                 {
                    "AssociationId": "string",
                    "CidrBlockState": "string",
```

```
                "Ipv6CidrBlock": "string"
            }
        ],
        "MapPublicIpOnLaunch": boolean,
        "OwnerId": "string",
        "State": "string",
        "SubnetArn": "string",
        "SubnetId": "string",
        "VpcId": "string"
    },
    "AwsEc2TransitGateway": {
        "AmazonSideAsn": number,
        "AssociationDefaultRouteTableId": "string",
        "AutoAcceptSharedAttachments": "string",
        "DefaultRouteTableAssociation": "string",
        "DefaultRouteTablePropagation": "string",
        "Description": "string",
        "DnsSupport": "string",
        "Id": "string",
        "MulticastSupport": "string",
        "PropagationDefaultRouteTableId": "string",
        "TransitGatewayCidrBlocks": [ "string" ],
        "VpnEcmpSupport": "string"
    },
    "AwsEc2Volume": {
        "Attachments": [
            {
                "AttachTime": "string",
                "DeleteOnTermination": boolean,
                "InstanceId": "string",
                "Status": "string"
            }
        ],
        "CreateTime": "string",
        "DeviceName": "string",
        "Encrypted": boolean,
        "KmsKeyId": "string",
        "Size": number,
        "SnapshotId": "string",
        "Status": "string",
        "VolumeId": "string",
        "VolumeScanStatus": "string",
        "VolumeType": "string"
    },
```

```
                "AwsEc2Vpc": {
                   "CidrBlockAssociationSet": [
                      {
                         "AssociationId": "string",
                         "CidrBlock": "string",
                         "CidrBlockState": "string"
                      }
                   ],
                   "DhcpOptionsId": "string",
                   "Ipv6CidrBlockAssociationSet": [
                      {
                         "AssociationId": "string",
                         "CidrBlockState": "string",
                         "Ipv6CidrBlock": "string"
                      }
                   ],
                   "State": "string"
                },
                "AwsEc2VpcEndpointService": {
                   "AcceptanceRequired": boolean,
                   "AvailabilityZones": [ "string" ],
                   "BaseEndpointDnsNames": [ "string" ],
                   "GatewayLoadBalancerArns": [ "string" ],
                   "ManagesVpcEndpoints": boolean,
                   "NetworkLoadBalancerArns": [ "string" ],
                   "PrivateDnsName": "string",
                   "ServiceId": "string",
                   "ServiceName": "string",
                   "ServiceState": "string",
                   "ServiceType": [
                      {
                         "ServiceType": "string"
                      }
                   ]
                },
                "AwsEc2VpcPeeringConnection": {
                   "AccepterVpcInfo": {
                      "CidrBlock": "string",
                      "CidrBlockSet": [
                         {
                            "CidrBlock": "string"
                         }
                      ],
                      "Ipv6CidrBlockSet": [
```

```
                    {
                        "Ipv6CidrBlock": "string"
                    }
                ],
                "OwnerId": "string",
                "PeeringOptions": {
                    "AllowDnsResolutionFromRemoteVpc": boolean,
                    "AllowEgressFromLocalClassicLinkToRemoteVpc": boolean,
                    "AllowEgressFromLocalVpcToRemoteClassicLink": boolean
                },
                "Region": "string",
                "VpcId": "string"
            },
            "ExpirationTime": "string",
            "RequesterVpcInfo": {
                "CidrBlock": "string",
                "CidrBlockSet": [
                    {
                        "CidrBlock": "string"
                    }
                ],
                "Ipv6CidrBlockSet": [
                    {
                        "Ipv6CidrBlock": "string"
                    }
                ],
                "OwnerId": "string",
                "PeeringOptions": {
                    "AllowDnsResolutionFromRemoteVpc": boolean,
                    "AllowEgressFromLocalClassicLinkToRemoteVpc": boolean,
                    "AllowEgressFromLocalVpcToRemoteClassicLink": boolean
                },
                "Region": "string",
                "VpcId": "string"
            },
            "Status": {
                "Code": "string",
                "Message": "string"
            },
            "VpcPeeringConnectionId": "string"
        },
        "AwsEc2VpnConnection": {
            "Category": "string",
            "CustomerGatewayConfiguration": "string",
```

```
                "CustomerGatewayId": "string",
                "Options": {
                   "StaticRoutesOnly": boolean,
                   "TunnelOptions": [
                      {
                         "DpdTimeoutSeconds": number,
                         "IkeVersions": [ "string" ],
                         "OutsideIpAddress": "string",
                         "Phase1DhGroupNumbers": [ number ],
                         "Phase1EncryptionAlgorithms": [ "string" ],
                         "Phase1IntegrityAlgorithms": [ "string" ],
                         "Phase1LifetimeSeconds": number,
                         "Phase2DhGroupNumbers": [ number ],
                         "Phase2EncryptionAlgorithms": [ "string" ],
                         "Phase2IntegrityAlgorithms": [ "string" ],
                         "Phase2LifetimeSeconds": number,
                         "PreSharedKey": "string",
                         "RekeyFuzzPercentage": number,
                         "RekeyMarginTimeSeconds": number,
                         "ReplayWindowSize": number,
                         "TunnelInsideCidr": "string"
                      }
                   ]
                },
                "Routes": [
                   {
                      "DestinationCidrBlock": "string",
                      "State": "string"
                   }
                ],
                "State": "string",
                "TransitGatewayId": "string",
                "Type": "string",
                "VgwTelemetry": [
                   {
                      "AcceptedRouteCount": number,
                      "CertificateArn": "string",
                      "LastStatusChange": "string",
                      "OutsideIpAddress": "string",
                      "Status": "string",
                      "StatusMessage": "string"
                   }
                ],
                "VpnConnectionId": "string",
```

```
                "VpnGatewayId": "string"
            },
            "AwsEcrContainerImage": {
                "Architecture": "string",
                "ImageDigest": "string",
                "ImagePublishedAt": "string",
                "ImageTags": [ "string" ],
                "RegistryId": "string",
                "RepositoryName": "string"
            },
            "AwsEcrRepository": {
                "Arn": "string",
                "ImageScanningConfiguration": {
                    "ScanOnPush": boolean
                },
                "ImageTagMutability": "string",
                "LifecyclePolicy": {
                    "LifecyclePolicyText": "string",
                    "RegistryId": "string"
                },
                "RepositoryName": "string",
                "RepositoryPolicyText": "string"
            },
            "AwsEcsCluster": {
                "ActiveServicesCount": number,
                "CapacityProviders": [ "string" ],
                "ClusterArn": "string",
                "ClusterName": "string",
                "ClusterSettings": [
                    {
                        "Name": "string",
                        "Value": "string"
                    }
                ],
                "Configuration": {
                    "ExecuteCommandConfiguration": {
                        "KmsKeyId": "string",
                        "LogConfiguration": {
                            "CloudWatchEncryptionEnabled": boolean,
                            "CloudWatchLogGroupName": "string",
                            "S3BucketName": "string",
                            "S3EncryptionEnabled": boolean,
                            "S3KeyPrefix": "string"
                        },
```

```
                "Logging": "string"
            }
        },
        "DefaultCapacityProviderStrategy": [
            {
                "Base": number,
                "CapacityProvider": "string",
                "Weight": number
            }
        ],
        "RegisteredContainerInstancesCount": number,
        "RunningTasksCount": number,
        "Status": "string"
    },
    "AwsEcsContainer": {
        "Image": "string",
        "MountPoints": [
            {
                "ContainerPath": "string",
                "SourceVolume": "string"
            }
        ],
        "Name": "string",
        "Privileged": boolean
    },
    "AwsEcsService": {
        "CapacityProviderStrategy": [
            {
                "Base": number,
                "CapacityProvider": "string",
                "Weight": number
            }
        ],
        "Cluster": "string",
        "DeploymentConfiguration": {
            "DeploymentCircuitBreaker": {
                "Enable": boolean,
                "Rollback": boolean
            },
            "MaximumPercent": number,
            "MinimumHealthyPercent": number
        },
        "DeploymentController": {
            "Type": "string"
```

```
                    },
                    "DesiredCount": number,
                    "EnableEcsManagedTags": boolean,
                    "EnableExecuteCommand": boolean,
                    "HealthCheckGracePeriodSeconds": number,
                    "LaunchType": "string",
                    "LoadBalancers": [
                       {
                          "ContainerName": "string",
                          "ContainerPort": number,
                          "LoadBalancerName": "string",
                          "TargetGroupArn": "string"
                       }
                    ],
                    "Name": "string",
                    "NetworkConfiguration": {
                       "AwsVpcConfiguration": {
                          "AssignPublicIp": "string",
                          "SecurityGroups": [ "string" ],
                          "Subnets": [ "string" ]
                       }
                    },
                    "PlacementConstraints": [
                       {
                          "Expression": "string",
                          "Type": "string"
                       }
                    ],
                    "PlacementStrategies": [
                       {
                          "Field": "string",
                          "Type": "string"
                       }
                    ],
                    "PlatformVersion": "string",
                    "PropagateTags": "string",
                    "Role": "string",
                    "SchedulingStrategy": "string",
                    "ServiceArn": "string",
                    "ServiceName": "string",
                    "ServiceRegistries": [
                       {
                          "ContainerName": "string",
                          "ContainerPort": number,
```

```
                    "Port": number,
                    "RegistryArn": "string"
                }
            ],
            "TaskDefinition": "string"
        },
        "AwsEcsTask": {
            "ClusterArn": "string",
            "Containers": [
                {
                    "Image": "string",
                    "MountPoints": [
                        {
                            "ContainerPath": "string",
                            "SourceVolume": "string"
                        }
                    ],
                    "Name": "string",
                    "Privileged": boolean
                }
            ],
            "CreatedAt": "string",
            "Group": "string",
            "StartedAt": "string",
            "StartedBy": "string",
            "TaskDefinitionArn": "string",
            "Version": "string",
            "Volumes": [
                {
                    "Host": {
                        "SourcePath": "string"
                    },
                    "Name": "string"
                }
            ]
        },
        "AwsEcsTaskDefinition": {
            "ContainerDefinitions": [
                {
                    "Command": [ "string" ],
                    "Cpu": number,
                    "DependsOn": [
                        {
                            "Condition": "string",
```

```
                "ContainerName": "string"
            }
        ],
        "DisableNetworking": boolean,
        "DnsSearchDomains": [ "string" ],
        "DnsServers": [ "string" ],
        "DockerLabels": {
            "string" : "string"
        },
        "DockerSecurityOptions": [ "string" ],
        "EntryPoint": [ "string" ],
        "Environment": [
            {
                "Name": "string",
                "Value": "string"
            }
        ],
        "EnvironmentFiles": [
            {
                "Type": "string",
                "Value": "string"
            }
        ],
        "Essential": boolean,
        "ExtraHosts": [
            {
                "Hostname": "string",
                "IpAddress": "string"
            }
        ],
        "FirelensConfiguration": {
            "Options": {
                "string" : "string"
            },
            "Type": "string"
        },
        "HealthCheck": {
            "Command": [ "string" ],
            "Interval": number,
            "Retries": number,
            "StartPeriod": number,
            "Timeout": number
        },
        "Hostname": "string",
```

```
                    "Image": "string",
                    "Interactive": boolean,
                    "Links": [ "string" ],
                    "LinuxParameters": {
                       "Capabilities": {
                          "Add": [ "string" ],
                          "Drop": [ "string" ]
                       },
                       "Devices": [
                          {
                             "ContainerPath": "string",
                             "HostPath": "string",
                             "Permissions": [ "string" ]
                          }
                       ],
                       "InitProcessEnabled": boolean,
                       "MaxSwap": number,
                       "SharedMemorySize": number,
                       "Swappiness": number,
                       "Tmpfs": [
                          {
                             "ContainerPath": "string",
                             "MountOptions": [ "string" ],
                             "Size": number
                          }
                       ]
                    },
                    "LogConfiguration": {
                       "LogDriver": "string",
                       "Options": {
                          "string" : "string"
                       },
                       "SecretOptions": [
                          {
                             "Name": "string",
                             "ValueFrom": "string"
                          }
                       ]
                    },
                    "Memory": number,
                    "MemoryReservation": number,
                    "MountPoints": [
                       {
                          "ContainerPath": "string",
```

```
                "ReadOnly": boolean,
                "SourceVolume": "string"
            }
        ],
        "Name": "string",
        "PortMappings": [
            {
                "ContainerPort": number,
                "HostPort": number,
                "Protocol": "string"
            }
        ],
        "Privileged": boolean,
        "PseudoTerminal": boolean,
        "ReadonlyRootFilesystem": boolean,
        "RepositoryCredentials": {
            "CredentialsParameter": "string"
        },
        "ResourceRequirements": [
            {
                "Type": "string",
                "Value": "string"
            }
        ],
        "Secrets": [
            {
                "Name": "string",
                "ValueFrom": "string"
            }
        ],
        "StartTimeout": number,
        "StopTimeout": number,
        "SystemControls": [
            {
                "Namespace": "string",
                "Value": "string"
            }
        ],
        "Ulimits": [
            {
                "HardLimit": number,
                "Name": "string",
                "SoftLimit": number
            }
```

```
                ],
                "User": "string",
                "VolumesFrom": [
                    {
                        "ReadOnly": boolean,
                        "SourceContainer": "string"
                    }
                ],
                "WorkingDirectory": "string"
            }
        ],
        "Cpu": "string",
        "ExecutionRoleArn": "string",
        "Family": "string",
        "InferenceAccelerators": [
            {
                "DeviceName": "string",
                "DeviceType": "string"
            }
        ],
        "IpcMode": "string",
        "Memory": "string",
        "NetworkMode": "string",
        "PidMode": "string",
        "PlacementConstraints": [
            {
                "Expression": "string",
                "Type": "string"
            }
        ],
        "ProxyConfiguration": {
            "ContainerName": "string",
            "ProxyConfigurationProperties": [
                {
                    "Name": "string",
                    "Value": "string"
                }
            ],
            "Type": "string"
        },
        "RequiresCompatibilities": [ "string" ],
        "Status": "string",
        "TaskRoleArn": "string",
        "Volumes": [
```

```
                    {
                        "DockerVolumeConfiguration": {
                            "Autoprovision": boolean,
                            "Driver": "string",
                            "DriverOpts": {
                                "string" : "string"
                            },
                            "Labels": {
                                "string" : "string"
                            },
                            "Scope": "string"
                        },
                        "EfsVolumeConfiguration": {
                            "AuthorizationConfig": {
                                "AccessPointId": "string",
                                "Iam": "string"
                            },
                            "FilesystemId": "string",
                            "RootDirectory": "string",
                            "TransitEncryption": "string",
                            "TransitEncryptionPort": number
                        },
                        "Host": {
                            "SourcePath": "string"
                        },
                        "Name": "string"
                    }
                ]
            },
            "AwsEfsAccessPoint": {
                "AccessPointId": "string",
                "Arn": "string",
                "ClientToken": "string",
                "FileSystemId": "string",
                "PosixUser": {
                    "Gid": "string",
                    "SecondaryGids": [ "string" ],
                    "Uid": "string"
                },
                "RootDirectory": {
                    "CreationInfo": {
                        "OwnerGid": "string",
                        "OwnerUid": "string",
                        "Permissions": "string"
```

```
                    },
                    "Path": "string"
                }
            },
            "AwsEksCluster": {
                "Arn": "string",
                "CertificateAuthorityData": "string",
                "ClusterStatus": "string",
                "Endpoint": "string",
                "Logging": {
                    "ClusterLogging": [
                        {
                            "Enabled": boolean,
                            "Types": [ "string" ]
                        }
                    ]
                },
                "Name": "string",
                "ResourcesVpcConfig": {
                    "EndpointPublicAccess": boolean,
                    "SecurityGroupIds": [ "string" ],
                    "SubnetIds": [ "string" ]
                },
                "RoleArn": "string",
                "Version": "string"
            },
            "AwsElasticBeanstalkEnvironment": {
                "ApplicationName": "string",
                "Cname": "string",
                "DateCreated": "string",
                "DateUpdated": "string",
                "Description": "string",
                "EndpointUrl": "string",
                "EnvironmentArn": "string",
                "EnvironmentId": "string",
                "EnvironmentLinks": [
                    {
                        "EnvironmentName": "string",
                        "LinkName": "string"
                    }
                ],
                "EnvironmentName": "string",
                "OptionSettings": [
                    {
```

```
                "Namespace": "string",
                "OptionName": "string",
                "ResourceName": "string",
                "Value": "string"
            }
        ],
        "PlatformArn": "string",
        "SolutionStackName": "string",
        "Status": "string",
        "Tier": {
            "Name": "string",
            "Type": "string",
            "Version": "string"
        },
        "VersionLabel": "string"
    },
    "AwsElasticsearchDomain": {
        "AccessPolicies": "string",
        "DomainEndpointOptions": {
            "EnforceHTTPS": boolean,
            "TLSSecurityPolicy": "string"
        },
        "DomainId": "string",
        "DomainName": "string",
        "ElasticsearchClusterConfig": {
            "DedicatedMasterCount": number,
            "DedicatedMasterEnabled": boolean,
            "DedicatedMasterType": "string",
            "InstanceCount": number,
            "InstanceType": "string",
            "ZoneAwarenessConfig": {
                "AvailabilityZoneCount": number
            },
            "ZoneAwarenessEnabled": boolean
        },
        "ElasticsearchVersion": "string",
        "EncryptionAtRestOptions": {
            "Enabled": boolean,
            "KmsKeyId": "string"
        },
        "Endpoint": "string",
        "Endpoints": {
            "string" : "string"
        },
```

```
                "LogPublishingOptions": {
                   "AuditLogs": {
                      "CloudWatchLogsLogGroupArn": "string",
                      "Enabled": boolean
                   },
                   "IndexSlowLogs": {
                      "CloudWatchLogsLogGroupArn": "string",
                      "Enabled": boolean
                   },
                   "SearchSlowLogs": {
                      "CloudWatchLogsLogGroupArn": "string",
                      "Enabled": boolean
                   }
                },
                "NodeToNodeEncryptionOptions": {
                   "Enabled": boolean
                },
                "ServiceSoftwareOptions": {
                   "AutomatedUpdateDate": "string",
                   "Cancellable": boolean,
                   "CurrentVersion": "string",
                   "Description": "string",
                   "NewVersion": "string",
                   "UpdateAvailable": boolean,
                   "UpdateStatus": "string"
                },
                "VPCOptions": {
                   "AvailabilityZones": [ "string" ],
                   "SecurityGroupIds": [ "string" ],
                   "SubnetIds": [ "string" ],
                   "VPCId": "string"
                }
             },
             "AwsElbLoadBalancer": {
                "AvailabilityZones": [ "string" ],
                "BackendServerDescriptions": [
                   {
                      "InstancePort": number,
                      "PolicyNames": [ "string" ]
                   }
                ],
                "CanonicalHostedZoneName": "string",
                "CanonicalHostedZoneNameID": "string",
                "CreatedTime": "string",
```

```
                "DnsName": "string",
                "HealthCheck": {
                   "HealthyThreshold": number,
                   "Interval": number,
                   "Target": "string",
                   "Timeout": number,
                   "UnhealthyThreshold": number
                },
                "Instances": [
                   {
                      "InstanceId": "string"
                   }
                ],
                "ListenerDescriptions": [
                   {
                      "Listener": {
                         "InstancePort": number,
                         "InstanceProtocol": "string",
                         "LoadBalancerPort": number,
                         "Protocol": "string",
                         "SslCertificateId": "string"
                      },
                      "PolicyNames": [ "string" ]
                   }
                ],
                "LoadBalancerAttributes": {
                   "AccessLog": {
                      "EmitInterval": number,
                      "Enabled": boolean,
                      "S3BucketName": "string",
                      "S3BucketPrefix": "string"
                   },
                   "AdditionalAttributes": [
                      {
                         "Key": "string",
                         "Value": "string"
                      }
                   ],
                   "ConnectionDraining": {
                      "Enabled": boolean,
                      "Timeout": number
                   },
                   "ConnectionSettings": {
                      "IdleTimeout": number
```

```
                    },
                    "CrossZoneLoadBalancing": {
                        "Enabled": boolean
                    }
                },
                "LoadBalancerName": "string",
                "Policies": {
                    "AppCookieStickinessPolicies": [
                        {
                            "CookieName": "string",
                            "PolicyName": "string"
                        }
                    ],
                    "LbCookieStickinessPolicies": [
                        {
                            "CookieExpirationPeriod": number,
                            "PolicyName": "string"
                        }
                    ],
                    "OtherPolicies": [ "string" ]
                },
                "Scheme": "string",
                "SecurityGroups": [ "string" ],
                "SourceSecurityGroup": {
                    "GroupName": "string",
                    "OwnerAlias": "string"
                },
                "Subnets": [ "string" ],
                "VpcId": "string"
            },
            "AwsElbv2LoadBalancer": {
                "AvailabilityZones": [
                    {
                        "SubnetId": "string",
                        "ZoneName": "string"
                    }
                ],
                "CanonicalHostedZoneId": "string",
                "CreatedTime": "string",
                "DNSName": "string",
                "IpAddressType": "string",
                "LoadBalancerAttributes": [
                    {
                        "Key": "string",
```

```
                "Value": "string"
            }
        ],
        "Scheme": "string",
        "SecurityGroups": [ "string" ],
        "State": {
            "Code": "string",
            "Reason": "string"
        },
        "Type": "string",
        "VpcId": "string"
    },
    "AwsEventSchemasRegistry": {
        "Description": "string",
        "RegistryArn": "string",
        "RegistryName": "string"
    },
    "AwsEventsEndpoint": {
        "Arn": "string",
        "Description": "string",
        "EndpointId": "string",
        "EndpointUrl": "string",
        "EventBuses": [
            {
                "EventBusArn": "string"
            }
        ],
        "Name": "string",
        "ReplicationConfig": {
            "State": "string"
        },
        "RoleArn": "string",
        "RoutingConfig": {
            "FailoverConfig": {
                "Primary": {
                    "HealthCheck": "string"
                },
                "Secondary": {
                    "Route": "string"
                }
            }
        },
        "State": "string",
        "StateReason": "string"
```

```
                    },
                    "AwsEventsEventbus": {
                       "Arn": "string",
                       "Name": "string",
                       "Policy": "string"
                    },
                    "AwsGuardDutyDetector": {
                       "DataSources": {
                          "CloudTrail": {
                             "Status": "string"
                          },
                          "DnsLogs": {
                             "Status": "string"
                          },
                          "FlowLogs": {
                             "Status": "string"
                          },
                          "Kubernetes": {
                             "AuditLogs": {
                                "Status": "string"
                             }
                          },
                          "MalwareProtection": {
                             "ScanEc2InstanceWithFindings": {
                                "EbsVolumes": {
                                   "Reason": "string",
                                   "Status": "string"
                                }
                             },
                             "ServiceRole": "string"
                          },
                          "S3Logs": {
                             "Status": "string"
                          }
                       },
                       "Features": [
                          {
                             "Name": "string",
                             "Status": "string"
                          }
                       ],
                       "FindingPublishingFrequency": "string",
                       "ServiceRole": "string",
                       "Status": "string"
```

```
                    },
                    "AwsIamAccessKey": {
                       "AccessKeyId": "string",
                       "AccountId": "string",
                       "CreatedAt": "string",
                       "PrincipalId": "string",
                       "PrincipalName": "string",
                       "PrincipalType": "string",
                       "SessionContext": {
                          "Attributes": {
                             "CreationDate": "string",
                             "MfaAuthenticated": boolean
                          },
                          "SessionIssuer": {
                             "AccountId": "string",
                             "Arn": "string",
                             "PrincipalId": "string",
                             "Type": "string",
                             "UserName": "string"
                          }
                       },
                       "Status": "string",
                       "UserName": "string"
                    },
                    "AwsIamGroup": {
                       "AttachedManagedPolicies": [
                          {
                             "PolicyArn": "string",
                             "PolicyName": "string"
                          }
                       ],
                       "CreateDate": "string",
                       "GroupId": "string",
                       "GroupName": "string",
                       "GroupPolicyList": [
                          {
                             "PolicyName": "string"
                          }
                       ],
                       "Path": "string"
                    },
                    "AwsIamPolicy": {
                       "AttachmentCount": number,
                       "CreateDate": "string",
```

```
                "DefaultVersionId": "string",
                "Description": "string",
                "IsAttachable": boolean,
                "Path": "string",
                "PermissionsBoundaryUsageCount": number,
                "PolicyId": "string",
                "PolicyName": "string",
                "PolicyVersionList": [
                   {
                      "CreateDate": "string",
                      "IsDefaultVersion": boolean,
                      "VersionId": "string"
                   }
                ],
                "UpdateDate": "string"
             },
             "AwsIamRole": {
                "AssumeRolePolicyDocument": "string",
                "AttachedManagedPolicies": [
                   {
                      "PolicyArn": "string",
                      "PolicyName": "string"
                   }
                ],
                "CreateDate": "string",
                "InstanceProfileList": [
                   {
                      "Arn": "string",
                      "CreateDate": "string",
                      "InstanceProfileId": "string",
                      "InstanceProfileName": "string",
                      "Path": "string",
                      "Roles": [
                         {
                            "Arn": "string",
                            "AssumeRolePolicyDocument": "string",
                            "CreateDate": "string",
                            "Path": "string",
                            "RoleId": "string",
                            "RoleName": "string"
                         }
                      ]
                   }
                ],
```

```
                "MaxSessionDuration": number,
                "Path": "string",
                "PermissionsBoundary": {
                   "PermissionsBoundaryArn": "string",
                   "PermissionsBoundaryType": "string"
                },
                "RoleId": "string",
                "RoleName": "string",
                "RolePolicyList": [
                   {
                      "PolicyName": "string"
                   }
                ]
             },
             "AwsIamUser": {
                "AttachedManagedPolicies": [
                   {
                      "PolicyArn": "string",
                      "PolicyName": "string"
                   }
                ],
                "CreateDate": "string",
                "GroupList": [ "string" ],
                "Path": "string",
                "PermissionsBoundary": {
                   "PermissionsBoundaryArn": "string",
                   "PermissionsBoundaryType": "string"
                },
                "UserId": "string",
                "UserName": "string",
                "UserPolicyList": [
                   {
                      "PolicyName": "string"
                   }
                ]
             },
             "AwsKinesisStream": {
                "Arn": "string",
                "Name": "string",
                "RetentionPeriodHours": number,
                "ShardCount": number,
                "StreamEncryption": {
                   "EncryptionType": "string",
                   "KeyId": "string"
```

```
                    }
                },
                "AwsKmsKey": {
                    "AWSAccountId": "string",
                    "CreationDate": number,
                    "Description": "string",
                    "KeyId": "string",
                    "KeyManager": "string",
                    "KeyRotationStatus": boolean,
                    "KeyState": "string",
                    "Origin": "string"
                },
                "AwsLambdaFunction": {
                    "Architectures": [ "string" ],
                    "Code": {
                        "S3Bucket": "string",
                        "S3Key": "string",
                        "S3ObjectVersion": "string",
                        "ZipFile": "string"
                    },
                    "CodeSha256": "string",
                    "DeadLetterConfig": {
                        "TargetArn": "string"
                    },
                    "Environment": {
                        "Error": {
                            "ErrorCode": "string",
                            "Message": "string"
                        },
                        "Variables": {
                            "string" : "string"
                        }
                    },
                    "FunctionName": "string",
                    "Handler": "string",
                    "KmsKeyArn": "string",
                    "LastModified": "string",
                    "Layers": [
                        {
                            "Arn": "string",
                            "CodeSize": number
                        }
                    ],
                    "MasterArn": "string",
```

```
                "MemorySize": number,
                "PackageType": "string",
                "RevisionId": "string",
                "Role": "string",
                "Runtime": "string",
                "Timeout": number,
                "TracingConfig": {
                   "Mode": "string"
                },
                "Version": "string",
                "VpcConfig": {
                   "SecurityGroupIds": [ "string" ],
                   "SubnetIds": [ "string" ],
                   "VpcId": "string"
                }
             },
             "AwsLambdaLayerVersion": {
                "CompatibleRuntimes": [ "string" ],
                "CreatedDate": "string",
                "Version": number
             },
             "AwsMskCluster": {
                "ClusterInfo": {
                   "ClientAuthentication": {
                      "Sasl": {
                         "Iam": {
                            "Enabled": boolean
                         },
                         "Scram": {
                            "Enabled": boolean
                         }
                      },
                      "Tls": {
                         "CertificateAuthorityArnList": [ "string" ],
                         "Enabled": boolean
                      },
                      "Unauthenticated": {
                         "Enabled": boolean
                      }
                   },
                   "ClusterName": "string",
                   "CurrentVersion": "string",
                   "EncryptionInfo": {
                      "EncryptionAtRest": {
```

```
                        "DataVolumeKMSKeyId": "string"
                    },
                    "EncryptionInTransit": {
                        "ClientBroker": "string",
                        "InCluster": boolean
                    }
                },
                "EnhancedMonitoring": "string",
                "NumberOfBrokerNodes": number
            }
        },
        "AwsNetworkFirewallFirewall": {
            "DeleteProtection": boolean,
            "Description": "string",
            "FirewallArn": "string",
            "FirewallId": "string",
            "FirewallName": "string",
            "FirewallPolicyArn": "string",
            "FirewallPolicyChangeProtection": boolean,
            "SubnetChangeProtection": boolean,
            "SubnetMappings": [
                {
                    "SubnetId": "string"
                }
            ],
            "VpcId": "string"
        },
        "AwsNetworkFirewallFirewallPolicy": {
            "Description": "string",
            "FirewallPolicy": {
                "StatefulRuleGroupReferences": [
                    {
                        "ResourceArn": "string"
                    }
                ],
                "StatelessCustomActions": [
                    {
                        "ActionDefinition": {
                            "PublishMetricAction": {
                                "Dimensions": [
                                    {
                                        "Value": "string"
                                    }
                                ]
```

```
                        }
                    },
                    "ActionName": "string"
                }
            ],
            "StatelessDefaultActions": [ "string" ],
            "StatelessFragmentDefaultActions": [ "string" ],
            "StatelessRuleGroupReferences": [
                {
                    "Priority": number,
                    "ResourceArn": "string"
                }
            ]
        },
        "FirewallPolicyArn": "string",
        "FirewallPolicyId": "string",
        "FirewallPolicyName": "string"
    },
    "AwsNetworkFirewallRuleGroup": {
        "Capacity": number,
        "Description": "string",
        "RuleGroup": {
            "RulesSource": {
                "RulesSourceList": {
                    "GeneratedRulesType": "string",
                    "Targets": [ "string" ],
                    "TargetTypes": [ "string" ]
                },
                "RulesString": "string",
                "StatefulRules": [
                    {
                        "Action": "string",
                        "Header": {
                            "Destination": "string",
                            "DestinationPort": "string",
                            "Direction": "string",
                            "Protocol": "string",
                            "Source": "string",
                            "SourcePort": "string"
                        },
                        "RuleOptions": [
                            {
                                "Keyword": "string",
                                "Settings": [ "string" ]
```

```
                    }
                ]
            }
        ],
        "StatelessRulesAndCustomActions": {
            "CustomActions": [
                {
                    "ActionDefinition": {
                        "PublishMetricAction": {
                            "Dimensions": [
                                {
                                    "Value": "string"
                                }
                            ]
                        }
                    },
                    "ActionName": "string"
                }
            ],
            "StatelessRules": [
                {
                    "Priority": number,
                    "RuleDefinition": {
                        "Actions": [ "string" ],
                        "MatchAttributes": {
                            "DestinationPorts": [
                                {
                                    "FromPort": number,
                                    "ToPort": number
                                }
                            ],
                            "Destinations": [
                                {
                                    "AddressDefinition": "string"
                                }
                            ],
                            "Protocols": [ number ],
                            "SourcePorts": [
                                {
                                    "FromPort": number,
                                    "ToPort": number
                                }
                            ],
                            "Sources": [
```

```
                                        {
                                           "AddressDefinition": "string"
                                        }
                                     ],
                                     "TcpFlags": [
                                        {
                                           "Flags": [ "string" ],
                                           "Masks": [ "string" ]
                                        }
                                     ]
                                  }
                               }
                            }
                         ]
                      }
                   },
                   "RuleVariables": {
                      "IpSets": {
                         "Definition": [ "string" ]
                      },
                      "PortSets": {
                         "Definition": [ "string" ]
                      }
                   }
                },
                "RuleGroupArn": "string",
                "RuleGroupId": "string",
                "RuleGroupName": "string",
                "Type": "string"
             },
             "AwsOpenSearchServiceDomain": {
                "AccessPolicies": "string",
                "AdvancedSecurityOptions": {
                   "Enabled": boolean,
                   "InternalUserDatabaseEnabled": boolean,
                   "MasterUserOptions": {
                      "MasterUserArn": "string",
                      "MasterUserName": "string",
                      "MasterUserPassword": "string"
                   }
                },
                "Arn": "string",
                "ClusterConfig": {
                   "DedicatedMasterCount": number,
```

```
                "DedicatedMasterEnabled": boolean,
                "DedicatedMasterType": "string",
                "InstanceCount": number,
                "InstanceType": "string",
                "WarmCount": number,
                "WarmEnabled": boolean,
                "WarmType": "string",
                "ZoneAwarenessConfig": {
                   "AvailabilityZoneCount": number
                },
                "ZoneAwarenessEnabled": boolean
             },
             "DomainEndpoint": "string",
             "DomainEndpointOptions": {
                "CustomEndpoint": "string",
                "CustomEndpointCertificateArn": "string",
                "CustomEndpointEnabled": boolean,
                "EnforceHTTPS": boolean,
                "TLSSecurityPolicy": "string"
             },
             "DomainEndpoints": {
                "string" : "string"
             },
             "DomainName": "string",
             "EncryptionAtRestOptions": {
                "Enabled": boolean,
                "KmsKeyId": "string"
             },
             "EngineVersion": "string",
             "Id": "string",
             "LogPublishingOptions": {
                "AuditLogs": {
                   "CloudWatchLogsLogGroupArn": "string",
                   "Enabled": boolean
                },
                "IndexSlowLogs": {
                   "CloudWatchLogsLogGroupArn": "string",
                   "Enabled": boolean
                },
                "SearchSlowLogs": {
                   "CloudWatchLogsLogGroupArn": "string",
                   "Enabled": boolean
                }
             },
```

```
                "NodeToNodeEncryptionOptions": {
                   "Enabled": boolean
                },
                "ServiceSoftwareOptions": {
                   "AutomatedUpdateDate": "string",
                   "Cancellable": boolean,
                   "CurrentVersion": "string",
                   "Description": "string",
                   "NewVersion": "string",
                   "OptionalDeployment": boolean,
                   "UpdateAvailable": boolean,
                   "UpdateStatus": "string"
                },
                "VpcOptions": {
                   "SecurityGroupIds": [ "string" ],
                   "SubnetIds": [ "string" ]
                }
             },
             "AwsRdsDbCluster": {
                "ActivityStreamStatus": "string",
                "AllocatedStorage": number,
                "AssociatedRoles": [
                   {
                      "RoleArn": "string",
                      "Status": "string"
                   }
                ],
                "AutoMinorVersionUpgrade": boolean,
                "AvailabilityZones": [ "string" ],
                "BackupRetentionPeriod": number,
                "ClusterCreateTime": "string",
                "CopyTagsToSnapshot": boolean,
                "CrossAccountClone": boolean,
                "CustomEndpoints": [ "string" ],
                "DatabaseName": "string",
                "DbClusterIdentifier": "string",
                "DbClusterMembers": [
                   {
                      "DbClusterParameterGroupStatus": "string",
                      "DbInstanceIdentifier": "string",
                      "IsClusterWriter": boolean,
                      "PromotionTier": number
                   }
                ],
```

```
                "DbClusterOptionGroupMemberships": [
                   {
                      "DbClusterOptionGroupName": "string",
                      "Status": "string"
                   }
                ],
                "DbClusterParameterGroup": "string",
                "DbClusterResourceId": "string",
                "DbSubnetGroup": "string",
                "DeletionProtection": boolean,
                "DomainMemberships": [
                   {
                      "Domain": "string",
                      "Fqdn": "string",
                      "IamRoleName": "string",
                      "Status": "string"
                   }
                ],
                "EnabledCloudWatchLogsExports": [ "string" ],
                "Endpoint": "string",
                "Engine": "string",
                "EngineMode": "string",
                "EngineVersion": "string",
                "HostedZoneId": "string",
                "HttpEndpointEnabled": boolean,
                "IamDatabaseAuthenticationEnabled": boolean,
                "KmsKeyId": "string",
                "MasterUsername": "string",
                "MultiAz": boolean,
                "Port": number,
                "PreferredBackupWindow": "string",
                "PreferredMaintenanceWindow": "string",
                "ReaderEndpoint": "string",
                "ReadReplicaIdentifiers": [ "string" ],
                "Status": "string",
                "StorageEncrypted": boolean,
                "VpcSecurityGroups": [
                   {
                      "Status": "string",
                      "VpcSecurityGroupId": "string"
                   }
                ]
             },
             "AwsRdsDbClusterSnapshot": {
```

```
                "AllocatedStorage": number,
                "AvailabilityZones": [ "string" ],
                "ClusterCreateTime": "string",
                "DbClusterIdentifier": "string",
                "DbClusterSnapshotAttributes": [
                   {
                      "AttributeName": "string",
                      "AttributeValues": [ "string" ]
                   }
                ],
                "DbClusterSnapshotIdentifier": "string",
                "Engine": "string",
                "EngineVersion": "string",
                "IamDatabaseAuthenticationEnabled": boolean,
                "KmsKeyId": "string",
                "LicenseModel": "string",
                "MasterUsername": "string",
                "PercentProgress": number,
                "Port": number,
                "SnapshotCreateTime": "string",
                "SnapshotType": "string",
                "Status": "string",
                "StorageEncrypted": boolean,
                "VpcId": "string"
             },
             "AwsRdsDbInstance": {
                "AllocatedStorage": number,
                "AssociatedRoles": [
                   {
                      "FeatureName": "string",
                      "RoleArn": "string",
                      "Status": "string"
                   }
                ],
                "AutoMinorVersionUpgrade": boolean,
                "AvailabilityZone": "string",
                "BackupRetentionPeriod": number,
                "CACertificateIdentifier": "string",
                "CharacterSetName": "string",
                "CopyTagsToSnapshot": boolean,
                "DBClusterIdentifier": "string",
                "DBInstanceClass": "string",
                "DBInstanceIdentifier": "string",
                "DbInstancePort": number,
```

```
                "DbInstanceStatus": "string",
                "DbiResourceId": "string",
                "DBName": "string",
                "DbParameterGroups": [
                   {
                      "DbParameterGroupName": "string",
                      "ParameterApplyStatus": "string"
                   }
                ],
                "DbSecurityGroups": [ "string" ],
                "DbSubnetGroup": {
                   "DbSubnetGroupArn": "string",
                   "DbSubnetGroupDescription": "string",
                   "DbSubnetGroupName": "string",
                   "SubnetGroupStatus": "string",
                   "Subnets": [
                      {
                         "SubnetAvailabilityZone": {
                            "Name": "string"
                         },
                         "SubnetIdentifier": "string",
                         "SubnetStatus": "string"
                      }
                   ],
                   "VpcId": "string"
                },
                "DeletionProtection": boolean,
                "DomainMemberships": [
                   {
                      "Domain": "string",
                      "Fqdn": "string",
                      "IamRoleName": "string",
                      "Status": "string"
                   }
                ],
                "EnabledCloudWatchLogsExports": [ "string" ],
                "Endpoint": {
                   "Address": "string",
                   "HostedZoneId": "string",
                   "Port": number
                },
                "Engine": "string",
                "EngineVersion": "string",
                "EnhancedMonitoringResourceArn": "string",
```

```
                "IAMDatabaseAuthenticationEnabled": boolean,
                "InstanceCreateTime": "string",
                "Iops": number,
                "KmsKeyId": "string",
                "LatestRestorableTime": "string",
                "LicenseModel": "string",
                "ListenerEndpoint": {
                   "Address": "string",
                   "HostedZoneId": "string",
                   "Port": number
                },
                "MasterUsername": "string",
                "MaxAllocatedStorage": number,
                "MonitoringInterval": number,
                "MonitoringRoleArn": "string",
                "MultiAz": boolean,
                "OptionGroupMemberships": [
                   {
                      "OptionGroupName": "string",
                      "Status": "string"
                   }
                ],
                "PendingModifiedValues": {
                   "AllocatedStorage": number,
                   "BackupRetentionPeriod": number,
                   "CaCertificateIdentifier": "string",
                   "DbInstanceClass": "string",
                   "DbInstanceIdentifier": "string",
                   "DbSubnetGroupName": "string",
                   "EngineVersion": "string",
                   "Iops": number,
                   "LicenseModel": "string",
                   "MasterUserPassword": "string",
                   "MultiAZ": boolean,
                   "PendingCloudWatchLogsExports": {
                      "LogTypesToDisable": [ "string" ],
                      "LogTypesToEnable": [ "string" ]
                   },
                   "Port": number,
                   "ProcessorFeatures": [
                      {
                         "Name": "string",
                         "Value": "string"
                      }
```

```
                ],
                "StorageType": "string"
            },
            "PerformanceInsightsEnabled": boolean,
            "PerformanceInsightsKmsKeyId": "string",
            "PerformanceInsightsRetentionPeriod": number,
            "PreferredBackupWindow": "string",
            "PreferredMaintenanceWindow": "string",
            "ProcessorFeatures": [
                {
                    "Name": "string",
                    "Value": "string"
                }
            ],
            "PromotionTier": number,
            "PubliclyAccessible": boolean,
            "ReadReplicaDBClusterIdentifiers": [ "string" ],
            "ReadReplicaDBInstanceIdentifiers": [ "string" ],
            "ReadReplicaSourceDBInstanceIdentifier": "string",
            "SecondaryAvailabilityZone": "string",
            "StatusInfos": [
                {
                    "Message": "string",
                    "Normal": boolean,
                    "Status": "string",
                    "StatusType": "string"
                }
            ],
            "StorageEncrypted": boolean,
            "StorageType": "string",
            "TdeCredentialArn": "string",
            "Timezone": "string",
            "VpcSecurityGroups": [
                {
                    "Status": "string",
                    "VpcSecurityGroupId": "string"
                }
            ]
        },
        "AwsRdsDbSecurityGroup": {
            "DbSecurityGroupArn": "string",
            "DbSecurityGroupDescription": "string",
            "DbSecurityGroupName": "string",
            "Ec2SecurityGroups": [
```

```
                    {
                        "Ec2SecurityGroupId": "string",
                        "Ec2SecurityGroupName": "string",
                        "Ec2SecurityGroupOwnerId": "string",
                        "Status": "string"
                    }
                ],
                "IpRanges": [
                    {
                        "CidrIp": "string",
                        "Status": "string"
                    }
                ],
                "OwnerId": "string",
                "VpcId": "string"
            },
            "AwsRdsDbSnapshot": {
                "AllocatedStorage": number,
                "AvailabilityZone": "string",
                "DbInstanceIdentifier": "string",
                "DbiResourceId": "string",
                "DbSnapshotIdentifier": "string",
                "Encrypted": boolean,
                "Engine": "string",
                "EngineVersion": "string",
                "IamDatabaseAuthenticationEnabled": boolean,
                "InstanceCreateTime": "string",
                "Iops": number,
                "KmsKeyId": "string",
                "LicenseModel": "string",
                "MasterUsername": "string",
                "OptionGroupName": "string",
                "PercentProgress": number,
                "Port": number,
                "ProcessorFeatures": [
                    {
                        "Name": "string",
                        "Value": "string"
                    }
                ],
                "SnapshotCreateTime": "string",
                "SnapshotType": "string",
                "SourceDbSnapshotIdentifier": "string",
                "SourceRegion": "string",
```

```
                "Status": "string",
                "StorageType": "string",
                "TdeCredentialArn": "string",
                "Timezone": "string",
                "VpcId": "string"
            },
            "AwsRdsEventSubscription": {
                "CustomerAwsId": "string",
                "CustSubscriptionId": "string",
                "Enabled": boolean,
                "EventCategoriesList": [ "string" ],
                "EventSubscriptionArn": "string",
                "SnsTopicArn": "string",
                "SourceIdsList": [ "string" ],
                "SourceType": "string",
                "Status": "string",
                "SubscriptionCreationTime": "string"
            },
            "AwsRedshiftCluster": {
                "AllowVersionUpgrade": boolean,
                "AutomatedSnapshotRetentionPeriod": number,
                "AvailabilityZone": "string",
                "ClusterAvailabilityStatus": "string",
                "ClusterCreateTime": "string",
                "ClusterIdentifier": "string",
                "ClusterNodes": [
                    {
                        "NodeRole": "string",
                        "PrivateIpAddress": "string",
                        "PublicIpAddress": "string"
                    }
                ],
                "ClusterParameterGroups": [
                    {
                        "ClusterParameterStatusList": [
                            {
                                "ParameterApplyErrorDescription": "string",
                                "ParameterApplyStatus": "string",
                                "ParameterName": "string"
                            }
                        ],
                        "ParameterApplyStatus": "string",
                        "ParameterGroupName": "string"
                    }
```

```
                ],
                "ClusterPublicKey": "string",
                "ClusterRevisionNumber": "string",
                "ClusterSecurityGroups": [
                   {
                      "ClusterSecurityGroupName": "string",
                      "Status": "string"
                   }
                ],
                "ClusterSnapshotCopyStatus": {
                   "DestinationRegion": "string",
                   "ManualSnapshotRetentionPeriod": number,
                   "RetentionPeriod": number,
                   "SnapshotCopyGrantName": "string"
                },
                "ClusterStatus": "string",
                "ClusterSubnetGroupName": "string",
                "ClusterVersion": "string",
                "DBName": "string",
                "DeferredMaintenanceWindows": [
                   {
                      "DeferMaintenanceEndTime": "string",
                      "DeferMaintenanceIdentifier": "string",
                      "DeferMaintenanceStartTime": "string"
                   }
                ],
                "ElasticIpStatus": {
                   "ElasticIp": "string",
                   "Status": "string"
                },
                "ElasticResizeNumberOfNodeOptions": "string",
                "Encrypted": boolean,
                "Endpoint": {
                   "Address": "string",
                   "Port": number
                },
                "EnhancedVpcRouting": boolean,
                "ExpectedNextSnapshotScheduleTime": "string",
                "ExpectedNextSnapshotScheduleTimeStatus": "string",
                "HsmStatus": {
                   "HsmClientCertificateIdentifier": "string",
                   "HsmConfigurationIdentifier": "string",
                   "Status": "string"
                },
```

```
                "IamRoles": [
                   {
                      "ApplyStatus": "string",
                      "IamRoleArn": "string"
                   }
                ],
                "KmsKeyId": "string",
                "LoggingStatus": {
                   "BucketName": "string",
                   "LastFailureMessage": "string",
                   "LastFailureTime": "string",
                   "LastSuccessfulDeliveryTime": "string",
                   "LoggingEnabled": boolean,
                   "S3KeyPrefix": "string"
                },
                "MaintenanceTrackName": "string",
                "ManualSnapshotRetentionPeriod": number,
                "MasterUsername": "string",
                "NextMaintenanceWindowStartTime": "string",
                "NodeType": "string",
                "NumberOfNodes": number,
                "PendingActions": [ "string" ],
                "PendingModifiedValues": {
                   "AutomatedSnapshotRetentionPeriod": number,
                   "ClusterIdentifier": "string",
                   "ClusterType": "string",
                   "ClusterVersion": "string",
                   "EncryptionType": "string",
                   "EnhancedVpcRouting": boolean,
                   "MaintenanceTrackName": "string",
                   "MasterUserPassword": "string",
                   "NodeType": "string",
                   "NumberOfNodes": number,
                   "PubliclyAccessible": boolean
                },
                "PreferredMaintenanceWindow": "string",
                "PubliclyAccessible": boolean,
                "ResizeInfo": {
                   "AllowCancelResize": boolean,
                   "ResizeType": "string"
                },
                "RestoreStatus": {
                   "CurrentRestoreRateInMegaBytesPerSecond": number,
                   "ElapsedTimeInSeconds": number,
```

```
                "EstimatedTimeToCompletionInSeconds": number,
                "ProgressInMegaBytes": number,
                "SnapshotSizeInMegaBytes": number,
                "Status": "string"
            },
            "SnapshotScheduleIdentifier": "string",
            "SnapshotScheduleState": "string",
            "VpcId": "string",
            "VpcSecurityGroups": [
                {
                    "Status": "string",
                    "VpcSecurityGroupId": "string"
                }
            ]
        },
        "AwsRoute53HostedZone": {
            "HostedZone": {
                "Config": {
                    "Comment": "string"
                },
                "Id": "string",
                "Name": "string"
            },
            "NameServers": [ "string" ],
            "QueryLoggingConfig": {
                "CloudWatchLogsLogGroupArn": {
                    "CloudWatchLogsLogGroupArn": "string",
                    "HostedZoneId": "string",
                    "Id": "string"
                }
            },
            "Vpcs": [
                {
                    "Id": "string",
                    "Region": "string"
                }
            ]
        },
        "AwsS3AccessPoint": {
            "AccessPointArn": "string",
            "Alias": "string",
            "Bucket": "string",
            "BucketAccountId": "string",
            "Name": "string",
```

```
                "NetworkOrigin": "string",
                "PublicAccessBlockConfiguration": {
                   "BlockPublicAcls": boolean,
                   "BlockPublicPolicy": boolean,
                   "IgnorePublicAcls": boolean,
                   "RestrictPublicBuckets": boolean
                },
                "VpcConfiguration": {
                   "VpcId": "string"
                }
             },
             "AwsS3AccountPublicAccessBlock": {
                "BlockPublicAcls": boolean,
                "BlockPublicPolicy": boolean,
                "IgnorePublicAcls": boolean,
                "RestrictPublicBuckets": boolean
             },
             "AwsS3Bucket": {
                "AccessControlList": "string",
                "BucketLifecycleConfiguration": {
                   "Rules": [
                      {
                         "AbortIncompleteMultipartUpload": {
                            "DaysAfterInitiation": number
                         },
                         "ExpirationDate": "string",
                         "ExpirationInDays": number,
                         "ExpiredObjectDeleteMarker": boolean,
                         "Filter": {
                            "Predicate": {
                               "Operands": [
                                  {
                                     "Prefix": "string",
                                     "Tag": {
                                        "Key": "string",
                                        "Value": "string"
                                     },
                                     "Type": "string"
                                  }
                               ],
                               "Prefix": "string",
                               "Tag": {
                                  "Key": "string",
                                  "Value": "string"
```

```
                    },
                    "Type": "string"
                }
            },
            "ID": "string",
            "NoncurrentVersionExpirationInDays": number,
            "NoncurrentVersionTransitions": [
                {
                    "Days": number,
                    "StorageClass": "string"
                }
            ],
            "Prefix": "string",
            "Status": "string",
            "Transitions": [
                {
                    "Date": "string",
                    "Days": number,
                    "StorageClass": "string"
                }
            ]
        }
    ]
},
"BucketLoggingConfiguration": {
    "DestinationBucketName": "string",
    "LogFilePrefix": "string"
},
"BucketNotificationConfiguration": {
    "Configurations": [
        {
            "Destination": "string",
            "Events": [ "string" ],
            "Filter": {
                "S3KeyFilter": {
                    "FilterRules": [
                        {
                            "Name": "string",
                            "Value": "string"
                        }
                    ]
                }
            },
            "Type": "string"
```

```
                    }
                ]
            },
            "BucketVersioningConfiguration": {
                "IsMfaDeleteEnabled": boolean,
                "Status": "string"
            },
            "BucketWebsiteConfiguration": {
                "ErrorDocument": "string",
                "IndexDocumentSuffix": "string",
                "RedirectAllRequestsTo": {
                    "Hostname": "string",
                    "Protocol": "string"
                },
                "RoutingRules": [
                    {
                        "Condition": {
                            "HttpErrorCodeReturnedEquals": "string",
                            "KeyPrefixEquals": "string"
                        },
                        "Redirect": {
                            "Hostname": "string",
                            "HttpRedirectCode": "string",
                            "Protocol": "string",
                            "ReplaceKeyPrefixWith": "string",
                            "ReplaceKeyWith": "string"
                        }
                    }
                ]
            },
            "CreatedAt": "string",
            "Name": "string",
            "ObjectLockConfiguration": {
                "ObjectLockEnabled": "string",
                "Rule": {
                    "DefaultRetention": {
                        "Days": number,
                        "Mode": "string",
                        "Years": number
                    }
                }
            },
            "OwnerAccountId": "string",
            "OwnerId": "string",
```

```
                "OwnerName": "string",
                "PublicAccessBlockConfiguration": {
                   "BlockPublicAcls": boolean,
                   "BlockPublicPolicy": boolean,
                   "IgnorePublicAcls": boolean,
                   "RestrictPublicBuckets": boolean
                },
                "ServerSideEncryptionConfiguration": {
                   "Rules": [
                      {
                         "ApplyServerSideEncryptionByDefault": {
                            "KMSMasterKeyID": "string",
                            "SSEAlgorithm": "string"
                         }
                      }
                   ]
                }
             },
             "AwsS3Object": {
                "ContentType": "string",
                "ETag": "string",
                "LastModified": "string",
                "ServerSideEncryption": "string",
                "SSEKMSKeyId": "string",
                "VersionId": "string"
             },
             "AwsSageMakerNotebookInstance": {
                "AcceleratorTypes": [ "string" ],
                "AdditionalCodeRepositories": [ "string" ],
                "DefaultCodeRepository": "string",
                "DirectInternetAccess": "string",
                "FailureReason": "string",
                "InstanceMetadataServiceConfiguration": {
                   "MinimumInstanceMetadataServiceVersion": "string"
                },
                "InstanceType": "string",
                "KmsKeyId": "string",
                "NetworkInterfaceId": "string",
                "NotebookInstanceArn": "string",
                "NotebookInstanceLifecycleConfigName": "string",
                "NotebookInstanceName": "string",
                "NotebookInstanceStatus": "string",
                "PlatformIdentifier": "string",
                "RoleArn": "string",
```

```
                "RootAccess": "string",
                "SecurityGroups": [ "string" ],
                "SubnetId": "string",
                "Url": "string",
                "VolumeSizeInGB": number
            },
            "AwsSecretsManagerSecret": {
                "Deleted": boolean,
                "Description": "string",
                "KmsKeyId": "string",
                "Name": "string",
                "RotationEnabled": boolean,
                "RotationLambdaArn": "string",
                "RotationOccurredWithinFrequency": boolean,
                "RotationRules": {
                    "AutomaticallyAfterDays": number
                }
            },
            "AwsSnsTopic": {
                "ApplicationSuccessFeedbackRoleArn": "string",
                "FirehoseFailureFeedbackRoleArn": "string",
                "FirehoseSuccessFeedbackRoleArn": "string",
                "HttpFailureFeedbackRoleArn": "string",
                "HttpSuccessFeedbackRoleArn": "string",
                "KmsMasterKeyId": "string",
                "Owner": "string",
                "SqsFailureFeedbackRoleArn": "string",
                "SqsSuccessFeedbackRoleArn": "string",
                "Subscription": [
                    {
                        "Endpoint": "string",
                        "Protocol": "string"
                    }
                ],
                "TopicName": "string"
            },
            "AwsSqsQueue": {
                "DeadLetterTargetArn": "string",
                "KmsDataKeyReusePeriodSeconds": number,
                "KmsMasterKeyId": "string",
                "QueueName": "string"
            },
            "AwsSsmPatchCompliance": {
                "Patch": {
```

```
                "ComplianceSummary": {
                   "ComplianceType": "string",
                   "CompliantCriticalCount": number,
                   "CompliantHighCount": number,
                   "CompliantInformationalCount": number,
                   "CompliantLowCount": number,
                   "CompliantMediumCount": number,
                   "CompliantUnspecifiedCount": number,
                   "ExecutionType": "string",
                   "NonCompliantCriticalCount": number,
                   "NonCompliantHighCount": number,
                   "NonCompliantInformationalCount": number,
                   "NonCompliantLowCount": number,
                   "NonCompliantMediumCount": number,
                   "NonCompliantUnspecifiedCount": number,
                   "OverallSeverity": "string",
                   "PatchBaselineId": "string",
                   "PatchGroup": "string",
                   "Status": "string"
                }
             }
          },
          "AwsStepFunctionStateMachine": {
             "Label": "string",
             "LoggingConfiguration": {
                "Destinations": [
                   {
                      "CloudWatchLogsLogGroup": {
                         "LogGroupArn": "string"
                      }
                   }
                ],
                "IncludeExecutionData": boolean,
                "Level": "string"
             },
             "Name": "string",
             "RoleArn": "string",
             "StateMachineArn": "string",
             "Status": "string",
             "TracingConfiguration": {
                "Enabled": boolean
             },
             "Type": "string"
          },
```

```
                "AwsWafRateBasedRule": {
                   "MatchPredicates": [
                      {
                         "DataId": "string",
                         "Negated": boolean,
                         "Type": "string"
                      }
                   ],
                   "MetricName": "string",
                   "Name": "string",
                   "RateKey": "string",
                   "RateLimit": number,
                   "RuleId": "string"
                },
                "AwsWafRegionalRateBasedRule": {
                   "MatchPredicates": [
                      {
                         "DataId": "string",
                         "Negated": boolean,
                         "Type": "string"
                      }
                   ],
                   "MetricName": "string",
                   "Name": "string",
                   "RateKey": "string",
                   "RateLimit": number,
                   "RuleId": "string"
                },
                "AwsWafRegionalRule": {
                   "MetricName": "string",
                   "Name": "string",
                   "PredicateList": [
                      {
                         "DataId": "string",
                         "Negated": boolean,
                         "Type": "string"
                      }
                   ],
                   "RuleId": "string"
                },
                "AwsWafRegionalRuleGroup": {
                   "MetricName": "string",
                   "Name": "string",
                   "RuleGroupId": "string",
```

```
                "Rules": [
                    {
                        "Action": {
                            "Type": "string"
                        },
                        "Priority": number,
                        "RuleId": "string",
                        "Type": "string"
                    }
                ]
            },
            "AwsWafRegionalWebAcl": {
                "DefaultAction": "string",
                "MetricName": "string",
                "Name": "string",
                "RulesList": [
                    {
                        "Action": {
                            "Type": "string"
                        },
                        "OverrideAction": {
                            "Type": "string"
                        },
                        "Priority": number,
                        "RuleId": "string",
                        "Type": "string"
                    }
                ],
                "WebAclId": "string"
            },
            "AwsWafRule": {
                "MetricName": "string",
                "Name": "string",
                "PredicateList": [
                    {
                        "DataId": "string",
                        "Negated": boolean,
                        "Type": "string"
                    }
                ],
                "RuleId": "string"
            },
            "AwsWafRuleGroup": {
                "MetricName": "string",
```

```
                "Name": "string",
                "RuleGroupId": "string",
                "Rules": [
                   {
                      "Action": {
                         "Type": "string"
                      },
                      "Priority": number,
                      "RuleId": "string",
                      "Type": "string"
                   }
                ]
             },
             "AwsWafv2RuleGroup": {
                "Arn": "string",
                "Capacity": number,
                "Description": "string",
                "Id": "string",
                "Name": "string",
                "Rules": [
                   {
                      "Action": {
                         "Allow": {
                            "CustomRequestHandling": {
                               "InsertHeaders": [
                                  {
                                     "Name": "string",
                                     "Value": "string"
                                  }
                               ]
                            }
                         },
                         "Block": {
                            "CustomResponse": {
                               "CustomResponseBodyKey": "string",
                               "ResponseCode": number,
                               "ResponseHeaders": [
                                  {
                                     "Name": "string",
                                     "Value": "string"
                                  }
                               ]
                            }
                         },
```

```
                    "Captcha": {
                       "CustomRequestHandling": {
                          "InsertHeaders": [
                             {
                                "Name": "string",
                                "Value": "string"
                             }
                          ]
                       }
                    },
                    "Count": {
                       "CustomRequestHandling": {
                          "InsertHeaders": [
                             {
                                "Name": "string",
                                "Value": "string"
                             }
                          ]
                       }
                    }
                 },
                 "Name": "string",
                 "OverrideAction": "string",
                 "Priority": number,
                 "VisibilityConfig": {
                    "CloudWatchMetricsEnabled": boolean,
                    "MetricName": "string",
                    "SampledRequestsEnabled": boolean
                 }
              }
           ],
           "Scope": "string",
           "VisibilityConfig": {
              "CloudWatchMetricsEnabled": boolean,
              "MetricName": "string",
              "SampledRequestsEnabled": boolean
           }
        },
        "AwsWafv2WebAcl": {
           "Arn": "string",
           "Capacity": number,
           "CaptchaConfig": {
              "ImmunityTimeProperty": {
                 "ImmunityTime": number
```

```
                    }
                },
                "DefaultAction": {
                    "Allow": {
                        "CustomRequestHandling": {
                            "InsertHeaders": [
                                {
                                    "Name": "string",
                                    "Value": "string"
                                }
                            ]
                        }
                    },
                    "Block": {
                        "CustomResponse": {
                            "CustomResponseBodyKey": "string",
                            "ResponseCode": number,
                            "ResponseHeaders": [
                                {
                                    "Name": "string",
                                    "Value": "string"
                                }
                            ]
                        }
                    }
                },
                "Description": "string",
                "Id": "string",
                "ManagedbyFirewallManager": boolean,
                "Name": "string",
                "Rules": [
                    {
                        "Action": {
                            "Allow": {
                                "CustomRequestHandling": {
                                    "InsertHeaders": [
                                        {
                                            "Name": "string",
                                            "Value": "string"
                                        }
                                    ]
                                }
                            },
                            "Block": {
```

```
                    "CustomResponse": {
                       "CustomResponseBodyKey": "string",
                       "ResponseCode": number,
                       "ResponseHeaders": [
                          {
                             "Name": "string",
                             "Value": "string"
                          }
                       ]
                    }
                 },
                 "Captcha": {
                    "CustomRequestHandling": {
                       "InsertHeaders": [
                          {
                             "Name": "string",
                             "Value": "string"
                          }
                       ]
                    }
                 },
                 "Count": {
                    "CustomRequestHandling": {
                       "InsertHeaders": [
                          {
                             "Name": "string",
                             "Value": "string"
                          }
                       ]
                    }
                 }
              },
              "Name": "string",
              "OverrideAction": "string",
              "Priority": number,
              "VisibilityConfig": {
                 "CloudWatchMetricsEnabled": boolean,
                 "MetricName": "string",
                 "SampledRequestsEnabled": boolean
              }
           }
        ],
        "VisibilityConfig": {
           "CloudWatchMetricsEnabled": boolean,
```

```
                "MetricName": "string",
                "SampledRequestsEnabled": boolean
            }
        },
        "AwsWafWebAcl": {
            "DefaultAction": "string",
            "Name": "string",
            "Rules": [
                {
                    "Action": {
                        "Type": "string"
                    },
                    "ExcludedRules": [
                        {
                            "RuleId": "string"
                        }
                    ],
                    "OverrideAction": {
                        "Type": "string"
                    },
                    "Priority": number,
                    "RuleId": "string",
                    "Type": "string"
                }
            ],
            "WebAclId": "string"
        },
        "AwsXrayEncryptionConfig": {
            "KeyId": "string",
            "Status": "string",
            "Type": "string"
        },
        "CodeRepository": {
            "CodeSecurityIntegrationArn": "string",
            "ProjectName": "string",
            "ProviderType": "string"
        },
        "Container": {
            "ContainerRuntime": "string",
            "ImageId": "string",
            "ImageName": "string",
            "LaunchedAt": "string",
            "Name": "string",
            "Privileged": boolean,
```

```
                "VolumeMounts": [
                   {
                      "MountPath": "string",
                      "Name": "string"
                   }
                ]
             },
             "Other": {
                "string" : "string"
             }
          },
          "Id": "string",
          "Partition": "string",
          "Region": "string",
          "ResourceRole": "string",
          "Tags": {
             "string" : "string"
          },
          "Type": "string"
       }
    ],
    "Sample": boolean,
    "SchemaVersion": "string",
    "Severity": {
       "Label": "string",
       "Normalized": number,
       "Original": "string",
       "Product": number
    },
    "SourceUrl": "string",
    "ThreatIntelIndicators": [
       {
          "Category": "string",
          "LastObservedAt": "string",
          "Source": "string",
          "SourceUrl": "string",
          "Type": "string",
          "Value": "string"
       }
    ],
    "Threats": [
       {
          "FilePaths": [
             {
```

```
                "FileName": "string",
                "FilePath": "string",
                "Hash": "string",
                "ResourceId": "string"
            }
        ],
        "ItemCount": number,
        "Name": "string",
        "Severity": "string"
    }
],
"Title": "string",
"Types": [ "string" ],
"UpdatedAt": "string",
"UserDefinedFields": {
    "string" : "string"
},
"VerificationState": "string",
"Vulnerabilities": [
    {
        "CodeVulnerabilities": [
            {
                "Cwes": [ "string" ],
                "FilePath": {
                    "EndLine": number,
                    "FileName": "string",
                    "FilePath": "string",
                    "StartLine": number
                },
                "SourceArn": "string"
            }
        ],
        "Cvss": [
            {
                "Adjustments": [
                    {
                        "Metric": "string",
                        "Reason": "string"
                    }
                ],
                "BaseScore": number,
                "BaseVector": "string",
                "Source": "string",
                "Version": "string"
```

```
                    }
                ],
                "EpssScore": number,
                "ExploitAvailable": "string",
                "FixAvailable": "string",
                "Id": "string",
                "LastKnownExploitAt": "string",
                "ReferenceUrls": [ "string" ],
                "RelatedVulnerabilities": [ "string" ],
                "Vendor": {
                    "Name": "string",
                    "Url": "string",
                    "VendorCreatedAt": "string",
                    "VendorSeverity": "string",
                    "VendorUpdatedAt": "string"
                },
                "VulnerablePackages": [
                    {
                        "Architecture": "string",
                        "Epoch": "string",
                        "FilePath": "string",
                        "FixedInVersion": "string",
                        "Name": "string",
                        "PackageManager": "string",
                        "Release": "string",
                        "Remediation": "string",
                        "SourceLayerArn": "string",
                        "SourceLayerHash": "string",
                        "Version": "string"
                    }
                ]
            }
        ],
        "Workflow": {
            "Status": "string"
        },
        "WorkflowState": "string"
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Findings

A list of findings to import. To successfully import a finding, it must follow the AWS Security Finding Format. Maximum of 100 findings per request.

Type: Array of AwsSecurityFinding objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "FailedCount": number,
   "FailedFindings": [
      {
         "ErrorCode": "string",
         "ErrorMessage": "string",
         "Id": "string"
      }
   ],
   "SuccessCount": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

FailedCount

The number of findings that failed to import.

Type: Integer

FailedFindings

The list of findings that failed to import.

Type: Array of ImportFindingsError objects

SuccessCount

The number of findings that were successfully imported.

Type: Integer

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchUpdateAutomationRules

Updates one or more automation rules based on rule Amazon Resource Names (ARNs) and input parameters.

Request Syntax

```
PATCH /automationrules/update HTTP/1.1
Content-type: application/json

{
   "UpdateAutomationRulesRequestItems": [
      {
         "Actions": [
            {
               "FindingFieldsUpdate": {
                  "Confidence": number,
                  "Criticality": number,
                  "Note": {
                     "Text": "string",
                     "UpdatedBy": "string"
                  },
                  "RelatedFindings": [
                     {
                        "Id": "string",
                        "ProductArn": "string"
                     }
                  ],
                  "Severity": {
                     "Label": "string",
                     "Normalized": number,
                     "Product": number
                  },
                  "Types": [ "string" ],
                  "UserDefinedFields": {
                     "string" : "string"
                  },
                  "VerificationState": "string",
                  "Workflow": {
                     "Status": "string"
                  }
               },
               "Type": "string"
```

```
            }
        ],
        "Criteria": {
            "AwsAccountId": [
                {
                    "Comparison": "string",
                    "Value": "string"
                }
            ],
            "AwsAccountName": [
                {
                    "Comparison": "string",
                    "Value": "string"
                }
            ],
            "CompanyName": [
                {
                    "Comparison": "string",
                    "Value": "string"
                }
            ],
            "ComplianceAssociatedStandardsId": [
                {
                    "Comparison": "string",
                    "Value": "string"
                }
            ],
            "ComplianceSecurityControlId": [
                {
                    "Comparison": "string",
                    "Value": "string"
                }
            ],
            "ComplianceStatus": [
                {
                    "Comparison": "string",
                    "Value": "string"
                }
            ],
            "Confidence": [
                {
                    "Eq": number,
                    "Gt": number,
                    "Gte": number,
```

```
                "Lt": number,
                "Lte": number
            }
        ],
        "CreatedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "Criticality": [
            {
                "Eq": number,
                "Gt": number,
                "Gte": number,
                "Lt": number,
                "Lte": number
            }
        ],
        "Description": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "FirstObservedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "GeneratorId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
```

```
            ],
            "Id": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "LastObservedAt": [
               {
                  "DateRange": {
                     "Unit": "string",
                     "Value": number
                  },
                  "End": "string",
                  "Start": "string"
               }
            ],
            "NoteText": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "NoteUpdatedAt": [
               {
                  "DateRange": {
                     "Unit": "string",
                     "Value": number
                  },
                  "End": "string",
                  "Start": "string"
               }
            ],
            "NoteUpdatedBy": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ProductArn": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
```

```
            ],
            "ProductName": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "RecordState": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "RelatedFindingsId": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "RelatedFindingsProductArn": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceApplicationArn": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceApplicationName": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceDetailsOther": [
               {
                  "Comparison": "string",
                  "Key": "string",
                  "Value": "string"
               }
            ],
```

```
            "ResourceId": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourcePartition": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceRegion": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceTags": [
               {
                  "Comparison": "string",
                  "Key": "string",
                  "Value": "string"
               }
            ],
            "ResourceType": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "SeverityLabel": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "SourceUrl": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "Title": [
```

```
                {
                    "Comparison": "string",
                    "Value": "string"
                }
            ],
            "Type": [
                {
                    "Comparison": "string",
                    "Value": "string"
                }
            ],
            "UpdatedAt": [
                {
                    "DateRange": {
                        "Unit": "string",
                        "Value": number
                    },
                    "End": "string",
                    "Start": "string"
                }
            ],
            "UserDefinedFields": [
                {
                    "Comparison": "string",
                    "Key": "string",
                    "Value": "string"
                }
            ],
            "VerificationState": [
                {
                    "Comparison": "string",
                    "Value": "string"
                }
            ],
            "WorkflowStatus": [
                {
                    "Comparison": "string",
                    "Value": "string"
                }
            ]
        },
        "Description": "string",
        "IsTerminal": boolean,
        "RuleArn": "string",
```

```
            "RuleName": "string",
            "RuleOrder": number,
            "RuleStatus": "string"
        }
    ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

UpdateAutomationRulesRequestItems

An array of ARNs for the rules that are to be updated. Optionally, you can also include `RuleStatus` and `RuleOrder`.

Type: Array of UpdateAutomationRulesRequestItem objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
    "ProcessedAutomationRules": [ "string" ],
    "UnprocessedAutomationRules": [
        {
            "ErrorCode": number,
            "ErrorMessage": "string",
            "RuleArn": "string"
        }
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ProcessedAutomationRules

A list of properly processed rule ARNs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Pattern: `.*\S.*`

UnprocessedAutomationRules

A list of objects containing `RuleArn`, `ErrorCode`, and `ErrorMessage`. This parameter tells you which automation rules the request didn't update and why.

Type: Array of UnprocessedAutomationRule objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchUpdateFindings

Used by Security Hub CSPM customers to update information about their investigation into one or more findings. Requested by administrator accounts or member accounts. Administrator accounts can update findings for their account and their member accounts. A member account can update findings only for their own account. Administrator and member accounts can use this operation to update the following fields and objects for one or more findings:

- `Confidence`
- `Criticality`
- `Note`
- `RelatedFindings`
- `Severity`
- `Types`
- `UserDefinedFields`
- `VerificationState`
- `Workflow`

If you use this operation to update a finding, your updates don't affect the value for the `UpdatedAt` field of the finding. Also note that it can take several minutes for Security Hub CSPM to process your request and update each finding specified in the request.

You can configure IAM policies to restrict access to fields and field values. For example, you might not want member accounts to be able to suppress findings or change the finding severity. For more information see Configuring access to BatchUpdateFindings in the *AWS Security Hub CSPM User Guide*.

Request Syntax

```
PATCH /findings/batchupdate HTTP/1.1
Content-type: application/json

{
   "Confidence": number,
   "Criticality": number,
```

```
    "FindingIdentifiers": [
       {
          "Id": "string",
          "ProductArn": "string"
       }
    ],
    "Note": {
       "Text": "string",
       "UpdatedBy": "string"
    },
    "RelatedFindings": [
       {
          "Id": "string",
          "ProductArn": "string"
       }
    ],
    "Severity": {
       "Label": "string",
       "Normalized": number,
       "Product": number
    },
    "Types": [ "string" ],
    "UserDefinedFields": {
       "string" : "string"
    },
    "VerificationState": "string",
    "Workflow": {
       "Status": "string"
    }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Confidence

The updated value for the finding confidence. Confidence is defined as the likelihood that a finding accurately identifies the behavior or issue that it was intended to identify.

Confidence is scored on a 0-100 basis using a ratio scale, where 0 means zero percent confidence and 100 means 100 percent confidence.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

Criticality

The updated value for the level of importance assigned to the resources associated with the findings.

A score of 0 means that the underlying resources have no criticality, and a score of 100 is reserved for the most critical resources.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

FindingIdentifiers

The list of findings to update. `BatchUpdateFindings` can be used to update up to 100 findings at a time.

For each finding, the list provides the finding identifier and the ARN of the finding provider.

Type: Array of AwsSecurityFindingIdentifier objects

Required: Yes

Note

The updated note.

Type: NoteUpdate object

Required: No

RelatedFindings

A list of findings that are related to the updated findings.

Type: Array of RelatedFinding objects

Required: No

Severity

Used to update the finding severity.

Type: SeverityUpdate object

Required: No

Types

One or more finding types in the format of namespace/category/classifier that classify a finding.

Valid namespace values are as follows.

- Software and Configuration Checks
- TTPs
- Effects
- Unusual Behaviors
- Sensitive Data Identifications

Type: Array of strings

Pattern: `.*\S.*`

Required: No

UserDefinedFields

A list of name/value string pairs associated with the finding. These are custom, user-defined fields added to a finding.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

VerificationState

Indicates the veracity of a finding.

The available values for `VerificationState` are as follows.

- `UNKNOWN` – The default disposition of a security finding
- `TRUE_POSITIVE` – The security finding is confirmed
- `FALSE_POSITIVE` – The security finding was determined to be a false alarm
- `BENIGN_POSITIVE` – A special case of `TRUE_POSITIVE` where the finding doesn't pose any threat, is expected, or both

Type: String

Valid Values: `UNKNOWN | TRUE_POSITIVE | FALSE_POSITIVE | BENIGN_POSITIVE`

Required: No

Workflow

Used to update the workflow status of a finding.

The workflow status indicates the progress of the investigation into the finding.

Type: WorkflowUpdate object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "ProcessedFindings": [
      {
         "Id": "string",
         "ProductArn": "string"
      }
   ],
   "UnprocessedFindings": [
      {
```

```
            "ErrorCode": "string",
            "ErrorMessage": "string",
            "FindingIdentifier": {
               "Id": "string",
               "ProductArn": "string"
            }
         }
      ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ProcessedFindings

The list of findings that were updated successfully.

Type: Array of AwsSecurityFindingIdentifier objects

UnprocessedFindings

The list of findings that were not updated.

Type: Array of BatchUpdateFindingsUnprocessedFinding objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchUpdateFindingsV2

Used by customers to update information about their investigation into a finding. Requested by delegated administrator accounts or member accounts. Delegated administrator accounts can update findings for their account and their member accounts. Member accounts can update findings for their account. `BatchUpdateFindings` and `BatchUpdateFindingV2` both use `securityhub:BatchUpdateFindings` in the `Action` element of an IAM policy statement. You must have permission to perform the `securityhub:BatchUpdateFindings` action. Updates from `BatchUpdateFindingsV2` don't affect the value of `finding_info.modified_time`, `finding_info.modified_time_dt`, `time`, `time_dt for a finding`.

Request Syntax

```
PATCH /findingsv2/batchupdatev2 HTTP/1.1
Content-type: application/json

{
   "Comment": "string",
   "FindingIdentifiers": [
      {
         "CloudAccountUid": "string",
         "FindingInfoUid": "string",
         "MetadataProductUid": "string"
      }
   ],
   "MetadataUids": [ "string" ],
   "SeverityId": number,
   "StatusId": number
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Comment

The updated value for a user provided comment about the finding. Minimum character length 1. Maximum character length 512.

Type: String

Pattern: `.*\S.*`

Required: No

FindingIdentifiers

Provides information to identify a specific V2 finding.

Type: Array of OcsfFindingIdentifier objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

MetadataUids

The list of finding `metadata.uid` to indicate findings to update. Finding `metadata.uid` is a globally unique identifier associated with the finding. Customers cannot use `MetadataUids` together with `FindingIdentifiers`.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Pattern: `.*\S.*`

Required: No

SeverityId

The updated value for the normalized severity identifier. The severity ID is an integer with the allowed enum values [0, 1, 2, 3, 4, 5, 99]. When customer provides the updated severity ID, the string sibling severity will automatically be updated in the finding.

Type: Integer

Required: No

StatusId

The updated value for the normalized status identifier. The status ID is an integer with the allowed enum values [0, 1, 2, 3, 4, 5, 6, 99]. When customer provides the updated status ID, the string sibling status will automatically be updated in the finding.

Type: Integer

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "ProcessedFindings": [
      {
         "FindingIdentifier": {
            "CloudAccountUid": "string",
            "FindingInfoUid": "string",
            "MetadataProductUid": "string"
         },
         "MetadataUid": "string"
      }
   ],
   "UnprocessedFindings": [
      {
         "ErrorCode": "string",
         "ErrorMessage": "string",
         "FindingIdentifier": {
            "CloudAccountUid": "string",
            "FindingInfoUid": "string",
            "MetadataProductUid": "string"
         },
         "MetadataUid": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ProcessedFindings

The list of findings that were updated successfully.

Type: Array of BatchUpdateFindingsV2ProcessedFinding objects

UnprocessedFindings

The list of V2 findings that were not updated.

Type: Array of BatchUpdateFindingsV2UnprocessedFinding objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchUpdateStandardsControlAssociations

For a batch of security controls and standards, this operation updates the enablement status of a control in a standard.

Request Syntax

```
PATCH /associations HTTP/1.1
Content-type: application/json

{
   "StandardsControlAssociationUpdates": [
      {
         "AssociationStatus": "string",
         "SecurityControlId": "string",
         "StandardsArn": "string",
         "UpdatedReason": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

StandardsControlAssociationUpdates

Updates the enablement status of a security control in a specified standard.

Calls to this operation return a `RESOURCE_NOT_FOUND_EXCEPTION` error when the standard subscription for the control has `StandardsControlsUpdatable` value `NOT_READY_FOR_UPDATES`.

Type: Array of StandardsControlAssociationUpdate objects

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "UnprocessedAssociationUpdates": [
      {
         "ErrorCode": "string",
         "ErrorReason": "string",
         "StandardsControlAssociationUpdate": {
            "AssociationStatus": "string",
            "SecurityControlId": "string",
            "StandardsArn": "string",
            "UpdatedReason": "string"
         }
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

UnprocessedAssociationUpdates

A security control (identified with `SecurityControlId`, `SecurityControlArn`, or a mix of both parameters) whose enablement status in a specified standard couldn't be updated.

Type: Array of UnprocessedStandardsControlAssociationUpdate objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

CreateActionTarget

Creates a custom action target in Security Hub CSPM.

You can use custom actions on findings and insights in Security Hub CSPM to trigger target actions in Amazon CloudWatch Events.

Request Syntax

```
POST /actionTargets HTTP/1.1
Content-type: application/json

{
   "Description": "string",
   "Id": "string",
   "Name": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Description

The description for the custom action target.

Type: String

Pattern: `.*\S.*`

Required: Yes

Id

The ID for the custom action target. Can contain up to 20 alphanumeric characters.

Type: String

Pattern: `.*\S.*`

Required: Yes

Name

The name of the custom action target. Can contain up to 20 characters.

Type: String

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "ActionTargetArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ActionTargetArn

The Amazon Resource Name (ARN) for the custom action target.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

CreateAggregatorV2

Enables aggregation across AWS Regions.

Request Syntax

```
POST /aggregatorv2/create HTTP/1.1
Content-type: application/json

{
   "ClientToken": "string",
   "LinkedRegions": [ "string" ],
   "RegionLinkingMode": "string",
   "Tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ClientToken

A unique identifier used to ensure idempotency.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[\x21-\x7E]{1,64}$`

Required: No

LinkedRegions

The list of Regions that are linked to the aggregation Region.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

RegionLinkingMode

Determines how Regions are linked to an Aggregator V2.

Type: String

Pattern: `.*\S.*`

Required: Yes

Tags

A list of key-value pairs to be applied to the AggregatorV2.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "AggregationRegion": "string",
   "AggregatorV2Arn": "string",
   "LinkedRegions": [ "string" ],
   "RegionLinkingMode": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AggregationRegion

The AWS Region where data is aggregated.

Type: String

Pattern: `.*\S.*`

AggregatorV2Arn

The ARN of the AggregatorV2.

Type: String

Pattern: `.*\S.*`

LinkedRegions

The list of Regions that are linked to the aggregation Region.

Type: Array of strings

Pattern: `.*\S.*`

RegionLinkingMode

Determines how Regions are linked to an Aggregator V2.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ServiceQuotaExceededException

The request was rejected because it would exceed the service quota limit.

HTTP Status Code: 402

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateAutomationRule

Creates an automation rule based on input parameters.

Request Syntax

```
POST /automationrules/create HTTP/1.1
Content-type: application/json

{
   "Actions": [
      {
         "FindingFieldsUpdate": {
            "Confidence": number,
            "Criticality": number,
            "Note": {
               "Text": "string",
               "UpdatedBy": "string"
            },
            "RelatedFindings": [
               {
                  "Id": "string",
                  "ProductArn": "string"
               }
            ],
            "Severity": {
               "Label": "string",
               "Normalized": number,
               "Product": number
            },
            "Types": [ "string" ],
            "UserDefinedFields": {
               "string" : "string"
            },
            "VerificationState": "string",
            "Workflow": {
               "Status": "string"
            }
         },
         "Type": "string"
      }
   ],
   "Criteria": {
```

```
        "AwsAccountId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "AwsAccountName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "CompanyName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ComplianceAssociatedStandardsId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ComplianceSecurityControlId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ComplianceStatus": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Confidence": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
              "Lte": number
           }
```

```
        ],
        "CreatedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
              "Start": "string"
           }
        ],
        "Criticality": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
              "Lte": number
           }
        ],
        "Description": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "FirstObservedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
              "Start": "string"
           }
        ],
        "GeneratorId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Id": [
           {
```

```
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "LastObservedAt": [
         {
            "DateRange": {
               "Unit": "string",
               "Value": number
            },
            "End": "string",
            "Start": "string"
         }
      ],
      "NoteText": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "NoteUpdatedAt": [
         {
            "DateRange": {
               "Unit": "string",
               "Value": number
            },
            "End": "string",
            "Start": "string"
         }
      ],
      "NoteUpdatedBy": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ProductArn": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ProductName": [
         {
```

```
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "RecordState": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "RelatedFindingsId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "RelatedFindingsProductArn": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceApplicationArn": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceApplicationName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceDetailsOther": [
         {
            "Comparison": "string",
            "Key": "string",
            "Value": "string"
         }
      ],
      "ResourceId": [
         {
            "Comparison": "string",
```

```
            "Value": "string"
         }
      ],
      "ResourcePartition": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceRegion": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceTags": [
         {
            "Comparison": "string",
            "Key": "string",
            "Value": "string"
         }
      ],
      "ResourceType": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "SeverityLabel": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "SourceUrl": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "Title": [
         {
            "Comparison": "string",
            "Value": "string"
```

```
            }
        ],
        "Type": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "UpdatedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "UserDefinedFields": [
            {
                "Comparison": "string",
                "Key": "string",
                "Value": "string"
            }
        ],
        "VerificationState": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "WorkflowStatus": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ]
    },
    "Description": "string",
    "IsTerminal": boolean,
    "RuleName": "string",
    "RuleOrder": number,
    "RuleStatus": "string",
    "Tags": {
```

```
        "string" : "string"
    }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Actions

One or more actions to update finding fields if a finding matches the conditions specified in `Criteria`.

Type: Array of AutomationRulesAction objects

Array Members: Fixed number of 1 item.

Required: Yes

Criteria

A set of ASFF finding field attributes and corresponding expected values that Security Hub CSPM uses to filter findings. If a rule is enabled and a finding matches the conditions specified in this parameter, Security Hub CSPM applies the rule action to the finding.

Type: AutomationRulesFindingFilters object

Required: Yes

Description

A description of the rule.

Type: String

Pattern: `.*\S.*`

Required: Yes

IsTerminal

Specifies whether a rule is the last to be applied with respect to a finding that matches the rule criteria. This is useful when a finding matches the criteria for multiple rules, and each rule has different actions. If a rule is terminal, Security Hub CSPM applies the rule action to a finding that matches the rule criteria and doesn't evaluate other rules for the finding. By default, a rule isn't terminal.

Type: Boolean

Required: No

RuleName

The name of the rule.

Type: String

Pattern: `.*\S.*`

Required: Yes

RuleOrder

An integer ranging from 1 to 1000 that represents the order in which the rule action is applied to findings. Security Hub CSPM applies rules with lower values for this parameter first.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

RuleStatus

Whether the rule is active after it is created. If this parameter is equal to `ENABLED`, Security Hub CSPM starts applying the rule to findings and finding updates after the rule is created. To change the value of this parameter after creating a rule, use `BatchUpdateAutomationRules`.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

Tags

User-defined tags associated with an automation rule.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "RuleArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

RuleArn

The Amazon Resource Name (ARN) of the automation rule that you created.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateAutomationRuleV2

Creates a V2 automation rule.

Request Syntax

```
POST /automationrulesv2/create HTTP/1.1
Content-type: application/json

{
   "Actions": [
      {
         "ExternalIntegrationConfiguration": {
            "ConnectorArn": "string"
         },
         "FindingFieldsUpdate": {
            "Comment": "string",
            "SeverityId": number,
            "StatusId": number
         },
         "Type": "string"
      }
   ],
   "ClientToken": "string",
   "Criteria": { ... },
   "Description": "string",
   "RuleName": "string",
   "RuleOrder": number,
   "RuleStatus": "string",
   "Tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Actions

A list of actions to be performed when the rule criteria is met.

Type: Array of AutomationRulesActionV2 objects

Array Members: Fixed number of 1 item.

Required: Yes

ClientToken

A unique identifier used to ensure idempotency.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[\x21-\x7E]{1,64}$`

Required: No

Criteria

The filtering type and configuration of the automation rule.

Type: Criteria object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Description

A description of the V2 automation rule.

Type: String

Pattern: `.*\S.*`

Required: Yes

RuleName

The name of the V2 automation rule.

Type: String

Pattern: `.*\S.*`

Required: Yes

RuleOrder

The value for the rule priority.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 1000.0.

Required: Yes

RuleStatus

The status of the V2 automation rule.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

Tags

A list of key-value pairs associated with the V2 automation rule.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "RuleArn": "string",
   "RuleId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

RuleArn

The ARN of the V2 automation rule.

Type: String

Pattern: `.*\S.*`

RuleId

The ID of the V2 automation rule.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ServiceQuotaExceededException

The request was rejected because it would exceed the service quota limit.

HTTP Status Code: 402

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateConfigurationPolicy

Creates a configuration policy with the defined configuration. Only the AWS Security Hub CSPM delegated administrator can invoke this operation from the home Region.

Request Syntax

```
POST /configurationPolicy/create HTTP/1.1
Content-type: application/json

{
   "ConfigurationPolicy": { ... },
   "Description": "string",
   "Name": "string",
   "Tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ConfigurationPolicy

An object that defines how Security Hub CSPM is configured. It includes whether Security Hub CSPM is enabled or disabled, a list of enabled security standards, a list of enabled or disabled security controls, and a list of custom parameter values for specified controls. If you provide a list of security controls that are enabled in the configuration policy, Security Hub CSPM disables all other controls (including newly released controls). If you provide a list of security controls that are disabled in the configuration policy, Security Hub CSPM enables all other controls (including newly released controls).

Type: Policy object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Description

The description of the configuration policy.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the configuration policy. Alphanumeric characters and the following ASCII characters are permitted: `-, ., !, *, /`.

Type: String

Pattern: `.*\S.*`

Required: Yes

Tags

User-defined tags associated with a configuration policy. For more information, see Tagging AWS Security Hub CSPM resources in the *Security Hub CSPM user guide*.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "Arn": "string",
   "ConfigurationPolicy": { ... },
   "CreatedAt": "string",
   "Description": "string",
   "Id": "string",
   "Name": "string",
   "UpdatedAt": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Arn

The Amazon Resource Name (ARN) of the configuration policy.

Type: String

Pattern: `.*\S.*`

ConfigurationPolicy

An object that defines how Security Hub CSPM is configured. It includes whether Security Hub CSPM is enabled or disabled, a list of enabled security standards, a list of enabled or disabled security controls, and a list of custom parameter values for specified controls. If the request included a list of security controls that are enabled in the configuration policy, Security Hub CSPM disables all other controls (including newly released controls). If the request included a list of security controls that are disabled in the configuration policy, Security Hub CSPM enables all other controls (including newly released controls).

Type: Policy object

Note: This object is a Union. Only one member of this object can be specified or returned.

CreatedAt

The date and time, in UTC and ISO 8601 format, that the configuration policy was created.

Type: Timestamp

Description

The description of the configuration policy.

Type: String

Pattern: `.*\S.*`

Id

The universally unique identifier (UUID) of the configuration policy.

Type: String

Pattern: `.*\S.*`

Name

The name of the configuration policy.

Type: String

Pattern: `.*\S.*`

UpdatedAt

The date and time, in UTC and ISO 8601 format, that the configuration policy was last updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

CreateConnectorV2

Grants permission to create a connectorV2 based on input parameters.

Request Syntax

```
POST /connectorsv2 HTTP/1.1
Content-type: application/json

{
   "ClientToken": "string",
   "Description": "string",
   "KmsKeyArn": "string",
   "Name": "string",
   "Provider": { ... },
   "Tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ClientToken

A unique identifier used to ensure idempotency.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[\x21-\x7E]{1,64}$`

Required: No

Description

The description of the connectorV2.

Type: String

Pattern: `.*\S.*`

Required: No

KmsKeyArn

The Amazon Resource Name (ARN) of KMS key used to encrypt secrets for the connectorV2.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The unique name of the connectorV2.

Type: String

Pattern: `.*\S.*`

Required: Yes

Provider

The third-party provider's service configuration.

Type: ProviderConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Tags

The tags to add to the connectorV2 when you create.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "AuthUrl": "string",
   "ConnectorArn": "string",
   "ConnectorId": "string",
   "ConnectorStatus": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AuthUrl

The Url provide to customers for OAuth auth code flow.

Type: String

Pattern: `.*\S.*`

ConnectorArn

The Amazon Resource Name (ARN) of the connectorV2.

Type: String

Pattern: `.*\S.*`

ConnectorId

The UUID of the connectorV2 to identify connectorV2 resource.

Type: String

Pattern: `.*\S.*`

ConnectorStatus

The current status of the connectorV2.

Type: String

Valid Values: `CONNECTED | FAILED_TO_CONNECT | PENDING_CONFIGURATION | PENDING_AUTHORIZATION`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ServiceQuotaExceededException

The request was rejected because it would exceed the service quota limit.

HTTP Status Code: 402

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateFindingAggregator

> **Note**
>
> The *aggregation Region* is now called the *home Region*.

Used to enable cross-Region aggregation. This operation can be invoked from the home Region only.

For information about how cross-Region aggregation works, see Understanding cross-Region aggregation in Security Hub CSPM in the *AWS Security Hub CSPM User Guide*.

Request Syntax

```
POST /findingAggregator/create HTTP/1.1
Content-type: application/json

{
   "RegionLinkingMode": "string",
   "Regions": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

RegionLinkingMode

Indicates whether to aggregate findings from all of the available Regions in the current partition. Also determines whether to automatically aggregate findings from new Regions as Security Hub CSPM supports them and you opt into them.

The selected option also determines how to use the Regions provided in the Regions list.

The options are as follows:

- `ALL_REGIONS` - Aggregates findings from all of the Regions where Security Hub CSPM is enabled. When you choose this option, Security Hub CSPM also automatically aggregates findings from new Regions as Security Hub CSPM supports them and you opt into them.
- `ALL_REGIONS_EXCEPT_SPECIFIED` - Aggregates findings from all of the Regions where Security Hub CSPM is enabled, except for the Regions listed in the `Regions` parameter. When you choose this option, Security Hub CSPM also automatically aggregates findings from new Regions as Security Hub CSPM supports them and you opt into them.
- `SPECIFIED_REGIONS` - Aggregates findings only from the Regions listed in the `Regions` parameter. Security Hub CSPM does not automatically aggregate findings from new Regions.
- `NO_REGIONS` - Aggregates no data because no Regions are selected as linked Regions.

Type: String

Pattern: `.*\S.*`

Required: Yes

Regions

If `RegionLinkingMode` is `ALL_REGIONS_EXCEPT_SPECIFIED`, then this is a space-separated list of Regions that don't replicate and send findings to the home Region.

If `RegionLinkingMode` is `SPECIFIED_REGIONS`, then this is a space-separated list of Regions that do replicate and send findings to the home Region.

An `InvalidInputException` error results if you populate this field while `RegionLinkingMode` is `NO_REGIONS`.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
    "FindingAggregationRegion": "string",
    "FindingAggregatorArn": "string",
    "RegionLinkingMode": "string",
    "Regions": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

FindingAggregationRegion

The home Region. Findings generated in linked Regions are replicated and sent to the home Region.

Type: String

Pattern: `.*\S.*`

FindingAggregatorArn

The ARN of the finding aggregator. You use the finding aggregator ARN to retrieve details for, update, and stop cross-Region aggregation.

Type: String

Pattern: `.*\S.*`

RegionLinkingMode

Indicates whether to link all Regions, all Regions except for a list of excluded Regions, or a list of included Regions.

Type: String

Pattern: `.*\S.*`

Regions

The list of excluded Regions or included Regions.

Type: Array of strings

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateInsight

Creates a custom insight in Security Hub CSPM. An insight is a consolidation of findings that relate to a security issue that requires attention or remediation.

To group the related findings in the insight, use the `GroupByAttribute`.

Request Syntax

```
POST /insights HTTP/1.1
Content-type: application/json

{
   "Filters": {
      "AwsAccountId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "AwsAccountName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "CompanyName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ComplianceAssociatedStandardsId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ComplianceSecurityControlId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
```

```
        ],
        "ComplianceSecurityControlParametersName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ComplianceSecurityControlParametersValue": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ComplianceStatus": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Confidence": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
              "Lte": number
           }
        ],
        "CreatedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
              "Start": "string"
           }
        ],
        "Criticality": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
```

```
            "Lte": number
         }
      ],
      "Description": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "FindingProviderFieldsConfidence": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "FindingProviderFieldsCriticality": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "FindingProviderFieldsRelatedFindingsId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "FindingProviderFieldsRelatedFindingsProductArn": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "FindingProviderFieldsSeverityLabel": [
         {
            "Comparison": "string",
            "Value": "string"
         }
```

```
        ],
        "FindingProviderFieldsSeverityOriginal": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "FindingProviderFieldsTypes": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "FirstObservedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
              "Start": "string"
           }
        ],
        "GeneratorId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Id": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Keyword": [
           {
              "Value": "string"
           }
        ],
        "LastObservedAt": [
           {
              "DateRange": {
                 "Unit": "string",
```

```
                "Value": number
            },
            "End": "string",
            "Start": "string"
        }
    ],
    "MalwareName": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "MalwarePath": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "MalwareState": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "MalwareType": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "NetworkDestinationDomain": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "NetworkDestinationIpV4": [
        {
            "Cidr": "string"
        }
    ],
    "NetworkDestinationIpV6": [
        {
            "Cidr": "string"
```

```
            }
        ],
        "NetworkDestinationPort": [
            {
                "Eq": number,
                "Gt": number,
                "Gte": number,
                "Lt": number,
                "Lte": number
            }
        ],
        "NetworkDirection": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkProtocol": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkSourceDomain": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkSourceIpV4": [
            {
                "Cidr": "string"
            }
        ],
        "NetworkSourceIpV6": [
            {
                "Cidr": "string"
            }
        ],
        "NetworkSourceMac": [
            {
                "Comparison": "string",
                "Value": "string"
            }
```

```
        ],
        "NetworkSourcePort": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
              "Lte": number
           }
        ],
        "NoteText": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "NoteUpdatedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
              "Start": "string"
           }
        ],
        "NoteUpdatedBy": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ProcessLaunchedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
              "Start": "string"
           }
        ],
        "ProcessName": [
           {
```

```
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ProcessParentPid": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "ProcessPath": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ProcessPid": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "ProcessTerminatedAt": [
         {
            "DateRange": {
               "Unit": "string",
               "Value": number
            },
            "End": "string",
            "Start": "string"
         }
      ],
      "ProductArn": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
```

```
        "ProductFields": [
           {
              "Comparison": "string",
              "Key": "string",
              "Value": "string"
           }
        ],
        "ProductName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "RecommendationText": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "RecordState": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Region": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "RelatedFindingsId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "RelatedFindingsProductArn": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceApplicationArn": [
```

```
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceApplicationName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceIamInstanceProfileArn": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceImageId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceIpV4Addresses": [
            {
                "Cidr": "string"
            }
        ],
        "ResourceAwsEc2InstanceIpV6Addresses": [
            {
                "Cidr": "string"
            }
        ],
        "ResourceAwsEc2InstanceKeyName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceLaunchedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
```

```
            },
            "End": "string",
            "Start": "string"
         }
      ],
      "ResourceAwsEc2InstanceSubnetId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceAwsEc2InstanceType": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceAwsEc2InstanceVpcId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceAwsIamAccessKeyCreatedAt": [
         {
            "DateRange": {
               "Unit": "string",
               "Value": number
            },
            "End": "string",
            "Start": "string"
         }
      ],
      "ResourceAwsIamAccessKeyPrincipalName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceAwsIamAccessKeyStatus": [
         {
            "Comparison": "string",
            "Value": "string"
         }
```

```
        ],
        "ResourceAwsIamAccessKeyUserName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceAwsIamUserUserName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceAwsS3BucketOwnerId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceAwsS3BucketOwnerName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceContainerImageId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceContainerImageName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceContainerLaunchedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
```

```
            "Start": "string"
         }
      ],
      "ResourceContainerName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceDetailsOther": [
         {
            "Comparison": "string",
            "Key": "string",
            "Value": "string"
         }
      ],
      "ResourceId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourcePartition": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceRegion": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceTags": [
         {
            "Comparison": "string",
            "Key": "string",
            "Value": "string"
         }
      ],
      "ResourceType": [
         {
            "Comparison": "string",
```

```
            "Value": "string"
         }
      ],
      "Sample": [
         {
            "Value": boolean
         }
      ],
      "SeverityLabel": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "SeverityNormalized": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "SeverityProduct": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "SourceUrl": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ThreatIntelIndicatorCategory": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
```

```
        "ThreatIntelIndicatorLastObservedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
              "Start": "string"
           }
        ],
        "ThreatIntelIndicatorSource": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ThreatIntelIndicatorSourceUrl": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ThreatIntelIndicatorType": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ThreatIntelIndicatorValue": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Title": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Type": [
           {
              "Comparison": "string",
              "Value": "string"
```

```
            }
        ],
        "UpdatedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "UserDefinedFields": [
            {
                "Comparison": "string",
                "Key": "string",
                "Value": "string"
            }
        ],
        "VerificationState": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "VulnerabilitiesExploitAvailable": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "VulnerabilitiesFixAvailable": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "WorkflowState": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "WorkflowStatus": [
```

```
            {
               "Comparison": "string",
               "Value": "string"
            }
         ]
      },
      "GroupByAttribute": "string",
      "Name": "string"
   }
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Filters

One or more attributes used to filter the findings included in the insight. The insight only includes findings that match the criteria defined in the filters.

Type: AwsSecurityFindingFilters object

Required: Yes

GroupByAttribute

The attribute used to group the findings for the insight. The grouping attribute identifies the type of item that the insight applies to. For example, if an insight is grouped by resource identifier, then the insight produces a list of resource identifiers.

Type: String

Pattern: `.*\S.*`

Required: Yes

Name

The name of the custom insight to create.

Type: String

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "InsightArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

InsightArn

The ARN of the insight created.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateMembers

Creates a member association in Security Hub CSPM between the specified accounts and the account used to make the request, which is the administrator account. If you are integrated with Organizations, then the administrator account is designated by the organization management account.

`CreateMembers` is always used to add accounts that are not organization members.

For accounts that are managed using Organizations, `CreateMembers` is only used in the following cases:

- Security Hub CSPM is not configured to automatically add new organization accounts.
- The account was disassociated or deleted in Security Hub CSPM.

This action can only be used by an account that has Security Hub CSPM enabled. To enable Security Hub CSPM, you can use the `EnableSecurityHub` operation.

For accounts that are not organization members, you create the account association and then send an invitation to the member account. To send the invitation, you use the `InviteMembers` operation. If the account owner accepts the invitation, the account becomes a member account in Security Hub CSPM.

Accounts that are managed using Organizations don't receive an invitation. They automatically become a member account in Security Hub CSPM.

- If the organization account does not have Security Hub CSPM enabled, then Security Hub CSPM and the default standards are automatically enabled. Note that Security Hub CSPM cannot be enabled automatically for the organization management account. The organization management account must enable Security Hub CSPM before the administrator account enables it as a member account.
- For organization accounts that already have Security Hub CSPM enabled, Security Hub CSPM does not make any other changes to those accounts. It does not change their enabled standards or controls.

A permissions policy is added that permits the administrator account to view the findings generated in the member account.

To remove the association between the administrator and member accounts, use the `DisassociateFromMasterAccount` or `DisassociateMembers` operation.

Request Syntax

```
POST /members HTTP/1.1
Content-type: application/json

{
   "AccountDetails": [
      {
         "AccountId": "string",
         "Email": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AccountDetails

The list of accounts to associate with the Security Hub CSPM administrator account. For each account, the list includes the account ID and optionally the email address.

Type: Array of AccountDetails objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "UnprocessedAccounts": [
      {
         "AccountId": "string",
         "ProcessingResult": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

UnprocessedAccounts

The list of AWS accounts that were not processed. For each account, the list includes the account ID and the email address.

Type: Array of Result objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateTicketV2

Grants permission to create a ticket in the chosen ITSM based on finding information for the provided finding metadata UID.

Request Syntax

```
POST /ticketsv2 HTTP/1.1
Content-type: application/json

{
   "ClientToken": "string",
   "ConnectorId": "string",
   "FindingMetadataUid": "string",
   "Mode": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ClientToken

The client idempotency token.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[\x21-\x7E]{1,64}$`

Required: No

ConnectorId

The UUID of the connectorV2 to identify connectorV2 resource.

Type: String

Pattern: `.*\S.*`

Required: Yes

FindingMetadataUid

The the unique ID for the finding.

Type: String

Pattern: `.*\S.*`

Required: Yes

Mode

The mode for ticket creation. When set to DRYRUN, the ticket is created using a Security Hub owned template test finding to verify the integration is working correctly.

Type: String

Valid Values: `DRYRUN`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "TicketId": "string",
   "TicketSrcUrl": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

TicketId

The ID for the ticketv2.

Type: String

Pattern: `.*\S.*`

TicketSrcUrl

The url to the created ticket.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeclineInvitations

> **Note**
>
> We recommend using AWS Organizations instead of Security Hub CSPM invitations to manage your member accounts. For information, see Managing Security Hub CSPM administrator and member accounts with Organizations in the *AWS Security Hub CSPM User Guide*.

Declines invitations to become a Security Hub CSPM member account.

A prospective member account uses this operation to decline an invitation to become a member.

Only member accounts that aren't part of an AWS organization should use this operation. Organization accounts don't receive invitations.

Request Syntax

```
POST /invitations/decline HTTP/1.1
Content-type: application/json

{
   "AccountIds": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AccountIds

The list of prospective member account IDs for which to decline an invitation.

Type: Array of strings

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "UnprocessedAccounts": [
      {
         "AccountId": "string",
         "ProcessingResult": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

UnprocessedAccounts

The list of AWS accounts that were not processed. For each account, the list includes the account ID and the email address.

Type: Array of Result objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteActionTarget

Deletes a custom action target from Security Hub CSPM.

Deleting a custom action target does not affect any findings or insights that were already sent to Amazon CloudWatch Events using the custom action.

Request Syntax

```
DELETE /actionTargets/ActionTargetArn+ HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ActionTargetArn

The Amazon Resource Name (ARN) of the custom action target to delete.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "ActionTargetArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ActionTargetArn

The ARN of the custom action target that was deleted.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteAggregatorV2

Deletes the Aggregator V2.

Request Syntax

```
DELETE /aggregatorv2/delete/AggregatorV2Arn+ HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

AggregatorV2Arn

The ARN of the Aggregator V2.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteAutomationRuleV2

Deletes a V2 automation rule.

Request Syntax

```
DELETE /automationrulesv2/Identifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Identifier

The ARN of the V2 automation rule.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteConfigurationPolicy

Deletes a configuration policy. Only the AWS Security Hub CSPM delegated administrator can invoke this operation from the home Region. For the deletion to succeed, you must first disassociate a configuration policy from target accounts, organizational units, or the root by invoking the `StartConfigurationPolicyDisassociation` operation.

Request Syntax

```
DELETE /configurationPolicy/Identifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Identifier

The Amazon Resource Name (ARN) or universally unique identifier (UUID) of the configuration policy.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteConnectorV2

Grants permission to delete a connectorV2.

Request Syntax

```
DELETE /connectorsv2/ConnectorId+ HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ConnectorId

The UUID of the connectorV2 to identify connectorV2 resource.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteFindingAggregator

> **Note**
>
> The *aggregation Region* is now called the *home Region*.

Deletes a finding aggregator. When you delete the finding aggregator, you stop cross-Region aggregation. Finding replication stops occurring from the linked Regions to the home Region.

When you stop cross-Region aggregation, findings that were already replicated and sent to the home Region are still visible from the home Region. However, new findings and finding updates are no longer replicated and sent to the home Region.

Request Syntax

```
DELETE /findingAggregator/delete/FindingAggregatorArn+ HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

FindingAggregatorArn

The ARN of the finding aggregator to delete. To obtain the ARN, use `ListFindingAggregators`.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteInsight

Deletes the insight specified by the `InsightArn`.

Request Syntax

```
DELETE /insights/InsightArn+ HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

InsightArn

The ARN of the insight to delete.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "InsightArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

InsightArn

The ARN of the insight that was deleted.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteInvitations

> **Note**
>
> We recommend using AWS Organizations instead of Security Hub CSPM invitations to manage your member accounts. For information, see Managing Security Hub CSPM administrator and member accounts with Organizations in the *AWS Security Hub CSPM User Guide*.

Deletes invitations to become a Security Hub CSPM member account.

A Security Hub CSPM administrator account can use this operation to delete invitations sent to one or more prospective member accounts.

This operation is only used to delete invitations that are sent to prospective member accounts that aren't part of an AWS organization. Organization accounts don't receive invitations.

Request Syntax

```
POST /invitations/delete HTTP/1.1
Content-type: application/json

{
   "AccountIds": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AccountIds

The list of member account IDs that received the invitations you want to delete.

Type: Array of strings

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "UnprocessedAccounts": [
      {
         "AccountId": "string",
         "ProcessingResult": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

UnprocessedAccounts

The list of AWS accounts for which the invitations were not deleted. For each account, the list includes the account ID and the email address.

Type: Array of Result objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

DeleteMembers

Deletes the specified member accounts from Security Hub CSPM.

You can invoke this API only to delete accounts that became members through invitation. You can't invoke this API to delete accounts that belong to an AWS Organizations organization.

Request Syntax

```
POST /members/delete HTTP/1.1
Content-type: application/json

{
   "AccountIds": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AccountIds

The list of account IDs for the member accounts to delete.

Type: Array of strings

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
    "UnprocessedAccounts": [
       {
          "AccountId": "string",
          "ProcessingResult": "string"
       }
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

UnprocessedAccounts

The list of AWS accounts that were not deleted. For each account, the list includes the account ID and the email address.

Type: Array of Result objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeActionTargets

Returns a list of the custom action targets in Security Hub CSPM in your account.

Request Syntax

```
POST /actionTargets/get HTTP/1.1
Content-type: application/json

{
   "ActionTargetArns": [ "string" ],
   "MaxResults": number,
   "NextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ActionTargetArns

A list of custom action target ARNs for the custom action targets to retrieve.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

MaxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

The token that is required for pagination. On your first call to the `DescribeActionTargets` operation, set the value of this parameter to `NULL`.

For subsequent calls to the operation, to continue listing data, set the value of this parameter to the value returned from the previous response.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "ActionTargets": [
      {
         "ActionTargetArn": "string",
         "Description": "string",
         "Name": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ActionTargets

A list of `ActionTarget` objects. Each object includes the `ActionTargetArn`, `Description`, and `Name` of a custom action target available in Security Hub CSPM.

Type: Array of ActionTarget objects

NextToken

The pagination token to use to request the next page of results.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeHub

Returns details about the Hub resource in your account, including the `HubArn` and the time when you enabled Security Hub CSPM.

Request Syntax

```
GET /accounts?HubArn=HubArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

HubArn

The ARN of the Hub resource to retrieve.

Pattern: `.*\S.*`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "AutoEnableControls": boolean,
   "ControlFindingGenerator": "string",
   "HubArn": "string",
   "SubscribedAt": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AutoEnableControls

Whether to automatically enable new controls when they are added to standards that are enabled.

If set to `true`, then new controls for enabled standards are enabled automatically. If set to `false`, then new controls are not enabled.

When you automatically enable new controls, you can interact with the controls in the console and programmatically immediately after release. However, automatically enabled controls have a temporary default status of `DISABLED`. It can take up to several days for Security Hub CSPM to process the control release and designate the control as `ENABLED` in your account. During the processing period, you can manually enable or disable a control, and Security Hub CSPM will maintain that designation regardless of whether you have `AutoEnableControls` set to `true`.

Type: Boolean

ControlFindingGenerator

Specifies whether the calling account has consolidated control findings turned on. If the value for this field is set to `SECURITY_CONTROL`, Security Hub CSPM generates a single finding for a control check even when the check applies to multiple enabled standards.

If the value for this field is set to `STANDARD_CONTROL`, Security Hub CSPM generates separate findings for a control check when the check applies to multiple enabled standards.

The value for this field in a member account matches the value in the administrator account. For accounts that aren't part of an organization, the default value of this field is `SECURITY_CONTROL` if you enabled Security Hub CSPM on or after February 23, 2023.

Type: String

Valid Values: `STANDARD_CONTROL | SECURITY_CONTROL`

HubArn

The ARN of the Hub resource that was retrieved.

Type: String

Pattern: `.*\S.*`

SubscribedAt

The date and time when Security Hub CSPM was enabled in the account.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeOrganizationConfiguration

Returns information about the way your organization is configured in AWS Security Hub CSPM. Only the Security Hub CSPM administrator account can invoke this operation.

Request Syntax

```
GET /organization/configuration HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "AutoEnable": boolean,
   "AutoEnableStandards": "string",
   "MemberAccountLimitReached": boolean,
   "OrganizationConfiguration": {
      "ConfigurationType": "string",
      "Status": "string",
      "StatusMessage": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AutoEnable

Whether to automatically enable Security Hub CSPM in new member accounts when they join the organization.

If set to `true`, then Security Hub CSPM is automatically enabled in new accounts. If set to `false`, then Security Hub CSPM isn't enabled in new accounts automatically. The default value is `false`.

If the `ConfigurationType` of your organization is set to `CENTRAL`, then this field is set to `false` and can't be changed in the home Region and linked Regions. However, in that case, the delegated administrator can create a configuration policy in which Security Hub CSPM is enabled and associate the policy with new organization accounts.

Type: Boolean

AutoEnableStandards

Whether to automatically enable Security Hub CSPM default standards in new member accounts when they join the organization.

If equal to `DEFAULT`, then Security Hub CSPM default standards are automatically enabled for new member accounts. If equal to `NONE`, then default standards are not automatically enabled for new member accounts. The default value of this parameter is equal to `DEFAULT`.

If the `ConfigurationType` of your organization is set to `CENTRAL`, then this field is set to `NONE` and can't be changed in the home Region and linked Regions. However, in that case, the delegated administrator can create a configuration policy in which specific security standards are enabled and associate the policy with new organization accounts.

Type: String

Valid Values: `NONE` | `DEFAULT`

MemberAccountLimitReached

Whether the maximum number of allowed member accounts are already associated with the Security Hub CSPM administrator account.

Type: Boolean

OrganizationConfiguration

Provides information about the way an organization is configured in AWS Security Hub CSPM.

Type: OrganizationConfiguration object

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeProducts

Returns information about product integrations in Security Hub CSPM.

You can optionally provide an integration ARN. If you provide an integration ARN, then the results only include that integration.

If you don't provide an integration ARN, then the results include all of the available product integrations.

Request Syntax

```
GET /products?MaxResults=MaxResults&NextToken=NextToken&ProductArn=ProductArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

The token that is required for pagination. On your first call to the `DescribeProducts` operation, set the value of this parameter to `NULL`.

For subsequent calls to the operation, to continue listing data, set the value of this parameter to the value returned from the previous response.

ProductArn

The ARN of the integration to return.

Pattern: `.*\S.*`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "NextToken": "string",
   "Products": [
      {
         "ActivationUrl": "string",
         "Categories": [ "string" ],
         "CompanyName": "string",
         "Description": "string",
         "IntegrationTypes": [ "string" ],
         "MarketplaceUrl": "string",
         "ProductArn": "string",
         "ProductName": "string",
         "ProductSubscriptionResourcePolicy": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

The pagination token to use to request the next page of results.

Type: String

Products

A list of products, including details for each product.

Type: Array of Product objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

DescribeProductsV2

Gets information about the product integration.

Request Syntax

```
GET /productsV2?MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

The token required for pagination. On your first call, set the value of this parameter to NULL. For subsequent calls, to continue listing data, set the value of this parameter to the value returned in the previous response.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "NextToken": "string",
   "ProductsV2": [
      {
         "ActivationUrl": "string",
         "Categories": [ "string" ],
         "CompanyName": "string",
```

```
            "Description": "string",
            "IntegrationV2Types": [ "string" ],
            "MarketplaceUrl": "string",
            "ProductV2Name": "string"
        }
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

The pagination token to use to request the next page of results. Otherwise, this parameter is null.

Type: String

ProductsV2

Gets information about the product integration.

Type: Array of ProductV2 objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeSecurityHubV2

Returns details about the service resource in your account.

Request Syntax

```
GET /hubv2 HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "HubV2Arn": "string",
   "SubscribedAt": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

HubV2Arn

The ARN of the service resource.

Type: String

Pattern: `.*\S.*`

SubscribedAt

The date and time when the service was enabled in the account.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeStandards

Returns a list of the available standards in Security Hub CSPM.

For each standard, the results include the standard ARN, the name, and a description.

Request Syntax

```
GET /standards?MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of standards to return.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

The token that is required for pagination. On your first call to the `DescribeStandards` operation, set the value of this parameter to `NULL`.

For subsequent calls to the operation, to continue listing data, set the value of this parameter to the value returned from the previous response.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "NextToken": "string",
   "Standards": [
      {
```

```
            "Description": "string",
            "EnabledByDefault": boolean,
            "Name": "string",
            "StandardsArn": "string",
            "StandardsManagedBy": {
               "Company": "string",
               "Product": "string"
            }
         }
      ]
   }
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

The pagination token to use to request the next page of results.

Type: String

Standards

A list of available standards.

Type: Array of Standard objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeStandardsControls

Returns a list of security standards controls.

For each control, the results include information about whether it is currently enabled, the severity, and a link to remediation information.

This operation returns an empty list for standard subscriptions where `StandardsControlsUpdatable` has value `NOT_READY_FOR_UPDATES`.

Request Syntax

```
GET /standards/controls/StandardsSubscriptionArn+?
MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of security standard controls to return.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

The token that is required for pagination. On your first call to the `DescribeStandardsControls` operation, set the value of this parameter to `NULL`.

For subsequent calls to the operation, to continue listing data, set the value of this parameter to the value returned from the previous response.

StandardsSubscriptionArn

The ARN of a resource that represents your subscription to a supported standard. To get the subscription ARNs of the standards you have enabled, use the `GetEnabledStandards` operation.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Controls": [
      {
         "ControlId": "string",
         "ControlStatus": "string",
         "ControlStatusUpdatedAt": "string",
         "Description": "string",
         "DisabledReason": "string",
         "RelatedRequirements": [ "string" ],
         "RemediationUrl": "string",
         "SeverityRating": "string",
         "StandardsControlArn": "string",
         "Title": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Controls

A list of security standards controls.

Type: Array of StandardsControl objects

NextToken

The pagination token to use to request the next page of results.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DisableImportFindingsForProduct

Disables the integration of the specified product with Security Hub CSPM. After the integration is disabled, findings from that product are no longer sent to Security Hub CSPM.

Request Syntax

```
DELETE /productSubscriptions/ProductSubscriptionArn+ HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ProductSubscriptionArn

The ARN of the integrated product to disable the integration for.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

DisableOrganizationAdminAccount

Disables a Security Hub CSPM administrator account. Can only be called by the organization management account.

Request Syntax

```
POST /organization/admin/disable HTTP/1.1
Content-type: application/json

{
   "AdminAccountId": "string",
   "Feature": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AdminAccountId

The AWS account identifier of the Security Hub CSPM administrator account.

Type: String

Pattern: `.*\S.*`

Required: Yes

Feature

The feature for which the delegated admin account is disabled. Defaults to Security Hub CSPM if not specified.

Type: String

Valid Values: `SecurityHub | SecurityHubV2`

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DisableSecurityHub

Disables Security Hub CSPM in your account only in the current AWS Region. To disable Security Hub CSPM in all Regions, you must submit one request per Region where you have enabled Security Hub CSPM.

You can't disable Security Hub CSPM in an account that is currently the Security Hub CSPM administrator.

When you disable Security Hub CSPM, your existing findings and insights and any Security Hub CSPM configuration settings are deleted after 90 days and cannot be recovered. Any standards that were enabled are disabled, and your administrator and member account associations are removed.

If you want to save your existing findings, you must export them before you disable Security Hub CSPM.

Request Syntax

```
DELETE /accounts HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DisableSecurityHubV2

Disable the service for the current AWS Region or specified AWS Region.

Request Syntax

```
DELETE /hubv2 HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DisassociateFromAdministratorAccount

Disassociates the current Security Hub CSPM member account from the associated administrator account.

This operation is only used by accounts that are not part of an organization. For organization accounts, only the administrator account can disassociate a member account.

Request Syntax

```
POST /administrator/disassociate HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DisassociateFromMasterAccount

This method is deprecated. Instead, use `DisassociateFromAdministratorAccount`.

The Security Hub CSPM console continues to use `DisassociateFromMasterAccount`. It will eventually change to use `DisassociateFromAdministratorAccount`. Any IAM policies that specifically control access to this function must continue to use `DisassociateFromMasterAccount`. You should also add `DisassociateFromAdministratorAccount` to your policies to ensure that the correct permissions are in place after the console begins to use `DisassociateFromAdministratorAccount`.

Disassociates the current Security Hub CSPM member account from the associated administrator account.

This operation is only used by accounts that are not part of an organization. For organization accounts, only the administrator account can disassociate a member account.

Request Syntax

```
POST /master/disassociate HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DisassociateMembers

Disassociates the specified member accounts from the associated administrator account.

Can be used to disassociate both accounts that are managed using Organizations and accounts that were invited manually.

Request Syntax

```
POST /members/disassociate HTTP/1.1
Content-type: application/json

{
   "AccountIds": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AccountIds

The account IDs of the member accounts to disassociate from the administrator account.

Type: Array of strings

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

EnableImportFindingsForProduct

Enables the integration of a partner product with Security Hub CSPM. Integrated products send findings to Security Hub CSPM.

When you enable a product integration, a permissions policy that grants permission for the product to send findings to Security Hub CSPM is applied.

Request Syntax

```
POST /productSubscriptions HTTP/1.1
Content-type: application/json

{
   "ProductArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ProductArn

The ARN of the product to enable the integration for.

Type: String

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
    "ProductSubscriptionArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ProductSubscriptionArn

The ARN of your subscription to the product to enable integrations for.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

EnableOrganizationAdminAccount

Designates the Security Hub CSPM administrator account for an organization. Can only be called by the organization management account.

Request Syntax

```
POST /organization/admin/enable HTTP/1.1
Content-type: application/json

{
   "AdminAccountId": "string",
   "Feature": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AdminAccountId

The AWS account identifier of the account to designate as the Security Hub CSPM administrator account.

Type: String

Pattern: `.*\S.*`

Required: Yes

Feature

The feature for which the delegated admin account is enabled. Defaults to Security Hub CSPM if not specified.

Type: String

Valid Values: `SecurityHub | SecurityHubV2`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "AdminAccountId": "string",
   "Feature": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AdminAccountId

The AWS account identifier of the account to designate as the Security Hub CSPM administrator account.

Type: String

Pattern: `.*\S.*`

Feature

The feature where the delegated administrator is enabled. The default is Security Hub CSPM CSPM if no delegated administrator is specified in the request.

Type: String

Valid Values: `SecurityHub | SecurityHubV2`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

EnableSecurityHub

Enables Security Hub CSPM for your account in the current Region or the Region you specify in the request.

When you enable Security Hub CSPM, you grant to Security Hub CSPM the permissions necessary to gather findings from other services that are integrated with Security Hub CSPM.

When you use the `EnableSecurityHub` operation to enable Security Hub CSPM, you also automatically enable the following standards:

- Center for Internet Security (CIS) AWS Foundations Benchmark v1.2.0
- AWS Foundational Security Best Practices

Other standards are not automatically enabled.

To opt out of automatically enabled standards, set `EnableDefaultStandards` to `false`.

After you enable Security Hub CSPM, to enable a standard, use the `BatchEnableStandards` operation. To disable a standard, use the `BatchDisableStandards` operation.

To learn more, see the setup information in the *AWS Security Hub CSPM User Guide*.

Request Syntax

```
POST /accounts HTTP/1.1
Content-type: application/json

{
   "ControlFindingGenerator": "string",
   "EnableDefaultStandards": boolean,
   "Tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ControlFindingGenerator

This field, used when enabling Security Hub CSPM, specifies whether the calling account has consolidated control findings turned on. If the value for this field is set to `SECURITY_CONTROL`, Security Hub CSPM generates a single finding for a control check even when the check applies to multiple enabled standards.

If the value for this field is set to `STANDARD_CONTROL`, Security Hub CSPM generates separate findings for a control check when the check applies to multiple enabled standards.

The value for this field in a member account matches the value in the administrator account. For accounts that aren't part of an organization, the default value of this field is `SECURITY_CONTROL` if you enabled Security Hub CSPM on or after February 23, 2023.

Type: String

Valid Values: `STANDARD_CONTROL` | `SECURITY_CONTROL`

Required: No

EnableDefaultStandards

Whether to enable the security standards that Security Hub CSPM has designated as automatically enabled. If you don't provide a value for `EnableDefaultStandards`, it is set to `true`. To not enable the automatically enabled standards, set `EnableDefaultStandards` to `false`.

Type: Boolean

Required: No

Tags

The tags to add to the hub resource when you enable Security Hub CSPM.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

EnableSecurityHubV2

Enables the service in account for the current AWS Region or specified AWS Region.

Request Syntax

```
POST /hubv2 HTTP/1.1
Content-type: application/json

{
   "Tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Tags

The tags to add to the hub V2 resource when you enable Security Hub CSPM.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "HubV2Arn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

HubV2Arn

The ARN of the V2 resource that was created.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetAdministratorAccount

Provides the details for the Security Hub CSPM administrator account for the current member account.

Can be used by both member accounts that are managed using Organizations and accounts that were invited manually.

Request Syntax

```
GET /administrator HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Administrator": {
      "AccountId": "string",
      "InvitationId": "string",
      "InvitedAt": "string",
      "MemberStatus": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Administrator

Details about an invitation.

Type: Invitation object

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetAggregatorV2

Returns the configuration of the specified Aggregator V2.

Request Syntax

```
GET /aggregatorv2/get/AggregatorV2Arn+ HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

AggregatorV2Arn

The ARN of the Aggregator V2.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "AggregationRegion": "string",
   "AggregatorV2Arn": "string",
   "LinkedRegions": [ "string" ],
   "RegionLinkingMode": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AggregationRegion

The AWS Region where data is aggregated.

Type: String

Pattern: `.*\S.*`

AggregatorV2Arn

The ARN of the Aggregator V2.

Type: String

Pattern: `.*\S.*`

LinkedRegions

The list of Regions that are linked to the aggregation Region.

Type: Array of strings

Pattern: `.*\S.*`

RegionLinkingMode

Determines how Regions are linked to an Aggregator V2.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetAutomationRuleV2

Returns an automation rule for the V2 service.

Request Syntax

```
GET /automationrulesv2/Identifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Identifier

The ARN of the V2 automation rule.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Actions": [
      {
         "ExternalIntegrationConfiguration": {
            "ConnectorArn": "string"
         },
         "FindingFieldsUpdate": {
            "Comment": "string",
            "SeverityId": number,
            "StatusId": number
         },
         "Type": "string"
```

```
        }
    ],
    "CreatedAt": "string",
    "Criteria": { ... },
    "Description": "string",
    "RuleArn": "string",
    "RuleId": "string",
    "RuleName": "string",
    "RuleOrder": number,
    "RuleStatus": "string",
    "UpdatedAt": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Actions

A list of actions performed when the rule criteria is met.

Type: Array of AutomationRulesActionV2 objects

Array Members: Fixed number of 1 item.

CreatedAt

The timestamp when the V2 automation rule was created.

Type: Timestamp

Criteria

The filtering type and configuration of the V2 automation rule.

Type: Criteria object

Note: This object is a Union. Only one member of this object can be specified or returned.

Description

A description of the automation rule.

Type: String

Pattern: `.*\S.*`

RuleArn

The ARN of the V2 automation rule.

Type: String

Pattern: `.*\S.*`

RuleId

The ID of the V2 automation rule.

Type: String

Pattern: `.*\S.*`

RuleName

The name of the V2 automation rule.

Type: String

Pattern: `.*\S.*`

RuleOrder

The value for the rule priority.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 1000.0.

RuleStatus

The status of the V2 automation automation rule.

Type: String

Valid Values: `ENABLED | DISABLED`

UpdatedAt

The timestamp when the V2 automation rule was updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetConfigurationPolicy

Provides information about a configuration policy. Only the AWS Security Hub CSPM delegated administrator can invoke this operation from the home Region.

Request Syntax

```
GET /configurationPolicy/get/Identifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Identifier

The Amazon Resource Name (ARN) or universally unique identifier (UUID) of the configuration policy.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Arn": "string",
   "ConfigurationPolicy": { ... },
   "CreatedAt": "string",
   "Description": "string",
   "Id": "string",
   "Name": "string",
   "UpdatedAt": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Arn

The ARN of the configuration policy.

Type: String

Pattern: `.*\S.*`

ConfigurationPolicy

An object that defines how Security Hub CSPM is configured. It includes whether Security Hub CSPM is enabled or disabled, a list of enabled security standards, a list of enabled or disabled security controls, and a list of custom parameter values for specified controls. If the policy includes a list of security controls that are enabled, Security Hub CSPM disables all other controls (including newly released controls). If the policy includes a list of security controls that are disabled, Security Hub CSPM enables all other controls (including newly released controls).

Type: Policy object

Note: This object is a Union. Only one member of this object can be specified or returned.

CreatedAt

The date and time, in UTC and ISO 8601 format, that the configuration policy was created.

Type: Timestamp

Description

The description of the configuration policy.

Type: String

Pattern: `.*\S.*`

Id

The UUID of the configuration policy.

Type: String

Pattern: `.*\S.*`

Name

The name of the configuration policy.

Type: String

Pattern: `.*\S.*`

UpdatedAt

The date and time, in UTC and ISO 8601 format, that the configuration policy was last updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetConfigurationPolicyAssociation

Returns the association between a configuration and a target account, organizational unit, or the root. The configuration can be a configuration policy or self-managed behavior. Only the AWS Security Hub CSPM delegated administrator can invoke this operation from the home Region.

Request Syntax

```
POST /configurationPolicyAssociation/get HTTP/1.1
Content-type: application/json

{
   "Target": { ... }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Target

The target account ID, organizational unit ID, or the root ID to retrieve the association for.

Type: Target object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "AssociationStatus": "string",
```

```
    "AssociationStatusMessage": "string",
    "AssociationType": "string",
    "ConfigurationPolicyId": "string",
    "TargetId": "string",
    "TargetType": "string",
    "UpdatedAt": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AssociationStatus

The current status of the association between the specified target and the configuration.

Type: String

Valid Values: `PENDING | SUCCESS | FAILED`

AssociationStatusMessage

The explanation for a `FAILED` value for `AssociationStatus`.

Type: String

Pattern: `.*\S.*`

AssociationType

Indicates whether the association between the specified target and the configuration was directly applied by the Security Hub CSPM delegated administrator or inherited from a parent.

Type: String

Valid Values: `INHERITED | APPLIED`

ConfigurationPolicyId

The universally unique identifier (UUID) of a configuration policy. For self-managed behavior, the value is `SELF_MANAGED_SECURITY_HUB`.

Type: String

Pattern: `.*\S.*`

TargetId

The target account ID, organizational unit ID, or the root ID for which the association is retrieved.

Type: String

Pattern: `.*\S.*`

TargetType

Specifies whether the target is an AWS account, organizational unit, or the organization root.

Type: String

Valid Values: `ACCOUNT | ORGANIZATIONAL_UNIT | ROOT`

UpdatedAt

The date and time, in UTC and ISO 8601 format, that the configuration policy association was last updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetConnectorV2

Grants permission to retrieve details for a connectorV2 based on connector id.

Request Syntax

```
GET /connectorsv2/ConnectorId+ HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ConnectorId

The UUID of the connectorV2 to identify connectorV2 resource.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "ConnectorArn": "string",
   "ConnectorId": "string",
   "CreatedAt": "string",
   "Description": "string",
   "Health": {
      "ConnectorStatus": "string",
      "LastCheckedAt": "string",
      "Message": "string"
   },
   "KmsKeyArn": "string",
```

```
    "LastUpdatedAt": "string",
    "Name": "string",
    "ProviderDetail": { ... }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ConnectorArn

The Amazon Resource Name (ARN) of the connectorV2.

Type: String

Pattern: `.*\S.*`

ConnectorId

The UUID of the connectorV2 to identify connectorV2 resource.

Type: String

Pattern: `.*\S.*`

CreatedAt

ISO 8601 UTC timestamp for the time create the connectorV2.

Type: Timestamp

Description

The description of the connectorV2.

Type: String

Pattern: `.*\S.*`

Health

The current health status for connectorV2

Type: HealthCheck object

KmsKeyArn

The Amazon Resource Name (ARN) of KMS key used for the connectorV2.

Type: String

Pattern: `.*\S.*`

LastUpdatedAt

ISO 8601 UTC timestamp for the time update the connectorV2 connectorStatus.

Type: Timestamp

Name

The name of the connectorV2.

Type: String

Pattern: `.*\S.*`

ProviderDetail

The third-party provider detail for a service configuration.

Type: ProviderDetail object

Note: This object is a Union. Only one member of this object can be specified or returned.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetEnabledStandards

Returns a list of the standards that are currently enabled.

Request Syntax

```
POST /standards/get HTTP/1.1
Content-type: application/json

{
   "MaxResults": number,
   "NextToken": "string",
   "StandardsSubscriptionArns": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

MaxResults

The maximum number of results to return in the response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

The token that is required for pagination. On your first call to the `GetEnabledStandards` operation, set the value of this parameter to `NULL`.

For subsequent calls to the operation, to continue listing data, set the value of this parameter to the value returned from the previous response.

Type: String

Required: No

StandardsSubscriptionArns

The list of the standards subscription ARNs for the standards to retrieve.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Pattern: `.*\S.*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "NextToken": "string",
   "StandardsSubscriptions": [
      {
         "StandardsArn": "string",
         "StandardsControlsUpdatable": "string",
         "StandardsInput": {
            "string" : "string"
         },
         "StandardsStatus": "string",
         "StandardsStatusReason": {
            "StatusReasonCode": "string"
         },
         "StandardsSubscriptionArn": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

The pagination token to use to request the next page of results.

Type: String

StandardsSubscriptions

The list of `StandardsSubscriptions` objects that include information about the enabled standards.

Type: Array of StandardsSubscription objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetFindingAggregator

> **Note**
>
> The *aggregation Region* is now called the *home Region*.

Returns the current configuration in the calling account for cross-Region aggregation. A finding aggregator is a resource that establishes the home Region and any linked Regions.

Request Syntax

```
GET /findingAggregator/get/FindingAggregatorArn+ HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

FindingAggregatorArn

The ARN of the finding aggregator to return details for. To obtain the ARN, use `ListFindingAggregators`.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "FindingAggregationRegion": "string",
```

```
    "FindingAggregatorArn": "string",
    "RegionLinkingMode": "string",
    "Regions": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

FindingAggregationRegion

The home Region. Findings generated in linked Regions are replicated and sent to the home Region.

Type: String

Pattern: `.*\S.*`

FindingAggregatorArn

The ARN of the finding aggregator.

Type: String

Pattern: `.*\S.*`

RegionLinkingMode

Indicates whether to link all Regions, all Regions except for a list of excluded Regions, or a list of included Regions.

Type: String

Pattern: `.*\S.*`

Regions

The list of excluded Regions or included Regions.

Type: Array of strings

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetFindingHistory

Returns the history of a Security Hub CSPM finding. The history includes changes made to any fields in the AWS Security Finding Format (ASFF) except top-level timestamp fields, such as the `CreatedAt` and `UpdatedAt` fields.

This operation might return fewer results than the maximum number of results (`MaxResults`) specified in a request, even when more results are available. If this occurs, the response includes a `NextToken` value, which you should use to retrieve the next set of results in the response. The presence of a `NextToken` value in a response doesn't necessarily indicate that the results are incomplete. However, you should continue to specify a `NextToken` value until you receive a response that doesn't include this value.

Request Syntax

```
POST /findingHistory/get HTTP/1.1
Content-type: application/json

{
   "EndTime": "string",
   "FindingIdentifier": {
      "Id": "string",
      "ProductArn": "string"
   },
   "MaxResults": number,
   "NextToken": "string",
   "StartTime": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

EndTime

An ISO 8601-formatted timestamp that indicates the end time of the requested finding history.

If you provide values for both `StartTime` and `EndTime`, Security Hub CSPM returns finding history for the specified time period. If you provide a value for `StartTime` but not for `EndTime`, Security Hub CSPM returns finding history from the `StartTime` to the time at which the API is called. If you provide a value for `EndTime` but not for `StartTime`, Security Hub CSPM returns finding history from the CreatedAt timestamp of the finding to the `EndTime`. If you provide neither `StartTime` nor `EndTime`, Security Hub CSPM returns finding history from the `CreatedAt` timestamp of the finding to the time at which the API is called. In all of these scenarios, the response is limited to 100 results.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Timestamp

Required: No

FindingIdentifier

Identifies which finding to get the finding history for.

Type: AwsSecurityFindingIdentifier object

Required: Yes

MaxResults

The maximum number of results to be returned. If you don't provide it, Security Hub CSPM returns up to 100 results of finding history.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

A token for pagination purposes. Provide `NULL` as the initial value. In subsequent requests, provide the token included in the response to get up to an additional 100 results of finding history. If you don't provide `NextToken`, Security Hub CSPM returns up to 100 results of finding history for each request.

Type: String

Required: No

StartTime

A timestamp that indicates the start time of the requested finding history.

If you provide values for both `StartTime` and `EndTime`, AWS Security Hub CSPM returns finding history for the specified time period. If you provide a value for `StartTime` but not for `EndTime`, Security Hub CSPM returns finding history from the `StartTime` to the time at which the API is called. If you provide a value for `EndTime` but not for `StartTime`, Security Hub CSPM returns finding history from the CreatedAt timestamp of the finding to the `EndTime`. If you provide neither `StartTime` nor `EndTime`, Security Hub CSPM returns finding history from the `CreatedAt` timestamp of the finding to the time at which the API is called. In all of these scenarios, the response is limited to 100 results.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Timestamp

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "NextToken": "string",
   "Records": [
      {
         "FindingCreated": boolean,
         "FindingIdentifier": {
            "Id": "string",
            "ProductArn": "string"
         },
         "NextToken": "string",
         "Updates": [
            {
               "NewValue": "string",
               "OldValue": "string",
               "UpdatedField": "string"
```

```
            }
         ],
         "UpdateSource": {
            "Identity": "string",
            "Type": "string"
         },
         "UpdateTime": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A token for pagination purposes. Provide this token in the subsequent request to `GetFindingsHistory` to get up to an additional 100 results of history for the same finding that you specified in your initial request.

Type: String

Records

A list of events that altered the specified finding during the specified time period.

Type: Array of FindingHistoryRecord objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetFindings

Returns a list of findings that match the specified criteria.

If cross-Region aggregation is enabled, then when you call `GetFindings` from the home Region, the results include all of the matching findings from both the home Region and linked Regions.

Request Syntax

```
POST /findings HTTP/1.1
Content-type: application/json

{
   "Filters": {
      "AwsAccountId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "AwsAccountName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "CompanyName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ComplianceAssociatedStandardsId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ComplianceSecurityControlId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
```

```
        ],
        "ComplianceSecurityControlParametersName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ComplianceSecurityControlParametersValue": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ComplianceStatus": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Confidence": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
              "Lte": number
           }
        ],
        "CreatedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
              "Start": "string"
           }
        ],
        "Criticality": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
```

```
            "Lte": number
         }
      ],
      "Description": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "FindingProviderFieldsConfidence": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "FindingProviderFieldsCriticality": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "FindingProviderFieldsRelatedFindingsId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "FindingProviderFieldsRelatedFindingsProductArn": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "FindingProviderFieldsSeverityLabel": [
         {
            "Comparison": "string",
            "Value": "string"
         }
```

```
        ],
        "FindingProviderFieldsSeverityOriginal": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "FindingProviderFieldsTypes": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "FirstObservedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
              "Start": "string"
           }
        ],
        "GeneratorId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Id": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Keyword": [
           {
              "Value": "string"
           }
        ],
        "LastObservedAt": [
           {
              "DateRange": {
                 "Unit": "string",
```

```
                "Value": number
            },
            "End": "string",
            "Start": "string"
        }
    ],
    "MalwareName": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "MalwarePath": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "MalwareState": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "MalwareType": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "NetworkDestinationDomain": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "NetworkDestinationIpV4": [
        {
            "Cidr": "string"
        }
    ],
    "NetworkDestinationIpV6": [
        {
            "Cidr": "string"
```

```
            }
        ],
        "NetworkDestinationPort": [
            {
                "Eq": number,
                "Gt": number,
                "Gte": number,
                "Lt": number,
                "Lte": number
            }
        ],
        "NetworkDirection": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkProtocol": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkSourceDomain": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkSourceIpV4": [
            {
                "Cidr": "string"
            }
        ],
        "NetworkSourceIpV6": [
            {
                "Cidr": "string"
            }
        ],
        "NetworkSourceMac": [
            {
                "Comparison": "string",
                "Value": "string"
            }
```

```
        ],
        "NetworkSourcePort": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
              "Lte": number
           }
        ],
        "NoteText": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "NoteUpdatedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
              "Start": "string"
           }
        ],
        "NoteUpdatedBy": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ProcessLaunchedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
              "Start": "string"
           }
        ],
        "ProcessName": [
           {
```

```
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ProcessParentPid": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "ProcessPath": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ProcessPid": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "ProcessTerminatedAt": [
         {
            "DateRange": {
               "Unit": "string",
               "Value": number
            },
            "End": "string",
            "Start": "string"
         }
      ],
      "ProductArn": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
```

```
        "ProductFields": [
           {
              "Comparison": "string",
              "Key": "string",
              "Value": "string"
           }
        ],
        "ProductName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "RecommendationText": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "RecordState": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Region": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "RelatedFindingsId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "RelatedFindingsProductArn": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceApplicationArn": [
```

```
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceApplicationName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceIamInstanceProfileArn": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceImageId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceIpV4Addresses": [
            {
                "Cidr": "string"
            }
        ],
        "ResourceAwsEc2InstanceIpV6Addresses": [
            {
                "Cidr": "string"
            }
        ],
        "ResourceAwsEc2InstanceKeyName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceLaunchedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
```

```
            },
            "End": "string",
            "Start": "string"
         }
      ],
      "ResourceAwsEc2InstanceSubnetId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceAwsEc2InstanceType": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceAwsEc2InstanceVpcId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceAwsIamAccessKeyCreatedAt": [
         {
            "DateRange": {
               "Unit": "string",
               "Value": number
            },
            "End": "string",
            "Start": "string"
         }
      ],
      "ResourceAwsIamAccessKeyPrincipalName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceAwsIamAccessKeyStatus": [
         {
            "Comparison": "string",
            "Value": "string"
         }
```

```
        ],
        "ResourceAwsIamAccessKeyUserName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceAwsIamUserUserName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceAwsS3BucketOwnerId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceAwsS3BucketOwnerName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceContainerImageId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceContainerImageName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceContainerLaunchedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
```

```
            "Start": "string"
         }
      ],
      "ResourceContainerName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceDetailsOther": [
         {
            "Comparison": "string",
            "Key": "string",
            "Value": "string"
         }
      ],
      "ResourceId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourcePartition": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceRegion": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceTags": [
         {
            "Comparison": "string",
            "Key": "string",
            "Value": "string"
         }
      ],
      "ResourceType": [
         {
            "Comparison": "string",
```

```
            "Value": "string"
         }
      ],
      "Sample": [
         {
            "Value": boolean
         }
      ],
      "SeverityLabel": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "SeverityNormalized": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "SeverityProduct": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "SourceUrl": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ThreatIntelIndicatorCategory": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
```

```
        "ThreatIntelIndicatorLastObservedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
              "Start": "string"
           }
        ],
        "ThreatIntelIndicatorSource": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ThreatIntelIndicatorSourceUrl": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ThreatIntelIndicatorType": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ThreatIntelIndicatorValue": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Title": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Type": [
           {
              "Comparison": "string",
              "Value": "string"
```

```
            }
        ],
        "UpdatedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "UserDefinedFields": [
            {
                "Comparison": "string",
                "Key": "string",
                "Value": "string"
            }
        ],
        "VerificationState": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "VulnerabilitiesExploitAvailable": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "VulnerabilitiesFixAvailable": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "WorkflowState": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "WorkflowStatus": [
```

```
            {
               "Comparison": "string",
               "Value": "string"
            }
         ]
      },
      "MaxResults": number,
      "NextToken": "string",
      "SortCriteria": [
         {
            "Field": "string",
            "SortOrder": "string"
         }
      ]
   }
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Filters

The finding attributes used to define a condition to filter the returned findings.

You can filter by up to 10 finding attributes. For each attribute, you can provide up to 20 filter values.

Note that in the available filter fields, `WorkflowState` is deprecated. To search for a finding based on its workflow status, use `WorkflowStatus`.

Type: AwsSecurityFindingFilters object

Required: No

MaxResults

The maximum number of findings to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

The token that is required for pagination. On your first call to the `GetFindings` operation, set the value of this parameter to `NULL`.

For subsequent calls to the operation, to continue listing data, set the value of this parameter to the value returned from the previous response.

Type: String

Required: No

SortCriteria

The finding attributes used to sort the list of returned findings.

Type: Array of SortCriterion objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Findings": [
      {
         "Action": {
            "ActionType": "string",
            "AwsApiCallAction": {
               "AffectedResources": {
                  "string" : "string"
               },
               "Api": "string",
               "CallerType": "string",
               "DomainDetails": {
                  "Domain": "string"
               },
               "FirstSeen": "string",
               "LastSeen": "string",
               "RemoteIpDetails": {
```

```
                "City": {
                   "CityName": "string"
                },
                "Country": {
                   "CountryCode": "string",
                   "CountryName": "string"
                },
                "GeoLocation": {
                   "Lat": number,
                   "Lon": number
                },
                "IpAddressV4": "string",
                "Organization": {
                   "Asn": number,
                   "AsnOrg": "string",
                   "Isp": "string",
                   "Org": "string"
                }
             },
             "ServiceName": "string"
          },
          "DnsRequestAction": {
             "Blocked": boolean,
             "Domain": "string",
             "Protocol": "string"
          },
          "NetworkConnectionAction": {
             "Blocked": boolean,
             "ConnectionDirection": "string",
             "LocalPortDetails": {
                "Port": number,
                "PortName": "string"
             },
             "Protocol": "string",
             "RemoteIpDetails": {
                "City": {
                   "CityName": "string"
                },
                "Country": {
                   "CountryCode": "string",
                   "CountryName": "string"
                },
                "GeoLocation": {
                   "Lat": number,
```

```
                "Lon": number
            },
            "IpAddressV4": "string",
            "Organization": {
                "Asn": number,
                "AsnOrg": "string",
                "Isp": "string",
                "Org": "string"
            }
        },
        "RemotePortDetails": {
            "Port": number,
            "PortName": "string"
        }
    },
    "PortProbeAction": {
        "Blocked": boolean,
        "PortProbeDetails": [
            {
                "LocalIpDetails": {
                    "IpAddressV4": "string"
                },
                "LocalPortDetails": {
                    "Port": number,
                    "PortName": "string"
                },
                "RemoteIpDetails": {
                    "City": {
                        "CityName": "string"
                    },
                    "Country": {
                        "CountryCode": "string",
                        "CountryName": "string"
                    },
                    "GeoLocation": {
                        "Lat": number,
                        "Lon": number
                    },
                    "IpAddressV4": "string",
                    "Organization": {
                        "Asn": number,
                        "AsnOrg": "string",
                        "Isp": "string",
                        "Org": "string"
```

```
                        }
                    }
                }
            ]
        }
    },
    "AwsAccountId": "string",
    "AwsAccountName": "string",
    "CompanyName": "string",
    "Compliance": {
        "AssociatedStandards": [
            {
                "StandardsId": "string"
            }
        ],
        "RelatedRequirements": [ "string" ],
        "SecurityControlId": "string",
        "SecurityControlParameters": [
            {
                "Name": "string",
                "Value": [ "string" ]
            }
        ],
        "Status": "string",
        "StatusReasons": [
            {
                "Description": "string",
                "ReasonCode": "string"
            }
        ]
    },
    "Confidence": number,
    "CreatedAt": "string",
    "Criticality": number,
    "Description": "string",
    "Detection": {
        "Sequence": {
            "Actors": [
                {
                    "Id": "string",
                    "Session": {
                        "CreatedTime": number,
                        "Issuer": "string",
                        "MfaStatus": "string",
```

```
                "Uid": "string"
            },
            "User": {
                "Account": {
                    "Name": "string",
                    "Uid": "string"
                },
                "CredentialUid": "string",
                "Name": "string",
                "Type": "string",
                "Uid": "string"
            }
        }
    ],
    "Endpoints": [
        {
            "AutonomousSystem": {
                "Name": "string",
                "Number": number
            },
            "Connection": {
                "Direction": "string"
            },
            "Domain": "string",
            "Id": "string",
            "Ip": "string",
            "Location": {
                "City": "string",
                "Country": "string",
                "Lat": number,
                "Lon": number
            },
            "Port": number
        }
    ],
    "SequenceIndicators": [
        {
            "Key": "string",
            "Title": "string",
            "Type": "string",
            "Values": [ "string" ]
        }
    ],
    "Signals": [
```

```
                {
                   "ActorIds": [ "string" ],
                   "Count": number,
                   "CreatedAt": number,
                   "EndpointIds": [ "string" ],
                   "FirstSeenAt": number,
                   "Id": "string",
                   "LastSeenAt": number,
                   "Name": "string",
                   "ProductArn": "string",
                   "ResourceIds": [ "string" ],
                   "Severity": number,
                   "SignalIndicators": [
                      {
                         "Key": "string",
                         "Title": "string",
                         "Type": "string",
                         "Values": [ "string" ]
                      }
                   ],
                   "Title": "string",
                   "Type": "string",
                   "UpdatedAt": number
                }
             ],
             "Uid": "string"
          }
       },
       "FindingProviderFields": {
          "Confidence": number,
          "Criticality": number,
          "RelatedFindings": [
             {
                "Id": "string",
                "ProductArn": "string"
             }
          ],
          "Severity": {
             "Label": "string",
             "Original": "string"
          },
          "Types": [ "string" ]
       },
       "FirstObservedAt": "string",
```

```
        "GeneratorDetails": {
           "Description": "string",
           "Labels": [ "string" ],
           "Name": "string"
        },
        "GeneratorId": "string",
        "Id": "string",
        "LastObservedAt": "string",
        "Malware": [
           {
              "Name": "string",
              "Path": "string",
              "State": "string",
              "Type": "string"
           }
        ],
        "Network": {
           "DestinationDomain": "string",
           "DestinationIpV4": "string",
           "DestinationIpV6": "string",
           "DestinationPort": number,
           "Direction": "string",
           "OpenPortRange": {
              "Begin": number,
              "End": number
           },
           "Protocol": "string",
           "SourceDomain": "string",
           "SourceIpV4": "string",
           "SourceIpV6": "string",
           "SourceMac": "string",
           "SourcePort": number
        },
        "NetworkPath": [
           {
              "ComponentId": "string",
              "ComponentType": "string",
              "Egress": {
                 "Destination": {
                    "Address": [ "string" ],
                    "PortRanges": [
                       {
                          "Begin": number,
                          "End": number
```

```
                    }
                ]
            },
            "Protocol": "string",
            "Source": {
                "Address": [ "string" ],
                "PortRanges": [
                    {
                        "Begin": number,
                        "End": number
                    }
                ]
            }
        },
        "Ingress": {
            "Destination": {
                "Address": [ "string" ],
                "PortRanges": [
                    {
                        "Begin": number,
                        "End": number
                    }
                ]
            },
            "Protocol": "string",
            "Source": {
                "Address": [ "string" ],
                "PortRanges": [
                    {
                        "Begin": number,
                        "End": number
                    }
                ]
            }
        }
    }
],
"Note": {
    "Text": "string",
    "UpdatedAt": "string",
    "UpdatedBy": "string"
},
"PatchSummary": {
    "FailedCount": number,
```

```
            "Id": "string",
            "InstalledCount": number,
            "InstalledOtherCount": number,
            "InstalledPendingReboot": number,
            "InstalledRejectedCount": number,
            "MissingCount": number,
            "Operation": "string",
            "OperationEndTime": "string",
            "OperationStartTime": "string",
            "RebootOption": "string"
         },
         "Process": {
            "LaunchedAt": "string",
            "Name": "string",
            "ParentPid": number,
            "Path": "string",
            "Pid": number,
            "TerminatedAt": "string"
         },
         "ProcessedAt": "string",
         "ProductArn": "string",
         "ProductFields": {
            "string" : "string"
         },
         "ProductName": "string",
         "RecordState": "string",
         "Region": "string",
         "RelatedFindings": [
            {
               "Id": "string",
               "ProductArn": "string"
            }
         ],
         "Remediation": {
            "Recommendation": {
               "Text": "string",
               "Url": "string"
            }
         },
         "Resources": [
            {
               "ApplicationArn": "string",
               "ApplicationName": "string",
               "DataClassification": {
```

```
                "DetailedResultsLocation": "string",
                "Result": {
                   "AdditionalOccurrences": boolean,
                   "CustomDataIdentifiers": {
                      "Detections": [
                         {
                            "Arn": "string",
                            "Count": number,
                            "Name": "string",
                            "Occurrences": {
                               "Cells": [
                                  {
                                     "CellReference": "string",
                                     "Column": number,
                                     "ColumnName": "string",
                                     "Row": number
                                  }
                               ],
                               "LineRanges": [
                                  {
                                     "End": number,
                                     "Start": number,
                                     "StartColumn": number
                                  }
                               ],
                               "OffsetRanges": [
                                  {
                                     "End": number,
                                     "Start": number,
                                     "StartColumn": number
                                  }
                               ],
                               "Pages": [
                                  {
                                     "LineRange": {
                                        "End": number,
                                        "Start": number,
                                        "StartColumn": number
                                     },
                                     "OffsetRange": {
                                        "End": number,
                                        "Start": number,
                                        "StartColumn": number
                                     },
```

```
                                "PageNumber": number
                            }
                        ],
                        "Records": [
                            {
                                "JsonPath": "string",
                                "RecordIndex": number
                            }
                        ]
                    }
                }
            ],
            "TotalCount": number
        },
        "MimeType": "string",
        "SensitiveData": [
            {
                "Category": "string",
                "Detections": [
                    {
                        "Count": number,
                        "Occurrences": {
                            "Cells": [
                                {
                                    "CellReference": "string",
                                    "Column": number,
                                    "ColumnName": "string",
                                    "Row": number
                                }
                            ],
                            "LineRanges": [
                                {
                                    "End": number,
                                    "Start": number,
                                    "StartColumn": number
                                }
                            ],
                            "OffsetRanges": [
                                {
                                    "End": number,
                                    "Start": number,
                                    "StartColumn": number
                                }
                            ],
```

```
                                    "Pages": [
                                       {
                                          "LineRange": {
                                             "End": number,
                                             "Start": number,
                                             "StartColumn": number
                                          },
                                          "OffsetRange": {
                                             "End": number,
                                             "Start": number,
                                             "StartColumn": number
                                          },
                                          "PageNumber": number
                                       }
                                    ],
                                    "Records": [
                                       {
                                          "JsonPath": "string",
                                          "RecordIndex": number
                                       }
                                    ]
                                 },
                                 "Type": "string"
                              }
                           ],
                           "TotalCount": number
                        }
                     ],
                     "SizeClassified": number,
                     "Status": {
                        "Code": "string",
                        "Reason": "string"
                     }
                  }
               },
               "Details": {
                  "AwsAmazonMqBroker": {
                     "AuthenticationStrategy": "string",
                     "AutoMinorVersionUpgrade": boolean,
                     "BrokerArn": "string",
                     "BrokerId": "string",
                     "BrokerName": "string",
                     "DeploymentMode": "string",
                     "EncryptionOptions": {
```

```
                "KmsKeyId": "string",
                "UseAwsOwnedKey": boolean
            },
            "EngineType": "string",
            "EngineVersion": "string",
            "HostInstanceType": "string",
            "LdapServerMetadata": {
                "Hosts": [ "string" ],
                "RoleBase": "string",
                "RoleName": "string",
                "RoleSearchMatching": "string",
                "RoleSearchSubtree": boolean,
                "ServiceAccountUsername": "string",
                "UserBase": "string",
                "UserRoleName": "string",
                "UserSearchMatching": "string",
                "UserSearchSubtree": boolean
            },
            "Logs": {
                "Audit": boolean,
                "AuditLogGroup": "string",
                "General": boolean,
                "GeneralLogGroup": "string",
                "Pending": {
                    "Audit": boolean,
                    "General": boolean
                }
            },
            "MaintenanceWindowStartTime": {
                "DayOfWeek": "string",
                "TimeOfDay": "string",
                "TimeZone": "string"
            },
            "PubliclyAccessible": boolean,
            "SecurityGroups": [ "string" ],
            "StorageType": "string",
            "SubnetIds": [ "string" ],
            "Users": [
                {
                    "PendingChange": "string",
                    "Username": "string"
                }
            ]
        },
```

```
                "AwsApiGatewayRestApi": {
                   "ApiKeySource": "string",
                   "BinaryMediaTypes": [ "string" ],
                   "CreatedDate": "string",
                   "Description": "string",
                   "EndpointConfiguration": {
                      "Types": [ "string" ]
                   },
                   "Id": "string",
                   "MinimumCompressionSize": number,
                   "Name": "string",
                   "Version": "string"
                },
                "AwsApiGatewayStage": {
                   "AccessLogSettings": {
                      "DestinationArn": "string",
                      "Format": "string"
                   },
                   "CacheClusterEnabled": boolean,
                   "CacheClusterSize": "string",
                   "CacheClusterStatus": "string",
                   "CanarySettings": {
                      "DeploymentId": "string",
                      "PercentTraffic": number,
                      "StageVariableOverrides": {
                         "string" : "string"
                      },
                      "UseStageCache": boolean
                   },
                   "ClientCertificateId": "string",
                   "CreatedDate": "string",
                   "DeploymentId": "string",
                   "Description": "string",
                   "DocumentationVersion": "string",
                   "LastUpdatedDate": "string",
                   "MethodSettings": [
                      {
                         "CacheDataEncrypted": boolean,
                         "CacheTtlInSeconds": number,
                         "CachingEnabled": boolean,
                         "DataTraceEnabled": boolean,
                         "HttpMethod": "string",
                         "LoggingLevel": "string",
                         "MetricsEnabled": boolean,
```

```
                "RequireAuthorizationForCacheControl": boolean,
                "ResourcePath": "string",
                "ThrottlingBurstLimit": number,
                "ThrottlingRateLimit": number,
                "UnauthorizedCacheControlHeaderStrategy": "string"
            }
        ],
        "StageName": "string",
        "TracingEnabled": boolean,
        "Variables": {
            "string" : "string"
        },
        "WebAclArn": "string"
    },
    "AwsApiGatewayV2Api": {
        "ApiEndpoint": "string",
        "ApiId": "string",
        "ApiKeySelectionExpression": "string",
        "CorsConfiguration": {
            "AllowCredentials": boolean,
            "AllowHeaders": [ "string" ],
            "AllowMethods": [ "string" ],
            "AllowOrigins": [ "string" ],
            "ExposeHeaders": [ "string" ],
            "MaxAge": number
        },
        "CreatedDate": "string",
        "Description": "string",
        "Name": "string",
        "ProtocolType": "string",
        "RouteSelectionExpression": "string",
        "Version": "string"
    },
    "AwsApiGatewayV2Stage": {
        "AccessLogSettings": {
            "DestinationArn": "string",
            "Format": "string"
        },
        "ApiGatewayManaged": boolean,
        "AutoDeploy": boolean,
        "ClientCertificateId": "string",
        "CreatedDate": "string",
        "DefaultRouteSettings": {
            "DataTraceEnabled": boolean,
```

```
                "DetailedMetricsEnabled": boolean,
                "LoggingLevel": "string",
                "ThrottlingBurstLimit": number,
                "ThrottlingRateLimit": number
            },
            "DeploymentId": "string",
            "Description": "string",
            "LastDeploymentStatusMessage": "string",
            "LastUpdatedDate": "string",
            "RouteSettings": {
                "DataTraceEnabled": boolean,
                "DetailedMetricsEnabled": boolean,
                "LoggingLevel": "string",
                "ThrottlingBurstLimit": number,
                "ThrottlingRateLimit": number
            },
            "StageName": "string",
            "StageVariables": {
                "string" : "string"
            }
        },
        "AwsAppSyncGraphQlApi": {
            "AdditionalAuthenticationProviders": [
                {
                    "AuthenticationType": "string",
                    "LambdaAuthorizerConfig": {
                        "AuthorizerResultTtlInSeconds": number,
                        "AuthorizerUri": "string",
                        "IdentityValidationExpression": "string"
                    },
                    "OpenIdConnectConfig": {
                        "AuthTtL": number,
                        "ClientId": "string",
                        "IatTtL": number,
                        "Issuer": "string"
                    },
                    "UserPoolConfig": {
                        "AppIdClientRegex": "string",
                        "AwsRegion": "string",
                        "DefaultAction": "string",
                        "UserPoolId": "string"
                    }
                }
            ],
```

```
                "ApiId": "string",
                "Arn": "string",
                "AuthenticationType": "string",
                "Id": "string",
                "LambdaAuthorizerConfig": {
                   "AuthorizerResultTtlInSeconds": number,
                   "AuthorizerUri": "string",
                   "IdentityValidationExpression": "string"
                },
                "LogConfig": {
                   "CloudWatchLogsRoleArn": "string",
                   "ExcludeVerboseContent": boolean,
                   "FieldLogLevel": "string"
                },
                "Name": "string",
                "OpenIdConnectConfig": {
                   "AuthTtL": number,
                   "ClientId": "string",
                   "IatTtL": number,
                   "Issuer": "string"
                },
                "UserPoolConfig": {
                   "AppIdClientRegex": "string",
                   "AwsRegion": "string",
                   "DefaultAction": "string",
                   "UserPoolId": "string"
                },
                "WafWebAclArn": "string",
                "XrayEnabled": boolean
             },
             "AwsAthenaWorkGroup": {
                "Configuration": {
                   "ResultConfiguration": {
                      "EncryptionConfiguration": {
                         "EncryptionOption": "string",
                         "KmsKey": "string"
                      }
                   }
                },
                "Description": "string",
                "Name": "string",
                "State": "string"
             },
             "AwsAutoScalingAutoScalingGroup": {
```

```
                "AvailabilityZones": [
                   {
                      "Value": "string"
                   }
                ],
                "CapacityRebalance": boolean,
                "CreatedTime": "string",
                "HealthCheckGracePeriod": number,
                "HealthCheckType": "string",
                "LaunchConfigurationName": "string",
                "LaunchTemplate": {
                   "LaunchTemplateId": "string",
                   "LaunchTemplateName": "string",
                   "Version": "string"
                },
                "LoadBalancerNames": [ "string" ],
                "MixedInstancesPolicy": {
                   "InstancesDistribution": {
                      "OnDemandAllocationStrategy": "string",
                      "OnDemandBaseCapacity": number,
                      "OnDemandPercentageAboveBaseCapacity": number,
                      "SpotAllocationStrategy": "string",
                      "SpotInstancePools": number,
                      "SpotMaxPrice": "string"
                   },
                   "LaunchTemplate": {
                      "LaunchTemplateSpecification": {
                         "LaunchTemplateId": "string",
                         "LaunchTemplateName": "string",
                         "Version": "string"
                      },
                      "Overrides": [
                         {
                            "InstanceType": "string",
                            "WeightedCapacity": "string"
                         }
                      ]
                   }
                }
             },
             "AwsAutoScalingLaunchConfiguration": {
                "AssociatePublicIpAddress": boolean,
                "BlockDeviceMappings": [
                   {
```

```
                "DeviceName": "string",
                "Ebs": {
                   "DeleteOnTermination": boolean,
                   "Encrypted": boolean,
                   "Iops": number,
                   "SnapshotId": "string",
                   "VolumeSize": number,
                   "VolumeType": "string"
                },
                "NoDevice": boolean,
                "VirtualName": "string"
             }
          ],
          "ClassicLinkVpcId": "string",
          "ClassicLinkVpcSecurityGroups": [ "string" ],
          "CreatedTime": "string",
          "EbsOptimized": boolean,
          "IamInstanceProfile": "string",
          "ImageId": "string",
          "InstanceMonitoring": {
             "Enabled": boolean
          },
          "InstanceType": "string",
          "KernelId": "string",
          "KeyName": "string",
          "LaunchConfigurationName": "string",
          "MetadataOptions": {
             "HttpEndpoint": "string",
             "HttpPutResponseHopLimit": number,
             "HttpTokens": "string"
          },
          "PlacementTenancy": "string",
          "RamdiskId": "string",
          "SecurityGroups": [ "string" ],
          "SpotPrice": "string",
          "UserData": "string"
       },
       "AwsBackupBackupPlan": {
          "BackupPlan": {
             "AdvancedBackupSettings": [
                {
                   "BackupOptions": {
                      "string" : "string"
                   },
```

```
                    "ResourceType": "string"
                }
            ],
            "BackupPlanName": "string",
            "BackupPlanRule": [
                {
                    "CompletionWindowMinutes": number,
                    "CopyActions": [
                        {
                            "DestinationBackupVaultArn": "string",
                            "Lifecycle": {
                                "DeleteAfterDays": number,
                                "MoveToColdStorageAfterDays": number
                            }
                        }
                    ],
                    "EnableContinuousBackup": boolean,
                    "Lifecycle": {
                        "DeleteAfterDays": number,
                        "MoveToColdStorageAfterDays": number
                    },
                    "RuleId": "string",
                    "RuleName": "string",
                    "ScheduleExpression": "string",
                    "StartWindowMinutes": number,
                    "TargetBackupVault": "string"
                }
            ]
        },
        "BackupPlanArn": "string",
        "BackupPlanId": "string",
        "VersionId": "string"
    },
    "AwsBackupBackupVault": {
        "AccessPolicy": "string",
        "BackupVaultArn": "string",
        "BackupVaultName": "string",
        "EncryptionKeyArn": "string",
        "Notifications": {
            "BackupVaultEvents": [ "string" ],
            "SnsTopicArn": "string"
        }
    },
    "AwsBackupRecoveryPoint": {
```

```
                "BackupSizeInBytes": number,
                "BackupVaultArn": "string",
                "BackupVaultName": "string",
                "CalculatedLifecycle": {
                   "DeleteAt": "string",
                   "MoveToColdStorageAt": "string"
                },
                "CompletionDate": "string",
                "CreatedBy": {
                   "BackupPlanArn": "string",
                   "BackupPlanId": "string",
                   "BackupPlanVersion": "string",
                   "BackupRuleId": "string"
                },
                "CreationDate": "string",
                "EncryptionKeyArn": "string",
                "IamRoleArn": "string",
                "IsEncrypted": boolean,
                "LastRestoreTime": "string",
                "Lifecycle": {
                   "DeleteAfterDays": number,
                   "MoveToColdStorageAfterDays": number
                },
                "RecoveryPointArn": "string",
                "ResourceArn": "string",
                "ResourceType": "string",
                "SourceBackupVaultArn": "string",
                "Status": "string",
                "StatusMessage": "string",
                "StorageClass": "string"
             },
             "AwsCertificateManagerCertificate": {
                "CertificateAuthorityArn": "string",
                "CreatedAt": "string",
                "DomainName": "string",
                "DomainValidationOptions": [
                   {
                      "DomainName": "string",
                      "ResourceRecord": {
                         "Name": "string",
                         "Type": "string",
                         "Value": "string"
                      },
                      "ValidationDomain": "string",
```

```
                "ValidationEmails": [ "string" ],
                "ValidationMethod": "string",
                "ValidationStatus": "string"
            }
        ],
        "ExtendedKeyUsages": [
            {
                "Name": "string",
                "OId": "string"
            }
        ],
        "FailureReason": "string",
        "ImportedAt": "string",
        "InUseBy": [ "string" ],
        "IssuedAt": "string",
        "Issuer": "string",
        "KeyAlgorithm": "string",
        "KeyUsages": [
            {
                "Name": "string"
            }
        ],
        "NotAfter": "string",
        "NotBefore": "string",
        "Options": {
            "CertificateTransparencyLoggingPreference": "string"
        },
        "RenewalEligibility": "string",
        "RenewalSummary": {
            "DomainValidationOptions": [
                {
                    "DomainName": "string",
                    "ResourceRecord": {
                        "Name": "string",
                        "Type": "string",
                        "Value": "string"
                    },
                    "ValidationDomain": "string",
                    "ValidationEmails": [ "string" ],
                    "ValidationMethod": "string",
                    "ValidationStatus": "string"
                }
            ],
            "RenewalStatus": "string",
```

```
                "RenewalStatusReason": "string",
                "UpdatedAt": "string"
            },
            "Serial": "string",
            "SignatureAlgorithm": "string",
            "Status": "string",
            "Subject": "string",
            "SubjectAlternativeNames": [ "string" ],
            "Type": "string"
        },
        "AwsCloudFormationStack": {
            "Capabilities": [ "string" ],
            "CreationTime": "string",
            "Description": "string",
            "DisableRollback": boolean,
            "DriftInformation": {
                "StackDriftStatus": "string"
            },
            "EnableTerminationProtection": boolean,
            "LastUpdatedTime": "string",
            "NotificationArns": [ "string" ],
            "Outputs": [
                {
                    "Description": "string",
                    "OutputKey": "string",
                    "OutputValue": "string"
                }
            ],
            "RoleArn": "string",
            "StackId": "string",
            "StackName": "string",
            "StackStatus": "string",
            "StackStatusReason": "string",
            "TimeoutInMinutes": number
        },
        "AwsCloudFrontDistribution": {
            "CacheBehaviors": {
                "Items": [
                    {
                        "ViewerProtocolPolicy": "string"
                    }
                ]
            },
            "DefaultCacheBehavior": {
```

```
                "ViewerProtocolPolicy": "string"
            },
            "DefaultRootObject": "string",
            "DomainName": "string",
            "ETag": "string",
            "LastModifiedTime": "string",
            "Logging": {
                "Bucket": "string",
                "Enabled": boolean,
                "IncludeCookies": boolean,
                "Prefix": "string"
            },
            "OriginGroups": {
                "Items": [
                    {
                        "FailoverCriteria": {
                            "StatusCodes": {
                                "Items": [ number ],
                                "Quantity": number
                            }
                        }
                    }
                ]
            },
            "Origins": {
                "Items": [
                    {
                        "CustomOriginConfig": {
                            "HttpPort": number,
                            "HttpsPort": number,
                            "OriginKeepaliveTimeout": number,
                            "OriginProtocolPolicy": "string",
                            "OriginReadTimeout": number,
                            "OriginSslProtocols": {
                                "Items": [ "string" ],
                                "Quantity": number
                            }
                        },
                        "DomainName": "string",
                        "Id": "string",
                        "OriginPath": "string",
                        "S3OriginConfig": {
                            "OriginAccessIdentity": "string"
                        }
```

```
                    }
                ]
            },
            "Status": "string",
            "ViewerCertificate": {
                "AcmCertificateArn": "string",
                "Certificate": "string",
                "CertificateSource": "string",
                "CloudFrontDefaultCertificate": boolean,
                "IamCertificateId": "string",
                "MinimumProtocolVersion": "string",
                "SslSupportMethod": "string"
            },
            "WebAclId": "string"
        },
        "AwsCloudTrailTrail": {
            "CloudWatchLogsLogGroupArn": "string",
            "CloudWatchLogsRoleArn": "string",
            "HasCustomEventSelectors": boolean,
            "HomeRegion": "string",
            "IncludeGlobalServiceEvents": boolean,
            "IsMultiRegionTrail": boolean,
            "IsOrganizationTrail": boolean,
            "KmsKeyId": "string",
            "LogFileValidationEnabled": boolean,
            "Name": "string",
            "S3BucketName": "string",
            "S3KeyPrefix": "string",
            "SnsTopicArn": "string",
            "SnsTopicName": "string",
            "TrailArn": "string"
        },
        "AwsCloudWatchAlarm": {
            "ActionsEnabled": boolean,
            "AlarmActions": [ "string" ],
            "AlarmArn": "string",
            "AlarmConfigurationUpdatedTimestamp": "string",
            "AlarmDescription": "string",
            "AlarmName": "string",
            "ComparisonOperator": "string",
            "DatapointsToAlarm": number,
            "Dimensions": [
                {
                    "Name": "string",
```

```
                "Value": "string"
            }
        ],
        "EvaluateLowSampleCountPercentile": "string",
        "EvaluationPeriods": number,
        "ExtendedStatistic": "string",
        "InsufficientDataActions": [ "string" ],
        "MetricName": "string",
        "Namespace": "string",
        "OkActions": [ "string" ],
        "Period": number,
        "Statistic": "string",
        "Threshold": number,
        "ThresholdMetricId": "string",
        "TreatMissingData": "string",
        "Unit": "string"
    },
    "AwsCodeBuildProject": {
        "Artifacts": [
            {
                "ArtifactIdentifier": "string",
                "EncryptionDisabled": boolean,
                "Location": "string",
                "Name": "string",
                "NamespaceType": "string",
                "OverrideArtifactName": boolean,
                "Packaging": "string",
                "Path": "string",
                "Type": "string"
            }
        ],
        "EncryptionKey": "string",
        "Environment": {
            "Certificate": "string",
            "EnvironmentVariables": [
                {
                    "Name": "string",
                    "Type": "string",
                    "Value": "string"
                }
            ],
            "ImagePullCredentialsType": "string",
            "PrivilegedMode": boolean,
            "RegistryCredential": {
```

```
                "Credential": "string",
                "CredentialProvider": "string"
            },
            "Type": "string"
        },
        "LogsConfig": {
            "CloudWatchLogs": {
                "GroupName": "string",
                "Status": "string",
                "StreamName": "string"
            },
            "S3Logs": {
                "EncryptionDisabled": boolean,
                "Location": "string",
                "Status": "string"
            }
        },
        "Name": "string",
        "SecondaryArtifacts": [
            {
                "ArtifactIdentifier": "string",
                "EncryptionDisabled": boolean,
                "Location": "string",
                "Name": "string",
                "NamespaceType": "string",
                "OverrideArtifactName": boolean,
                "Packaging": "string",
                "Path": "string",
                "Type": "string"
            }
        ],
        "ServiceRole": "string",
        "Source": {
            "GitCloneDepth": number,
            "InsecureSsl": boolean,
            "Location": "string",
            "Type": "string"
        },
        "VpcConfig": {
            "SecurityGroupIds": [ "string" ],
            "Subnets": [ "string" ],
            "VpcId": "string"
        }
    },
```

```
                "AwsDmsEndpoint": {
                   "CertificateArn": "string",
                   "DatabaseName": "string",
                   "EndpointArn": "string",
                   "EndpointIdentifier": "string",
                   "EndpointType": "string",
                   "EngineName": "string",
                   "ExternalId": "string",
                   "ExtraConnectionAttributes": "string",
                   "KmsKeyId": "string",
                   "Port": number,
                   "ServerName": "string",
                   "SslMode": "string",
                   "Username": "string"
                },
                "AwsDmsReplicationInstance": {
                   "AllocatedStorage": number,
                   "AutoMinorVersionUpgrade": boolean,
                   "AvailabilityZone": "string",
                   "EngineVersion": "string",
                   "KmsKeyId": "string",
                   "MultiAZ": boolean,
                   "PreferredMaintenanceWindow": "string",
                   "PubliclyAccessible": boolean,
                   "ReplicationInstanceClass": "string",
                   "ReplicationInstanceIdentifier": "string",
                   "ReplicationSubnetGroup": {
                      "ReplicationSubnetGroupIdentifier": "string"
                   },
                   "VpcSecurityGroups": [
                      {
                         "VpcSecurityGroupId": "string"
                      }
                   ]
                },
                "AwsDmsReplicationTask": {
                   "CdcStartPosition": "string",
                   "CdcStartTime": "string",
                   "CdcStopPosition": "string",
                   "Id": "string",
                   "MigrationType": "string",
                   "ReplicationInstanceArn": "string",
                   "ReplicationTaskIdentifier": "string",
                   "ReplicationTaskSettings": "string",
```

```
                "ResourceIdentifier": "string",
                "SourceEndpointArn": "string",
                "TableMappings": "string",
                "TargetEndpointArn": "string",
                "TaskData": "string"
            },
            "AwsDynamoDbTable": {
                "AttributeDefinitions": [
                    {
                        "AttributeName": "string",
                        "AttributeType": "string"
                    }
                ],
                "BillingModeSummary": {
                    "BillingMode": "string",
                    "LastUpdateToPayPerRequestDateTime": "string"
                },
                "CreationDateTime": "string",
                "DeletionProtectionEnabled": boolean,
                "GlobalSecondaryIndexes": [
                    {
                        "Backfilling": boolean,
                        "IndexArn": "string",
                        "IndexName": "string",
                        "IndexSizeBytes": number,
                        "IndexStatus": "string",
                        "ItemCount": number,
                        "KeySchema": [
                            {
                                "AttributeName": "string",
                                "KeyType": "string"
                            }
                        ],
                        "Projection": {
                            "NonKeyAttributes": [ "string" ],
                            "ProjectionType": "string"
                        },
                        "ProvisionedThroughput": {
                            "LastDecreaseDateTime": "string",
                            "LastIncreaseDateTime": "string",
                            "NumberOfDecreasesToday": number,
                            "ReadCapacityUnits": number,
                            "WriteCapacityUnits": number
                        }
```

```
                    }
                ],
                "GlobalTableVersion": "string",
                "ItemCount": number,
                "KeySchema": [
                    {
                        "AttributeName": "string",
                        "KeyType": "string"
                    }
                ],
                "LatestStreamArn": "string",
                "LatestStreamLabel": "string",
                "LocalSecondaryIndexes": [
                    {
                        "IndexArn": "string",
                        "IndexName": "string",
                        "KeySchema": [
                            {
                                "AttributeName": "string",
                                "KeyType": "string"
                            }
                        ],
                        "Projection": {
                            "NonKeyAttributes": [ "string" ],
                            "ProjectionType": "string"
                        }
                    }
                ],
                "ProvisionedThroughput": {
                    "LastDecreaseDateTime": "string",
                    "LastIncreaseDateTime": "string",
                    "NumberOfDecreasesToday": number,
                    "ReadCapacityUnits": number,
                    "WriteCapacityUnits": number
                },
                "Replicas": [
                    {
                        "GlobalSecondaryIndexes": [
                            {
                                "IndexName": "string",
                                "ProvisionedThroughputOverride": {
                                    "ReadCapacityUnits": number
                                }
                            }
```

```
                ],
                "KmsMasterKeyId": "string",
                "ProvisionedThroughputOverride": {
                   "ReadCapacityUnits": number
                },
                "RegionName": "string",
                "ReplicaStatus": "string",
                "ReplicaStatusDescription": "string"
             }
          ],
          "RestoreSummary": {
             "RestoreDateTime": "string",
             "RestoreInProgress": boolean,
             "SourceBackupArn": "string",
             "SourceTableArn": "string"
          },
          "SseDescription": {
             "InaccessibleEncryptionDateTime": "string",
             "KmsMasterKeyArn": "string",
             "SseType": "string",
             "Status": "string"
          },
          "StreamSpecification": {
             "StreamEnabled": boolean,
             "StreamViewType": "string"
          },
          "TableId": "string",
          "TableName": "string",
          "TableSizeBytes": number,
          "TableStatus": "string"
       },
       "AwsEc2ClientVpnEndpoint": {
          "AuthenticationOptions": [
             {
                "ActiveDirectory": {
                   "DirectoryId": "string"
                },
                "FederatedAuthentication": {
                   "SamlProviderArn": "string",
                   "SelfServiceSamlProviderArn": "string"
                },
                "MutualAuthentication": {
                   "ClientRootCertificateChain": "string"
                },
```

```
                "Type": "string"
            }
        ],
        "ClientCidrBlock": "string",
        "ClientConnectOptions": {
            "Enabled": boolean,
            "LambdaFunctionArn": "string",
            "Status": {
                "Code": "string",
                "Message": "string"
            }
        },
        "ClientLoginBannerOptions": {
            "BannerText": "string",
            "Enabled": boolean
        },
        "ClientVpnEndpointId": "string",
        "ConnectionLogOptions": {
            "CloudwatchLogGroup": "string",
            "CloudwatchLogStream": "string",
            "Enabled": boolean
        },
        "Description": "string",
        "DnsServer": [ "string" ],
        "SecurityGroupIdSet": [ "string" ],
        "SelfServicePortalUrl": "string",
        "ServerCertificateArn": "string",
        "SessionTimeoutHours": number,
        "SplitTunnel": boolean,
        "TransportProtocol": "string",
        "VpcId": "string",
        "VpnPort": number
    },
    "AwsEc2Eip": {
        "AllocationId": "string",
        "AssociationId": "string",
        "Domain": "string",
        "InstanceId": "string",
        "NetworkBorderGroup": "string",
        "NetworkInterfaceId": "string",
        "NetworkInterfaceOwnerId": "string",
        "PrivateIpAddress": "string",
        "PublicIp": "string",
        "PublicIpv4Pool": "string"
```

```
                    },
                    "AwsEc2Instance": {
                       "IamInstanceProfileArn": "string",
                       "ImageId": "string",
                       "IpV4Addresses": [ "string" ],
                       "IpV6Addresses": [ "string" ],
                       "KeyName": "string",
                       "LaunchedAt": "string",
                       "MetadataOptions": {
                          "HttpEndpoint": "string",
                          "HttpProtocolIpv6": "string",
                          "HttpPutResponseHopLimit": number,
                          "HttpTokens": "string",
                          "InstanceMetadataTags": "string"
                       },
                       "Monitoring": {
                          "State": "string"
                       },
                       "NetworkInterfaces": [
                          {
                             "NetworkInterfaceId": "string"
                          }
                       ],
                       "SubnetId": "string",
                       "Type": "string",
                       "VirtualizationType": "string",
                       "VpcId": "string"
                    },
                    "AwsEc2LaunchTemplate": {
                       "DefaultVersionNumber": number,
                       "Id": "string",
                       "LatestVersionNumber": number,
                       "LaunchTemplateData": {
                          "BlockDeviceMappingSet": [
                             {
                                "DeviceName": "string",
                                "Ebs": {
                                   "DeleteOnTermination": boolean,
                                   "Encrypted": boolean,
                                   "Iops": number,
                                   "KmsKeyId": "string",
                                   "SnapshotId": "string",
                                   "Throughput": number,
                                   "VolumeSize": number,
```

```
                    "VolumeType": "string"
                },
                "NoDevice": "string",
                "VirtualName": "string"
            }
        ],
        "CapacityReservationSpecification": {
            "CapacityReservationPreference": "string",
            "CapacityReservationTarget": {
                "CapacityReservationId": "string",
                "CapacityReservationResourceGroupArn": "string"
            }
        },
        "CpuOptions": {
            "CoreCount": number,
            "ThreadsPerCore": number
        },
        "CreditSpecification": {
            "CpuCredits": "string"
        },
        "DisableApiStop": boolean,
        "DisableApiTermination": boolean,
        "EbsOptimized": boolean,
        "ElasticGpuSpecificationSet": [
            {
                "Type": "string"
            }
        ],
        "ElasticInferenceAcceleratorSet": [
            {
                "Count": number,
                "Type": "string"
            }
        ],
        "EnclaveOptions": {
            "Enabled": boolean
        },
        "HibernationOptions": {
            "Configured": boolean
        },
        "IamInstanceProfile": {
            "Arn": "string",
            "Name": "string"
        },
```

```
                "ImageId": "string",
                "InstanceInitiatedShutdownBehavior": "string",
                "InstanceMarketOptions": {
                   "MarketType": "string",
                   "SpotOptions": {
                      "BlockDurationMinutes": number,
                      "InstanceInterruptionBehavior": "string",
                      "MaxPrice": "string",
                      "SpotInstanceType": "string",
                      "ValidUntil": "string"
                   }
                },
                "InstanceRequirements": {
                   "AcceleratorCount": {
                      "Max": number,
                      "Min": number
                   },
                   "AcceleratorManufacturers": [ "string" ],
                   "AcceleratorNames": [ "string" ],
                   "AcceleratorTotalMemoryMiB": {
                      "Max": number,
                      "Min": number
                   },
                   "AcceleratorTypes": [ "string" ],
                   "BareMetal": "string",
                   "BaselineEbsBandwidthMbps": {
                      "Max": number,
                      "Min": number
                   },
                   "BurstablePerformance": "string",
                   "CpuManufacturers": [ "string" ],
                   "ExcludedInstanceTypes": [ "string" ],
                   "InstanceGenerations": [ "string" ],
                   "LocalStorage": "string",
                   "LocalStorageTypes": [ "string" ],
                   "MemoryGiBPerVCpu": {
                      "Max": number,
                      "Min": number
                   },
                   "MemoryMiB": {
                      "Max": number,
                      "Min": number
                   },
                   "NetworkInterfaceCount": {
```

```
                    "Max": number,
                    "Min": number
                },
                "OnDemandMaxPricePercentageOverLowestPrice": number,
                "RequireHibernateSupport": boolean,
                "SpotMaxPricePercentageOverLowestPrice": number,
                "TotalLocalStorageGB": {
                    "Max": number,
                    "Min": number
                },
                "VCpuCount": {
                    "Max": number,
                    "Min": number
                }
            },
            "InstanceType": "string",
            "KernelId": "string",
            "KeyName": "string",
            "LicenseSet": [
                {
                    "LicenseConfigurationArn": "string"
                }
            ],
            "MaintenanceOptions": {
                "AutoRecovery": "string"
            },
            "MetadataOptions": {
                "HttpEndpoint": "string",
                "HttpProtocolIpv6": "string",
                "HttpPutResponseHopLimit": number,
                "HttpTokens": "string",
                "InstanceMetadataTags": "string"
            },
            "Monitoring": {
                "Enabled": boolean
            },
            "NetworkInterfaceSet": [
                {
                    "AssociateCarrierIpAddress": boolean,
                    "AssociatePublicIpAddress": boolean,
                    "DeleteOnTermination": boolean,
                    "Description": "string",
                    "DeviceIndex": number,
                    "Groups": [ "string" ],
```

```
                "InterfaceType": "string",
                "Ipv4PrefixCount": number,
                "Ipv4Prefixes": [
                   {
                      "Ipv4Prefix": "string"
                   }
                ],
                "Ipv6AddressCount": number,
                "Ipv6Addresses": [
                   {
                      "Ipv6Address": "string"
                   }
                ],
                "Ipv6PrefixCount": number,
                "Ipv6Prefixes": [
                   {
                      "Ipv6Prefix": "string"
                   }
                ],
                "NetworkCardIndex": number,
                "NetworkInterfaceId": "string",
                "PrivateIpAddress": "string",
                "PrivateIpAddresses": [
                   {
                      "Primary": boolean,
                      "PrivateIpAddress": "string"
                   }
                ],
                "SecondaryPrivateIpAddressCount": number,
                "SubnetId": "string"
             }
          ],
          "Placement": {
             "Affinity": "string",
             "AvailabilityZone": "string",
             "GroupName": "string",
             "HostId": "string",
             "HostResourceGroupArn": "string",
             "PartitionNumber": number,
             "SpreadDomain": "string",
             "Tenancy": "string"
          },
          "PrivateDnsNameOptions": {
             "EnableResourceNameDnsAAAARecord": boolean,
```

```
                    "EnableResourceNameDnsARecord": boolean,
                    "HostnameType": "string"
                },
                "RamDiskId": "string",
                "SecurityGroupIdSet": [ "string" ],
                "SecurityGroupSet": [ "string" ],
                "UserData": "string"
            },
            "LaunchTemplateName": "string"
        },
        "AwsEc2NetworkAcl": {
            "Associations": [
                {
                    "NetworkAclAssociationId": "string",
                    "NetworkAclId": "string",
                    "SubnetId": "string"
                }
            ],
            "Entries": [
                {
                    "CidrBlock": "string",
                    "Egress": boolean,
                    "IcmpTypeCode": {
                        "Code": number,
                        "Type": number
                    },
                    "Ipv6CidrBlock": "string",
                    "PortRange": {
                        "From": number,
                        "To": number
                    },
                    "Protocol": "string",
                    "RuleAction": "string",
                    "RuleNumber": number
                }
            ],
            "IsDefault": boolean,
            "NetworkAclId": "string",
            "OwnerId": "string",
            "VpcId": "string"
        },
        "AwsEc2NetworkInterface": {
            "Attachment": {
                "AttachmentId": "string",
```

```
                "AttachTime": "string",
                "DeleteOnTermination": boolean,
                "DeviceIndex": number,
                "InstanceId": "string",
                "InstanceOwnerId": "string",
                "Status": "string"
            },
            "IpV6Addresses": [
                {
                    "IpV6Address": "string"
                }
            ],
            "NetworkInterfaceId": "string",
            "PrivateIpAddresses": [
                {
                    "PrivateDnsName": "string",
                    "PrivateIpAddress": "string"
                }
            ],
            "PublicDnsName": "string",
            "PublicIp": "string",
            "SecurityGroups": [
                {
                    "GroupId": "string",
                    "GroupName": "string"
                }
            ],
            "SourceDestCheck": boolean
        },
        "AwsEc2RouteTable": {
            "AssociationSet": [
                {
                    "AssociationState": {
                        "State": "string",
                        "StatusMessage": "string"
                    },
                    "GatewayId": "string",
                    "Main": boolean,
                    "RouteTableAssociationId": "string",
                    "RouteTableId": "string",
                    "SubnetId": "string"
                }
            ],
            "OwnerId": "string",
```

```
                "PropagatingVgwSet": [
                   {
                      "GatewayId": "string"
                   }
                ],
                "RouteSet": [
                   {
                      "CarrierGatewayId": "string",
                      "CoreNetworkArn": "string",
                      "DestinationCidrBlock": "string",
                      "DestinationIpv6CidrBlock": "string",
                      "DestinationPrefixListId": "string",
                      "EgressOnlyInternetGatewayId": "string",
                      "GatewayId": "string",
                      "InstanceId": "string",
                      "InstanceOwnerId": "string",
                      "LocalGatewayId": "string",
                      "NatGatewayId": "string",
                      "NetworkInterfaceId": "string",
                      "Origin": "string",
                      "State": "string",
                      "TransitGatewayId": "string",
                      "VpcPeeringConnectionId": "string"
                   }
                ],
                "RouteTableId": "string",
                "VpcId": "string"
             },
             "AwsEc2SecurityGroup": {
                "GroupId": "string",
                "GroupName": "string",
                "IpPermissions": [
                   {
                      "FromPort": number,
                      "IpProtocol": "string",
                      "IpRanges": [
                         {
                            "CidrIp": "string"
                         }
                      ],
                      "Ipv6Ranges": [
                         {
                            "CidrIpv6": "string"
                         }
```

```
                    ],
                    "PrefixListIds": [
                       {
                          "PrefixListId": "string"
                       }
                    ],
                    "ToPort": number,
                    "UserIdGroupPairs": [
                       {
                          "GroupId": "string",
                          "GroupName": "string",
                          "PeeringStatus": "string",
                          "UserId": "string",
                          "VpcId": "string",
                          "VpcPeeringConnectionId": "string"
                       }
                    ]
                 }
              ],
              "IpPermissionsEgress": [
                 {
                    "FromPort": number,
                    "IpProtocol": "string",
                    "IpRanges": [
                       {
                          "CidrIp": "string"
                       }
                    ],
                    "Ipv6Ranges": [
                       {
                          "CidrIpv6": "string"
                       }
                    ],
                    "PrefixListIds": [
                       {
                          "PrefixListId": "string"
                       }
                    ],
                    "ToPort": number,
                    "UserIdGroupPairs": [
                       {
                          "GroupId": "string",
                          "GroupName": "string",
                          "PeeringStatus": "string",
```

```
                        "UserId": "string",
                        "VpcId": "string",
                        "VpcPeeringConnectionId": "string"
                    }
                ]
            }
        ],
        "OwnerId": "string",
        "VpcId": "string"
    },
    "AwsEc2Subnet": {
        "AssignIpv6AddressOnCreation": boolean,
        "AvailabilityZone": "string",
        "AvailabilityZoneId": "string",
        "AvailableIpAddressCount": number,
        "CidrBlock": "string",
        "DefaultForAz": boolean,
        "Ipv6CidrBlockAssociationSet": [
            {
                "AssociationId": "string",
                "CidrBlockState": "string",
                "Ipv6CidrBlock": "string"
            }
        ],
        "MapPublicIpOnLaunch": boolean,
        "OwnerId": "string",
        "State": "string",
        "SubnetArn": "string",
        "SubnetId": "string",
        "VpcId": "string"
    },
    "AwsEc2TransitGateway": {
        "AmazonSideAsn": number,
        "AssociationDefaultRouteTableId": "string",
        "AutoAcceptSharedAttachments": "string",
        "DefaultRouteTableAssociation": "string",
        "DefaultRouteTablePropagation": "string",
        "Description": "string",
        "DnsSupport": "string",
        "Id": "string",
        "MulticastSupport": "string",
        "PropagationDefaultRouteTableId": "string",
        "TransitGatewayCidrBlocks": [ "string" ],
        "VpnEcmpSupport": "string"
```

```
                    },
                    "AwsEc2Volume": {
                       "Attachments": [
                          {
                             "AttachTime": "string",
                             "DeleteOnTermination": boolean,
                             "InstanceId": "string",
                             "Status": "string"
                          }
                       ],
                       "CreateTime": "string",
                       "DeviceName": "string",
                       "Encrypted": boolean,
                       "KmsKeyId": "string",
                       "Size": number,
                       "SnapshotId": "string",
                       "Status": "string",
                       "VolumeId": "string",
                       "VolumeScanStatus": "string",
                       "VolumeType": "string"
                    },
                    "AwsEc2Vpc": {
                       "CidrBlockAssociationSet": [
                          {
                             "AssociationId": "string",
                             "CidrBlock": "string",
                             "CidrBlockState": "string"
                          }
                       ],
                       "DhcpOptionsId": "string",
                       "Ipv6CidrBlockAssociationSet": [
                          {
                             "AssociationId": "string",
                             "CidrBlockState": "string",
                             "Ipv6CidrBlock": "string"
                          }
                       ],
                       "State": "string"
                    },
                    "AwsEc2VpcEndpointService": {
                       "AcceptanceRequired": boolean,
                       "AvailabilityZones": [ "string" ],
                       "BaseEndpointDnsNames": [ "string" ],
                       "GatewayLoadBalancerArns": [ "string" ],
```

```
                "ManagesVpcEndpoints": boolean,
                "NetworkLoadBalancerArns": [ "string" ],
                "PrivateDnsName": "string",
                "ServiceId": "string",
                "ServiceName": "string",
                "ServiceState": "string",
                "ServiceType": [
                   {
                      "ServiceType": "string"
                   }
                ]
             },
             "AwsEc2VpcPeeringConnection": {
                "AccepterVpcInfo": {
                   "CidrBlock": "string",
                   "CidrBlockSet": [
                      {
                         "CidrBlock": "string"
                      }
                   ],
                   "Ipv6CidrBlockSet": [
                      {
                         "Ipv6CidrBlock": "string"
                      }
                   ],
                   "OwnerId": "string",
                   "PeeringOptions": {
                      "AllowDnsResolutionFromRemoteVpc": boolean,
                      "AllowEgressFromLocalClassicLinkToRemoteVpc": boolean,
                      "AllowEgressFromLocalVpcToRemoteClassicLink": boolean
                   },
                   "Region": "string",
                   "VpcId": "string"
                },
                "ExpirationTime": "string",
                "RequesterVpcInfo": {
                   "CidrBlock": "string",
                   "CidrBlockSet": [
                      {
                         "CidrBlock": "string"
                      }
                   ],
                   "Ipv6CidrBlockSet": [
                      {
```

```
                    "Ipv6CidrBlock": "string"
                }
            ],
            "OwnerId": "string",
            "PeeringOptions": {
                "AllowDnsResolutionFromRemoteVpc": boolean,
                "AllowEgressFromLocalClassicLinkToRemoteVpc": boolean,
                "AllowEgressFromLocalVpcToRemoteClassicLink": boolean
            },
            "Region": "string",
            "VpcId": "string"
        },
        "Status": {
            "Code": "string",
            "Message": "string"
        },
        "VpcPeeringConnectionId": "string"
    },
    "AwsEc2VpnConnection": {
        "Category": "string",
        "CustomerGatewayConfiguration": "string",
        "CustomerGatewayId": "string",
        "Options": {
            "StaticRoutesOnly": boolean,
            "TunnelOptions": [
                {
                    "DpdTimeoutSeconds": number,
                    "IkeVersions": [ "string" ],
                    "OutsideIpAddress": "string",
                    "Phase1DhGroupNumbers": [ number ],
                    "Phase1EncryptionAlgorithms": [ "string" ],
                    "Phase1IntegrityAlgorithms": [ "string" ],
                    "Phase1LifetimeSeconds": number,
                    "Phase2DhGroupNumbers": [ number ],
                    "Phase2EncryptionAlgorithms": [ "string" ],
                    "Phase2IntegrityAlgorithms": [ "string" ],
                    "Phase2LifetimeSeconds": number,
                    "PreSharedKey": "string",
                    "RekeyFuzzPercentage": number,
                    "RekeyMarginTimeSeconds": number,
                    "ReplayWindowSize": number,
                    "TunnelInsideCidr": "string"
                }
            ]
```

```
                    },
                    "Routes": [
                        {
                            "DestinationCidrBlock": "string",
                            "State": "string"
                        }
                    ],
                    "State": "string",
                    "TransitGatewayId": "string",
                    "Type": "string",
                    "VgwTelemetry": [
                        {
                            "AcceptedRouteCount": number,
                            "CertificateArn": "string",
                            "LastStatusChange": "string",
                            "OutsideIpAddress": "string",
                            "Status": "string",
                            "StatusMessage": "string"
                        }
                    ],
                    "VpnConnectionId": "string",
                    "VpnGatewayId": "string"
                },
                "AwsEcrContainerImage": {
                    "Architecture": "string",
                    "ImageDigest": "string",
                    "ImagePublishedAt": "string",
                    "ImageTags": [ "string" ],
                    "RegistryId": "string",
                    "RepositoryName": "string"
                },
                "AwsEcrRepository": {
                    "Arn": "string",
                    "ImageScanningConfiguration": {
                        "ScanOnPush": boolean
                    },
                    "ImageTagMutability": "string",
                    "LifecyclePolicy": {
                        "LifecyclePolicyText": "string",
                        "RegistryId": "string"
                    },
                    "RepositoryName": "string",
                    "RepositoryPolicyText": "string"
                },
```

```
                "AwsEcsCluster": {
                   "ActiveServicesCount": number,
                   "CapacityProviders": [ "string" ],
                   "ClusterArn": "string",
                   "ClusterName": "string",
                   "ClusterSettings": [
                      {
                         "Name": "string",
                         "Value": "string"
                      }
                   ],
                   "Configuration": {
                      "ExecuteCommandConfiguration": {
                         "KmsKeyId": "string",
                         "LogConfiguration": {
                            "CloudWatchEncryptionEnabled": boolean,
                            "CloudWatchLogGroupName": "string",
                            "S3BucketName": "string",
                            "S3EncryptionEnabled": boolean,
                            "S3KeyPrefix": "string"
                         },
                         "Logging": "string"
                      }
                   },
                   "DefaultCapacityProviderStrategy": [
                      {
                         "Base": number,
                         "CapacityProvider": "string",
                         "Weight": number
                      }
                   ],
                   "RegisteredContainerInstancesCount": number,
                   "RunningTasksCount": number,
                   "Status": "string"
                },
                "AwsEcsContainer": {
                   "Image": "string",
                   "MountPoints": [
                      {
                         "ContainerPath": "string",
                         "SourceVolume": "string"
                      }
                   ],
                   "Name": "string",
```

```
                "Privileged": boolean
            },
            "AwsEcsService": {
                "CapacityProviderStrategy": [
                    {
                        "Base": number,
                        "CapacityProvider": "string",
                        "Weight": number
                    }
                ],
                "Cluster": "string",
                "DeploymentConfiguration": {
                    "DeploymentCircuitBreaker": {
                        "Enable": boolean,
                        "Rollback": boolean
                    },
                    "MaximumPercent": number,
                    "MinimumHealthyPercent": number
                },
                "DeploymentController": {
                    "Type": "string"
                },
                "DesiredCount": number,
                "EnableEcsManagedTags": boolean,
                "EnableExecuteCommand": boolean,
                "HealthCheckGracePeriodSeconds": number,
                "LaunchType": "string",
                "LoadBalancers": [
                    {
                        "ContainerName": "string",
                        "ContainerPort": number,
                        "LoadBalancerName": "string",
                        "TargetGroupArn": "string"
                    }
                ],
                "Name": "string",
                "NetworkConfiguration": {
                    "AwsVpcConfiguration": {
                        "AssignPublicIp": "string",
                        "SecurityGroups": [ "string" ],
                        "Subnets": [ "string" ]
                    }
                },
                "PlacementConstraints": [
```

```
                {
                    "Expression": "string",
                    "Type": "string"
                }
            ],
            "PlacementStrategies": [
                {
                    "Field": "string",
                    "Type": "string"
                }
            ],
            "PlatformVersion": "string",
            "PropagateTags": "string",
            "Role": "string",
            "SchedulingStrategy": "string",
            "ServiceArn": "string",
            "ServiceName": "string",
            "ServiceRegistries": [
                {
                    "ContainerName": "string",
                    "ContainerPort": number,
                    "Port": number,
                    "RegistryArn": "string"
                }
            ],
            "TaskDefinition": "string"
        },
        "AwsEcsTask": {
            "ClusterArn": "string",
            "Containers": [
                {
                    "Image": "string",
                    "MountPoints": [
                        {
                            "ContainerPath": "string",
                            "SourceVolume": "string"
                        }
                    ],
                    "Name": "string",
                    "Privileged": boolean
                }
            ],
            "CreatedAt": "string",
            "Group": "string",
```

```
                "StartedAt": "string",
                "StartedBy": "string",
                "TaskDefinitionArn": "string",
                "Version": "string",
                "Volumes": [
                   {
                      "Host": {
                         "SourcePath": "string"
                      },
                      "Name": "string"
                   }
                ]
             },
             "AwsEcsTaskDefinition": {
                "ContainerDefinitions": [
                   {
                      "Command": [ "string" ],
                      "Cpu": number,
                      "DependsOn": [
                         {
                            "Condition": "string",
                            "ContainerName": "string"
                         }
                      ],
                      "DisableNetworking": boolean,
                      "DnsSearchDomains": [ "string" ],
                      "DnsServers": [ "string" ],
                      "DockerLabels": {
                         "string" : "string"
                      },
                      "DockerSecurityOptions": [ "string" ],
                      "EntryPoint": [ "string" ],
                      "Environment": [
                         {
                            "Name": "string",
                            "Value": "string"
                         }
                      ],
                      "EnvironmentFiles": [
                         {
                            "Type": "string",
                            "Value": "string"
                         }
                      ],
```

```
                    "Essential": boolean,
                    "ExtraHosts": [
                       {
                          "Hostname": "string",
                          "IpAddress": "string"
                       }
                    ],
                    "FirelensConfiguration": {
                       "Options": {
                          "string" : "string"
                       },
                       "Type": "string"
                    },
                    "HealthCheck": {
                       "Command": [ "string" ],
                       "Interval": number,
                       "Retries": number,
                       "StartPeriod": number,
                       "Timeout": number
                    },
                    "Hostname": "string",
                    "Image": "string",
                    "Interactive": boolean,
                    "Links": [ "string" ],
                    "LinuxParameters": {
                       "Capabilities": {
                          "Add": [ "string" ],
                          "Drop": [ "string" ]
                       },
                       "Devices": [
                          {
                             "ContainerPath": "string",
                             "HostPath": "string",
                             "Permissions": [ "string" ]
                          }
                       ],
                       "InitProcessEnabled": boolean,
                       "MaxSwap": number,
                       "SharedMemorySize": number,
                       "Swappiness": number,
                       "Tmpfs": [
                          {
                             "ContainerPath": "string",
                             "MountOptions": [ "string" ],
```

```
                "Size": number
            }
        ]
    },
    "LogConfiguration": {
        "LogDriver": "string",
        "Options": {
            "string" : "string"
        },
        "SecretOptions": [
            {
                "Name": "string",
                "ValueFrom": "string"
            }
        ]
    },
    "Memory": number,
    "MemoryReservation": number,
    "MountPoints": [
        {
            "ContainerPath": "string",
            "ReadOnly": boolean,
            "SourceVolume": "string"
        }
    ],
    "Name": "string",
    "PortMappings": [
        {
            "ContainerPort": number,
            "HostPort": number,
            "Protocol": "string"
        }
    ],
    "Privileged": boolean,
    "PseudoTerminal": boolean,
    "ReadonlyRootFilesystem": boolean,
    "RepositoryCredentials": {
        "CredentialsParameter": "string"
    },
    "ResourceRequirements": [
        {
            "Type": "string",
            "Value": "string"
        }
```

```
                ],
                "Secrets": [
                    {
                        "Name": "string",
                        "ValueFrom": "string"
                    }
                ],
                "StartTimeout": number,
                "StopTimeout": number,
                "SystemControls": [
                    {
                        "Namespace": "string",
                        "Value": "string"
                    }
                ],
                "Ulimits": [
                    {
                        "HardLimit": number,
                        "Name": "string",
                        "SoftLimit": number
                    }
                ],
                "User": "string",
                "VolumesFrom": [
                    {
                        "ReadOnly": boolean,
                        "SourceContainer": "string"
                    }
                ],
                "WorkingDirectory": "string"
            }
        ],
        "Cpu": "string",
        "ExecutionRoleArn": "string",
        "Family": "string",
        "InferenceAccelerators": [
            {
                "DeviceName": "string",
                "DeviceType": "string"
            }
        ],
        "IpcMode": "string",
        "Memory": "string",
        "NetworkMode": "string",
```

```
                "PidMode": "string",
                "PlacementConstraints": [
                   {
                      "Expression": "string",
                      "Type": "string"
                   }
                ],
                "ProxyConfiguration": {
                   "ContainerName": "string",
                   "ProxyConfigurationProperties": [
                      {
                         "Name": "string",
                         "Value": "string"
                      }
                   ],
                   "Type": "string"
                },
                "RequiresCompatibilities": [ "string" ],
                "Status": "string",
                "TaskRoleArn": "string",
                "Volumes": [
                   {
                      "DockerVolumeConfiguration": {
                         "Autoprovision": boolean,
                         "Driver": "string",
                         "DriverOpts": {
                            "string" : "string"
                         },
                         "Labels": {
                            "string" : "string"
                         },
                         "Scope": "string"
                      },
                      "EfsVolumeConfiguration": {
                         "AuthorizationConfig": {
                            "AccessPointId": "string",
                            "Iam": "string"
                         },
                         "FilesystemId": "string",
                         "RootDirectory": "string",
                         "TransitEncryption": "string",
                         "TransitEncryptionPort": number
                      },
                      "Host": {
```

```
                        "SourcePath": "string"
                    },
                    "Name": "string"
                }
            ]
        },
        "AwsEfsAccessPoint": {
            "AccessPointId": "string",
            "Arn": "string",
            "ClientToken": "string",
            "FileSystemId": "string",
            "PosixUser": {
                "Gid": "string",
                "SecondaryGids": [ "string" ],
                "Uid": "string"
            },
            "RootDirectory": {
                "CreationInfo": {
                    "OwnerGid": "string",
                    "OwnerUid": "string",
                    "Permissions": "string"
                },
                "Path": "string"
            }
        },
        "AwsEksCluster": {
            "Arn": "string",
            "CertificateAuthorityData": "string",
            "ClusterStatus": "string",
            "Endpoint": "string",
            "Logging": {
                "ClusterLogging": [
                    {
                        "Enabled": boolean,
                        "Types": [ "string" ]
                    }
                ]
            },
            "Name": "string",
            "ResourcesVpcConfig": {
                "EndpointPublicAccess": boolean,
                "SecurityGroupIds": [ "string" ],
                "SubnetIds": [ "string" ]
            },
```

```
                "RoleArn": "string",
                "Version": "string"
            },
            "AwsElasticBeanstalkEnvironment": {
                "ApplicationName": "string",
                "Cname": "string",
                "DateCreated": "string",
                "DateUpdated": "string",
                "Description": "string",
                "EndpointUrl": "string",
                "EnvironmentArn": "string",
                "EnvironmentId": "string",
                "EnvironmentLinks": [
                    {
                        "EnvironmentName": "string",
                        "LinkName": "string"
                    }
                ],
                "EnvironmentName": "string",
                "OptionSettings": [
                    {
                        "Namespace": "string",
                        "OptionName": "string",
                        "ResourceName": "string",
                        "Value": "string"
                    }
                ],
                "PlatformArn": "string",
                "SolutionStackName": "string",
                "Status": "string",
                "Tier": {
                    "Name": "string",
                    "Type": "string",
                    "Version": "string"
                },
                "VersionLabel": "string"
            },
            "AwsElasticsearchDomain": {
                "AccessPolicies": "string",
                "DomainEndpointOptions": {
                    "EnforceHTTPS": boolean,
                    "TLSSecurityPolicy": "string"
                },
                "DomainId": "string",
```

```
                "DomainName": "string",
                "ElasticsearchClusterConfig": {
                   "DedicatedMasterCount": number,
                   "DedicatedMasterEnabled": boolean,
                   "DedicatedMasterType": "string",
                   "InstanceCount": number,
                   "InstanceType": "string",
                   "ZoneAwarenessConfig": {
                      "AvailabilityZoneCount": number
                   },
                   "ZoneAwarenessEnabled": boolean
                },
                "ElasticsearchVersion": "string",
                "EncryptionAtRestOptions": {
                   "Enabled": boolean,
                   "KmsKeyId": "string"
                },
                "Endpoint": "string",
                "Endpoints": {
                   "string" : "string"
                },
                "LogPublishingOptions": {
                   "AuditLogs": {
                      "CloudWatchLogsLogGroupArn": "string",
                      "Enabled": boolean
                   },
                   "IndexSlowLogs": {
                      "CloudWatchLogsLogGroupArn": "string",
                      "Enabled": boolean
                   },
                   "SearchSlowLogs": {
                      "CloudWatchLogsLogGroupArn": "string",
                      "Enabled": boolean
                   }
                },
                "NodeToNodeEncryptionOptions": {
                   "Enabled": boolean
                },
                "ServiceSoftwareOptions": {
                   "AutomatedUpdateDate": "string",
                   "Cancellable": boolean,
                   "CurrentVersion": "string",
                   "Description": "string",
                   "NewVersion": "string",
```

```
                "UpdateAvailable": boolean,
                "UpdateStatus": "string"
            },
            "VPCOptions": {
                "AvailabilityZones": [ "string" ],
                "SecurityGroupIds": [ "string" ],
                "SubnetIds": [ "string" ],
                "VPCId": "string"
            }
        },
        "AwsElbLoadBalancer": {
            "AvailabilityZones": [ "string" ],
            "BackendServerDescriptions": [
                {
                    "InstancePort": number,
                    "PolicyNames": [ "string" ]
                }
            ],
            "CanonicalHostedZoneName": "string",
            "CanonicalHostedZoneNameID": "string",
            "CreatedTime": "string",
            "DnsName": "string",
            "HealthCheck": {
                "HealthyThreshold": number,
                "Interval": number,
                "Target": "string",
                "Timeout": number,
                "UnhealthyThreshold": number
            },
            "Instances": [
                {
                    "InstanceId": "string"
                }
            ],
            "ListenerDescriptions": [
                {
                    "Listener": {
                        "InstancePort": number,
                        "InstanceProtocol": "string",
                        "LoadBalancerPort": number,
                        "Protocol": "string",
                        "SslCertificateId": "string"
                    },
                    "PolicyNames": [ "string" ]
```

```
                    }
                ],
                "LoadBalancerAttributes": {
                    "AccessLog": {
                        "EmitInterval": number,
                        "Enabled": boolean,
                        "S3BucketName": "string",
                        "S3BucketPrefix": "string"
                    },
                    "AdditionalAttributes": [
                        {
                            "Key": "string",
                            "Value": "string"
                        }
                    ],
                    "ConnectionDraining": {
                        "Enabled": boolean,
                        "Timeout": number
                    },
                    "ConnectionSettings": {
                        "IdleTimeout": number
                    },
                    "CrossZoneLoadBalancing": {
                        "Enabled": boolean
                    }
                },
                "LoadBalancerName": "string",
                "Policies": {
                    "AppCookieStickinessPolicies": [
                        {
                            "CookieName": "string",
                            "PolicyName": "string"
                        }
                    ],
                    "LbCookieStickinessPolicies": [
                        {
                            "CookieExpirationPeriod": number,
                            "PolicyName": "string"
                        }
                    ],
                    "OtherPolicies": [ "string" ]
                },
                "Scheme": "string",
                "SecurityGroups": [ "string" ],
```

```
                "SourceSecurityGroup": {
                   "GroupName": "string",
                   "OwnerAlias": "string"
                },
                "Subnets": [ "string" ],
                "VpcId": "string"
             },
             "AwsElbv2LoadBalancer": {
                "AvailabilityZones": [
                   {
                      "SubnetId": "string",
                      "ZoneName": "string"
                   }
                ],
                "CanonicalHostedZoneId": "string",
                "CreatedTime": "string",
                "DNSName": "string",
                "IpAddressType": "string",
                "LoadBalancerAttributes": [
                   {
                      "Key": "string",
                      "Value": "string"
                   }
                ],
                "Scheme": "string",
                "SecurityGroups": [ "string" ],
                "State": {
                   "Code": "string",
                   "Reason": "string"
                },
                "Type": "string",
                "VpcId": "string"
             },
             "AwsEventSchemasRegistry": {
                "Description": "string",
                "RegistryArn": "string",
                "RegistryName": "string"
             },
             "AwsEventsEndpoint": {
                "Arn": "string",
                "Description": "string",
                "EndpointId": "string",
                "EndpointUrl": "string",
                "EventBuses": [
```

```
                {
                    "EventBusArn": "string"
                }
            ],
            "Name": "string",
            "ReplicationConfig": {
                "State": "string"
            },
            "RoleArn": "string",
            "RoutingConfig": {
                "FailoverConfig": {
                    "Primary": {
                        "HealthCheck": "string"
                    },
                    "Secondary": {
                        "Route": "string"
                    }
                }
            },
            "State": "string",
            "StateReason": "string"
        },
        "AwsEventsEventbus": {
            "Arn": "string",
            "Name": "string",
            "Policy": "string"
        },
        "AwsGuardDutyDetector": {
            "DataSources": {
                "CloudTrail": {
                    "Status": "string"
                },
                "DnsLogs": {
                    "Status": "string"
                },
                "FlowLogs": {
                    "Status": "string"
                },
                "Kubernetes": {
                    "AuditLogs": {
                        "Status": "string"
                    }
                },
                "MalwareProtection": {
```

```
                    "ScanEc2InstanceWithFindings": {
                        "EbsVolumes": {
                            "Reason": "string",
                            "Status": "string"
                        }
                    },
                    "ServiceRole": "string"
                },
                "S3Logs": {
                    "Status": "string"
                }
            },
            "Features": [
                {
                    "Name": "string",
                    "Status": "string"
                }
            ],
            "FindingPublishingFrequency": "string",
            "ServiceRole": "string",
            "Status": "string"
        },
        "AwsIamAccessKey": {
            "AccessKeyId": "string",
            "AccountId": "string",
            "CreatedAt": "string",
            "PrincipalId": "string",
            "PrincipalName": "string",
            "PrincipalType": "string",
            "SessionContext": {
                "Attributes": {
                    "CreationDate": "string",
                    "MfaAuthenticated": boolean
                },
                "SessionIssuer": {
                    "AccountId": "string",
                    "Arn": "string",
                    "PrincipalId": "string",
                    "Type": "string",
                    "UserName": "string"
                }
            },
            "Status": "string",
            "UserName": "string"
```

```
                    },
                    "AwsIamGroup": {
                       "AttachedManagedPolicies": [
                          {
                             "PolicyArn": "string",
                             "PolicyName": "string"
                          }
                       ],
                       "CreateDate": "string",
                       "GroupId": "string",
                       "GroupName": "string",
                       "GroupPolicyList": [
                          {
                             "PolicyName": "string"
                          }
                       ],
                       "Path": "string"
                    },
                    "AwsIamPolicy": {
                       "AttachmentCount": number,
                       "CreateDate": "string",
                       "DefaultVersionId": "string",
                       "Description": "string",
                       "IsAttachable": boolean,
                       "Path": "string",
                       "PermissionsBoundaryUsageCount": number,
                       "PolicyId": "string",
                       "PolicyName": "string",
                       "PolicyVersionList": [
                          {
                             "CreateDate": "string",
                             "IsDefaultVersion": boolean,
                             "VersionId": "string"
                          }
                       ],
                       "UpdateDate": "string"
                    },
                    "AwsIamRole": {
                       "AssumeRolePolicyDocument": "string",
                       "AttachedManagedPolicies": [
                          {
                             "PolicyArn": "string",
                             "PolicyName": "string"
                          }
```

```
                ],
                "CreateDate": "string",
                "InstanceProfileList": [
                   {
                      "Arn": "string",
                      "CreateDate": "string",
                      "InstanceProfileId": "string",
                      "InstanceProfileName": "string",
                      "Path": "string",
                      "Roles": [
                         {
                            "Arn": "string",
                            "AssumeRolePolicyDocument": "string",
                            "CreateDate": "string",
                            "Path": "string",
                            "RoleId": "string",
                            "RoleName": "string"
                         }
                      ]
                   }
                ],
                "MaxSessionDuration": number,
                "Path": "string",
                "PermissionsBoundary": {
                   "PermissionsBoundaryArn": "string",
                   "PermissionsBoundaryType": "string"
                },
                "RoleId": "string",
                "RoleName": "string",
                "RolePolicyList": [
                   {
                      "PolicyName": "string"
                   }
                ]
             },
             "AwsIamUser": {
                "AttachedManagedPolicies": [
                   {
                      "PolicyArn": "string",
                      "PolicyName": "string"
                   }
                ],
                "CreateDate": "string",
                "GroupList": [ "string" ],
```

```
                "Path": "string",
                "PermissionsBoundary": {
                   "PermissionsBoundaryArn": "string",
                   "PermissionsBoundaryType": "string"
                },
                "UserId": "string",
                "UserName": "string",
                "UserPolicyList": [
                   {
                      "PolicyName": "string"
                   }
                ]
             },
             "AwsKinesisStream": {
                "Arn": "string",
                "Name": "string",
                "RetentionPeriodHours": number,
                "ShardCount": number,
                "StreamEncryption": {
                   "EncryptionType": "string",
                   "KeyId": "string"
                }
             },
             "AwsKmsKey": {
                "AWSAccountId": "string",
                "CreationDate": number,
                "Description": "string",
                "KeyId": "string",
                "KeyManager": "string",
                "KeyRotationStatus": boolean,
                "KeyState": "string",
                "Origin": "string"
             },
             "AwsLambdaFunction": {
                "Architectures": [ "string" ],
                "Code": {
                   "S3Bucket": "string",
                   "S3Key": "string",
                   "S3ObjectVersion": "string",
                   "ZipFile": "string"
                },
                "CodeSha256": "string",
                "DeadLetterConfig": {
                   "TargetArn": "string"
```

```
                    },
                    "Environment": {
                       "Error": {
                          "ErrorCode": "string",
                          "Message": "string"
                       },
                       "Variables": {
                          "string" : "string"
                       }
                    },
                    "FunctionName": "string",
                    "Handler": "string",
                    "KmsKeyArn": "string",
                    "LastModified": "string",
                    "Layers": [
                       {
                          "Arn": "string",
                          "CodeSize": number
                       }
                    ],
                    "MasterArn": "string",
                    "MemorySize": number,
                    "PackageType": "string",
                    "RevisionId": "string",
                    "Role": "string",
                    "Runtime": "string",
                    "Timeout": number,
                    "TracingConfig": {
                       "Mode": "string"
                    },
                    "Version": "string",
                    "VpcConfig": {
                       "SecurityGroupIds": [ "string" ],
                       "SubnetIds": [ "string" ],
                       "VpcId": "string"
                    }
                 },
                 "AwsLambdaLayerVersion": {
                    "CompatibleRuntimes": [ "string" ],
                    "CreatedDate": "string",
                    "Version": number
                 },
                 "AwsMskCluster": {
                    "ClusterInfo": {
```

```
                "ClientAuthentication": {
                   "Sasl": {
                      "Iam": {
                         "Enabled": boolean
                      },
                      "Scram": {
                         "Enabled": boolean
                      }
                   },
                   "Tls": {
                      "CertificateAuthorityArnList": [ "string" ],
                      "Enabled": boolean
                   },
                   "Unauthenticated": {
                      "Enabled": boolean
                   }
                },
                "ClusterName": "string",
                "CurrentVersion": "string",
                "EncryptionInfo": {
                   "EncryptionAtRest": {
                      "DataVolumeKMSKeyId": "string"
                   },
                   "EncryptionInTransit": {
                      "ClientBroker": "string",
                      "InCluster": boolean
                   }
                },
                "EnhancedMonitoring": "string",
                "NumberOfBrokerNodes": number
             }
          },
          "AwsNetworkFirewallFirewall": {
             "DeleteProtection": boolean,
             "Description": "string",
             "FirewallArn": "string",
             "FirewallId": "string",
             "FirewallName": "string",
             "FirewallPolicyArn": "string",
             "FirewallPolicyChangeProtection": boolean,
             "SubnetChangeProtection": boolean,
             "SubnetMappings": [
                {
                   "SubnetId": "string"
```

```
                }
            ],
            "VpcId": "string"
        },
        "AwsNetworkFirewallFirewallPolicy": {
            "Description": "string",
            "FirewallPolicy": {
                "StatefulRuleGroupReferences": [
                    {
                        "ResourceArn": "string"
                    }
                ],
                "StatelessCustomActions": [
                    {
                        "ActionDefinition": {
                            "PublishMetricAction": {
                                "Dimensions": [
                                    {
                                        "Value": "string"
                                    }
                                ]
                            }
                        },
                        "ActionName": "string"
                    }
                ],
                "StatelessDefaultActions": [ "string" ],
                "StatelessFragmentDefaultActions": [ "string" ],
                "StatelessRuleGroupReferences": [
                    {
                        "Priority": number,
                        "ResourceArn": "string"
                    }
                ]
            },
            "FirewallPolicyArn": "string",
            "FirewallPolicyId": "string",
            "FirewallPolicyName": "string"
        },
        "AwsNetworkFirewallRuleGroup": {
            "Capacity": number,
            "Description": "string",
            "RuleGroup": {
                "RulesSource": {
```

```
                "RulesSourceList": {
                   "GeneratedRulesType": "string",
                   "Targets": [ "string" ],
                   "TargetTypes": [ "string" ]
                },
                "RulesString": "string",
                "StatefulRules": [
                   {
                      "Action": "string",
                      "Header": {
                         "Destination": "string",
                         "DestinationPort": "string",
                         "Direction": "string",
                         "Protocol": "string",
                         "Source": "string",
                         "SourcePort": "string"
                      },
                      "RuleOptions": [
                         {
                            "Keyword": "string",
                            "Settings": [ "string" ]
                         }
                      ]
                   }
                ],
                "StatelessRulesAndCustomActions": {
                   "CustomActions": [
                      {
                         "ActionDefinition": {
                            "PublishMetricAction": {
                               "Dimensions": [
                                  {
                                     "Value": "string"
                                  }
                               ]
                            }
                         },
                         "ActionName": "string"
                      }
                   ],
                   "StatelessRules": [
                      {
                         "Priority": number,
                         "RuleDefinition": {
```

```
                                    "Actions": [ "string" ],
                                    "MatchAttributes": {
                                       "DestinationPorts": [
                                          {
                                             "FromPort": number,
                                             "ToPort": number
                                          }
                                       ],
                                       "Destinations": [
                                          {
                                             "AddressDefinition": "string"
                                          }
                                       ],
                                       "Protocols": [ number ],
                                       "SourcePorts": [
                                          {
                                             "FromPort": number,
                                             "ToPort": number
                                          }
                                       ],
                                       "Sources": [
                                          {
                                             "AddressDefinition": "string"
                                          }
                                       ],
                                       "TcpFlags": [
                                          {
                                             "Flags": [ "string" ],
                                             "Masks": [ "string" ]
                                          }
                                       ]
                                    }
                                 }
                              }
                           ]
                        }
                     },
                     "RuleVariables": {
                        "IpSets": {
                           "Definition": [ "string" ]
                        },
                        "PortSets": {
                           "Definition": [ "string" ]
                        }
```

```
                    }
                },
                "RuleGroupArn": "string",
                "RuleGroupId": "string",
                "RuleGroupName": "string",
                "Type": "string"
            },
            "AwsOpenSearchServiceDomain": {
                "AccessPolicies": "string",
                "AdvancedSecurityOptions": {
                    "Enabled": boolean,
                    "InternalUserDatabaseEnabled": boolean,
                    "MasterUserOptions": {
                        "MasterUserArn": "string",
                        "MasterUserName": "string",
                        "MasterUserPassword": "string"
                    }
                },
                "Arn": "string",
                "ClusterConfig": {
                    "DedicatedMasterCount": number,
                    "DedicatedMasterEnabled": boolean,
                    "DedicatedMasterType": "string",
                    "InstanceCount": number,
                    "InstanceType": "string",
                    "WarmCount": number,
                    "WarmEnabled": boolean,
                    "WarmType": "string",
                    "ZoneAwarenessConfig": {
                        "AvailabilityZoneCount": number
                    },
                    "ZoneAwarenessEnabled": boolean
                },
                "DomainEndpoint": "string",
                "DomainEndpointOptions": {
                    "CustomEndpoint": "string",
                    "CustomEndpointCertificateArn": "string",
                    "CustomEndpointEnabled": boolean,
                    "EnforceHTTPS": boolean,
                    "TLSSecurityPolicy": "string"
                },
                "DomainEndpoints": {
                    "string" : "string"
                },
```

```
                "DomainName": "string",
                "EncryptionAtRestOptions": {
                   "Enabled": boolean,
                   "KmsKeyId": "string"
                },
                "EngineVersion": "string",
                "Id": "string",
                "LogPublishingOptions": {
                   "AuditLogs": {
                      "CloudWatchLogsLogGroupArn": "string",
                      "Enabled": boolean
                   },
                   "IndexSlowLogs": {
                      "CloudWatchLogsLogGroupArn": "string",
                      "Enabled": boolean
                   },
                   "SearchSlowLogs": {
                      "CloudWatchLogsLogGroupArn": "string",
                      "Enabled": boolean
                   }
                },
                "NodeToNodeEncryptionOptions": {
                   "Enabled": boolean
                },
                "ServiceSoftwareOptions": {
                   "AutomatedUpdateDate": "string",
                   "Cancellable": boolean,
                   "CurrentVersion": "string",
                   "Description": "string",
                   "NewVersion": "string",
                   "OptionalDeployment": boolean,
                   "UpdateAvailable": boolean,
                   "UpdateStatus": "string"
                },
                "VpcOptions": {
                   "SecurityGroupIds": [ "string" ],
                   "SubnetIds": [ "string" ]
                }
             },
             "AwsRdsDbCluster": {
                "ActivityStreamStatus": "string",
                "AllocatedStorage": number,
                "AssociatedRoles": [
                   {
```

```
                "RoleArn": "string",
                "Status": "string"
            }
        ],
        "AutoMinorVersionUpgrade": boolean,
        "AvailabilityZones": [ "string" ],
        "BackupRetentionPeriod": number,
        "ClusterCreateTime": "string",
        "CopyTagsToSnapshot": boolean,
        "CrossAccountClone": boolean,
        "CustomEndpoints": [ "string" ],
        "DatabaseName": "string",
        "DbClusterIdentifier": "string",
        "DbClusterMembers": [
            {
                "DbClusterParameterGroupStatus": "string",
                "DbInstanceIdentifier": "string",
                "IsClusterWriter": boolean,
                "PromotionTier": number
            }
        ],
        "DbClusterOptionGroupMemberships": [
            {
                "DbClusterOptionGroupName": "string",
                "Status": "string"
            }
        ],
        "DbClusterParameterGroup": "string",
        "DbClusterResourceId": "string",
        "DbSubnetGroup": "string",
        "DeletionProtection": boolean,
        "DomainMemberships": [
            {
                "Domain": "string",
                "Fqdn": "string",
                "IamRoleName": "string",
                "Status": "string"
            }
        ],
        "EnabledCloudWatchLogsExports": [ "string" ],
        "Endpoint": "string",
        "Engine": "string",
        "EngineMode": "string",
        "EngineVersion": "string",
```

```
                "HostedZoneId": "string",
                "HttpEndpointEnabled": boolean,
                "IamDatabaseAuthenticationEnabled": boolean,
                "KmsKeyId": "string",
                "MasterUsername": "string",
                "MultiAz": boolean,
                "Port": number,
                "PreferredBackupWindow": "string",
                "PreferredMaintenanceWindow": "string",
                "ReaderEndpoint": "string",
                "ReadReplicaIdentifiers": [ "string" ],
                "Status": "string",
                "StorageEncrypted": boolean,
                "VpcSecurityGroups": [
                   {
                      "Status": "string",
                      "VpcSecurityGroupId": "string"
                   }
                ]
             },
             "AwsRdsDbClusterSnapshot": {
                "AllocatedStorage": number,
                "AvailabilityZones": [ "string" ],
                "ClusterCreateTime": "string",
                "DbClusterIdentifier": "string",
                "DbClusterSnapshotAttributes": [
                   {
                      "AttributeName": "string",
                      "AttributeValues": [ "string" ]
                   }
                ],
                "DbClusterSnapshotIdentifier": "string",
                "Engine": "string",
                "EngineVersion": "string",
                "IamDatabaseAuthenticationEnabled": boolean,
                "KmsKeyId": "string",
                "LicenseModel": "string",
                "MasterUsername": "string",
                "PercentProgress": number,
                "Port": number,
                "SnapshotCreateTime": "string",
                "SnapshotType": "string",
                "Status": "string",
                "StorageEncrypted": boolean,
```

```
                "VpcId": "string"
            },
            "AwsRdsDbInstance": {
                "AllocatedStorage": number,
                "AssociatedRoles": [
                    {
                        "FeatureName": "string",
                        "RoleArn": "string",
                        "Status": "string"
                    }
                ],
                "AutoMinorVersionUpgrade": boolean,
                "AvailabilityZone": "string",
                "BackupRetentionPeriod": number,
                "CACertificateIdentifier": "string",
                "CharacterSetName": "string",
                "CopyTagsToSnapshot": boolean,
                "DBClusterIdentifier": "string",
                "DBInstanceClass": "string",
                "DBInstanceIdentifier": "string",
                "DbInstancePort": number,
                "DbInstanceStatus": "string",
                "DbiResourceId": "string",
                "DBName": "string",
                "DbParameterGroups": [
                    {
                        "DbParameterGroupName": "string",
                        "ParameterApplyStatus": "string"
                    }
                ],
                "DbSecurityGroups": [ "string" ],
                "DbSubnetGroup": {
                    "DbSubnetGroupArn": "string",
                    "DbSubnetGroupDescription": "string",
                    "DbSubnetGroupName": "string",
                    "SubnetGroupStatus": "string",
                    "Subnets": [
                        {
                            "SubnetAvailabilityZone": {
                                "Name": "string"
                            },
                            "SubnetIdentifier": "string",
                            "SubnetStatus": "string"
                        }
```

```
                ],
                "VpcId": "string"
            },
            "DeletionProtection": boolean,
            "DomainMemberships": [
                {
                    "Domain": "string",
                    "Fqdn": "string",
                    "IamRoleName": "string",
                    "Status": "string"
                }
            ],
            "EnabledCloudWatchLogsExports": [ "string" ],
            "Endpoint": {
                "Address": "string",
                "HostedZoneId": "string",
                "Port": number
            },
            "Engine": "string",
            "EngineVersion": "string",
            "EnhancedMonitoringResourceArn": "string",
            "IAMDatabaseAuthenticationEnabled": boolean,
            "InstanceCreateTime": "string",
            "Iops": number,
            "KmsKeyId": "string",
            "LatestRestorableTime": "string",
            "LicenseModel": "string",
            "ListenerEndpoint": {
                "Address": "string",
                "HostedZoneId": "string",
                "Port": number
            },
            "MasterUsername": "string",
            "MaxAllocatedStorage": number,
            "MonitoringInterval": number,
            "MonitoringRoleArn": "string",
            "MultiAz": boolean,
            "OptionGroupMemberships": [
                {
                    "OptionGroupName": "string",
                    "Status": "string"
                }
            ],
            "PendingModifiedValues": {
```

```
                "AllocatedStorage": number,
                "BackupRetentionPeriod": number,
                "CaCertificateIdentifier": "string",
                "DbInstanceClass": "string",
                "DbInstanceIdentifier": "string",
                "DbSubnetGroupName": "string",
                "EngineVersion": "string",
                "Iops": number,
                "LicenseModel": "string",
                "MasterUserPassword": "string",
                "MultiAZ": boolean,
                "PendingCloudWatchLogsExports": {
                   "LogTypesToDisable": [ "string" ],
                   "LogTypesToEnable": [ "string" ]
                },
                "Port": number,
                "ProcessorFeatures": [
                   {
                      "Name": "string",
                      "Value": "string"
                   }
                ],
                "StorageType": "string"
             },
             "PerformanceInsightsEnabled": boolean,
             "PerformanceInsightsKmsKeyId": "string",
             "PerformanceInsightsRetentionPeriod": number,
             "PreferredBackupWindow": "string",
             "PreferredMaintenanceWindow": "string",
             "ProcessorFeatures": [
                {
                   "Name": "string",
                   "Value": "string"
                }
             ],
             "PromotionTier": number,
             "PubliclyAccessible": boolean,
             "ReadReplicaDBClusterIdentifiers": [ "string" ],
             "ReadReplicaDBInstanceIdentifiers": [ "string" ],
             "ReadReplicaSourceDBInstanceIdentifier": "string",
             "SecondaryAvailabilityZone": "string",
             "StatusInfos": [
                {
                   "Message": "string",
```

```
                "Normal": boolean,
                "Status": "string",
                "StatusType": "string"
            }
        ],
        "StorageEncrypted": boolean,
        "StorageType": "string",
        "TdeCredentialArn": "string",
        "Timezone": "string",
        "VpcSecurityGroups": [
            {
                "Status": "string",
                "VpcSecurityGroupId": "string"
            }
        ]
    },
    "AwsRdsDbSecurityGroup": {
        "DbSecurityGroupArn": "string",
        "DbSecurityGroupDescription": "string",
        "DbSecurityGroupName": "string",
        "Ec2SecurityGroups": [
            {
                "Ec2SecurityGroupId": "string",
                "Ec2SecurityGroupName": "string",
                "Ec2SecurityGroupOwnerId": "string",
                "Status": "string"
            }
        ],
        "IpRanges": [
            {
                "CidrIp": "string",
                "Status": "string"
            }
        ],
        "OwnerId": "string",
        "VpcId": "string"
    },
    "AwsRdsDbSnapshot": {
        "AllocatedStorage": number,
        "AvailabilityZone": "string",
        "DbInstanceIdentifier": "string",
        "DbiResourceId": "string",
        "DbSnapshotIdentifier": "string",
        "Encrypted": boolean,
```

```
                "Engine": "string",
                "EngineVersion": "string",
                "IamDatabaseAuthenticationEnabled": boolean,
                "InstanceCreateTime": "string",
                "Iops": number,
                "KmsKeyId": "string",
                "LicenseModel": "string",
                "MasterUsername": "string",
                "OptionGroupName": "string",
                "PercentProgress": number,
                "Port": number,
                "ProcessorFeatures": [
                   {
                      "Name": "string",
                      "Value": "string"
                   }
                ],
                "SnapshotCreateTime": "string",
                "SnapshotType": "string",
                "SourceDbSnapshotIdentifier": "string",
                "SourceRegion": "string",
                "Status": "string",
                "StorageType": "string",
                "TdeCredentialArn": "string",
                "Timezone": "string",
                "VpcId": "string"
             },
             "AwsRdsEventSubscription": {
                "CustomerAwsId": "string",
                "CustSubscriptionId": "string",
                "Enabled": boolean,
                "EventCategoriesList": [ "string" ],
                "EventSubscriptionArn": "string",
                "SnsTopicArn": "string",
                "SourceIdsList": [ "string" ],
                "SourceType": "string",
                "Status": "string",
                "SubscriptionCreationTime": "string"
             },
             "AwsRedshiftCluster": {
                "AllowVersionUpgrade": boolean,
                "AutomatedSnapshotRetentionPeriod": number,
                "AvailabilityZone": "string",
                "ClusterAvailabilityStatus": "string",
```

```
                "ClusterCreateTime": "string",
                "ClusterIdentifier": "string",
                "ClusterNodes": [
                   {
                      "NodeRole": "string",
                      "PrivateIpAddress": "string",
                      "PublicIpAddress": "string"
                   }
                ],
                "ClusterParameterGroups": [
                   {
                      "ClusterParameterStatusList": [
                         {
                            "ParameterApplyErrorDescription": "string",
                            "ParameterApplyStatus": "string",
                            "ParameterName": "string"
                         }
                      ],
                      "ParameterApplyStatus": "string",
                      "ParameterGroupName": "string"
                   }
                ],
                "ClusterPublicKey": "string",
                "ClusterRevisionNumber": "string",
                "ClusterSecurityGroups": [
                   {
                      "ClusterSecurityGroupName": "string",
                      "Status": "string"
                   }
                ],
                "ClusterSnapshotCopyStatus": {
                   "DestinationRegion": "string",
                   "ManualSnapshotRetentionPeriod": number,
                   "RetentionPeriod": number,
                   "SnapshotCopyGrantName": "string"
                },
                "ClusterStatus": "string",
                "ClusterSubnetGroupName": "string",
                "ClusterVersion": "string",
                "DBName": "string",
                "DeferredMaintenanceWindows": [
                   {
                      "DeferMaintenanceEndTime": "string",
                      "DeferMaintenanceIdentifier": "string",
```

```
                "DeferMaintenanceStartTime": "string"
            }
        ],
        "ElasticIpStatus": {
            "ElasticIp": "string",
            "Status": "string"
        },
        "ElasticResizeNumberOfNodeOptions": "string",
        "Encrypted": boolean,
        "Endpoint": {
            "Address": "string",
            "Port": number
        },
        "EnhancedVpcRouting": boolean,
        "ExpectedNextSnapshotScheduleTime": "string",
        "ExpectedNextSnapshotScheduleTimeStatus": "string",
        "HsmStatus": {
            "HsmClientCertificateIdentifier": "string",
            "HsmConfigurationIdentifier": "string",
            "Status": "string"
        },
        "IamRoles": [
            {
                "ApplyStatus": "string",
                "IamRoleArn": "string"
            }
        ],
        "KmsKeyId": "string",
        "LoggingStatus": {
            "BucketName": "string",
            "LastFailureMessage": "string",
            "LastFailureTime": "string",
            "LastSuccessfulDeliveryTime": "string",
            "LoggingEnabled": boolean,
            "S3KeyPrefix": "string"
        },
        "MaintenanceTrackName": "string",
        "ManualSnapshotRetentionPeriod": number,
        "MasterUsername": "string",
        "NextMaintenanceWindowStartTime": "string",
        "NodeType": "string",
        "NumberOfNodes": number,
        "PendingActions": [ "string" ],
        "PendingModifiedValues": {
```

```
                "AutomatedSnapshotRetentionPeriod": number,
                "ClusterIdentifier": "string",
                "ClusterType": "string",
                "ClusterVersion": "string",
                "EncryptionType": "string",
                "EnhancedVpcRouting": boolean,
                "MaintenanceTrackName": "string",
                "MasterUserPassword": "string",
                "NodeType": "string",
                "NumberOfNodes": number,
                "PubliclyAccessible": boolean
            },
            "PreferredMaintenanceWindow": "string",
            "PubliclyAccessible": boolean,
            "ResizeInfo": {
                "AllowCancelResize": boolean,
                "ResizeType": "string"
            },
            "RestoreStatus": {
                "CurrentRestoreRateInMegaBytesPerSecond": number,
                "ElapsedTimeInSeconds": number,
                "EstimatedTimeToCompletionInSeconds": number,
                "ProgressInMegaBytes": number,
                "SnapshotSizeInMegaBytes": number,
                "Status": "string"
            },
            "SnapshotScheduleIdentifier": "string",
            "SnapshotScheduleState": "string",
            "VpcId": "string",
            "VpcSecurityGroups": [
                {
                    "Status": "string",
                    "VpcSecurityGroupId": "string"
                }
            ]
        },
        "AwsRoute53HostedZone": {
            "HostedZone": {
                "Config": {
                    "Comment": "string"
                },
                "Id": "string",
                "Name": "string"
            },
```

```
                "NameServers": [ "string" ],
                "QueryLoggingConfig": {
                   "CloudWatchLogsLogGroupArn": {
                      "CloudWatchLogsLogGroupArn": "string",
                      "HostedZoneId": "string",
                      "Id": "string"
                   }
                },
                "Vpcs": [
                   {
                      "Id": "string",
                      "Region": "string"
                   }
                ]
             },
             "AwsS3AccessPoint": {
                "AccessPointArn": "string",
                "Alias": "string",
                "Bucket": "string",
                "BucketAccountId": "string",
                "Name": "string",
                "NetworkOrigin": "string",
                "PublicAccessBlockConfiguration": {
                   "BlockPublicAcls": boolean,
                   "BlockPublicPolicy": boolean,
                   "IgnorePublicAcls": boolean,
                   "RestrictPublicBuckets": boolean
                },
                "VpcConfiguration": {
                   "VpcId": "string"
                }
             },
             "AwsS3AccountPublicAccessBlock": {
                "BlockPublicAcls": boolean,
                "BlockPublicPolicy": boolean,
                "IgnorePublicAcls": boolean,
                "RestrictPublicBuckets": boolean
             },
             "AwsS3Bucket": {
                "AccessControlList": "string",
                "BucketLifecycleConfiguration": {
                   "Rules": [
                      {
                         "AbortIncompleteMultipartUpload": {
```

```
                    "DaysAfterInitiation": number
                },
                "ExpirationDate": "string",
                "ExpirationInDays": number,
                "ExpiredObjectDeleteMarker": boolean,
                "Filter": {
                    "Predicate": {
                        "Operands": [
                            {
                                "Prefix": "string",
                                "Tag": {
                                    "Key": "string",
                                    "Value": "string"
                                },
                                "Type": "string"
                            }
                        ],
                        "Prefix": "string",
                        "Tag": {
                            "Key": "string",
                            "Value": "string"
                        },
                        "Type": "string"
                    }
                },
                "ID": "string",
                "NoncurrentVersionExpirationInDays": number,
                "NoncurrentVersionTransitions": [
                    {
                        "Days": number,
                        "StorageClass": "string"
                    }
                ],
                "Prefix": "string",
                "Status": "string",
                "Transitions": [
                    {
                        "Date": "string",
                        "Days": number,
                        "StorageClass": "string"
                    }
                ]
            }
        ]
```

```
                    },
                    "BucketLoggingConfiguration": {
                       "DestinationBucketName": "string",
                       "LogFilePrefix": "string"
                    },
                    "BucketNotificationConfiguration": {
                       "Configurations": [
                          {
                             "Destination": "string",
                             "Events": [ "string" ],
                             "Filter": {
                                "S3KeyFilter": {
                                   "FilterRules": [
                                      {
                                         "Name": "string",
                                         "Value": "string"
                                      }
                                   ]
                                }
                             },
                             "Type": "string"
                          }
                       ]
                    },
                    "BucketVersioningConfiguration": {
                       "IsMfaDeleteEnabled": boolean,
                       "Status": "string"
                    },
                    "BucketWebsiteConfiguration": {
                       "ErrorDocument": "string",
                       "IndexDocumentSuffix": "string",
                       "RedirectAllRequestsTo": {
                          "Hostname": "string",
                          "Protocol": "string"
                       },
                       "RoutingRules": [
                          {
                             "Condition": {
                                "HttpErrorCodeReturnedEquals": "string",
                                "KeyPrefixEquals": "string"
                             },
                             "Redirect": {
                                "Hostname": "string",
                                "HttpRedirectCode": "string",
```

```
                        "Protocol": "string",
                        "ReplaceKeyPrefixWith": "string",
                        "ReplaceKeyWith": "string"
                     }
                  }
               ]
            },
            "CreatedAt": "string",
            "Name": "string",
            "ObjectLockConfiguration": {
               "ObjectLockEnabled": "string",
               "Rule": {
                  "DefaultRetention": {
                     "Days": number,
                     "Mode": "string",
                     "Years": number
                  }
               }
            },
            "OwnerAccountId": "string",
            "OwnerId": "string",
            "OwnerName": "string",
            "PublicAccessBlockConfiguration": {
               "BlockPublicAcls": boolean,
               "BlockPublicPolicy": boolean,
               "IgnorePublicAcls": boolean,
               "RestrictPublicBuckets": boolean
            },
            "ServerSideEncryptionConfiguration": {
               "Rules": [
                  {
                     "ApplyServerSideEncryptionByDefault": {
                        "KMSMasterKeyID": "string",
                        "SSEAlgorithm": "string"
                     }
                  }
               ]
            }
         },
         "AwsS3Object": {
            "ContentType": "string",
            "ETag": "string",
            "LastModified": "string",
            "ServerSideEncryption": "string",
```

```
                "SSEKMSKeyId": "string",
                "VersionId": "string"
            },
            "AwsSageMakerNotebookInstance": {
                "AcceleratorTypes": [ "string" ],
                "AdditionalCodeRepositories": [ "string" ],
                "DefaultCodeRepository": "string",
                "DirectInternetAccess": "string",
                "FailureReason": "string",
                "InstanceMetadataServiceConfiguration": {
                    "MinimumInstanceMetadataServiceVersion": "string"
                },
                "InstanceType": "string",
                "KmsKeyId": "string",
                "NetworkInterfaceId": "string",
                "NotebookInstanceArn": "string",
                "NotebookInstanceLifecycleConfigName": "string",
                "NotebookInstanceName": "string",
                "NotebookInstanceStatus": "string",
                "PlatformIdentifier": "string",
                "RoleArn": "string",
                "RootAccess": "string",
                "SecurityGroups": [ "string" ],
                "SubnetId": "string",
                "Url": "string",
                "VolumeSizeInGB": number
            },
            "AwsSecretsManagerSecret": {
                "Deleted": boolean,
                "Description": "string",
                "KmsKeyId": "string",
                "Name": "string",
                "RotationEnabled": boolean,
                "RotationLambdaArn": "string",
                "RotationOccurredWithinFrequency": boolean,
                "RotationRules": {
                    "AutomaticallyAfterDays": number
                }
            },
            "AwsSnsTopic": {
                "ApplicationSuccessFeedbackRoleArn": "string",
                "FirehoseFailureFeedbackRoleArn": "string",
                "FirehoseSuccessFeedbackRoleArn": "string",
                "HttpFailureFeedbackRoleArn": "string",
```

```
                "HttpSuccessFeedbackRoleArn": "string",
                "KmsMasterKeyId": "string",
                "Owner": "string",
                "SqsFailureFeedbackRoleArn": "string",
                "SqsSuccessFeedbackRoleArn": "string",
                "Subscription": [
                    {
                        "Endpoint": "string",
                        "Protocol": "string"
                    }
                ],
                "TopicName": "string"
            },
            "AwsSqsQueue": {
                "DeadLetterTargetArn": "string",
                "KmsDataKeyReusePeriodSeconds": number,
                "KmsMasterKeyId": "string",
                "QueueName": "string"
            },
            "AwsSsmPatchCompliance": {
                "Patch": {
                    "ComplianceSummary": {
                        "ComplianceType": "string",
                        "CompliantCriticalCount": number,
                        "CompliantHighCount": number,
                        "CompliantInformationalCount": number,
                        "CompliantLowCount": number,
                        "CompliantMediumCount": number,
                        "CompliantUnspecifiedCount": number,
                        "ExecutionType": "string",
                        "NonCompliantCriticalCount": number,
                        "NonCompliantHighCount": number,
                        "NonCompliantInformationalCount": number,
                        "NonCompliantLowCount": number,
                        "NonCompliantMediumCount": number,
                        "NonCompliantUnspecifiedCount": number,
                        "OverallSeverity": "string",
                        "PatchBaselineId": "string",
                        "PatchGroup": "string",
                        "Status": "string"
                    }
                }
            },
            "AwsStepFunctionStateMachine": {
```

```
                "Label": "string",
                "LoggingConfiguration": {
                   "Destinations": [
                      {
                         "CloudWatchLogsLogGroup": {
                            "LogGroupArn": "string"
                         }
                      }
                   ],
                   "IncludeExecutionData": boolean,
                   "Level": "string"
                },
                "Name": "string",
                "RoleArn": "string",
                "StateMachineArn": "string",
                "Status": "string",
                "TracingConfiguration": {
                   "Enabled": boolean
                },
                "Type": "string"
             },
             "AwsWafRateBasedRule": {
                "MatchPredicates": [
                   {
                      "DataId": "string",
                      "Negated": boolean,
                      "Type": "string"
                   }
                ],
                "MetricName": "string",
                "Name": "string",
                "RateKey": "string",
                "RateLimit": number,
                "RuleId": "string"
             },
             "AwsWafRegionalRateBasedRule": {
                "MatchPredicates": [
                   {
                      "DataId": "string",
                      "Negated": boolean,
                      "Type": "string"
                   }
                ],
                "MetricName": "string",
```

```
                "Name": "string",
                "RateKey": "string",
                "RateLimit": number,
                "RuleId": "string"
            },
            "AwsWafRegionalRule": {
                "MetricName": "string",
                "Name": "string",
                "PredicateList": [
                    {
                        "DataId": "string",
                        "Negated": boolean,
                        "Type": "string"
                    }
                ],
                "RuleId": "string"
            },
            "AwsWafRegionalRuleGroup": {
                "MetricName": "string",
                "Name": "string",
                "RuleGroupId": "string",
                "Rules": [
                    {
                        "Action": {
                            "Type": "string"
                        },
                        "Priority": number,
                        "RuleId": "string",
                        "Type": "string"
                    }
                ]
            },
            "AwsWafRegionalWebAcl": {
                "DefaultAction": "string",
                "MetricName": "string",
                "Name": "string",
                "RulesList": [
                    {
                        "Action": {
                            "Type": "string"
                        },
                        "OverrideAction": {
                            "Type": "string"
                        },
```

```
                "Priority": number,
                "RuleId": "string",
                "Type": "string"
            }
        ],
        "WebAclId": "string"
    },
    "AwsWafRule": {
        "MetricName": "string",
        "Name": "string",
        "PredicateList": [
            {
                "DataId": "string",
                "Negated": boolean,
                "Type": "string"
            }
        ],
        "RuleId": "string"
    },
    "AwsWafRuleGroup": {
        "MetricName": "string",
        "Name": "string",
        "RuleGroupId": "string",
        "Rules": [
            {
                "Action": {
                    "Type": "string"
                },
                "Priority": number,
                "RuleId": "string",
                "Type": "string"
            }
        ]
    },
    "AwsWafv2RuleGroup": {
        "Arn": "string",
        "Capacity": number,
        "Description": "string",
        "Id": "string",
        "Name": "string",
        "Rules": [
            {
                "Action": {
                    "Allow": {
```

```
                "CustomRequestHandling": {
                    "InsertHeaders": [
                        {
                            "Name": "string",
                            "Value": "string"
                        }
                    ]
                }
            },
            "Block": {
                "CustomResponse": {
                    "CustomResponseBodyKey": "string",
                    "ResponseCode": number,
                    "ResponseHeaders": [
                        {
                            "Name": "string",
                            "Value": "string"
                        }
                    ]
                }
            },
            "Captcha": {
                "CustomRequestHandling": {
                    "InsertHeaders": [
                        {
                            "Name": "string",
                            "Value": "string"
                        }
                    ]
                }
            },
            "Count": {
                "CustomRequestHandling": {
                    "InsertHeaders": [
                        {
                            "Name": "string",
                            "Value": "string"
                        }
                    ]
                }
            }
        },
        "Name": "string",
        "OverrideAction": "string",
```

```
                    "Priority": number,
                    "VisibilityConfig": {
                       "CloudWatchMetricsEnabled": boolean,
                       "MetricName": "string",
                       "SampledRequestsEnabled": boolean
                    }
                 }
              ],
              "Scope": "string",
              "VisibilityConfig": {
                 "CloudWatchMetricsEnabled": boolean,
                 "MetricName": "string",
                 "SampledRequestsEnabled": boolean
              }
           },
           "AwsWafv2WebAcl": {
              "Arn": "string",
              "Capacity": number,
              "CaptchaConfig": {
                 "ImmunityTimeProperty": {
                    "ImmunityTime": number
                 }
              },
              "DefaultAction": {
                 "Allow": {
                    "CustomRequestHandling": {
                       "InsertHeaders": [
                          {
                             "Name": "string",
                             "Value": "string"
                          }
                       ]
                    }
                 },
                 "Block": {
                    "CustomResponse": {
                       "CustomResponseBodyKey": "string",
                       "ResponseCode": number,
                       "ResponseHeaders": [
                          {
                             "Name": "string",
                             "Value": "string"
                          }
                       ]
```

```
                    }
                }
            },
            "Description": "string",
            "Id": "string",
            "ManagedbyFirewallManager": boolean,
            "Name": "string",
            "Rules": [
                {
                    "Action": {
                        "Allow": {
                            "CustomRequestHandling": {
                                "InsertHeaders": [
                                    {
                                        "Name": "string",
                                        "Value": "string"
                                    }
                                ]
                            }
                        },
                        "Block": {
                            "CustomResponse": {
                                "CustomResponseBodyKey": "string",
                                "ResponseCode": number,
                                "ResponseHeaders": [
                                    {
                                        "Name": "string",
                                        "Value": "string"
                                    }
                                ]
                            }
                        },
                        "Captcha": {
                            "CustomRequestHandling": {
                                "InsertHeaders": [
                                    {
                                        "Name": "string",
                                        "Value": "string"
                                    }
                                ]
                            }
                        },
                        "Count": {
                            "CustomRequestHandling": {
```

```
                                "InsertHeaders": [
                                   {
                                      "Name": "string",
                                      "Value": "string"
                                   }
                                ]
                             }
                          }
                       },
                       "Name": "string",
                       "OverrideAction": "string",
                       "Priority": number,
                       "VisibilityConfig": {
                          "CloudWatchMetricsEnabled": boolean,
                          "MetricName": "string",
                          "SampledRequestsEnabled": boolean
                       }
                    }
                 ],
                 "VisibilityConfig": {
                    "CloudWatchMetricsEnabled": boolean,
                    "MetricName": "string",
                    "SampledRequestsEnabled": boolean
                 }
              },
              "AwsWafWebAcl": {
                 "DefaultAction": "string",
                 "Name": "string",
                 "Rules": [
                    {
                       "Action": {
                          "Type": "string"
                       },
                       "ExcludedRules": [
                          {
                             "RuleId": "string"
                          }
                       ],
                       "OverrideAction": {
                          "Type": "string"
                       },
                       "Priority": number,
                       "RuleId": "string",
                       "Type": "string"
```

```
                    }
                ],
                "WebAclId": "string"
            },
            "AwsXrayEncryptionConfig": {
                "KeyId": "string",
                "Status": "string",
                "Type": "string"
            },
            "CodeRepository": {
                "CodeSecurityIntegrationArn": "string",
                "ProjectName": "string",
                "ProviderType": "string"
            },
            "Container": {
                "ContainerRuntime": "string",
                "ImageId": "string",
                "ImageName": "string",
                "LaunchedAt": "string",
                "Name": "string",
                "Privileged": boolean,
                "VolumeMounts": [
                    {
                        "MountPath": "string",
                        "Name": "string"
                    }
                ]
            },
            "Other": {
                "string" : "string"
            }
        },
        "Id": "string",
        "Partition": "string",
        "Region": "string",
        "ResourceRole": "string",
        "Tags": {
            "string" : "string"
        },
        "Type": "string"
    }
],
"Sample": boolean,
"SchemaVersion": "string",
```

```
        "Severity": {
           "Label": "string",
           "Normalized": number,
           "Original": "string",
           "Product": number
        },
        "SourceUrl": "string",
        "ThreatIntelIndicators": [
           {
              "Category": "string",
              "LastObservedAt": "string",
              "Source": "string",
              "SourceUrl": "string",
              "Type": "string",
              "Value": "string"
           }
        ],
        "Threats": [
           {
              "FilePaths": [
                 {
                    "FileName": "string",
                    "FilePath": "string",
                    "Hash": "string",
                    "ResourceId": "string"
                 }
              ],
              "ItemCount": number,
              "Name": "string",
              "Severity": "string"
           }
        ],
        "Title": "string",
        "Types": [ "string" ],
        "UpdatedAt": "string",
        "UserDefinedFields": {
           "string" : "string"
        },
        "VerificationState": "string",
        "Vulnerabilities": [
           {
              "CodeVulnerabilities": [
                 {
                    "Cwes": [ "string" ],
```

```
                "FilePath": {
                   "EndLine": number,
                   "FileName": "string",
                   "FilePath": "string",
                   "StartLine": number
                },
                "SourceArn": "string"
             }
          ],
          "Cvss": [
             {
                "Adjustments": [
                   {
                      "Metric": "string",
                      "Reason": "string"
                   }
                ],
                "BaseScore": number,
                "BaseVector": "string",
                "Source": "string",
                "Version": "string"
             }
          ],
          "EpssScore": number,
          "ExploitAvailable": "string",
          "FixAvailable": "string",
          "Id": "string",
          "LastKnownExploitAt": "string",
          "ReferenceUrls": [ "string" ],
          "RelatedVulnerabilities": [ "string" ],
          "Vendor": {
             "Name": "string",
             "Url": "string",
             "VendorCreatedAt": "string",
             "VendorSeverity": "string",
             "VendorUpdatedAt": "string"
          },
          "VulnerablePackages": [
             {
                "Architecture": "string",
                "Epoch": "string",
                "FilePath": "string",
                "FixedInVersion": "string",
                "Name": "string",
```

```
                        "PackageManager": "string",
                        "Release": "string",
                        "Remediation": "string",
                        "SourceLayerArn": "string",
                        "SourceLayerHash": "string",
                        "Version": "string"
                    }
                ]
            }
        ],
        "Workflow": {
            "Status": "string"
        },
        "WorkflowState": "string"
    }
  ],
  "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Findings

The findings that matched the filters specified in the request.

Type: Array of AwsSecurityFinding objects

NextToken

The pagination token to use to request the next page of results.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetFindingStatisticsV2

Returns aggregated statistical data about findings. `GetFindingStatisticsV2` use `securityhub:GetAdhocInsightResults` in the `Action` element of an IAM policy statement. You must have permission to perform the s action.

Request Syntax

```
POST /findingsv2/statistics HTTP/1.1
Content-type: application/json

{
   "GroupByRules": [
      {
         "Filters": {
            "CompositeFilters": [
               {
                  "BooleanFilters": [
                     {
                        "FieldName": "string",
                        "Filter": {
                           "Value": boolean
                        }
                     }
                  ],
                  "DateFilters": [
                     {
                        "FieldName": "string",
                        "Filter": {
                           "DateRange": {
                              "Unit": "string",
                              "Value": number
                           },
                           "End": "string",
                           "Start": "string"
                        }
                     }
                  ],
                  "IpFilters": [
                     {
                        "FieldName": "string",
                        "Filter": {
```

```
                        "Cidr": "string"
                    }
                }
            ],
            "MapFilters": [
                {
                    "FieldName": "string",
                    "Filter": {
                        "Comparison": "string",
                        "Key": "string",
                        "Value": "string"
                    }
                }
            ],
            "NestedCompositeFilters": [
                "CompositeFilter"
            ],
            "NumberFilters": [
                {
                    "FieldName": "string",
                    "Filter": {
                        "Eq": number,
                        "Gt": number,
                        "Gte": number,
                        "Lt": number,
                        "Lte": number
                    }
                }
            ],
            "Operator": "string",
            "StringFilters": [
                {
                    "FieldName": "string",
                    "Filter": {
                        "Comparison": "string",
                        "Value": "string"
                    }
                }
            ]
        }
    ],
    "CompositeOperator": "string"
},
"GroupByField": "string"
```

```
        }
    ],
    "MaxStatisticResults": number,
    "SortOrder": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

GroupByRules

Specifies how security findings should be aggregated and organized in the statistical analysis. It can accept up to 5 `groupBy` fields in a single call.

Type: Array of GroupByRule objects

Required: Yes

MaxStatisticResults

The maximum number of results to be returned.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 400.

Required: No

SortOrder

Orders the aggregation count in descending or ascending order. Descending order is the default.

Type: String

Valid Values: `asc` | `desc`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "GroupByResults": [
      {
         "GroupByField": "string",
         "GroupByValues": [
            {
               "Count": number,
               "FieldValue": "string"
            }
         ]
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

GroupByResults

Aggregated statistics about security findings based on specified grouping criteria.

Type: Array of GroupByResult objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetFindingsTrendsV2

Returns findings trend data based on the specified criteria. This operation helps you analyze patterns and changes in findings over time.

Request Syntax

```
POST /findingsTrendsv2 HTTP/1.1
Content-type: application/json

{
   "EndTime": "string",
   "Filters": {
      "CompositeFilters": [
         {
            "NestedCompositeFilters": [
               "FindingsTrendsCompositeFilter"
            ],
            "Operator": "string",
            "StringFilters": [
               {
                  "FieldName": "string",
                  "Filter": {
                     "Comparison": "string",
                     "Value": "string"
                  }
               }
            ]
         }
      ],
      "CompositeOperator": "string"
   },
   "MaxResults": number,
   "NextToken": "string",
   "StartTime": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

EndTime

The ending timestamp for the time period to analyze findings trends, in ISO 8601 format.

Type: Timestamp

Required: Yes

Filters

The filters to apply to the findings trend data.

Type: ??? object

Required: No

MaxResults

The maximum number of trend data points to return in a single response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

The token to use for paginating results. This value is returned in the response if more results are available.

Type: String

Required: No

StartTime

The starting timestamp for the time period to analyze findings trends, in ISO 8601 format.

Type: Timestamp

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Granularity": "string",
   "NextToken": "string",
   "TrendsMetrics": [
      {
         "Timestamp": "string",
         "TrendsValues": {
            "SeverityTrends": {
               "Critical": number,
               "Fatal": number,
               "High": number,
               "Informational": number,
               "Low": number,
               "Medium": number,
               "Other": number,
               "Unknown": number
            }
         }
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Granularity

The time interval granularity for the returned trend data.

Type: String

Valid Values: `Daily | Weekly | Monthly`

NextToken

The token to use for retrieving the next page of results, if more trend data is available.

Type: String

TrendsMetrics

The collection of time-series trend metrics, including counts of findings by severity across the specified time period.

Type: Array of ??? objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetFindingsV2

Return a list of findings that match the specified criteria. `GetFindings` and `GetFindingsV2` both use `securityhub:GetFindings` in the `Action` element of an IAM policy statement. You must have permission to perform the `securityhub:GetFindings` action.

Request Syntax

```
POST /findingsv2 HTTP/1.1
Content-type: application/json

{
   "Filters": {
      "CompositeFilters": [
         {
            "BooleanFilters": [
               {
                  "FieldName": "string",
                  "Filter": {
                     "Value": boolean
                  }
               }
            ],
            "DateFilters": [
               {
                  "FieldName": "string",
                  "Filter": {
                     "DateRange": {
                        "Unit": "string",
                        "Value": number
                     },
                     "End": "string",
                     "Start": "string"
                  }
               }
            ],
            "IpFilters": [
               {
                  "FieldName": "string",
                  "Filter": {
                     "Cidr": "string"
                  }
```

```
                }
            ],
            "MapFilters": [
                {
                    "FieldName": "string",
                    "Filter": {
                        "Comparison": "string",
                        "Key": "string",
                        "Value": "string"
                    }
                }
            ],
            "NestedCompositeFilters": [
                "CompositeFilter"
            ],
            "NumberFilters": [
                {
                    "FieldName": "string",
                    "Filter": {
                        "Eq": number,
                        "Gt": number,
                        "Gte": number,
                        "Lt": number,
                        "Lte": number
                    }
                }
            ],
            "Operator": "string",
            "StringFilters": [
                {
                    "FieldName": "string",
                    "Filter": {
                        "Comparison": "string",
                        "Value": "string"
                    }
                }
            ]
        }
    ],
    "CompositeOperator": "string"
},
"MaxResults": number,
"NextToken": "string",
"SortCriteria": [
```

```
        {
            "Field": "string",
            "SortOrder": "string"
        }
    ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Filters

The finding attributes used to define a condition to filter the returned OCSF findings. You can filter up to 10 composite filters. For each filter type inside of a composite filter, you can provide up to 20 filters.

Type: OcsfFindingFilters object

Required: No

MaxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

The token required for pagination. On your first call, set the value of this parameter to NULL. For subsequent calls, to continue listing data, set the value of this parameter to the value returned in the previous response.

Type: String

Required: No

SortCriteria

The finding attributes used to sort the list of returned findings.

Type: Array of SortCriterion objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Findings": [ JSON value ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Findings

An array of security findings returned by the operation.

Type: Array of JSON values

NextToken

The pagination token to use to request the next page of results. Otherwise, this parameter is null.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetInsightResults

Lists the results of the Security Hub CSPM insight specified by the insight ARN.

Request Syntax

```
GET /insights/results/InsightArn+ HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

InsightArn

The ARN of the insight for which to return results.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "InsightResults": {
      "GroupByAttribute": "string",
      "InsightArn": "string",
      "ResultValues": [
         {
            "Count": number,
            "GroupByAttributeValue": "string"
         }
      ]
   }
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

InsightResults

The insight results returned by the operation.

Type: InsightResults object

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetInsights

Lists and describes insights for the specified insight ARNs.

Request Syntax

```
POST /insights/get HTTP/1.1
Content-type: application/json

{
   "InsightArns": [ "string" ],
   "MaxResults": number,
   "NextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

InsightArns

The ARNs of the insights to describe. If you don't provide any insight ARNs, then `GetInsights` returns all of your custom insights. It does not return any managed insights.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

MaxResults

The maximum number of items to return in the response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

The token that is required for pagination. On your first call to the `GetInsights` operation, set the value of this parameter to `NULL`.

For subsequent calls to the operation, to continue listing data, set the value of this parameter to the value returned from the previous response.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Insights": [
      {
         "Filters": {
            "AwsAccountId": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "AwsAccountName": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "CompanyName": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ComplianceAssociatedStandardsId": [
               {
                  "Comparison": "string",
                  "Value": "string"
```

```
            }
        ],
        "ComplianceSecurityControlId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ComplianceSecurityControlParametersName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ComplianceSecurityControlParametersValue": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ComplianceStatus": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "Confidence": [
            {
                "Eq": number,
                "Gt": number,
                "Gte": number,
                "Lt": number,
                "Lte": number
            }
        ],
        "CreatedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
```

```
            ],
            "Criticality": [
               {
                  "Eq": number,
                  "Gt": number,
                  "Gte": number,
                  "Lt": number,
                  "Lte": number
               }
            ],
            "Description": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "FindingProviderFieldsConfidence": [
               {
                  "Eq": number,
                  "Gt": number,
                  "Gte": number,
                  "Lt": number,
                  "Lte": number
               }
            ],
            "FindingProviderFieldsCriticality": [
               {
                  "Eq": number,
                  "Gt": number,
                  "Gte": number,
                  "Lt": number,
                  "Lte": number
               }
            ],
            "FindingProviderFieldsRelatedFindingsId": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "FindingProviderFieldsRelatedFindingsProductArn": [
               {
                  "Comparison": "string",
                  "Value": "string"
```

```
            }
        ],
        "FindingProviderFieldsSeverityLabel": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "FindingProviderFieldsSeverityOriginal": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "FindingProviderFieldsTypes": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "FirstObservedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "GeneratorId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "Id": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "Keyword": [
            {
```

```
                "Value": "string"
            }
        ],
        "LastObservedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "MalwareName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "MalwarePath": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "MalwareState": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "MalwareType": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkDestinationDomain": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkDestinationIpV4": [
```

```
                {
                    "Cidr": "string"
                }
            ],
            "NetworkDestinationIpV6": [
                {
                    "Cidr": "string"
                }
            ],
            "NetworkDestinationPort": [
                {
                    "Eq": number,
                    "Gt": number,
                    "Gte": number,
                    "Lt": number,
                    "Lte": number
                }
            ],
            "NetworkDirection": [
                {
                    "Comparison": "string",
                    "Value": "string"
                }
            ],
            "NetworkProtocol": [
                {
                    "Comparison": "string",
                    "Value": "string"
                }
            ],
            "NetworkSourceDomain": [
                {
                    "Comparison": "string",
                    "Value": "string"
                }
            ],
            "NetworkSourceIpV4": [
                {
                    "Cidr": "string"
                }
            ],
            "NetworkSourceIpV6": [
                {
                    "Cidr": "string"
```

```
            }
        ],
        "NetworkSourceMac": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkSourcePort": [
            {
                "Eq": number,
                "Gt": number,
                "Gte": number,
                "Lt": number,
                "Lte": number
            }
        ],
        "NoteText": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NoteUpdatedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "NoteUpdatedBy": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ProcessLaunchedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
```

```
                    },
                    "End": "string",
                    "Start": "string"
                }
            ],
            "ProcessName": [
                {
                    "Comparison": "string",
                    "Value": "string"
                }
            ],
            "ProcessParentPid": [
                {
                    "Eq": number,
                    "Gt": number,
                    "Gte": number,
                    "Lt": number,
                    "Lte": number
                }
            ],
            "ProcessPath": [
                {
                    "Comparison": "string",
                    "Value": "string"
                }
            ],
            "ProcessPid": [
                {
                    "Eq": number,
                    "Gt": number,
                    "Gte": number,
                    "Lt": number,
                    "Lte": number
                }
            ],
            "ProcessTerminatedAt": [
                {
                    "DateRange": {
                        "Unit": "string",
                        "Value": number
                    },
                    "End": "string",
                    "Start": "string"
                }
```

```
            ],
            "ProductArn": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ProductFields": [
               {
                  "Comparison": "string",
                  "Key": "string",
                  "Value": "string"
               }
            ],
            "ProductName": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "RecommendationText": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "RecordState": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "Region": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "RelatedFindingsId": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
```

```
            "RelatedFindingsProductArn": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceApplicationArn": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceApplicationName": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceAwsEc2InstanceIamInstanceProfileArn": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceAwsEc2InstanceImageId": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceAwsEc2InstanceIpV4Addresses": [
               {
                  "Cidr": "string"
               }
            ],
            "ResourceAwsEc2InstanceIpV6Addresses": [
               {
                  "Cidr": "string"
               }
            ],
            "ResourceAwsEc2InstanceKeyName": [
               {
                  "Comparison": "string",
                  "Value": "string"
```

```
            }
        ],
        "ResourceAwsEc2InstanceLaunchedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "ResourceAwsEc2InstanceSubnetId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceType": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceVpcId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsIamAccessKeyCreatedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "ResourceAwsIamAccessKeyPrincipalName": [
            {
                "Comparison": "string",
                "Value": "string"
```

```
            }
        ],
        "ResourceAwsIamAccessKeyStatus": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsIamAccessKeyUserName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsIamUserUserName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsS3BucketOwnerId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsS3BucketOwnerName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceContainerImageId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceContainerImageName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
```

```
            "ResourceContainerLaunchedAt": [
               {
                  "DateRange": {
                     "Unit": "string",
                     "Value": number
                  },
                  "End": "string",
                  "Start": "string"
               }
            ],
            "ResourceContainerName": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceDetailsOther": [
               {
                  "Comparison": "string",
                  "Key": "string",
                  "Value": "string"
               }
            ],
            "ResourceId": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourcePartition": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceRegion": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ResourceTags": [
               {
                  "Comparison": "string",
```

```
                "Key": "string",
                "Value": "string"
            }
        ],
        "ResourceType": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "Sample": [
            {
                "Value": boolean
            }
        ],
        "SeverityLabel": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "SeverityNormalized": [
            {
                "Eq": number,
                "Gt": number,
                "Gte": number,
                "Lt": number,
                "Lte": number
            }
        ],
        "SeverityProduct": [
            {
                "Eq": number,
                "Gt": number,
                "Gte": number,
                "Lt": number,
                "Lte": number
            }
        ],
        "SourceUrl": [
            {
                "Comparison": "string",
                "Value": "string"
            }
```

```
            ],
            "ThreatIntelIndicatorCategory": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ThreatIntelIndicatorLastObservedAt": [
               {
                  "DateRange": {
                     "Unit": "string",
                     "Value": number
                  },
                  "End": "string",
                  "Start": "string"
               }
            ],
            "ThreatIntelIndicatorSource": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ThreatIntelIndicatorSourceUrl": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ThreatIntelIndicatorType": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "ThreatIntelIndicatorValue": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "Title": [
               {
                  "Comparison": "string",
```

```
                "Value": "string"
            }
        ],
        "Type": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "UpdatedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "UserDefinedFields": [
            {
                "Comparison": "string",
                "Key": "string",
                "Value": "string"
            }
        ],
        "VerificationState": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "VulnerabilitiesExploitAvailable": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "VulnerabilitiesFixAvailable": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
```

```
            "WorkflowState": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ],
            "WorkflowStatus": [
               {
                  "Comparison": "string",
                  "Value": "string"
               }
            ]
         },
         "GroupByAttribute": "string",
         "InsightArn": "string",
         "Name": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Insights

The insights returned by the operation.

Type: Array of Insight objects

NextToken

The pagination token to use to request the next page of results.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetInvitationsCount

> **Note**
>
> We recommend using AWS Organizations instead of Security Hub CSPM invitations to manage your member accounts. For information, see Managing Security Hub CSPM administrator and member accounts with Organizations in the *AWS Security Hub CSPM User Guide*.

Returns the count of all Security Hub CSPM membership invitations that were sent to the calling member account, not including the currently accepted invitation.

Request Syntax

```
GET /invitations/count HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "InvitationsCount": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

InvitationsCount

The number of all membership invitations sent to this Security Hub CSPM member account, not including the currently accepted invitation.

Type: Integer

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetMasterAccount

This method is deprecated. Instead, use `GetAdministratorAccount`.

The Security Hub CSPM console continues to use `GetMasterAccount`. It will eventually change to use `GetAdministratorAccount`. Any IAM policies that specifically control access to this function must continue to use `GetMasterAccount`. You should also add `GetAdministratorAccount` to your policies to ensure that the correct permissions are in place after the console begins to use `GetAdministratorAccount`.

Provides the details for the Security Hub CSPM administrator account for the current member account.

Can be used by both member accounts that are managed using Organizations and accounts that were invited manually.

Request Syntax

```
GET /master HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Master": {
      "AccountId": "string",
      "InvitationId": "string",
      "InvitedAt": "string",
      "MemberStatus": "string"
   }
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Master

A list of details about the Security Hub CSPM administrator account for the current member account.

Type: Invitation object

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetMembers

Returns the details for the Security Hub CSPM member accounts for the specified account IDs.

An administrator account can be either the delegated Security Hub CSPM administrator account for an organization or an administrator account that enabled Security Hub CSPM manually.

The results include both member accounts that are managed using Organizations and accounts that were invited manually.

Request Syntax

```
POST /members/get HTTP/1.1
Content-type: application/json

{
   "AccountIds": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AccountIds

The list of account IDs for the Security Hub CSPM member accounts to return the details for.

Type: Array of strings

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "Members": [
      {
         "AccountId": "string",
         "AdministratorId": "string",
         "Email": "string",
         "InvitedAt": "string",
         "MasterId": "string",
         "MemberStatus": "string",
         "UpdatedAt": "string"
      }
   ],
   "UnprocessedAccounts": [
      {
         "AccountId": "string",
         "ProcessingResult": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Members

The list of details about the Security Hub CSPM member accounts.

Type: Array of Member objects

UnprocessedAccounts

The list of AWS accounts that could not be processed. For each account, the list includes the account ID and the email address.

Type: Array of Result objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetResourcesStatisticsV2

Retrieves statistical information about AWS resources and their associated security findings.

Request Syntax

```
POST /resourcesv2/statistics HTTP/1.1
Content-type: application/json

{
   "GroupByRules": [
      {
         "Filters": {
            "CompositeFilters": [
               {
                  "DateFilters": [
                     {
                        "FieldName": "string",
                        "Filter": {
                           "DateRange": {
                              "Unit": "string",
                              "Value": number
                           },
                           "End": "string",
                           "Start": "string"
                        }
                     }
                  ],
                  "MapFilters": [
                     {
                        "FieldName": "string",
                        "Filter": {
                           "Comparison": "string",
                           "Key": "string",
                           "Value": "string"
                        }
                     }
                  ],
                  "NestedCompositeFilters": [
                     "ResourcesCompositeFilter"
                  ],
                  "NumberFilters": [
                     {
```

```
                        "FieldName": "string",
                        "Filter": {
                           "Eq": number,
                           "Gt": number,
                           "Gte": number,
                           "Lt": number,
                           "Lte": number
                        }
                     }
                  ],
                  "Operator": "string",
                  "StringFilters": [
                     {
                        "FieldName": "string",
                        "Filter": {
                           "Comparison": "string",
                           "Value": "string"
                        }
                     }
                  ]
               }
            ],
            "CompositeOperator": "string"
         },
         "GroupByField": "string"
      }
   ],
   "MaxStatisticResults": number,
   "SortOrder": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

GroupByRules

How resource statistics should be aggregated and organized in the response.

Type: Array of ResourceGroupByRule objects

Required: Yes

MaxStatisticResults

The maximum number of results to be returned.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 400.

Required: No

SortOrder

Sorts aggregated statistics.

Type: String

Valid Values: `asc | desc`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "GroupByResults": [
      {
         "GroupByField": "string",
         "GroupByValues": [
            {
               "Count": number,
               "FieldValue": "string"
            }
         ]
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

GroupByResults

The aggregated statistics about resources based on the specified grouping rule.

Type: Array of GroupByResult objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetResourcesTrendsV2

Returns resource trend data based on the specified criteria. This operation helps you analyze patterns and changes in resource compliance over time.

Request Syntax

```
POST /resourcesTrendsv2 HTTP/1.1
Content-type: application/json

{
   "EndTime": "string",
   "Filters": {
      "CompositeFilters": [
         {
            "NestedCompositeFilters": [
               "ResourcesTrendsCompositeFilter"
            ],
            "Operator": "string",
            "StringFilters": [
               {
                  "FieldName": "string",
                  "Filter": {
                     "Comparison": "string",
                     "Value": "string"
                  }
               }
            ]
         }
      ],
      "CompositeOperator": "string"
   },
   "MaxResults": number,
   "NextToken": "string",
   "StartTime": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

EndTime

The ending timestamp for the time period to analyze resources trends, in ISO 8601 format.

Type: Timestamp

Required: Yes

Filters

The filters to apply to the resources trend data.

Type: ??? object

Required: No

MaxResults

The maximum number of trend data points to return in a single response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

The token to use for paginating results. This value is returned in the response if more results are available.

Type: String

Required: No

StartTime

The starting timestamp for the time period to analyze resources trends, in ISO 8601 format.

Type: Timestamp

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Granularity": "string",
   "NextToken": "string",
   "TrendsMetrics": [
      {
         "Timestamp": "string",
         "TrendsValues": {
            "ResourcesCount": {
               "AllResources": number
            }
         }
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Granularity

The time interval granularity for the returned trend data (such as DAILY or WEEKLY).

Type: String

Valid Values: `Daily | Weekly | Monthly`

NextToken

The token to use for retrieving the next page of results, if more trend data is available.

Type: String

TrendsMetrics

The collection of time-series trend metrics, including counts of resources across the specified time period.

Type: Array of ??? objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetResourcesV2

Returns a list of resources.

Request Syntax

```
POST /resourcesv2 HTTP/1.1
Content-type: application/json

{
   "Filters": {
      "CompositeFilters": [
         {
            "DateFilters": [
               {
                  "FieldName": "string",
                  "Filter": {
                     "DateRange": {
                        "Unit": "string",
                        "Value": number
                     },
                     "End": "string",
                     "Start": "string"
                  }
               }
            ],
            "MapFilters": [
               {
                  "FieldName": "string",
                  "Filter": {
                     "Comparison": "string",
                     "Key": "string",
                     "Value": "string"
                  }
               }
            ],
            "NestedCompositeFilters": [
               "ResourcesCompositeFilter"
            ],
            "NumberFilters": [
               {
                  "FieldName": "string",
                  "Filter": {
```

```
                        "Eq": number,
                        "Gt": number,
                        "Gte": number,
                        "Lt": number,
                        "Lte": number
                     }
                  }
               ],
               "Operator": "string",
               "StringFilters": [
                  {
                     "FieldName": "string",
                     "Filter": {
                        "Comparison": "string",
                        "Value": "string"
                     }
                  }
               ]
            }
         ],
         "CompositeOperator": "string"
      },
      "MaxResults": number,
      "NextToken": "string",
      "SortCriteria": [
         {
            "Field": "string",
            "SortOrder": "string"
         }
      ]
   }
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Filters

Filters resources based on a set of criteria.

Type: ResourcesFilters object

Required: No

MaxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

The token required for pagination. On your first call, set the value of this parameter to NULL. For subsequent calls, to continue listing data, set the value of this parameter to the value returned in the previous response.

Type: String

Required: No

SortCriteria

The finding attributes used to sort the list of returned findings.

Type: Array of SortCriterion objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "NextToken": "string",
   "Resources": [
      {
         "AccountId": "string",
         "FindingsSummary": [
            {
               "FindingType": "string",
```

```
                "ProductName": "string",
                "Severities": {
                   "Critical": number,
                   "Fatal": number,
                   "High": number,
                   "Informational": number,
                   "Low": number,
                   "Medium": number,
                   "Other": number,
                   "Unknown": number
                },
                "TotalFindings": number
             }
          ],
          "Region": "string",
          "ResourceCategory": "string",
          "ResourceConfig": JSON value,
          "ResourceCreationTimeDt": "string",
          "ResourceDetailCaptureTimeDt": "string",
          "ResourceGuid": "string",
          "ResourceId": "string",
          "ResourceName": "string",
          "ResourceTags": [
             {
                "Key": "string",
                "Value": "string"
             }
          ],
          "ResourceType": "string"
       }
    ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

The pagination token to use to request the next page of results. Otherwise, this parameter is null.

Type: String

Resources

Filters resources based on a set of criteria.

Type: Array of ResourceResult objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetSecurityControlDefinition

Retrieves the definition of a security control. The definition includes the control title, description, Region availability, parameter definitions, and other details.

Request Syntax

```
GET /securityControl/definition?SecurityControlId=SecurityControlId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

SecurityControlId

The ID of the security control to retrieve the definition for. This field doesn't accept an Amazon Resource Name (ARN).

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "SecurityControlDefinition": {
      "CurrentRegionAvailability": "string",
      "CustomizableProperties": [ "string" ],
      "Description": "string",
      "ParameterDefinitions": {
         "string" : {
            "ConfigurationOptions": { ... },
```

```
            "Description": "string"
         }
      },
      "RemediationUrl": "string",
      "SecurityControlId": "string",
      "SeverityRating": "string",
      "Title": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

SecurityControlDefinition

Provides metadata for a security control, including its unique standard-agnostic identifier, title, description, severity, availability in AWS Regions, and a link to remediation steps.

Type: SecurityControlDefinition object

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

InviteMembers

> **Note**
>
> We recommend using AWS Organizations instead of Security Hub CSPM invitations to manage your member accounts. For information, see Managing Security Hub CSPM administrator and member accounts with Organizations in the *AWS Security Hub CSPM User Guide*.

Invites other AWS accounts to become member accounts for the Security Hub CSPM administrator account that the invitation is sent from.

This operation is only used to invite accounts that don't belong to an AWS organization. Organization accounts don't receive invitations.

Before you can use this action to invite a member, you must first use the `CreateMembers` action to create the member account in Security Hub CSPM.

When the account owner enables Security Hub CSPM and accepts the invitation to become a member account, the administrator account can view the findings generated in the member account.

Request Syntax

```
POST /members/invite HTTP/1.1
Content-type: application/json

{
   "AccountIds": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AccountIds

The list of account IDs of the AWS accounts to invite to Security Hub CSPM as members.

Type: Array of strings

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "UnprocessedAccounts": [
      {
         "AccountId": "string",
         "ProcessingResult": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

UnprocessedAccounts

The list of AWS accounts that could not be processed. For each account, the list includes the account ID and the email address.

Type: Array of Result objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListAggregatorsV2

Retrieves a list of V2 aggregators.

Request Syntax

```
GET /aggregatorv2/list?MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

The token required for pagination. On your first call, set the value of this parameter to NULL. For subsequent calls, to continue listing data, set the value of this parameter to the value returned in the previous response.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "AggregatorsV2": [
      {
         "AggregatorV2Arn": "string"
      }
   ],
   "NextToken": "string"
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AggregatorsV2

An array of aggregators.

Type: Array of AggregatorV2 objects

NextToken

The pagination token to use to request the next page of results. Otherwise, this parameter is null.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListAutomationRules

A list of automation rules and their metadata for the calling account.

Request Syntax

```
GET /automationrules/list?MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of rules to return in the response. This currently ranges from 1 to 100.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

A token to specify where to start paginating the response. This is the `NextToken` from a previously truncated response. On your first call to the `ListAutomationRules` API, set the value of this parameter to `NULL`.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "AutomationRulesMetadata": [
      {
         "CreatedAt": "string",
         "CreatedBy": "string",
         "Description": "string",
         "IsTerminal": boolean,
         "RuleArn": "string",
```

```
            "RuleName": "string",
            "RuleOrder": number,
            "RuleStatus": "string",
            "UpdatedAt": "string"
        }
    ],
    "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AutomationRulesMetadata

Metadata for rules in the calling account. The response includes rules with a `RuleStatus` of `ENABLED` and `DISABLED`.

Type: Array of AutomationRulesMetadata objects

NextToken

A pagination token for the response.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListAutomationRulesV2

Returns a list of automation rules and metadata for the calling account.

Request Syntax

```
GET /automationrulesv2/list?MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

The token required for pagination. On your first call, set the value of this parameter to NULL. For subsequent calls, to continue listing data, set the value of this parameter to the value returned in the previous response.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "NextToken": "string",
   "Rules": [
      {
         "Actions": [
            {
               "Type": "string"
```

```
            }
        ],
        "CreatedAt": "string",
        "Description": "string",
        "RuleArn": "string",
        "RuleId": "string",
        "RuleName": "string",
        "RuleOrder": number,
        "RuleStatus": "string",
        "UpdatedAt": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

The pagination token to use to request the next page of results. Otherwise, this parameter is null.

Type: String

Rules

An array of automation rules.

Type: Array of AutomationRulesMetadataV2 objects

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListConfigurationPolicies

Lists the configuration policies that the AWS Security Hub CSPM delegated administrator has created for your organization. Only the delegated administrator can invoke this operation from the home Region.

Request Syntax

```
GET /configurationPolicy/list?MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of results that's returned by `ListConfigurationPolicies` in each page of the response. When this parameter is used, `ListConfigurationPolicies` returns the specified number of results in a single page and a `NextToken` response element. You can see the remaining results of the initial request by sending another `ListConfigurationPolicies` request with the returned `NextToken` value. A valid range for `MaxResults` is between 1 and 100.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

The NextToken value that's returned from a previous paginated `ListConfigurationPolicies` request where `MaxResults` was used but the results exceeded the value of that parameter. Pagination continues from the `MaxResults` was used but the results exceeded the value of that parameter. Pagination continues from the end of the previous response that returned the `NextToken` value. This value is `null` when there are no more results to return.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "ConfigurationPolicySummaries": [
      {
         "Arn": "string",
         "Description": "string",
         "Id": "string",
         "Name": "string",
         "ServiceEnabled": boolean,
         "UpdatedAt": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ConfigurationPolicySummaries

Provides metadata for each of your configuration policies.

Type: Array of ConfigurationPolicySummary objects

NextToken

The `NextToken` value to include in the next `ListConfigurationPolicies` request. When the results of a `ListConfigurationPolicies` request exceed `MaxResults`, this value can be used to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListConfigurationPolicyAssociations

Provides information about the associations for your configuration policies and self-managed behavior. Only the AWS Security Hub CSPM delegated administrator can invoke this operation from the home Region.

Request Syntax

```
POST /configurationPolicyAssociation/list HTTP/1.1
Content-type: application/json

{
   "Filters": {
      "AssociationStatus": "string",
      "AssociationType": "string",
      "ConfigurationPolicyId": "string"
   },
   "MaxResults": number,
   "NextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Filters

Options for filtering the `ListConfigurationPolicyAssociations` response. You can filter by the Amazon Resource Name (ARN) or universally unique identifier (UUID) of a configuration, `AssociationType`, or `AssociationStatus`.

Type: AssociationFilters object

Required: No

MaxResults

The maximum number of results that's returned by `ListConfigurationPolicies` in each page of the response. When this parameter is used, `ListConfigurationPolicyAssociations` returns the specified number of results in a single page and a `NextToken` response element. You can see the remaining results of the initial request by sending another `ListConfigurationPolicyAssociations` request with the returned `NextToken` value. A valid range for `MaxResults` is between 1 and 100.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken

The `NextToken` value that's returned from a previous paginated `ListConfigurationPolicyAssociations` request where `MaxResults` was used but the results exceeded the value of that parameter. Pagination continues from the end of the previous response that returned the `NextToken` value. This value is `null` when there are no more results to return.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "ConfigurationPolicyAssociationSummaries": [
      {
         "AssociationStatus": "string",
         "AssociationStatusMessage": "string",
         "AssociationType": "string",
         "ConfigurationPolicyId": "string",
         "TargetId": "string",
         "TargetType": "string",
```

```
            "UpdatedAt": "string"
        }
    ],
    "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ConfigurationPolicyAssociationSummaries

An object that contains the details of each configuration policy association that's returned in a `ListConfigurationPolicyAssociations` request.

Type: Array of ConfigurationPolicyAssociationSummary objects

NextToken

The `NextToken` value to include in the next `ListConfigurationPolicyAssociations` request. When the results of a `ListConfigurationPolicyAssociations` request exceed `MaxResults`, this value can be used to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListConnectorsV2

Grants permission to retrieve a list of connectorsV2 and their metadata for the calling account.

Request Syntax

```
GET /connectorsv2?
ConnectorStatus=ConnectorStatus&MaxResults=MaxResults&NextToken=NextToken&ProviderName=Provider
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ConnectorStatus

The status for the connectorV2.

Valid Values: `CONNECTED | FAILED_TO_CONNECT | PENDING_CONFIGURATION | PENDING_AUTHORIZATION`

MaxResults

The maximum number of results to be returned.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

The pagination token per the AWS Pagination standard

ProviderName

The name of the third-party provider.

Valid Values: `JIRA_CLOUD | SERVICENOW`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Connectors": [
      {
         "ConnectorArn": "string",
         "ConnectorId": "string",
         "CreatedAt": "string",
         "Description": "string",
         "Name": "string",
         "ProviderSummary": {
            "ConnectorStatus": "string",
            "ProviderName": "string"
         }
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Connectors

An array of connectorV2 summaries.

Type: Array of ConnectorSummary objects

NextToken

The pagination token to use to request the next page of results. Otherwise, this parameter is null.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListEnabledProductsForImport

Lists all findings-generating solutions (products) that you are subscribed to receive findings from in Security Hub CSPM.

Request Syntax

```
GET /productSubscriptions?MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of items to return in the response.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

The token that is required for pagination. On your first call to the `ListEnabledProductsForImport` operation, set the value of this parameter to `NULL`.

For subsequent calls to the operation, to continue listing data, set the value of this parameter to the value returned from the previous response.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "NextToken": "string",
   "ProductSubscriptions": [ "string" ]
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

The pagination token to use to request the next page of results.

Type: String

ProductSubscriptions

The list of ARNs for the resources that represent your subscriptions to products.

Type: Array of strings

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListFindingAggregators

If cross-Region aggregation is enabled, then `ListFindingAggregators` returns the Amazon Resource Name (ARN) of the finding aggregator. You can run this operation from any AWS Region.

Request Syntax

```
GET /findingAggregator/list?MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of results to return. This operation currently only returns a single result.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

The token returned with the previous set of results. Identifies the next set of results to return.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "FindingAggregators": [
      {
         "FindingAggregatorArn": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

FindingAggregators

The list of finding aggregators. This operation currently only returns a single result.

Type: Array of FindingAggregator objects

NextToken

If there are more results, this is the token to provide in the next call to `ListFindingAggregators`.

This operation currently only returns a single result.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListInvitations

> **Note**
>
> We recommend using AWS Organizations instead of Security Hub CSPM invitations to manage your member accounts. For information, see Managing Security Hub CSPM administrator and member accounts with Organizations in the *AWS Security Hub CSPM User Guide*.

Lists all Security Hub CSPM membership invitations that were sent to the calling account.

Only accounts that are managed by invitation can use this operation. Accounts that are managed using the integration with Organizations don't receive invitations.

Request Syntax

```
GET /invitations?MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of items to return in the response.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken

The token that is required for pagination. On your first call to the `ListInvitations` operation, set the value of this parameter to `NULL`.

For subsequent calls to the operation, to continue listing data, set the value of this parameter to the value returned from the previous response.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Invitations": [
      {
         "AccountId": "string",
         "InvitationId": "string",
         "InvitedAt": "string",
         "MemberStatus": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Invitations

The details of the invitations returned by the operation.

Type: Array of Invitation objects

NextToken

The pagination token to use to request the next page of results.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

ListMembers

Lists details about all member accounts for the current Security Hub CSPM administrator account.

The results include both member accounts that belong to an organization and member accounts that were invited manually.

Request Syntax

```
GET /members?MaxResults=MaxResults&NextToken=NextToken&OnlyAssociated=OnlyAssociated
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of items to return in the response.

Valid Range: Minimum value of 1. Maximum value of 50.

NextToken

The token that is required for pagination. On your first call to the `ListMembers` operation, set the value of this parameter to `NULL`.

For subsequent calls to the operation, to continue listing data, set the value of this parameter to the value returned from the previous response.

OnlyAssociated

Specifies which member accounts to include in the response based on their relationship status with the administrator account. The default value is `TRUE`.

If `OnlyAssociated` is set to `TRUE`, the response includes member accounts whose relationship status with the administrator account is set to `ENABLED`.

If `OnlyAssociated` is set to `FALSE`, the response includes all existing member accounts.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Members": [
      {
         "AccountId": "string",
         "AdministratorId": "string",
         "Email": "string",
         "InvitedAt": "string",
         "MasterId": "string",
         "MemberStatus": "string",
         "UpdatedAt": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Members

Member details returned by the operation.

Type: Array of Member objects

NextToken

The pagination token to use to request the next page of results.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

ListOrganizationAdminAccounts

Lists the Security Hub CSPM administrator accounts. Can only be called by the organization management account.

Request Syntax

```
GET /organization/admin?Feature=Feature&MaxResults=MaxResults&NextToken=NextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Feature

The feature where the delegated administrator account is listed. Defaults to Security Hub CSPM if not specified.

Valid Values: `SecurityHub | SecurityHubV2`

MaxResults

The maximum number of items to return in the response.

Valid Range: Minimum value of 1. Maximum value of 10.

NextToken

The token that is required for pagination. On your first call to the `ListOrganizationAdminAccounts` operation, set the value of this parameter to `NULL`. For subsequent calls to the operation, to continue listing data, set the value of this parameter to the value returned from the previous response.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "AdminAccounts": [
      {
         "AccountId": "string",
         "Status": "string"
      }
   ],
   "Feature": "string",
   "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AdminAccounts

The list of Security Hub CSPM administrator accounts.

Type: Array of AdminAccount objects

Feature

The feature where the delegated administrator account is listed. Defaults to Security Hub CSPM CSPM if not specified.

Type: String

Valid Values: `SecurityHub | SecurityHubV2`

NextToken

The pagination token to use to request the next page of results.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

ListSecurityControlDefinitions

Lists all of the security controls that apply to a specified standard.

Request Syntax

```
GET /securityControls/definitions?
MaxResults=MaxResults&NextToken=NextToken&StandardsArn=StandardsArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

An optional parameter that limits the total results of the API response to the specified number. If this parameter isn't provided in the request, the results include the first 25 security controls that apply to the specified standard. The results also include a `NextToken` parameter that you can use in a subsequent API call to get the next 25 controls. This repeats until all controls for the standard are returned.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

Optional pagination parameter.

StandardsArn

The Amazon Resource Name (ARN) of the standard that you want to view controls for.

Pattern: `.*\S.*`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "NextToken": "string",
   "SecurityControlDefinitions": [
      {
         "CurrentRegionAvailability": "string",
         "CustomizableProperties": [ "string" ],
         "Description": "string",
         "ParameterDefinitions": {
            "string" : {
               "ConfigurationOptions": { ... },
               "Description": "string"
            }
         },
         "RemediationUrl": "string",
         "SecurityControlId": "string",
         "SeverityRating": "string",
         "Title": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A pagination parameter that's included in the response only if it was included in the request.

Type: String

SecurityControlDefinitions

An array of controls that apply to the specified standard.

Type: Array of SecurityControlDefinition objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

ListStandardsControlAssociations

Specifies whether a control is currently enabled or disabled in each enabled standard in the calling account.

This operation omits standards control associations for standard subscriptions where `StandardsControlsUpdatable` has value `NOT_READY_FOR_UPDATES`.

Request Syntax

```
GET /associations?
MaxResults=MaxResults&NextToken=NextToken&SecurityControlId=SecurityControlId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

An optional parameter that limits the total results of the API response to the specified number. If this parameter isn't provided in the request, the results include the first 25 standard and control associations. The results also include a `NextToken` parameter that you can use in a subsequent API call to get the next 25 associations. This repeats until all associations for the specified control are returned. The number of results is limited by the number of supported Security Hub CSPM standards that you've enabled in the calling account.

Valid Range: Minimum value of 1. Maximum value of 100.

NextToken

Optional pagination parameter.

SecurityControlId

The identifier of the control (identified with `SecurityControlId`, `SecurityControlArn`, or a mix of both parameters) that you want to determine the enablement status of in each enabled standard.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "NextToken": "string",
   "StandardsControlAssociationSummaries": [
      {
         "AssociationStatus": "string",
         "RelatedRequirements": [ "string" ],
         "SecurityControlArn": "string",
         "SecurityControlId": "string",
         "StandardsArn": "string",
         "StandardsControlDescription": "string",
         "StandardsControlTitle": "string",
         "UpdatedAt": "string",
         "UpdatedReason": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken

A pagination parameter that's included in the response only if it was included in the request.

Type: String

StandardsControlAssociationSummaries

An array that provides the enablement status and other details for each security control that applies to each enabled standard.

Type: Array of StandardsControlAssociationSummary objects

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTagsForResource

Returns a list of tags associated with a resource.

Request Syntax

```
GET /tags/ResourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ResourceArn

The ARN of the resource to retrieve tags for.

Pattern: `^arn:aws:securityhub:.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Tags": {
      "string" : "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Tags

The tags associated with a resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

RegisterConnectorV2

Grants permission to complete the authorization based on input parameters.

Request Syntax

```
POST /connectorsv2/register HTTP/1.1
Content-type: application/json

{
   "AuthCode": "string",
   "AuthState": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AuthCode

The authCode retrieved from authUrl to complete the OAuth 2.0 authorization code flow.

Type: String

Pattern: `.*\S.*`

Required: Yes

AuthState

The authState retrieved from authUrl to complete the OAuth 2.0 authorization code flow.

Type: String

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "ConnectorArn": "string",
   "ConnectorId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ConnectorArn

The Amazon Resource Name (ARN) of the connectorV2.

Type: String

Pattern: `.*\S.*`

ConnectorId

The UUID of the connectorV2 to identify connectorV2 resource.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartConfigurationPolicyAssociation

Associates a target account, organizational unit, or the root with a specified configuration. The target can be associated with a configuration policy or self-managed behavior. Only the AWS Security Hub CSPM delegated administrator can invoke this operation from the home Region.

Request Syntax

```
POST /configurationPolicyAssociation/associate HTTP/1.1
Content-type: application/json

{
   "ConfigurationPolicyIdentifier": "string",
   "Target": { ... }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ConfigurationPolicyIdentifier

The Amazon Resource Name (ARN) of a configuration policy, the universally unique identifier (UUID) of a configuration policy, or a value of `SELF_MANAGED_SECURITY_HUB` for a self-managed configuration.

Type: String

Pattern: `.*\S.*`

Required: Yes

Target

The identifier of the target account, organizational unit, or the root to associate with the specified configuration.

Type: Target object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "AssociationStatus": "string",
   "AssociationStatusMessage": "string",
   "AssociationType": "string",
   "ConfigurationPolicyId": "string",
   "TargetId": "string",
   "TargetType": "string",
   "UpdatedAt": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AssociationStatus

The current status of the association between the specified target and the configuration.

Type: String

Valid Values: `PENDING | SUCCESS | FAILED`

AssociationStatusMessage

An explanation for a `FAILED` value for `AssociationStatus`.

Type: String

Pattern: `.*\S.*`

AssociationType

Indicates whether the association between the specified target and the configuration was directly applied by the Security Hub CSPM delegated administrator or inherited from a parent.

Type: String

Valid Values: `INHERITED | APPLIED`

ConfigurationPolicyId

The UUID of the configuration policy.

Type: String

Pattern: `.*\S.*`

TargetId

The identifier of the target account, organizational unit, or the organization root with which the configuration is associated.

Type: String

Pattern: `.*\S.*`

TargetType

Indicates whether the target is an AWS account, organizational unit, or the organization root.

Type: String

Valid Values: `ACCOUNT | ORGANIZATIONAL_UNIT | ROOT`

UpdatedAt

The date and time, in UTC and ISO 8601 format, that the configuration policy association was last updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartConfigurationPolicyDisassociation

Disassociates a target account, organizational unit, or the root from a specified configuration. When you disassociate a configuration from its target, the target inherits the configuration of the closest parent. If there's no configuration to inherit, the target retains its settings but becomes a self-managed account. A target can be disassociated from a configuration policy or self-managed behavior. Only the AWS Security Hub CSPM delegated administrator can invoke this operation from the home Region.

Request Syntax

```
POST /configurationPolicyAssociation/disassociate HTTP/1.1
Content-type: application/json

{
   "ConfigurationPolicyIdentifier": "string",
   "Target": { ... }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ConfigurationPolicyIdentifier

The Amazon Resource Name (ARN) of a configuration policy, the universally unique identifier (UUID) of a configuration policy, or a value of `SELF_MANAGED_SECURITY_HUB` for a self-managed configuration.

Type: String

Pattern: `.*\S.*`

Required: Yes

Target

The identifier of the target account, organizational unit, or the root to disassociate from the specified configuration.

Type: Target object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

TagResource

Adds one or more tags to a resource.

Request Syntax

```
POST /tags/ResourceArn HTTP/1.1
Content-type: application/json

{
   "Tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

ResourceArn

The ARN of the resource to apply the tags to.

Pattern: `^arn:aws:securityhub:.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Tags

The tags to add to the resource. You can add up to 50 tags at a time. The tag keys can be no longer than 128 characters. The tag values can be no longer than 256 characters.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UntagResource

Removes one or more tags from a resource.

Request Syntax

```
DELETE /tags/ResourceArn?tagKeys=TagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ResourceArn

The ARN of the resource to remove the tags from.

Pattern: `^arn:aws:securityhub:.*`

Required: Yes

TagKeys

The tag keys associated with the tags to remove from the resource. You can remove up to 50 tags at a time.

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateActionTarget

Updates the name and description of a custom action target in Security Hub CSPM.

Request Syntax

```
PATCH /actionTargets/ActionTargetArn+ HTTP/1.1
Content-type: application/json

{
   "Description": "string",
   "Name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

ActionTargetArn

The ARN of the custom action target to update.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description

The updated description for the custom action target.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The updated name of the custom action target.

Type: String

Pattern: `.*\S.*`

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateAggregatorV2

Udpates the configuration for the Aggregator V2.

Request Syntax

```
PATCH /aggregatorv2/update/AggregatorV2Arn+ HTTP/1.1
Content-type: application/json

{
   "LinkedRegions": [ "string" ],
   "RegionLinkingMode": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

AggregatorV2Arn

The ARN of the Aggregator V2.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

LinkedRegions

A list of AWS Regions linked to the aggegation Region.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

RegionLinkingMode

Determines how AWS Regions should be linked to the Aggregator V2.

Type: String

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "AggregationRegion": "string",
   "AggregatorV2Arn": "string",
   "LinkedRegions": [ "string" ],
   "RegionLinkingMode": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

AggregationRegion

The AWS Region where data is aggregated.

Type: String

Pattern: `.*\S.*`

AggregatorV2Arn

The ARN of the Aggregator V2.

Type: String

Pattern: `.*\S.*`

LinkedRegions

A list of AWS Regions linked to the aggegation Region.

Type: Array of strings

Pattern: `.*\S.*`

RegionLinkingMode

Determines how AWS Regions should be linked to the Aggregator V2.

Type: String

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateAutomationRuleV2

Updates a V2 automation rule.

Request Syntax

```
PATCH /automationrulesv2/Identifier HTTP/1.1
Content-type: application/json

{
   "Actions": [
      {
         "ExternalIntegrationConfiguration": {
            "ConnectorArn": "string"
         },
         "FindingFieldsUpdate": {
            "Comment": "string",
            "SeverityId": number,
            "StatusId": number
         },
         "Type": "string"
      }
   ],
   "Criteria": { ... },
   "Description": "string",
   "RuleName": "string",
   "RuleOrder": number,
   "RuleStatus": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

Identifier

The ARN of the automation rule.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Actions

A list of actions to be performed when the rule criteria is met.

Type: Array of AutomationRulesActionV2 objects

Array Members: Fixed number of 1 item.

Required: No

Criteria

The filtering type and configuration of the automation rule.

Type: Criteria object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

Description

A description of the automation rule.

Type: String

Pattern: `.*\S.*`

Required: No

RuleName

The name of the automation rule.

Type: String

Pattern: `.*\S.*`

Required: No

RuleOrder

Represents a value for the rule priority.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 1000.0.

Required: No

RuleStatus

The status of the automation rule.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateConfigurationPolicy

Updates a configuration policy. Only the AWS Security Hub CSPM delegated administrator can invoke this operation from the home Region.

Request Syntax

```
PATCH /configurationPolicy/Identifier HTTP/1.1
Content-type: application/json

{
   "ConfigurationPolicy": { ... },
   "Description": "string",
   "Name": "string",
   "UpdatedReason": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

Identifier

The Amazon Resource Name (ARN) or universally unique identifier (UUID) of the configuration policy.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

ConfigurationPolicy

An object that defines how Security Hub CSPM is configured. It includes whether Security Hub CSPM is enabled or disabled, a list of enabled security standards, a list of enabled or disabled security controls, and a list of custom parameter values for specified controls. If you provide a list of security controls that are enabled in the configuration policy, Security Hub CSPM disables

all other controls (including newly released controls). If you provide a list of security controls that are disabled in the configuration policy, Security Hub CSPM enables all other controls (including newly released controls).

When updating a configuration policy, provide a complete list of standards that you want to enable and a complete list of controls that you want to enable or disable. The updated configuration replaces the current configuration.

Type: Policy object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

Description

The description of the configuration policy.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the configuration policy. Alphanumeric characters and the following ASCII characters are permitted: `-, ., !, *, /`.

Type: String

Pattern: `.*\S.*`

Required: No

UpdatedReason

The reason for updating the configuration policy.

Type: String

Pattern: `.*\S.*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Arn": "string",
   "ConfigurationPolicy": { ... },
   "CreatedAt": "string",
   "Description": "string",
   "Id": "string",
   "Name": "string",
   "UpdatedAt": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Arn

The ARN of the configuration policy.

Type: String

Pattern: `.*\S.*`

ConfigurationPolicy

An object that defines how Security Hub CSPM is configured. It includes whether Security Hub CSPM is enabled or disabled, a list of enabled security standards, a list of enabled or disabled security controls, and a list of custom parameter values for specified controls. If the request included a list of security controls that are enabled in the configuration policy, Security Hub CSPM disables all other controls (including newly released controls). If the request included a list of security controls that are disabled in the configuration policy, Security Hub CSPM enables all other controls (including newly released controls).

Type: Policy object

Note: This object is a Union. Only one member of this object can be specified or returned.

CreatedAt

The date and time, in UTC and ISO 8601 format, that the configuration policy was created.

Type: Timestamp

Description

The description of the configuration policy.

Type: String

Pattern: `.*\S.*`

Id

The UUID of the configuration policy.

Type: String

Pattern: `.*\S.*`

Name

The name of the configuration policy.

Type: String

Pattern: `.*\S.*`

UpdatedAt

The date and time, in UTC and ISO 8601 format, that the configuration policy was last updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateConnectorV2

Grants permission to update a connectorV2 based on its id and input parameters.

Request Syntax

```
PATCH /connectorsv2/ConnectorId+ HTTP/1.1
Content-type: application/json

{
   "Description": "string",
   "Provider": { ... }
}
```

URI Request Parameters

The request uses the following URI parameters.

ConnectorId

The UUID of the connectorV2 to identify connectorV2 resource.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description

The description of the connectorV2.

Type: String

Pattern: `.*\S.*`

Required: No

Provider

The third-party provider's service configuration.

Type: ProviderUpdateConfiguration object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

ConflictException

The request causes conflict with the current state of the service resource.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal failure of the service.

HTTP Status Code: 500

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

ValidationException

The request has failed validation because it's missing required fields or has invalid inputs.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateFindingAggregator

> **Note**
>
> The *aggregation Region* is now called the *home Region*.

Updates cross-Region aggregation settings. You can use this operation to update the Region linking mode and the list of included or excluded AWS Regions. However, you can't use this operation to change the home Region.

You can invoke this operation from the current home Region only.

Request Syntax

```
PATCH /findingAggregator/update HTTP/1.1
Content-type: application/json

{
   "FindingAggregatorArn": "string",
   "RegionLinkingMode": "string",
   "Regions": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

FindingAggregatorArn

The ARN of the finding aggregator. To obtain the ARN, use `ListFindingAggregators`.

Type: String

Pattern: `.*\S.*`

Required: Yes

RegionLinkingMode

Indicates whether to aggregate findings from all of the available Regions in the current partition. Also determines whether to automatically aggregate findings from new Regions as Security Hub CSPM supports them and you opt into them.

The selected option also determines how to use the Regions provided in the Regions list.

The options are as follows:

- `ALL_REGIONS` - Aggregates findings from all of the Regions where Security Hub CSPM is enabled. When you choose this option, Security Hub CSPM also automatically aggregates findings from new Regions as Security Hub CSPM supports them and you opt into them.
- `ALL_REGIONS_EXCEPT_SPECIFIED` - Aggregates findings from all of the Regions where Security Hub CSPM is enabled, except for the Regions listed in the `Regions` parameter. When you choose this option, Security Hub CSPM also automatically aggregates findings from new Regions as Security Hub CSPM supports them and you opt into them.
- `SPECIFIED_REGIONS` - Aggregates findings only from the Regions listed in the `Regions` parameter. Security Hub CSPM does not automatically aggregate findings from new Regions.
- `NO_REGIONS` - Aggregates no data because no Regions are selected as linked Regions.

Type: String

Pattern: `.*\S.*`

Required: Yes

Regions

If `RegionLinkingMode` is `ALL_REGIONS_EXCEPT_SPECIFIED`, then this is a space-separated list of Regions that don't replicate and send findings to the home Region.

If `RegionLinkingMode` is `SPECIFIED_REGIONS`, then this is a space-separated list of Regions that do replicate and send findings to the home Region.

An `InvalidInputException` error results if you populate this field while `RegionLinkingMode` is `NO_REGIONS`.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "FindingAggregationRegion": "string",
   "FindingAggregatorArn": "string",
   "RegionLinkingMode": "string",
   "Regions": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

FindingAggregationRegion

The home Region. Findings generated in linked Regions are replicated and sent to the home Region.

Type: String

Pattern: `.*\S.*`

FindingAggregatorArn

The ARN of the finding aggregator.

Type: String

Pattern: `.*\S.*`

RegionLinkingMode

Indicates whether to link all Regions, all Regions except for a list of excluded Regions, or a list of included Regions.

Type: String

Pattern: `.*\S.*`

Regions

The list of excluded Regions or included Regions.

Type: Array of strings

Pattern: `.*\S.*`

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateFindings

`UpdateFindings` is a deprecated operation. Instead of `UpdateFindings`, use the `BatchUpdateFindings` operation.

The `UpdateFindings` operation updates the `Note` and `RecordState` of the AWS Security Hub CSPM aggregated findings that the filter attributes specify. Any member account that can view the finding can also see the update to the finding.

Finding updates made with `UpdateFindings` aren't persisted if the same finding is later updated by the finding provider through the `BatchImportFindings` operation. In addition, Security Hub CSPM doesn't record updates made with `UpdateFindings` in the finding history.

Request Syntax

```
PATCH /findings HTTP/1.1
Content-type: application/json

{
   "Filters": {
      "AwsAccountId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "AwsAccountName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "CompanyName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ComplianceAssociatedStandardsId": [
         {
            "Comparison": "string",
            "Value": "string"
```

```
            }
        ],
        "ComplianceSecurityControlId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ComplianceSecurityControlParametersName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ComplianceSecurityControlParametersValue": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ComplianceStatus": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "Confidence": [
            {
                "Eq": number,
                "Gt": number,
                "Gte": number,
                "Lt": number,
                "Lte": number
            }
        ],
        "CreatedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
```

```
        ],
        "Criticality": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
              "Lte": number
           }
        ],
        "Description": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "FindingProviderFieldsConfidence": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
              "Lte": number
           }
        ],
        "FindingProviderFieldsCriticality": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
              "Lte": number
           }
        ],
        "FindingProviderFieldsRelatedFindingsId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "FindingProviderFieldsRelatedFindingsProductArn": [
           {
              "Comparison": "string",
              "Value": "string"
```

```
            }
        ],
        "FindingProviderFieldsSeverityLabel": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "FindingProviderFieldsSeverityOriginal": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "FindingProviderFieldsTypes": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "FirstObservedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "GeneratorId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "Id": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "Keyword": [
            {
```

```
            "Value": "string"
         }
      ],
      "LastObservedAt": [
         {
            "DateRange": {
               "Unit": "string",
               "Value": number
            },
            "End": "string",
            "Start": "string"
         }
      ],
      "MalwareName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "MalwarePath": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "MalwareState": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "MalwareType": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "NetworkDestinationDomain": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "NetworkDestinationIpV4": [
```

```
            {
                "Cidr": "string"
            }
        ],
        "NetworkDestinationIpV6": [
            {
                "Cidr": "string"
            }
        ],
        "NetworkDestinationPort": [
            {
                "Eq": number,
                "Gt": number,
                "Gte": number,
                "Lt": number,
                "Lte": number
            }
        ],
        "NetworkDirection": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkProtocol": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkSourceDomain": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkSourceIpV4": [
            {
                "Cidr": "string"
            }
        ],
        "NetworkSourceIpV6": [
            {
                "Cidr": "string"
```

```
            }
        ],
        "NetworkSourceMac": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkSourcePort": [
            {
                "Eq": number,
                "Gt": number,
                "Gte": number,
                "Lt": number,
                "Lte": number
            }
        ],
        "NoteText": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NoteUpdatedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "NoteUpdatedBy": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ProcessLaunchedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
```

```
            },
            "End": "string",
            "Start": "string"
         }
      ],
      "ProcessName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ProcessParentPid": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "ProcessPath": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ProcessPid": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "ProcessTerminatedAt": [
         {
            "DateRange": {
               "Unit": "string",
               "Value": number
            },
            "End": "string",
            "Start": "string"
         }
```

```
        ],
        "ProductArn": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ProductFields": [
           {
              "Comparison": "string",
              "Key": "string",
              "Value": "string"
           }
        ],
        "ProductName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "RecommendationText": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "RecordState": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Region": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "RelatedFindingsId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
```

```
        "RelatedFindingsProductArn": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceApplicationArn": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceApplicationName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceAwsEc2InstanceIamInstanceProfileArn": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceAwsEc2InstanceImageId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceAwsEc2InstanceIpV4Addresses": [
           {
              "Cidr": "string"
           }
        ],
        "ResourceAwsEc2InstanceIpV6Addresses": [
           {
              "Cidr": "string"
           }
        ],
        "ResourceAwsEc2InstanceKeyName": [
           {
              "Comparison": "string",
              "Value": "string"
```

```
            }
        ],
        "ResourceAwsEc2InstanceLaunchedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "ResourceAwsEc2InstanceSubnetId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceType": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceVpcId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsIamAccessKeyCreatedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "ResourceAwsIamAccessKeyPrincipalName": [
            {
                "Comparison": "string",
                "Value": "string"
```

```
            }
        ],
        "ResourceAwsIamAccessKeyStatus": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsIamAccessKeyUserName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsIamUserUserName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsS3BucketOwnerId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsS3BucketOwnerName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceContainerImageId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceContainerImageName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
```

```
        "ResourceContainerLaunchedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
              "Start": "string"
           }
        ],
        "ResourceContainerName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceDetailsOther": [
           {
              "Comparison": "string",
              "Key": "string",
              "Value": "string"
           }
        ],
        "ResourceId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourcePartition": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceRegion": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceTags": [
           {
              "Comparison": "string",
```

```
            "Key": "string",
            "Value": "string"
         }
      ],
      "ResourceType": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "Sample": [
         {
            "Value": boolean
         }
      ],
      "SeverityLabel": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "SeverityNormalized": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "SeverityProduct": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "SourceUrl": [
         {
            "Comparison": "string",
            "Value": "string"
         }
```

```
        ],
        "ThreatIntelIndicatorCategory": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ThreatIntelIndicatorLastObservedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
              "Start": "string"
           }
        ],
        "ThreatIntelIndicatorSource": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ThreatIntelIndicatorSourceUrl": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ThreatIntelIndicatorType": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ThreatIntelIndicatorValue": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "Title": [
           {
              "Comparison": "string",
```

```
            "Value": "string"
         }
      ],
      "Type": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "UpdatedAt": [
         {
            "DateRange": {
               "Unit": "string",
               "Value": number
            },
            "End": "string",
            "Start": "string"
         }
      ],
      "UserDefinedFields": [
         {
            "Comparison": "string",
            "Key": "string",
            "Value": "string"
         }
      ],
      "VerificationState": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "VulnerabilitiesExploitAvailable": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "VulnerabilitiesFixAvailable": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
```

```
        "WorkflowState": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "WorkflowStatus": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ]
    },
    "Note": {
        "Text": "string",
        "UpdatedBy": "string"
    },
    "RecordState": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Filters

A collection of attributes that specify which findings you want to update.

Type: AwsSecurityFindingFilters object

Required: Yes

Note

The updated note for the finding.

Type: NoteUpdate object

Required: No

RecordState

The updated record state for the finding.

Type: String

Valid Values: `ACTIVE | ARCHIVED`

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateInsight

Updates the Security Hub CSPM insight identified by the specified insight ARN.

Request Syntax

```
PATCH /insights/InsightArn+ HTTP/1.1
Content-type: application/json

{
   "Filters": {
      "AwsAccountId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "AwsAccountName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "CompanyName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ComplianceAssociatedStandardsId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ComplianceSecurityControlId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ComplianceSecurityControlParametersName": [
         {
```

```
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ComplianceSecurityControlParametersValue": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ComplianceStatus": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "Confidence": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "CreatedAt": [
         {
            "DateRange": {
               "Unit": "string",
               "Value": number
            },
            "End": "string",
            "Start": "string"
         }
      ],
      "Criticality": [
         {
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
```

```
        "Description": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "FindingProviderFieldsConfidence": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
              "Lte": number
           }
        ],
        "FindingProviderFieldsCriticality": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
              "Lte": number
           }
        ],
        "FindingProviderFieldsRelatedFindingsId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "FindingProviderFieldsRelatedFindingsProductArn": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "FindingProviderFieldsSeverityLabel": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "FindingProviderFieldsSeverityOriginal": [
           {
```

```
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "FindingProviderFieldsTypes": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "FirstObservedAt": [
         {
            "DateRange": {
               "Unit": "string",
               "Value": number
            },
            "End": "string",
            "Start": "string"
         }
      ],
      "GeneratorId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "Id": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "Keyword": [
         {
            "Value": "string"
         }
      ],
      "LastObservedAt": [
         {
            "DateRange": {
               "Unit": "string",
               "Value": number
            },
            "End": "string",
```

```
            "Start": "string"
         }
      ],
      "MalwareName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "MalwarePath": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "MalwareState": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "MalwareType": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "NetworkDestinationDomain": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "NetworkDestinationIpV4": [
         {
            "Cidr": "string"
         }
      ],
      "NetworkDestinationIpV6": [
         {
            "Cidr": "string"
         }
      ],
      "NetworkDestinationPort": [
```

```
            {
                "Eq": number,
                "Gt": number,
                "Gte": number,
                "Lt": number,
                "Lte": number
            }
        ],
        "NetworkDirection": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkProtocol": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkSourceDomain": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkSourceIpV4": [
            {
                "Cidr": "string"
            }
        ],
        "NetworkSourceIpV6": [
            {
                "Cidr": "string"
            }
        ],
        "NetworkSourceMac": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "NetworkSourcePort": [
            {
```

```
            "Eq": number,
            "Gt": number,
            "Gte": number,
            "Lt": number,
            "Lte": number
         }
      ],
      "NoteText": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "NoteUpdatedAt": [
         {
            "DateRange": {
               "Unit": "string",
               "Value": number
            },
            "End": "string",
            "Start": "string"
         }
      ],
      "NoteUpdatedBy": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ProcessLaunchedAt": [
         {
            "DateRange": {
               "Unit": "string",
               "Value": number
            },
            "End": "string",
            "Start": "string"
         }
      ],
      "ProcessName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
```

```
        ],
        "ProcessParentPid": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
              "Lte": number
           }
        ],
        "ProcessPath": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ProcessPid": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
              "Lte": number
           }
        ],
        "ProcessTerminatedAt": [
           {
              "DateRange": {
                 "Unit": "string",
                 "Value": number
              },
              "End": "string",
              "Start": "string"
           }
        ],
        "ProductArn": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ProductFields": [
           {
              "Comparison": "string",
```

```
            "Key": "string",
            "Value": "string"
         }
      ],
      "ProductName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "RecommendationText": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "RecordState": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "Region": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "RelatedFindingsId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "RelatedFindingsProductArn": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceApplicationArn": [
         {
            "Comparison": "string",
            "Value": "string"
```

```
            }
        ],
        "ResourceApplicationName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceIamInstanceProfileArn": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceImageId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceIpV4Addresses": [
            {
                "Cidr": "string"
            }
        ],
        "ResourceAwsEc2InstanceIpV6Addresses": [
            {
                "Cidr": "string"
            }
        ],
        "ResourceAwsEc2InstanceKeyName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceLaunchedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
```

```
            }
        ],
        "ResourceAwsEc2InstanceSubnetId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceType": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsEc2InstanceVpcId": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsIamAccessKeyCreatedAt": [
            {
                "DateRange": {
                    "Unit": "string",
                    "Value": number
                },
                "End": "string",
                "Start": "string"
            }
        ],
        "ResourceAwsIamAccessKeyPrincipalName": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsIamAccessKeyStatus": [
            {
                "Comparison": "string",
                "Value": "string"
            }
        ],
        "ResourceAwsIamAccessKeyUserName": [
            {
```

```
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceAwsIamUserUserName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceAwsS3BucketOwnerId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceAwsS3BucketOwnerName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceContainerImageId": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceContainerImageName": [
         {
            "Comparison": "string",
            "Value": "string"
         }
      ],
      "ResourceContainerLaunchedAt": [
         {
            "DateRange": {
               "Unit": "string",
               "Value": number
            },
            "End": "string",
            "Start": "string"
         }
      ],
```

```
        "ResourceContainerName": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceDetailsOther": [
           {
              "Comparison": "string",
              "Key": "string",
              "Value": "string"
           }
        ],
        "ResourceId": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourcePartition": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceRegion": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ResourceTags": [
           {
              "Comparison": "string",
              "Key": "string",
              "Value": "string"
           }
        ],
        "ResourceType": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
```

```
        "Sample": [
           {
              "Value": boolean
           }
        ],
        "SeverityLabel": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "SeverityNormalized": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
              "Lte": number
           }
        ],
        "SeverityProduct": [
           {
              "Eq": number,
              "Gt": number,
              "Gte": number,
              "Lt": number,
              "Lte": number
           }
        ],
        "SourceUrl": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ThreatIntelIndicatorCategory": [
           {
              "Comparison": "string",
              "Value": "string"
           }
        ],
        "ThreatIntelIndicatorLastObservedAt": [
           {
              "DateRange": {
```

```
                "Unit": "string",
                "Value": number
            },
            "End": "string",
            "Start": "string"
        }
    ],
    "ThreatIntelIndicatorSource": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "ThreatIntelIndicatorSourceUrl": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "ThreatIntelIndicatorType": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "ThreatIntelIndicatorValue": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "Title": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "Type": [
        {
            "Comparison": "string",
            "Value": "string"
        }
    ],
    "UpdatedAt": [
```

```
            {
               "DateRange": {
                  "Unit": "string",
                  "Value": number
               },
               "End": "string",
               "Start": "string"
            }
         ],
         "UserDefinedFields": [
            {
               "Comparison": "string",
               "Key": "string",
               "Value": "string"
            }
         ],
         "VerificationState": [
            {
               "Comparison": "string",
               "Value": "string"
            }
         ],
         "VulnerabilitiesExploitAvailable": [
            {
               "Comparison": "string",
               "Value": "string"
            }
         ],
         "VulnerabilitiesFixAvailable": [
            {
               "Comparison": "string",
               "Value": "string"
            }
         ],
         "WorkflowState": [
            {
               "Comparison": "string",
               "Value": "string"
            }
         ],
         "WorkflowStatus": [
            {
               "Comparison": "string",
               "Value": "string"
```

```
            }
        ]
    },
    "GroupByAttribute": "string",
    "Name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

InsightArn

The ARN of the insight that you want to update.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Filters

The updated filters that define this insight.

Type: AwsSecurityFindingFilters object

Required: No

GroupByAttribute

The updated `GroupBy` attribute that defines this insight.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The updated name for the insight.

Type: String

Pattern: `.*\S.*`

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateOrganizationConfiguration

Updates the configuration of your organization in AWS Security Hub CSPM. Only the Security Hub CSPM administrator account can invoke this operation.

Request Syntax

```
POST /organization/configuration HTTP/1.1
Content-type: application/json

{
   "AutoEnable": boolean,
   "AutoEnableStandards": "string",
   "OrganizationConfiguration": {
      "ConfigurationType": "string",
      "Status": "string",
      "StatusMessage": "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AutoEnable

Whether to automatically enable Security Hub CSPM in new member accounts when they join the organization.

If set to `true`, then Security Hub CSPM is automatically enabled in new accounts. If set to `false`, then Security Hub CSPM isn't enabled in new accounts automatically. The default value is `false`.

If the `ConfigurationType` of your organization is set to `CENTRAL`, then this field is set to `false` and can't be changed in the home Region and linked Regions. However, in that case, the delegated administrator can create a configuration policy in which Security Hub CSPM is enabled and associate the policy with new organization accounts.

Type: Boolean

Required: Yes

AutoEnableStandards

Whether to automatically enable Security Hub CSPM default standards in new member accounts when they join the organization.

The default value of this parameter is equal to `DEFAULT`.

If equal to `DEFAULT`, then Security Hub CSPM default standards are automatically enabled for new member accounts. If equal to `NONE`, then default standards are not automatically enabled for new member accounts.

If the `ConfigurationType` of your organization is set to `CENTRAL`, then this field is set to `NONE` and can't be changed in the home Region and linked Regions. However, in that case, the delegated administrator can create a configuration policy in which specific security standards are enabled and associate the policy with new organization accounts.

Type: String

Valid Values: `NONE | DEFAULT`

Required: No

OrganizationConfiguration

Provides information about the way an organization is configured in AWS Security Hub CSPM.

Type: OrganizationConfiguration object

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateSecurityControl

Updates the properties of a security control.

Request Syntax

```
PATCH /securityControl/update HTTP/1.1
Content-type: application/json

{
   "LastUpdateReason": "string",
   "Parameters": {
      "string" : {
         "Value": { ... },
         "ValueType": "string"
      }
   },
   "SecurityControlId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

LastUpdateReason

The most recent reason for updating the properties of the security control. This field accepts alphanumeric characters in addition to white spaces, dashes, and underscores.

Type: String

Pattern: `^([^\u0000-\u007F]|[-_ a-zA-Z0-9])+$`

Required: No

Parameters

An object that specifies which security control parameters to update.

Type: String to ParameterConfiguration object map

Key Pattern: `.*\S.*`

Required: Yes

SecurityControlId

The Amazon Resource Name (ARN) or ID of the control to update.

Type: String

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceInUseException

The request was rejected because it conflicts with the resource's availability. For example, you tried to update a security control that's currently in the `UPDATING` state.

HTTP Status Code: 400

ResourceInUseException

The request was rejected because it conflicts with the resource's availability. For example, you tried to update a security control that's currently in the `UPDATING` state.

HTTP Status Code: 400

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateSecurityHubConfiguration

Updates configuration options for Security Hub CSPM.

Request Syntax

```
PATCH /accounts HTTP/1.1
Content-type: application/json

{
   "AutoEnableControls": boolean,
   "ControlFindingGenerator": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AutoEnableControls

Whether to automatically enable new controls when they are added to standards that are enabled.

By default, this is set to `true`, and new controls are enabled automatically. To not automatically enable new controls, set this to `false`.

When you automatically enable new controls, you can interact with the controls in the console and programmatically immediately after release. However, automatically enabled controls have a temporary default status of `DISABLED`. It can take up to several days for Security Hub CSPM to process the control release and designate the control as `ENABLED` in your account. During the processing period, you can manually enable or disable a control, and Security Hub CSPM will maintain that designation regardless of whether you have `AutoEnableControls` set to `true`.

Type: Boolean

Required: No

ControlFindingGenerator

Updates whether the calling account has consolidated control findings turned on. If the value for this field is set to `SECURITY_CONTROL`, Security Hub CSPM generates a single finding for a control check even when the check applies to multiple enabled standards.

If the value for this field is set to `STANDARD_CONTROL`, Security Hub CSPM generates separate findings for a control check when the check applies to multiple enabled standards.

For accounts that are part of an organization, this value can only be updated in the administrator account.

Type: String

Valid Values: `STANDARD_CONTROL | SECURITY_CONTROL`

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account or throttling limits. The error code describes the limit exceeded.

HTTP Status Code: 429

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

UpdateStandardsControl

Used to control whether an individual security standard control is enabled or disabled.

Calls to this operation return a `RESOURCE_NOT_FOUND_EXCEPTION` error when the standard subscription for the control has `StandardsControlsUpdatable` value `NOT_READY_FOR_UPDATES`.

Request Syntax

```
PATCH /standards/control/StandardsControlArn+ HTTP/1.1
Content-type: application/json

{
   "ControlStatus": "string",
   "DisabledReason": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

StandardsControlArn

The ARN of the security standard control to enable or disable.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

ControlStatus

The updated status of the security standard control.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

DisabledReason

A description of the reason why you are disabling a security standard control. If you are disabling a control, then this is required.

Type: String

Pattern: `.*\S.*`

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors.

AccessDeniedException

You don't have permission to perform the action specified in the request.

HTTP Status Code: 403

InternalException

Internal server error.

HTTP Status Code: 500

InvalidAccessException

The account doesn't have permission to perform this action.

HTTP Status Code: 401

InvalidInputException

The request was rejected because you supplied an invalid or out-of-range value for an input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The request was rejected because we can't find the specified resource.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Data Types

The AWS Security Hub CSPM API contains several data types that the various actions use. This section describes each data type in detail.

> **Note**
>
> The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

Security Hub CSPM supports the following primary data types:

- AccountDetails
- Action
- ActionLocalIpDetails
- ActionLocalPortDetails
- ActionRemoteIpDetails
- ActionRemotePortDetails
- ActionTarget
- Actor
- ActorSession
- ActorUser
- Adjustment
- AdminAccount
- AssociatedStandard
- AssociationFilters
- AutomationRulesAction
- AutomationRulesConfig
- AutomationRulesFindingFieldsUpdate
- AutomationRulesFindingFilters
- AutomationRulesMetadata

- AwsApiCallAction
- AwsApiCallActionDomainDetails
- BatchUpdateFindingsUnprocessedFinding
- BooleanConfigurationOptions
- BooleanFilter
- Cell
- City
- ClassificationResult
- ClassificationStatus
- CodeVulnerabilitiesFilePath
- Compliance
- ConfigurationOptions
- ConfigurationPolicyAssociation
- ConfigurationPolicyAssociationSummary
- ConfigurationPolicySummary
- Country
- CustomDataIdentifiersDetections
- CustomDataIdentifiersResult
- Cvss
- DataClassificationDetails
- DateFilter
- DateRange
- Detection
- DnsRequestAction
- DoubleConfigurationOptions
- EnumConfigurationOptions
- EnumListConfigurationOptions
- FilePaths
- FindingAggregator
- FindingHistoryRecord

- FindingHistoryUpdate
- FindingHistoryUpdateSource
- FindingProviderFields
- FindingProviderSeverity
- GeneratorDetails
- GeoLocation
- IcmpTypeCode
- ImportFindingsError
- Indicator
- Insight
- InsightResults
- InsightResultValue
- IntegerConfigurationOptions
- IntegerListConfigurationOptions
- Invitation
- IpFilter
- IpOrganizationDetails
- KeywordFilter
- Malware
- MapFilter
- Member
- Network
- NetworkAutonomousSystem
- NetworkConnection
- NetworkConnectionAction
- NetworkEndpoint
- NetworkGeoLocation
- NetworkPathComponent
- NetworkPathComponentDetails
- Note

- NoteUpdate
- NumberFilter
- Occurrences
- OrganizationConfiguration
- Page
- ParameterConfiguration
- ParameterDefinition
- ParameterValue
- PatchSummary
- Policy
- PortProbeAction
- PortProbeDetail
- ProcessDetails
- Product
- Range
- Recommendation
- Record
- RelatedFinding
- Remediation
- Resource
- ResourceDetails
- Result
- SecurityControl
- SecurityControlCustomParameter
- SecurityControlDefinition
- SecurityControlParameter
- SecurityControlsConfiguration
- SecurityHubPolicy
- SensitiveDataDetections
- SensitiveDataResult

- Sequence
- Severity
- SeverityUpdate
- Signal
- SoftwarePackage
- SortCriterion
- Standard
- StandardsControl
- StandardsControlAssociationDetail
- StandardsControlAssociationId
- StandardsControlAssociationSummary
- StandardsControlAssociationUpdate
- StandardsManagedBy
- StandardsStatusReason
- StandardsSubscription
- StandardsSubscriptionRequest
- StatusReason
- StringConfigurationOptions
- StringFilter
- StringListConfigurationOptions
- Target
- Threat
- ThreatIntelIndicator
- UnprocessedAutomationRule
- UnprocessedConfigurationPolicyAssociation
- UnprocessedSecurityControl
- UnprocessedStandardsControlAssociation
- UnprocessedStandardsControlAssociationUpdate
- UpdateAutomationRulesRequestItem
- UserAccount

- Vulnerability
- VulnerabilityCodeVulnerabilities
- VulnerabilityVendor
- Workflow
- WorkflowUpdate

Security Hub CSPM supports the following objects as part of the `ResourceDetails` data type. These objects apply to Security Hub CSPM findings in the AWS Security Finding Format (ASFF).

Amazon MQ objects

- AwsAmazonMqBrokerDetails
- AwsAmazonMqBrokerEncryptionOptionsDetails
- AwsAmazonMqBrokerLdapServerMetadataDetails
- AwsAmazonMqBrokerLogsDetails
- AwsAmazonMqBrokerLogsPendingDetails
- AwsAmazonMqBrokerMaintenanceWindowStartTimeDetails
- AwsAmazonMqBrokerUsersDetails

Amazon API Gateway objects

- AwsApiGatewayAccessLogSettings
- AwsApiGatewayCanarySettings
- AwsApiGatewayEndpointConfiguration
- AwsApiGatewayMethodSettings
- AwsApiGatewayRestApiDetails
- AwsApiGatewayStageDetails
- AwsApiGatewayV2ApiDetails
- AwsApiGatewayV2RouteSettings
- AwsApiGatewayV2StageDetails
- AwsCorsConfiguration

AWS AppSync objects

- AwsAppSyncGraphQlApiDetails
- AwsAppSyncGraphQlApiAdditionalAuthenticationProvidersDetails
- AwsAppSyncGraphQlApiLambdaAuthorizerConfigDetails
- AwsAppSyncGraphQlApiLogConfigDetails
- AwsAppSyncGraphQlApiOpenIdConnectConfigDetails
- AwsAppSyncGraphQlApiUserPoolConfigDetails

Amazon Athena objects

- AwsAthenaWorkGroupConfigurationDetails
- AwsAthenaWorkGroupConfigurationResultConfigurationDetails
- AwsAthenaWorkGroupConfigurationResultConfigurationEncryptionConfigurationDetails

AWS Backup objects

- AwsBackupBackupPlanAdvancedBackupSettingsDetails
- AwsBackupBackupPlanBackupPlanDetails
- AwsBackupBackupPlanDetails
- AwsBackupBackupPlanLifecycleDetails
- AwsBackupBackupPlanRuleCopyActionsDetails
- AwsBackupBackupPlanRuleDetails
- AwsBackupBackupVaultDetails
- AwsBackupBackupVaultNotificationsDetails
- AwsBackupRecoveryPointCalculatedLifecycleDetails
- AwsBackupRecoveryPointCreatedByDetails
- AwsBackupRecoveryPointDetails
- AwsBackupRecoveryPointLifecycleDetails

AWS Certificate Manager objects

- AwsCertificateManagerCertificateDetails
- AwsCertificateManagerCertificateDomainValidationOption

- AwsCertificateManagerCertificateExtendedKeyUsage
- AwsCertificateManagerCertificateKeyUsage
- AwsCertificateManagerCertificateOptions
- AwsCertificateManagerCertificateRenewalSummary
- AwsCertificateManagerCertificateResourceRecord

AWS CloudFormation objects

- AwsCloudFormationStackDetails
- AwsCloudFormationStackDriftInformationDetails
- AwsCloudFormationStackOutputsDetails

Amazon CloudFront objects

- AwsCloudFrontDistributionCacheBehavior
- AwsCloudFrontDistributionCacheBehaviors
- AwsCloudFrontDistributionDefaultCacheBehavior
- AwsCloudFrontDistributionDetails
- AwsCloudFrontDistributionLogging
- AwsCloudFrontDistributionOriginCustomOriginConfig
- AwsCloudFrontDistributionOriginGroup
- AwsCloudFrontDistributionOriginGroupFailover
- AwsCloudFrontDistributionOriginGroupFailoverStatusCodes
- AwsCloudFrontDistributionOriginGroups
- AwsCloudFrontDistributionOriginItem
- AwsCloudFrontDistributionOrigins
- AwsCloudFrontDistributionOriginS3OriginConfig
- AwsCloudFrontDistributionOriginSslProtocols
- AwsCloudFrontDistributionViewerCertificate

AWS CloudTrail objects

- AwsCloudTrailTrailDetails

Amazon CloudWatch objects

- AwsCloudWatchAlarmDetails
- AwsCloudWatchAlarmDimensionsDetails

AWS CodeBuild objects

- AwsCodeBuildProjectArtifactsDetails
- AwsCodeBuildProjectDetails
- AwsCodeBuildProjectEnvironment
- AwsCodeBuildProjectEnvironmentEnvironmentVariablesDetails
- AwsCodeBuildProjectEnvironmentRegistryCredential
- AwsCodeBuildProjectLogsConfigCloudWatchLogsDetails
- AwsCodeBuildProjectLogsConfigDetails
- AwsCodeBuildProjectLogsConfigS3LogsDetails
- AwsCodeBuildProjectSource
- AwsCodeBuildProjectVpcConfig

AWS Database Migration Service objects (AWS DMS)

- AwsDmsEndpointDetails
- AwsDmsReplicationInstanceDetails
- AwsDmsReplicationInstanceReplicationSubnetGroupDetails
- AwsDmsReplicationInstanceVpcSecurityGroupsDetails
- AwsDmsReplicationTaskDetails

Amazon DynamoDB objects

- AwsDynamoDbTableAttributeDefinition
- AwsDynamoDbTableBillingModeSummary
- AwsDynamoDbTableDetails

- AwsDynamoDbTableGlobalSecondaryIndex
- AwsDynamoDbTableKeySchema
- AwsDynamoDbTableLocalSecondaryIndex
- AwsDynamoDbTableProjection
- AwsDynamoDbTableProvisionedThroughput
- AwsDynamoDbTableProvisionedThroughputOverride
- AwsDynamoDbTableReplica
- AwsDynamoDbTableReplicaGlobalSecondaryIndex
- AwsDynamoDbTableRestoreSummary
- AwsDynamoDbTableSseDescription
- AwsDynamoDbTableStreamSpecification

Amazon Elastic Compute Cloud (EC2) objects

- AwsEc2ClientVpnEndpointAuthenticationOptionsActiveDirectoryDetails
- AwsEc2ClientVpnEndpointAuthenticationOptionsDetails
- AwsEc2ClientVpnEndpointAuthenticationOptionsFederatedAuthenticationDetails
- AwsEc2ClientVpnEndpointAuthenticationOptionsMutualAuthenticationDetails
- AwsEc2ClientVpnEndpointClientConnectOptionsDetails
- AwsEc2ClientVpnEndpointClientConnectOptionsStatusDetails
- AwsEc2ClientVpnEndpointClientLoginBannerOptionsDetails
- AwsEc2ClientVpnEndpointConnectionLogOptionsDetails
- AwsEc2ClientVpnEndpointDetails
- AwsEc2EipDetails
- AwsEc2InstanceDetails
- AwsEc2InstanceMetadataOptions
- AwsEc2InstanceMonitoringDetails
- AwsEc2InstanceNetworkInterfacesDetails
- AwsEc2LaunchTemplateDataBlockDeviceMappingSetDetails
- AwsEc2LaunchTemplateDataBlockDeviceMappingSetEbsDetails
- AwsEc2LaunchTemplateDataCapacityReservationSpecificationCapacityReservationTargetDetails

- AwsEc2LaunchTemplateDataCapacityReservationSpecificationDetails
- AwsEc2LaunchTemplateDataCpuOptionsDetails
- AwsEc2LaunchTemplateDataCreditSpecificationDetails
- AwsEc2LaunchTemplateDataDetails
- AwsEc2LaunchTemplateDataElasticGpuSpecificationSetDetails
- AwsEc2LaunchTemplateDataElasticInferenceAcceleratorSetDetails
- AwsEc2LaunchTemplateDataEnclaveOptionsDetails
- AwsEc2LaunchTemplateDataHibernationOptionsDetails
- AwsEc2LaunchTemplateDataIamInstanceProfileDetails
- AwsEc2LaunchTemplateDataInstanceMarketOptionsDetails
- AwsEc2LaunchTemplateDataInstanceMarketOptionsSpotOptionsDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsAcceleratorCountDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsAcceleratorTotalMemoryMiBDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsBaselineEbsBandwidthMbpsDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsMemoryGiBPerVCpuDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsMemoryMiBDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsNetworkInterfaceCountDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsTotalLocalStorageGBDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsVCpuCountDetails
- AwsEc2LaunchTemplateDataLicenseSetDetails
- AwsEc2LaunchTemplateDataMaintenanceOptionsDetails
- AwsEc2LaunchTemplateDataMetadataOptionsDetails
- AwsEc2LaunchTemplateDataMonitoringDetails
- AwsEc2LaunchTemplateDataNetworkInterfaceSetDetails
- AwsEc2LaunchTemplateDataNetworkInterfaceSetIpv4PrefixesDetails
- AwsEc2LaunchTemplateDataNetworkInterfaceSetIpv6AddressesDetails
- AwsEc2LaunchTemplateDataNetworkInterfaceSetIpv6PrefixesDetails
- AwsEc2LaunchTemplateDataNetworkInterfaceSetPrivateIpAddressesDetails
- AwsEc2LaunchTemplateDataPlacementDetails

- AwsEc2LaunchTemplateDataPrivateDnsNameOptionsDetails
- AwsEc2LaunchTemplateDetails
- AwsEc2NetworkAclAssociation
- AwsEc2NetworkAclDetails
- AwsEc2NetworkAclEntry
- PortRange
- PortRangeFromTo
- AwsEc2NetworkInterfaceAttachment
- AwsEc2NetworkInterfaceDetails
- AwsEc2NetworkInterfaceIpV6AddressDetail
- AwsEc2NetworkInterfacePrivateIpAddressDetail
- AwsEc2NetworkInterfaceSecurityGroup
- AwsEc2RouteTableDetails
- RouteSetDetails
- AssociationSetDetails
- AssociationStateDetails
- PropagatingVgwSetDetails
- AwsEc2SecurityGroupDetails
- AwsEc2SecurityGroupIpPermission
- AwsEc2SecurityGroupIpRange
- AwsEc2SecurityGroupIpv6Range
- AwsEc2SecurityGroupPrefixListId
- AwsEc2SecurityGroupUserIdGroupPair
- AwsEc2SubnetDetails
- Ipv6CidrBlockAssociation
- AvailabilityZone
- AwsEc2TransitGatewayDetails
- AwsEc2VolumeAttachment
- AwsEc2VolumeDetails
- AwsEc2VpcDetails

- CidrBlockAssociation
- AwsEc2VpcEndpointServiceDetails
- AwsEc2VpcEndpointServiceServiceTypeDetails
- AwsEc2VpcPeeringConnectionDetails
- VpcInfoCidrBlockSetDetails
- VpcInfoIpv6CidrBlockSetDetails
- VpcInfoPeeringOptionsDetails
- AwsEc2VpcPeeringConnectionStatusDetails
- AwsEc2VpcPeeringConnectionVpcInfoDetails
- AwsEc2VpnConnectionDetails
- AwsEc2VpnConnectionOptionsDetails
- AwsEc2VpnConnectionOptionsTunnelOptionsDetails
- AwsEc2VpnConnectionRoutesDetails
- AwsEc2VpnConnectionVgwTelemetryDetails

Amazon EC2 Auto Scaling objects

- AwsAutoScalingAutoScalingGroupAvailabilityZonesListDetails
- AwsAutoScalingAutoScalingGroupDetails
- AwsAutoScalingAutoScalingGroupLaunchTemplateLaunchTemplateSpecification
- AwsAutoScalingAutoScalingGroupMixedInstancesPolicyDetails
- AwsAutoScalingAutoScalingGroupMixedInstancesPolicyInstancesDistributionDetails
- AwsAutoScalingAutoScalingGroupMixedInstancesPolicyLaunchTemplateDetails
- AwsAutoScalingAutoScalingGroupMixedInstancesPolicyLaunchTemplateLaunchTemplateSpecification
- AwsAutoScalingAutoScalingGroupMixedInstancesPolicyLaunchTemplateOverridesListDetails
- AwsAutoScalingLaunchConfigurationBlockDeviceMappingsDetails
- AwsAutoScalingLaunchConfigurationBlockDeviceMappingsEbsDetails
- AwsAutoScalingLaunchConfigurationDetails
- AwsAutoScalingLaunchConfigurationInstanceMonitoringDetails
- AwsAutoScalingLaunchConfigurationMetadataOptions

Amazon Elastic Container Registry (ECR) objects

- AwsEcrContainerImageDetails
- AwsEcrRepositoryDetails
- AwsEcrRepositoryImageScanningConfigurationDetails
- AwsEcrRepositoryLifecyclePolicyDetails

Amazon Elastic Container Service (ECS) objects

- AwsEcsClusterClusterSettingsDetails
- AwsEcsClusterConfigurationDetails
- AwsEcsClusterConfigurationExecuteCommandConfigurationDetails
- AwsEcsClusterConfigurationExecuteCommandConfigurationLogConfigurationDetails
- AwsEcsClusterDefaultCapacityProviderStrategyDetails
- AwsEcsClusterDetails
- AwsEcsContainerDetails
- AwsEcsServiceCapacityProviderStrategyDetails
- AwsEcsServiceDeploymentConfigurationDeploymentCircuitBreakerDetails
- AwsEcsServiceDeploymentConfigurationDetails
- AwsEcsServiceDeploymentControllerDetails
- AwsEcsServiceDetails
- AwsEcsServiceLoadBalancersDetails
- AwsEcsServiceNetworkConfigurationAwsVpcConfigurationDetails
- AwsEcsServiceNetworkConfigurationDetails
- AwsEcsServicePlacementConstraintsDetails
- AwsEcsServicePlacementStrategiesDetails
- AwsEcsServiceServiceRegistriesDetails
- AwsEcsTaskDefinitionContainerDefinitionsDependsOnDetails
- AwsEcsTaskDefinitionContainerDefinitionsDetails
- AwsEcsTaskDefinitionContainerDefinitionsEnvironmentDetails
- AwsEcsTaskDefinitionContainerDefinitionsEnvironmentFilesDetails
- AwsEcsTaskDefinitionContainerDefinitionsExtraHostsDetails

- AwsEcsTaskDefinitionContainerDefinitionsFirelensConfigurationDetails
- AwsEcsTaskDefinitionContainerDefinitionsHealthCheckDetails
- AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersCapabilitiesDetails
- AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersDetails
- AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersDevicesDetails
- AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersTmpfsDetails
- AwsEcsTaskDefinitionContainerDefinitionsLogConfigurationDetails
- AwsEcsTaskDefinitionContainerDefinitionsLogConfigurationSecretOptionsDetails
- AwsEcsTaskDefinitionContainerDefinitionsMountPointsDetails
- AwsEcsTaskDefinitionContainerDefinitionsPortMappingsDetails
- AwsEcsTaskDefinitionContainerDefinitionsRepositoryCredentialsDetails
- AwsEcsTaskDefinitionContainerDefinitionsResourceRequirementsDetails
- AwsEcsTaskDefinitionContainerDefinitionsSecretsDetails
- AwsEcsTaskDefinitionContainerDefinitionsSystemControlsDetails
- AwsEcsTaskDefinitionContainerDefinitionsUlimitsDetails
- AwsEcsTaskDefinitionContainerDefinitionsVolumesFromDetails
- AwsEcsTaskDefinitionDetails
- AwsEcsTaskDefinitionInferenceAcceleratorsDetails
- AwsEcsTaskDefinitionPlacementConstraintsDetails
- AwsEcsTaskDefinitionProxyConfigurationDetails
- AwsEcsTaskDefinitionProxyConfigurationProxyConfigurationPropertiesDetails
- AwsEcsTaskDefinitionVolumesDetails
- AwsEcsTaskDefinitionVolumesDockerVolumeConfigurationDetails
- AwsEcsTaskDefinitionVolumesEfsVolumeConfigurationAuthorizationConfigDetails
- AwsEcsTaskDefinitionVolumesEfsVolumeConfigurationDetails
- AwsEcsTaskDefinitionVolumesHostDetails
- AwsEcsTaskDetails
- AwsEcsTaskVolumeDetails
- AwsEcsTaskVolumeHostDetails
- AwsMountPoint

Amazon Elastic File System (EFS) objects

- AwsEfsAccessPointDetails
- AwsEfsAccessPointPosixUserDetails
- AwsEfsAccessPointRootDirectoryCreationInfoDetails
- AwsEfsAccessPointRootDirectoryDetails

Amazon Elastic Kubernetes Service (EKS) objects

- AwsEksClusterDetails
- AwsEksClusterLoggingClusterLoggingDetails
- AwsEksClusterLoggingDetails
- AwsEksClusterResourcesVpcConfigDetails

AWS Elastic Beanstalk objects

- AwsElasticBeanstalkEnvironmentDetails
- AwsElasticBeanstalkEnvironmentEnvironmentLink
- AwsElasticBeanstalkEnvironmentOptionSetting
- AwsElasticBeanstalkEnvironmentTier

Elasticsearch objects

- AwsElasticsearchDomainDetails
- AwsElasticsearchDomainDomainEndpointOptions
- AwsElasticsearchDomainElasticsearchClusterConfigDetails
- AwsElasticsearchDomainElasticsearchClusterConfigZoneAwarenessConfigDetails
- AwsElasticsearchDomainEncryptionAtRestOptions
- AwsElasticsearchDomainLogPublishingOptions
- AwsElasticsearchDomainLogPublishingOptionsLogConfig
- AwsElasticsearchDomainNodeToNodeEncryptionOptions
- AwsElasticsearchDomainServiceSoftwareOptions
- AwsElasticsearchDomainVPCOptions

Elastic Load Balancing objects

- AwsElbAppCookieStickinessPolicy
- AwsElbLbCookieStickinessPolicy
- AwsElbLoadBalancerAccessLog
- AwsElbLoadBalancerAdditionalAttribute
- AwsElbLoadBalancerAttributes
- AwsElbLoadBalancerBackendServerDescription
- AwsElbLoadBalancerConnectionDraining
- AwsElbLoadBalancerConnectionSettings
- AwsElbLoadBalancerCrossZoneLoadBalancing
- AwsElbLoadBalancerDetails
- AwsElbLoadBalancerHealthCheck
- AwsElbLoadBalancerInstance
- AwsElbLoadBalancerListener
- AwsElbLoadBalancerListenerDescription
- AwsElbLoadBalancerPolicies
- AwsElbLoadBalancerSourceSecurityGroup
- AwsElbv2LoadBalancerAttribute
- AwsElbv2LoadBalancerDetails
- LoadBalancerState

Amazon EventBridge objects

- AwsEventSchemasRegistryDetails
- AwsEventsEndpointDetails
- AwsEventsEndpointEventBusesDetails
- AwsEventsEndpointReplicationConfigDetails
- AwsEventsEndpointRoutingConfigDetails
- AwsEventsEndpointRoutingConfigFailoverConfigDetails
- AwsEventsEndpointRoutingConfigFailoverConfigPrimaryDetails
- AwsEventsEndpointRoutingConfigFailoverConfigSecondaryDetails

- AwsEventsEventbusDetails

Amazon GuardDuty objects

- AwsGuardDutyDetectorDataSourcesCloudTrailDetails
- AwsGuardDutyDetectorDataSourcesDetails
- AwsGuardDutyDetectorDataSourcesDnsLogsDetails
- AwsGuardDutyDetectorDataSourcesFlowLogsDetails
- AwsGuardDutyDetectorDataSourcesKubernetesAuditLogsDetails
- AwsGuardDutyDetectorDataSourcesKubernetesDetails
- AwsGuardDutyDetectorDataSourcesMalwareProtectionDetails
- AwsGuardDutyDetectorDataSourcesMalwareProtectionScanEc2InstanceWithFindingsDetails
- AwsGuardDutyDetectorDataSourcesMalwareProtectionScanEc2InstanceWithFindingsEbsVolumesDetails
- AwsGuardDutyDetectorDataSourcesS3LogsDetails
- AwsGuardDutyDetectorDetails
- AwsGuardDutyDetectorFeaturesDetails

AWS Identity and Access Management (IAM) objects

- AwsIamAccessKeyDetails
- AwsIamAccessKeySessionContext
- AwsIamAccessKeySessionContextAttributes
- AwsIamAccessKeySessionContextSessionIssuer
- AwsIamAttachedManagedPolicy
- AwsIamGroupDetails
- AwsIamGroupPolicy
- AwsIamInstanceProfile
- AwsIamInstanceProfileRole
- AwsIamPermissionsBoundary
- AwsIamPolicyDetails
- AwsIamPolicyVersion
- AwsIamRoleDetails

- AwsIamRolePolicy
- AwsIamUserDetails
- AwsIamUserPolicy

Amazon Kinesis objects

- AwsKinesisStreamDetails
- AwsKinesisStreamStreamEncryptionDetails

AWS Key Management Service (AWS KMS) objects

- AwsKmsKeyDetails

AWS Lambda objects

- AwsLambdaFunctionCode
- AwsLambdaFunctionDeadLetterConfig
- AwsLambdaFunctionDetails
- AwsLambdaFunctionEnvironment
- AwsLambdaFunctionEnvironmentError
- AwsLambdaFunctionLayer
- AwsLambdaFunctionTracingConfig
- AwsLambdaFunctionVpcConfig
- AwsLambdaLayerVersionDetails

Amazon Managed Streaming for Apache Kafka (Amazon MSK) objects

- AwsMskClusterDetails
- AwsMskClusterClusterInfoClientAuthenticationDetails
- AwsMskClusterClusterInfoClientAuthenticationSaslDetails
- AwsMskClusterClusterInfoClientAuthenticationSaslIamDetails
- AwsMskClusterClusterInfoClientAuthenticationSaslScramDetails
- AwsMskClusterClusterInfoClientAuthenticationTlsDetails

- AwsMskClusterClusterInfoClientAuthenticationUnauthenticatedDetails
- AwsMskClusterClusterInfoDetails
- AwsMskClusterClusterInfoEncryptionInfoDetails
- AwsMskClusterClusterInfoEncryptionInfoEncryptionAtRestDetails
- AwsMskClusterClusterInfoEncryptionInfoEncryptionInTransitDetails

AWS Network Firewall objects

- AwsNetworkFirewallFirewallDetails
- AwsNetworkFirewallFirewallPolicyDetails
- FirewallPolicyDetails
- FirewallPolicyStatelessCustomActionsDetails
- StatelessCustomActionDefinition
- StatelessCustomPublishMetricAction
- StatelessCustomPublishMetricActionDimension
- AwsNetworkFirewallFirewallSubnetMappingsDetails
- AwsNetworkFirewallRuleGroupDetails
- RuleGroupDetails
- RuleGroupSource
- RuleGroupSourceCustomActionsDetails
- RuleGroupSourceListDetails
- RuleGroupSourceStatefulRulesDetails
- RuleGroupSourceStatefulRulesHeaderDetails
- RuleGroupSourceStatefulRulesOptionsDetails
- RuleGroupSourceStatelessRuleDefinition
- RuleGroupSourceStatelessRuleMatchAttributes
- RuleGroupSourceStatelessRuleMatchAttributesDestinationPorts
- RuleGroupSourceStatelessRuleMatchAttributesDestinations
- RuleGroupSourceStatelessRuleMatchAttributesSourcePorts
- RuleGroupSourceStatelessRuleMatchAttributesSources
- RuleGroupSourceStatelessRuleMatchAttributesTcpFlags

- RuleGroupSourceStatelessRulesAndCustomActionsDetails
- RuleGroupSourceStatelessRulesDetails
- RuleGroupVariables
- RuleGroupVariablesIpSetsDetails
- RuleGroupVariablesPortSetsDetails
- NetworkHeader
- FirewallPolicyStatefulRuleGroupReferencesDetails
- FirewallPolicyStatelessRuleGroupReferencesDetails

Amazon OpenSearch Service objects

- AwsOpenSearchServiceDomainAdvancedSecurityOptionsDetails
- AwsOpenSearchServiceDomainClusterConfigDetails
- AwsOpenSearchServiceDomainClusterConfigZoneAwarenessConfigDetails
- AwsOpenSearchServiceDomainDetails
- AwsOpenSearchServiceDomainDomainEndpointOptionsDetails
- AwsOpenSearchServiceDomainEncryptionAtRestOptionsDetails
- AwsOpenSearchServiceDomainLogPublishingOption
- AwsOpenSearchServiceDomainLogPublishingOptionsDetails
- AwsOpenSearchServiceDomainMasterUserOptionsDetails
- AwsOpenSearchServiceDomainNodeToNodeEncryptionOptionsDetails
- AwsOpenSearchServiceDomainServiceSoftwareOptionsDetails
- AwsOpenSearchServiceDomainVpcOptionsDetails

Amazon Relational Database Service (RDS) objects

- AwsRdsDbClusterAssociatedRole
- AwsRdsDbClusterDetails
- AwsRdsDbClusterMember
- AwsRdsDbClusterOptionGroupMembership
- AwsRdsDbClusterSnapshotDbClusterSnapshotAttribute
- AwsRdsDbClusterSnapshotDetails

- AwsRdsDbDomainMembership
- AwsRdsDbInstanceAssociatedRole
- AwsRdsDbInstanceDetails
- AwsRdsDbInstanceEndpoint
- AwsRdsDbInstanceVpcSecurityGroup
- AwsRdsDbOptionGroupMembership
- AwsRdsDbParameterGroup
- AwsRdsDbPendingModifiedValues
- AwsRdsDbProcessorFeature
- AwsRdsDbSecurityGroupDetails
- AwsRdsDbSecurityGroupEc2SecurityGroup
- AwsRdsDbSecurityGroupIpRange
- AwsRdsDbSnapshotDetails
- AwsRdsDbStatusInfo
- AwsRdsDbSubnetGroup
- AwsRdsDbSubnetGroupSubnet
- AwsRdsDbSubnetGroupSubnetAvailabilityZone
- AwsRdsEventSubscriptionDetails
- AwsRdsPendingCloudWatchLogsExports

Amazon Redshift objects

- AwsRedshiftClusterClusterNode
- AwsRedshiftClusterClusterParameterGroup
- AwsRedshiftClusterClusterParameterStatus
- AwsRedshiftClusterClusterSecurityGroup
- AwsRedshiftClusterClusterSnapshotCopyStatus
- AwsRedshiftClusterDeferredMaintenanceWindow
- AwsRedshiftClusterDetails
- AwsRedshiftClusterElasticIpStatus
- AwsRedshiftClusterEndpoint

- AwsRedshiftClusterHsmStatus
- AwsRedshiftClusterIamRole
- AwsRedshiftClusterLoggingStatus
- AwsRedshiftClusterPendingModifiedValues
- AwsRedshiftClusterResizeInfo
- AwsRedshiftClusterRestoreStatus
- AwsRedshiftClusterVpcSecurityGroup

Amazon Route 53 objects

- AwsRoute53HostedZoneConfigDetails
- AwsRoute53HostedZoneDetails
- AwsRoute53HostedZoneObjectDetails
- AwsRoute53HostedZoneVpcDetails
- AwsRoute53QueryLoggingConfigDetails
- CloudWatchLogsLogGroupArnConfigDetails

Amazon Simple Storage Service (S3) objects

- AwsS3AccessPointDetails
- AwsS3AccessPointVpcConfigurationDetails
- AwsS3AccountPublicAccessBlockDetails
- AwsS3BucketBucketLifecycleConfigurationDetails
- AwsS3BucketBucketLifecycleConfigurationRulesAbortIncompleteMultipartUploadDetails
- AwsS3BucketBucketLifecycleConfigurationRulesDetails
- AwsS3BucketBucketLifecycleConfigurationRulesFilterDetails
- AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateDetails
- AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateOperandsDetails
- AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateOperandsTagDetails
- AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateTagDetails
- AwsS3BucketBucketLifecycleConfigurationRulesNoncurrentVersionTransitionsDetails
- AwsS3BucketBucketLifecycleConfigurationRulesTransitionsDetails

- AwsS3BucketBucketVersioningConfiguration
- AwsS3BucketDetails
- AwsS3BucketLoggingConfiguration
- AwsS3BucketNotificationConfiguration
- AwsS3BucketNotificationConfigurationDetail
- AwsS3BucketNotificationConfigurationFilter
- AwsS3BucketNotificationConfigurationS3KeyFilter
- AwsS3BucketNotificationConfigurationS3KeyFilterRule
- AwsS3BucketObjectLockConfiguration
- AwsS3BucketObjectLockConfigurationRuleDefaultRetentionDetails
- AwsS3BucketObjectLockConfigurationRuleDetails
- AwsS3BucketServerSideEncryptionByDefault
- AwsS3BucketServerSideEncryptionConfiguration
- AwsS3BucketServerSideEncryptionRule
- AwsS3BucketWebsiteConfiguration
- AwsS3BucketWebsiteConfigurationRedirectTo
- AwsS3BucketWebsiteConfigurationRoutingRule
- AwsS3BucketWebsiteConfigurationRoutingRuleCondition
- AwsS3BucketWebsiteConfigurationRoutingRuleRedirect
- AwsS3ObjectDetails

Amazon SageMaker AI objects

- AwsSageMakerNotebookInstanceDetails
- AwsSageMakerNotebookInstanceMetadataServiceConfigurationDetails

AWS Secrets Manager objects

- AwsSecretsManagerSecretDetails
- AwsSecretsManagerSecretRotationRules

Amazon Simple Notification Service (SNS) objects

- AwsSnsTopicDetails
- AwsSnsTopicSubscription

Amazon Simple Queue Service (SQS) objects

- AwsSqsQueueDetails

AWS Systems Manager objects

- AwsSsmComplianceSummary
- AwsSsmPatch
- AwsSsmPatchComplianceDetails

AWS Step Functions objects

- AwsStepFunctionStateMachineDetails
- AwsStepFunctionStateMachineLoggingConfigurationDestinationsCloudWatchLogsLogGroupDetails
- AwsStepFunctionStateMachineLoggingConfigurationDestinationsDetails
- AwsStepFunctionStateMachineLoggingConfigurationDetails
- AwsStepFunctionStateMachineTracingConfigurationDetails

AWS WAF objects

- AwsWafRateBasedRuleDetails
- AwsWafRateBasedRuleMatchPredicate
- AwsWafRegionalRateBasedRuleDetails
- AwsWafRegionalRateBasedRuleMatchPredicate
- AwsWafRegionalRuleDetails
- AwsWafRegionalRuleGroupDetails
- AwsWafRegionalRuleGroupRulesActionDetails
- AwsWafRegionalRuleGroupRulesDetails
- AwsWafRegionalRulePredicateListDetails
- AwsWafRegionalWebAclDetails

- AwsWafRegionalWebAclRulesListActionDetails
- AwsWafRegionalWebAclRulesListDetails
- AwsWafRegionalWebAclRulesListOverrideActionDetails
- AwsWafRuleDetails
- AwsWafRuleGroupDetails
- AwsWafRuleGroupRulesActionDetails
- AwsWafRuleGroupRulesDetails
- AwsWafRulePredicateListDetails
- AwsWafv2ActionAllowDetails
- AwsWafv2ActionBlockDetails
- AwsWafv2CustomHttpHeader
- AwsWafv2CustomRequestHandlingDetails
- AwsWafv2CustomResponseDetails
- AwsWafv2RuleGroupDetails
- AwsWafv2RulesActionCaptchaDetails
- AwsWafv2RulesActionCountDetails
- AwsWafv2RulesActionDetails
- AwsWafv2RulesDetails
- AwsWafv2VisibilityConfigDetails
- AwsWafv2WebAclActionDetails
- AwsWafv2WebAclCaptchaConfigDetails
- AwsWafv2WebAclCaptchaConfigImmunityTimePropertyDetails
- AwsWafv2WebAclDetails
- AwsWafWebAclDetails
- WafAction
- WafExcludedRule
- WafOverrideAction
- AwsWafWebAclRule

AWS X-Ray objects

- AwsXrayEncryptionConfigDetails

Container objects

- ContainerDetails
- VolumeMount
- AggregatorV2
- AutomationRulesActionTypeObjectV2
- AutomationRulesActionV2
- AutomationRulesFindingFieldsUpdateV2
- AutomationRulesMetadataV2
- BatchUpdateFindingsV2ProcessedFinding
- BatchUpdateFindingsV2UnprocessedFinding
- CompositeFilter
- Criteria
- ExternalIntegrationConfiguration
- GroupByResult
- GroupByRule
- GroupByValue
- OcsfBooleanFilter
- OcsfDateFilter
- OcsfFindingFilters
- OcsfFindingIdentifier
- OcsfMapFilter
- OcsfNumberFilter
- OcsfStringFilter
- ProductV2
- ResourceFindingsSummary
- CodeRepositoryDetails
- ResourceResult
- ResourcesCompositeFilter

- ResourcesDateFilter
- ResourceSeverityBreakdown
- ResourcesFilters
- ResourcesMapFilter
- ResourcesNumberFilter
- ResourcesStringFilter
- ResourceTag
- ConnectorSummary
- HealthCheck
- JiraCloudDetail
- JiraCloudProviderConfiguration
- JiraCloudUpdateConfiguration
- ProviderConfiguration
- ProviderDetail
- ProviderSummary
- ProviderUpdateConfiguration
- ServiceNowDetail
- ServiceNowProviderConfiguration
- OcsfIpFilter

Primary data types

AWS Security Hub CSPM supports the following primary data types:

- AccountDetails
- Action
- ActionLocalIpDetails
- ActionLocalPortDetails
- ActionRemoteIpDetails
- ActionRemotePortDetails
- ActionTarget
- Actor

- ActorSession
- ActorUser
- Adjustment
- AdminAccount
- AssociatedStandard
- AssociationFilters
- AutomationRulesAction
- AutomationRulesConfig
- AutomationRulesFindingFieldsUpdate
- AutomationRulesFindingFilters
- AutomationRulesMetadata
- AwsApiCallAction
- AwsApiCallActionDomainDetails
- AwsSecurityFinding
- AwsSecurityFindingFilters
- AwsSecurityFindingIdentifier
- BatchUpdateFindingsUnprocessedFinding
- BooleanConfigurationOptions
- BooleanFilter
- Cell
- City
- ClassificationResult
- ClassificationStatus
- CodeVulnerabilitiesFilePath
- Compliance
- ConfigurationOptions
- ConfigurationPolicyAssociation
- ConfigurationPolicyAssociationSummary
- ConfigurationPolicySummary
- Country

- CustomDataIdentifiersDetections
- CustomDataIdentifiersResult
- Cvss
- DataClassificationDetails
- DateFilter
- DateRange
- Detection
- DnsRequestAction
- DoubleConfigurationOptions
- EnumConfigurationOptions
- EnumListConfigurationOptions
- FilePaths
- FindingAggregator
- FindingHistoryRecord
- FindingHistoryUpdate
- FindingHistoryUpdateSource
- FindingProviderFields
- FindingProviderSeverity
- GeneratorDetails
- GeoLocation
- IcmpTypeCode
- ImportFindingsError
- Indicator
- Insight
- InsightResults
- InsightResultValue
- IntegerConfigurationOptions
- IntegerListConfigurationOptions
- Invitation
- IpFilter

- IpOrganizationDetails
- KeywordFilter
- Malware
- MapFilter
- Member
- Network
- NetworkAutonomousSystem
- NetworkConnection
- NetworkConnectionAction
- NetworkEndpoint
- NetworkGeoLocation
- NetworkPathComponent
- NetworkPathComponentDetails
- Note
- NoteUpdate
- NumberFilter
- Occurrences
- OrganizationConfiguration
- Page
- ParameterConfiguration
- ParameterDefinition
- ParameterValue
- PatchSummary
- Policy
- PortProbeAction
- PortProbeDetail
- ProcessDetails
- Product
- Range
- Recommendation

- Record
- RelatedFinding
- Remediation
- Resource
- ResourceDetails
- Result
- SecurityControl
- SecurityControlCustomParameter
- SecurityControlDefinition
- SecurityControlParameter
- SecurityControlsConfiguration
- SecurityHubPolicy
- SensitiveDataDetections
- SensitiveDataResult
- Sequence
- Severity
- SeverityUpdate
- Signal
- SoftwarePackage
- SortCriterion
- Standard
- StandardsControl
- StandardsControlAssociationDetail
- StandardsControlAssociationId
- StandardsControlAssociationSummary
- StandardsControlAssociationUpdate
- StandardsManagedBy
- StandardsStatusReason
- StandardsSubscription
- StandardsSubscriptionRequest

- StatusReason
- StringConfigurationOptions
- StringFilter
- StringListConfigurationOptions
- Target
- Threat
- ThreatIntelIndicator
- UnprocessedAutomationRule
- UnprocessedConfigurationPolicyAssociation
- UnprocessedSecurityControl
- UnprocessedStandardsControlAssociation
- UnprocessedStandardsControlAssociationUpdate
- UpdateAutomationRulesRequestItem
- UserAccount
- Vulnerability
- VulnerabilityCodeVulnerabilities
- VulnerabilityVendor
- Workflow
- WorkflowUpdate
- AggregatorV2
- AutomationRulesActionTypeObjectV2
- AutomationRulesActionV2
- AutomationRulesFindingFieldsUpdateV2
- AutomationRulesMetadataV2
- BatchUpdateFindingsV2ProcessedFinding
- BatchUpdateFindingsV2UnprocessedFinding
- CompositeFilter
- Criteria
- ExternalIntegrationConfiguration
- GroupByResult

- GroupByRule
- GroupByValue
- OcsfBooleanFilter
- OcsfDateFilter
- OcsfFindingFilters
- OcsfFindingIdentifier
- OcsfNumberFilter
- OcsfMapFilter
- OcsfStringFilter
- ProductV2
- ResourceFindingsSummary
- ResourceGroupByRule
- ResourceResult
- ResourcesCompositeFilter
- ResourcesDateFilter
- ResourceSeverityBreakdown
- ResourcesFilters
- ResourcesMapFilter
- ResourcesNumberFilter
- ResourcesStringFilter
- ResourceTag
- ConnectorSummary
- HealthCheck
- JiraCloudDetail
- JiraCloudProviderConfiguration
- JiraCloudUpdateConfiguration
- ProviderConfiguration
- ProviderDetail
- ProviderSummary
- ProviderUpdateConfiguration

- ServiceNowDetail
- ServiceNowProviderConfiguration
- OcsfIpFilter

AccountDetails

The details of an AWS account.

Contents

AccountId

The ID of an AWS account.

Type: String

Required: Yes

Email

The email of an AWS account.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Action

Provides details about one of the following actions that affects or that was taken on a resource:

- A remote IP address issued an AWS API call
- A DNS request was received
- A remote IP address attempted to connect to an EC2 instance
- A remote IP address attempted a port probe on an EC2 instance

Contents

ActionType

The type of action that was detected. The possible action types are:

- `NETWORK_CONNECTION`
- `AWS_API_CALL`
- `DNS_REQUEST`
- `PORT_PROBE`

Type: String

Pattern: `.*\S.*`

Required: No

AwsApiCallAction

Included if `ActionType` is `AWS_API_CALL`. Provides details about the API call that was detected.

Type: AwsApiCallAction object

Required: No

DnsRequestAction

Included if `ActionType` is `DNS_REQUEST`. Provides details about the DNS request that was detected.

Type: DnsRequestAction object

Required: No

NetworkConnectionAction

Included if `ActionType` is `NETWORK_CONNECTION`. Provides details about the network connection that was detected.

Type: NetworkConnectionAction object

Required: No

PortProbeAction

Included if `ActionType` is `PORT_PROBE`. Provides details about the port probe that was detected.

Type: PortProbeAction object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ActionLocalIpDetails

Provides information about the IP address where the scanned port is located.

Contents

IpAddressV4

The IP address.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ActionLocalPortDetails

For `NetworkConnectionAction` and `PortProbeDetails`, `LocalPortDetails` provides information about the local port that was involved in the action.

Contents

Port

The number of the port.

Type: Integer

Required: No

PortName

The port name of the local connection.

Length Constraints: 128.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ActionRemoteIpDetails

For `AwsApiAction`, `NetworkConnectionAction`, and `PortProbeAction`, `RemoteIpDetails` provides information about the remote IP address that was involved in the action.

Contents

City

The city where the remote IP address is located.

Type: City object

Required: No

Country

The country where the remote IP address is located.

Type: Country object

Required: No

GeoLocation

The coordinates of the location of the remote IP address.

Type: GeoLocation object

Required: No

IpAddressV4

The IP address.

Type: String

Pattern: `.*\S.*`

Required: No

Organization

The internet service provider (ISP) organization associated with the remote IP address.

Type: IpOrganizationDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ActionRemotePortDetails

Provides information about the remote port that was involved in an attempted network connection.

Contents

Port

The number of the port.

Type: Integer

Required: No

PortName

The port name of the remote connection.

Length Constraints: 128.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ActionTarget

An `ActionTarget` object.

Contents

ActionTargetArn

The ARN for the target action.

Type: String

Pattern: `.*\S.*`

Required: Yes

Description

The description of the target action.

Type: String

Pattern: `.*\S.*`

Required: Yes

Name

The name of the action target.

Type: String

Pattern: `.*\S.*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

Actor

Information about the threat actor identified in an Amazon GuardDuty Extended Threat Detection attack sequence. GuardDuty generates an attack sequence finding when multiple events align to a potentially suspicious activity. To receive GuardDuty attack sequence findings in AWS Security Hub CSPM, you must have GuardDuty enabled. For more information, see GuardDuty Extended Threat Detection in the *Amazon GuardDuty User Guide*.

Contents

Id

The ID of the threat actor.

Type: String

Pattern: `.*\S.*`

Required: No

Session

Contains information about the user session where the activity initiated.

Type: ActorSession object

Required: No

User

Contains information about the user credentials used by the threat actor.

Type: ActorUser object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

ActorSession

Contains information about the authenticated session used by the threat actor identified in an Amazon GuardDuty Extended Threat Detection attack sequence. GuardDuty generates an attack sequence finding when multiple events align to a potentially suspicious activity. To receive GuardDuty attack sequence findings in AWS Security Hub CSPM, you must have GuardDuty enabled. For more information, see GuardDuty Extended Threat Detection in the *Amazon GuardDuty User Guide*.

Contents

CreatedTime

The timestamp for when the session was created.

In AWS CloudTrail, you can find this value as `userIdentity.sessionContext.attributes.creationDate`.

Type: Long

Required: No

Issuer

The issuer of the session.

In AWS CloudTrail, you can find this value as `userIdentity.sessionContext.sessionIssuer.arn`.

Type: String

Pattern: `.*\S.*`

Required: No

MfaStatus

Indicates whether multi-factor authentication (MFA) was used for authentication during the session.

In AWS CloudTrail, you can find this value as `userIdentity.sessionContext.attributes.mfaAuthenticated`.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

Uid

Unique identifier of the session.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ActorUser

Contains information about the credentials used by the threat actor identified in an Amazon GuardDuty Extended Threat Detection attack sequence. GuardDuty generates an attack sequence finding when multiple events align to a potentially suspicious activity. To receive GuardDuty attack sequence findings in AWS Security Hub CSPM, you must have GuardDuty enabled. For more information, see GuardDuty Extended Threat Detection in the *Amazon GuardDuty User Guide*.

Contents

Account

The account of the threat actor.

Type: UserAccount object

Required: No

CredentialUid

Unique identifier of the threat actor's user credentials.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the threat actor.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of user.

Type: String

Pattern: `.*\S.*`

Required: No

Uid

The unique identifier of the threat actor.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Adjustment

An adjustment to the CVSS metric.

Contents

Metric

The metric to adjust.

Type: String

Pattern: `.*\S.*`

Required: No

Reason

The reason for the adjustment.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AdminAccount

Represents a Security Hub CSPM administrator account designated by an organization management account.

Contents

AccountId

The AWS account identifier of the Security Hub CSPM administrator account.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The current status of the Security Hub CSPM administrator account. Indicates whether the account is currently enabled as a Security Hub CSPM administrator.

Type: String

Valid Values: `ENABLED | DISABLE_IN_PROGRESS`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AssociatedStandard

Information about an enabled security standard in which a security control is enabled.

Contents

StandardsId

The unique identifier of a standard in which a control is enabled. This field consists of the resource portion of the Amazon Resource Name (ARN) returned for a standard in the DescribeStandards API response.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AssociationFilters

Options for filtering the `ListConfigurationPolicyAssociations` response. You can filter by the Amazon Resource Name (ARN) or universally unique identifier (UUID) of a configuration policy, `AssociationType`, or `AssociationStatus`.

Contents

AssociationStatus

The current status of the association between a target and a configuration policy.

Type: String

Valid Values: `PENDING | SUCCESS | FAILED`

Required: No

AssociationType

Indicates whether the association between a target and a configuration was directly applied by the AWS Security Hub CSPM delegated administrator or inherited from a parent.

Type: String

Valid Values: `INHERITED | APPLIED`

Required: No

ConfigurationPolicyId

The ARN or UUID of the configuration policy.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AutomationRulesAction

One or more actions that AWS Security Hub CSPM takes when a finding matches the defined criteria of a rule.

Contents

FindingFieldsUpdate

Specifies that the automation rule action is an update to a finding field.

Type: AutomationRulesFindingFieldsUpdate object

Required: No

Type

Specifies the type of action that Security Hub CSPM takes when a finding matches the defined criteria of a rule.

Type: String

Valid Values: `FINDING_FIELDS_UPDATE`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AutomationRulesConfig

Defines the configuration of an automation rule.

Contents

Actions

One or more actions to update finding fields if a finding matches the defined criteria of the rule.

Type: Array of AutomationRulesAction objects

Array Members: Fixed number of 1 item.

Required: No

CreatedAt

A timestamp that indicates when the rule was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Timestamp

Required: No

CreatedBy

The principal that created a rule.

Type: String

Pattern: `.*\S.*`

Required: No

Criteria

A set of AWS Security Finding Format finding field attributes and corresponding expected values that Security Hub CSPM uses to filter findings. If a rule is enabled and a finding matches the conditions specified in this parameter, Security Hub CSPM applies the rule action to the finding.

Type: AutomationRulesFindingFilters object

Required: No

Description

A description of the rule.

Type: String

Pattern: `.*\S.*`

Required: No

IsTerminal

Specifies whether a rule is the last to be applied with respect to a finding that matches the rule criteria. This is useful when a finding matches the criteria for multiple rules, and each rule has different actions. If a rule is terminal, Security Hub CSPM applies the rule action to a finding that matches the rule criteria and doesn't evaluate other rules for the finding. By default, a rule isn't terminal.

Type: Boolean

Required: No

RuleArn

The Amazon Resource Name (ARN) of a rule.

Type: String

Pattern: `.*\S.*`

Required: No

RuleName

The name of the rule.

Type: String

Pattern: `.*\S.*`

Required: No

RuleOrder

An integer ranging from 1 to 1000 that represents the order in which the rule action is applied to findings. Security Hub CSPM applies rules with lower values for this parameter first.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

RuleStatus

Whether the rule is active after it is created. If this parameter is equal to `ENABLED`, Security Hub CSPM starts applying the rule to findings and finding updates after the rule is created.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

UpdatedAt

A timestamp that indicates when the rule was most recently updated.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AutomationRulesFindingFieldsUpdate

Identifies the finding fields that the automation rule action updates when a finding matches the defined criteria.

Contents

Confidence

The rule action updates the `Confidence` field of a finding.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

Criticality

The rule action updates the `Criticality` field of a finding.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

Note

The updated note.

Type: NoteUpdate object

Required: No

RelatedFindings

The rule action updates the `RelatedFindings` field of a finding.

Type: Array of RelatedFinding objects

Required: No

Severity

Updates to the severity information for a finding.

Type: SeverityUpdate object

Required: No

Types

The rule action updates the `Types` field of a finding.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

UserDefinedFields

The rule action updates the `UserDefinedFields` field of a finding.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

VerificationState

The rule action updates the `VerificationState` field of a finding.

Type: String

Valid Values: `UNKNOWN | TRUE_POSITIVE | FALSE_POSITIVE | BENIGN_POSITIVE`

Required: No

Workflow

Used to update information about the investigation into the finding.

Type: WorkflowUpdate object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AutomationRulesFindingFilters

The criteria that determine which findings a rule applies to.

Contents

AwsAccountId

The AWS account ID in which a finding was generated.

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Type: Array of StringFilter objects

Required: No

AwsAccountName

The name of the AWS account in which a finding was generated.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

CompanyName

The name of the company for the product that generated the finding. For control-based findings, the company is AWS.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

ComplianceAssociatedStandardsId

The unique identifier of a standard in which a control is enabled. This field consists of the resource portion of the Amazon Resource Name (ARN) returned for a standard in the DescribeStandards API response.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

ComplianceSecurityControlId

The security control ID for which a finding was generated. Security control IDs are the same across standards.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

ComplianceStatus

The result of a security check. This field is only used for findings generated from controls.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

Confidence

The likelihood that a finding accurately identifies the behavior or issue that it was intended to identify. `Confidence` is scored on a 0–100 basis using a ratio scale. A value of `0` means 0 percent confidence, and a value of `100` means 100 percent confidence. For example, a data exfiltration detection based on a statistical deviation of network traffic has low confidence because an actual exfiltration hasn't been verified. For more information, see Confidence in the *AWS Security Hub CSPM User Guide*.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of NumberFilter objects

Required: No

CreatedAt

A timestamp that indicates when this finding record was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of DateFilter objects

Required: No

Criticality

The level of importance that is assigned to the resources that are associated with a finding. `Criticality` is scored on a 0–100 basis, using a ratio scale that supports only full integers. A score of `0` means that the underlying resources have no criticality, and a score of `100` is reserved for the most critical resources. For more information, see Criticality in the *AWS Security Hub CSPM User Guide*.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of NumberFilter objects

Required: No

Description

A finding's description.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

FirstObservedAt

A timestamp that indicates when the potential security issue captured by a finding was first observed by the security findings product.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of DateFilter objects

Required: No

GeneratorId

The identifier for the solution-specific component that generated a finding.

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Type: Array of StringFilter objects

Required: No

Id

The product-specific identifier for a finding.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

LastObservedAt

A timestamp that indicates when the security findings provider most recently observed a change in the resource that is involved in the finding.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of DateFilter objects

Required: No

NoteText

The text of a user-defined note that's added to a finding.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

NoteUpdatedAt

The timestamp of when the note was updated.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of DateFilter objects

Required: No

NoteUpdatedBy

The principal that created a note.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

ProductArn

The Amazon Resource Name (ARN) for a third-party product that generated a finding in Security Hub CSPM.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

ProductName

Provides the name of the product that generated the finding. For control-based findings, the product name is Security Hub CSPM.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

RecordState

Provides the current state of a finding.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

RelatedFindingsId

The product-generated identifier for a related finding.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

RelatedFindingsProductArn

The ARN for the product that generated a related finding.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

ResourceApplicationArn

The Amazon Resource Name (ARN) of the application that is related to a finding.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

ResourceApplicationName

The name of the application that is related to a finding.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

ResourceDetailsOther

Custom fields and values about the resource that a finding pertains to.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of MapFilter objects

Required: No

ResourceId

The identifier for the given resource type. For AWS resources that are identified by Amazon Resource Names (ARNs), this is the ARN. For AWS resources that lack ARNs, this is the identifier as defined by the AWS service that created the resource. For non-AWS resources, this is a unique identifier that is associated with the resource.

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Type: Array of StringFilter objects

Required: No

ResourcePartition

The partition in which the resource that the finding pertains to is located. A partition is a group of AWS Regions. Each AWS account is scoped to one partition.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

ResourceRegion

The AWS Region where the resource that a finding pertains to is located.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

ResourceTags

A list of AWS tags associated with a resource at the time the finding was processed.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of MapFilter objects

Required: No

ResourceType

The type of resource that the finding pertains to.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

SeverityLabel

The severity value of the finding.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

SourceUrl

Provides a URL that links to a page about the current finding in the finding product.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

Title

A finding's title.

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Type: Array of StringFilter objects

Required: No

Type

One or more finding types in the format of namespace/category/classifier that classify a finding. For a list of namespaces, classifiers, and categories, see Types taxonomy for ASFF in the *AWS Security Hub CSPM User Guide*.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

UpdatedAt

A timestamp that indicates when the finding record was most recently updated.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of DateFilter objects

Required: No

UserDefinedFields

A list of user-defined name and value string pairs added to a finding.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of MapFilter objects

Required: No

VerificationState

Provides the veracity of a finding.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

WorkflowStatus

Provides information about the status of the investigation into a finding.

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Type: Array of StringFilter objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AutomationRulesMetadata

Metadata for automation rules in the calling account. The response includes rules with a `RuleStatus` of `ENABLED` and `DISABLED`.

Contents

CreatedAt

A timestamp that indicates when the rule was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Timestamp

Required: No

CreatedBy

The principal that created a rule.

Type: String

Pattern: `.*\S.*`

Required: No

Description

A description of the rule.

Type: String

Pattern: `.*\S.*`

Required: No

IsTerminal

Specifies whether a rule is the last to be applied with respect to a finding that matches the rule criteria. This is useful when a finding matches the criteria for multiple rules, and each rule has different actions. If a rule is terminal, Security Hub CSPM applies the rule action to a finding that matches the rule criteria and doesn't evaluate other rules for the finding. By default, a rule isn't terminal.

Type: Boolean

Required: No

RuleArn

The Amazon Resource Name (ARN) for the rule.

Type: String

Pattern: `.*\S.*`

Required: No

RuleName

The name of the rule.

Type: String

Pattern: `.*\S.*`

Required: No

RuleOrder

An integer ranging from 1 to 1000 that represents the order in which the rule action is applied to findings. Security Hub CSPM applies rules with lower values for this parameter first.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

RuleStatus

Whether the rule is active after it is created. If this parameter is equal to `ENABLED`, Security Hub CSPM starts applying the rule to findings and finding updates after the rule is created. To change the value of this parameter after creating a rule, use `BatchUpdateAutomationRules`.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

UpdatedAt

A timestamp that indicates when the rule was most recently updated.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsApiCallAction

Provided if `ActionType` is `AWS_API_CALL`. It provides details about the API call that was detected.

Contents

AffectedResources

Identifies the resources that were affected by the API call.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

Api

The name of the API method that was issued.

Length Constraints: 128.

Type: String

Pattern: `.*\S.*`

Required: No

CallerType

Indicates whether the API call originated from a remote IP address (`remoteip`) or from a DNS domain (`domain`).

Type: String

Pattern: `.*\S.*`

Required: No

DomainDetails

Provided if `CallerType` is `domain`. Provides information about the DNS domain that the API call originated from.

Type: AwsApiCallActionDomainDetails object

Required: No

FirstSeen

A timestamp that indicates when the API call was first observed.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

LastSeen

A timestamp that indicates when the API call was most recently observed.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

RemoteIpDetails

Provided if `CallerType` is `remoteip`. Provides information about the remote IP address that the API call originated from.

Type: ActionRemoteIpDetails object

Required: No

ServiceName

The name of the AWS service that the API method belongs to.

Length Constraints: 128.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsApiCallActionDomainDetails

Provided if `CallerType` is `domain`. It provides information about the DNS domain that issued the API call.

Contents

Domain

The name of the DNS domain that issued the API call.

Length Constraints: 128.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsSecurityFinding

Provides a consistent format for Security Hub CSPM findings. `AwsSecurityFinding` format allows you to share findings between AWS security services and third-party solutions.

> **Note**
>
> A finding is a potential security issue generated either by AWS services or by the integrated third-party solutions and standards checks.

Contents

AwsAccountId

The AWS account ID that a finding is generated in.

Length Constraints: 12.

Type: String

Pattern: `.*\S.*`

Required: Yes

CreatedAt

Indicates when the security findings provider created the potential security issue that a finding captured.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: Yes

Description

A finding's description. `Description` is a required property.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Type: String

Pattern: `.*\S.*`

Required: Yes

GeneratorId

The identifier for the solution-specific component (a discrete unit of logic) that generated a finding. In various security findings providers' solutions, this generator can be called a rule, a check, a detector, a plugin, or something else.

Length Constraints: Minimum length of 1. Maximum length of 512.

Type: String

Pattern: `.*\S.*`

Required: Yes

Id

The security findings provider-specific identifier for a finding.

Length Constraints: Minimum length of 1. Maximum length of 512.

Type: String

Pattern: `.*\S.*`

Required: Yes

ProductArn

The ARN generated by Security Hub CSPM that uniquely identifies a product that generates findings. This can be the ARN for a third-party product that is integrated with Security Hub CSPM, or the ARN for a custom integration.

Length Constraints: Minimum length of 12. Maximum length of 2048.

Type: String

Pattern: `.*\S.*`

Required: Yes

Resources

A set of resource data types that describe the resources that the finding refers to.

Array Members: Minimum number of 1 item. Maximum number of 32 items.

Type: Array of Resource objects

Required: Yes

SchemaVersion

The schema version that a finding is formatted for. The value is `2018-10-08`.

Type: String

Pattern: `.*\S.*`

Required: Yes

Title

A finding's title. `Title` is a required property.

Length Constraints: Minimum length of 1. Maximum length of 256.

Type: String

Pattern: `.*\S.*`

Required: Yes

UpdatedAt

Indicates when the security findings provider last updated the finding record.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: Yes

Action

Provides details about an action that affects or that was taken on a resource.

Type: Action object

Required: No

AwsAccountName

The name of the AWS account from which a finding was generated.

Length Constraints: Minimum length of 1. Maximum length of 50.

Type: String

Pattern: `.*\S.*`

Required: No

CompanyName

The name of the company for the product that generated the finding.

Security Hub CSPM populates this attribute automatically for each finding. You cannot update this attribute with `BatchImportFindings` or `BatchUpdateFindings`. The exception to this is a custom integration.

When you use the Security Hub CSPM console or API to filter findings by company name, you use this attribute.

Length Constraints: Minimum length of 1. Maximum length of 128.

Type: String

Pattern: `.*\S.*`

Required: No

Compliance

This data type is exclusive to findings that are generated as the result of a check run against a specific rule in a supported security standard, such as CIS AWS Foundations. Contains security standard-related finding details.

Type: Compliance object

Required: No

Confidence

A finding's confidence. Confidence is defined as the likelihood that a finding accurately identifies the behavior or issue that it was intended to identify.

Confidence is scored on a 0-100 basis using a ratio scale, where 0 means zero percent confidence and 100 means 100 percent confidence.

Type: Integer

Required: No

Criticality

The level of importance assigned to the resources associated with the finding.

A score of 0 means that the underlying resources have no criticality, and a score of 100 is reserved for the most critical resources.

Type: Integer

Required: No

Detection

Provides details about an Amazon GuardDuty Extended Threat Detection attack sequence. GuardDuty generates an attack sequence finding when multiple events align to a potentially suspicious activity. To receive GuardDuty attack sequence findings in AWS Security Hub CSPM, you must have GuardDuty enabled. For more information, see GuardDuty Extended Threat Detection in the *Amazon GuardDuty User Guide*.

Type: Detection object

Required: No

FindingProviderFields

In a `BatchImportFindings` request, finding providers use `FindingProviderFields` to provide and update their own values for confidence, criticality, related findings, severity, and types.

Type: FindingProviderFields object

Required: No

FirstObservedAt

Indicates when the security findings provider first observed the potential security issue that a finding captured.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

GeneratorDetails

Provides metadata for the Amazon CodeGuru detector associated with a finding. This field pertains to findings that relate to AWS Lambda functions. Amazon Inspector identifies policy violations and vulnerabilities in Lambda function code based on internal detectors developed in collaboration with Amazon CodeGuru. AWS Security Hub CSPM receives those findings.

Type: GeneratorDetails object

Required: No

LastObservedAt

Indicates when the security findings provider most recently observed a change in the resource that is involved in the finding.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Malware

A list of malware related to a finding.

Array Members: Maximum number of 5 items.

Type: Array of Malware objects

Required: No

Network

The details of network-related information about a finding.

Type: Network object

Required: No

NetworkPath

Provides information about a network path that is relevant to a finding. Each entry under `NetworkPath` represents a component of that path.

Type: Array of NetworkPathComponent objects

Required: No

Note

A user-defined note added to a finding.

Type: Note object

Required: No

PatchSummary

Provides an overview of the patch compliance status for an instance against a selected compliance standard.

Type: PatchSummary object

Required: No

Process

The details of process-related information about a finding.

Type: ProcessDetails object

Required: No

ProcessedAt

A timestamp that indicates when AWS Security Hub CSPM received a finding and begins to process it.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

ProductFields

A data type where security findings providers can include additional solution-specific details that aren't part of the defined `AwsSecurityFinding` format.

Can contain up to 50 key-value pairs. For each key-value pair, the key can contain up to 128 characters, and the value can contain up to 2048 characters.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

ProductName

The name of the product that generated the finding.

Security Hub CSPM populates this attribute automatically for each finding. You cannot update this attribute with `BatchImportFindings` or `BatchUpdateFindings`. The exception to this is a custom integration.

When you use the Security Hub CSPM console or API to filter findings by product name, you use this attribute.

Length Constraints: Minimum length of 1. Maximum length of 128.

Type: String

Pattern: `.*\S.*`

Required: No

RecordState

The record state of a finding.

Type: String

Valid Values: `ACTIVE | ARCHIVED`

Required: No

Region

The Region from which the finding was generated.

Security Hub CSPM populates this attribute automatically for each finding. You cannot update it using `BatchImportFindings` or `BatchUpdateFindings`.

Length Constraints: Minimum length of 1. Maximum length of 16.

Type: String

Pattern: `.*\S.*`

Required: No

RelatedFindings

A list of related findings.

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Type: Array of RelatedFinding objects

Required: No

Remediation

A data type that describes the remediation options for a finding.

Type: Remediation object

Required: No

Sample

Indicates whether the finding is a sample finding.

Type: Boolean

Required: No

Severity

A finding's severity.

Type: Severity object

Required: No

SourceUrl

A URL that links to a page about the current finding in the security findings provider's solution.

Type: String

Pattern: `.*\S.*`

Required: No

ThreatIntelIndicators

Threat intelligence details related to a finding.

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Type: Array of ThreatIntelIndicator objects

Required: No

Threats

Details about the threat detected in a security finding and the file paths that were affected by the threat.

Array Members: Minimum number of 1 item. Maximum number of 32 items.

Type: Array of Threat objects

Required: No

Types

One or more finding types in the format of `namespace/category/classifier` that classify a finding.

Valid namespace values are: Software and Configuration Checks | TTPs | Effects | Unusual Behaviors | Sensitive Data Identifications

Array Members: Maximum number of 50 items.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

UserDefinedFields

A list of name/value string pairs associated with the finding. These are custom, user-defined fields added to a finding.

Can contain up to 50 key-value pairs. For each key-value pair, the key can contain up to 128 characters, and the value can contain up to 1024 characters.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

VerificationState

Indicates the veracity of a finding.

Type: String

Valid Values: `UNKNOWN | TRUE_POSITIVE | FALSE_POSITIVE | BENIGN_POSITIVE`

Required: No

Vulnerabilities

Provides a list of vulnerabilities associated with the findings.

Type: Array of Vulnerability objects

Required: No

Workflow

Provides information about the status of the investigation into a finding.

Type: Workflow object

Required: No

WorkflowState

This member has been deprecated.

The workflow state of a finding.

Type: String

Valid Values: `NEW | ASSIGNED | IN_PROGRESS | DEFERRED | RESOLVED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsSecurityFindingFilters

A collection of filters that are applied to all active findings aggregated by AWS Security Hub CSPM.

You can filter by up to ten finding attributes. For each attribute, you can provide up to 20 filter values.

Contents

AwsAccountId

The AWS account ID in which a finding is generated.

Type: Array of StringFilter objects

Required: No

AwsAccountName

The name of the AWS account in which a finding is generated.

Type: Array of StringFilter objects

Required: No

CompanyName

The name of the findings provider (company) that owns the solution (product) that generates findings.

Type: Array of StringFilter objects

Required: No

ComplianceAssociatedStandardsId

The unique identifier of a standard in which a control is enabled. This field consists of the resource portion of the Amazon Resource Name (ARN) returned for a standard in the DescribeStandards API response.

Type: Array of StringFilter objects

Required: No

ComplianceSecurityControlId

The unique identifier of a control across standards. Values for this field typically consist of an AWS service and a number, such as APIGateway.5.

Type: Array of StringFilter objects

Required: No

ComplianceSecurityControlParametersName

The name of a security control parameter.

Type: Array of StringFilter objects

Required: No

ComplianceSecurityControlParametersValue

The current value of a security control parameter.

Type: Array of StringFilter objects

Required: No

ComplianceStatus

Exclusive to findings that are generated as the result of a check run against a specific rule in a supported standard, such as CIS AWS Foundations. Contains security standard-related finding details.

Type: Array of StringFilter objects

Required: No

Confidence

A finding's confidence. Confidence is defined as the likelihood that a finding accurately identifies the behavior or issue that it was intended to identify.

Confidence is scored on a 0-100 basis using a ratio scale, where 0 means zero percent confidence and 100 means 100 percent confidence.

Type: Array of NumberFilter objects

Required: No

CreatedAt

A timestamp that indicates when the security findings provider created the potential security issue that a finding reflects.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Array of DateFilter objects

Required: No

Criticality

The level of importance assigned to the resources associated with the finding.

A score of 0 means that the underlying resources have no criticality, and a score of 100 is reserved for the most critical resources.

Type: Array of NumberFilter objects

Required: No

Description

A finding's description.

Type: Array of StringFilter objects

Required: No

FindingProviderFieldsConfidence

The finding provider value for the finding confidence. Confidence is defined as the likelihood that a finding accurately identifies the behavior or issue that it was intended to identify.

Confidence is scored on a 0-100 basis using a ratio scale, where 0 means zero percent confidence and 100 means 100 percent confidence.

Type: Array of NumberFilter objects

Required: No

FindingProviderFieldsCriticality

The finding provider value for the level of importance assigned to the resources associated with the findings.

A score of 0 means that the underlying resources have no criticality, and a score of 100 is reserved for the most critical resources.

Type: Array of NumberFilter objects

Required: No

FindingProviderFieldsRelatedFindingsId

The finding identifier of a related finding that is identified by the finding provider.

Type: Array of StringFilter objects

Required: No

FindingProviderFieldsRelatedFindingsProductArn

The ARN of the solution that generated a related finding that is identified by the finding provider.

Type: Array of StringFilter objects

Required: No

FindingProviderFieldsSeverityLabel

The finding provider value for the severity label.

Type: Array of StringFilter objects

Required: No

FindingProviderFieldsSeverityOriginal

The finding provider's original value for the severity.

Type: Array of StringFilter objects

Required: No

FindingProviderFieldsTypes

One or more finding types that the finding provider assigned to the finding. Uses the format of `namespace/category/classifier` that classify a finding.

Valid namespace values are: Software and Configuration Checks | TTPs | Effects | Unusual Behaviors | Sensitive Data Identifications

Type: Array of StringFilter objects

Required: No

FirstObservedAt

A timestamp that indicates when the security findings provider first observed the potential security issue that a finding captured.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Array of DateFilter objects

Required: No

GeneratorId

The identifier for the solution-specific component (a discrete unit of logic) that generated a finding. In various security findings providers' solutions, this generator can be called a rule, a check, a detector, a plugin, etc.

Type: Array of StringFilter objects

Required: No

Id

The security findings provider-specific identifier for a finding.

Type: Array of StringFilter objects

Required: No

Keyword

This member has been deprecated.

A keyword for a finding.

Type: Array of KeywordFilter objects

Required: No

LastObservedAt

A timestamp that indicates when the security findings provider most recently observed a change in the resource that is involved in the finding.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Array of DateFilter objects

Required: No

MalwareName

The name of the malware that was observed.

Type: Array of StringFilter objects

Required: No

MalwarePath

The filesystem path of the malware that was observed.

Type: Array of StringFilter objects

Required: No

MalwareState

The state of the malware that was observed.

Type: Array of StringFilter objects

Required: No

MalwareType

The type of the malware that was observed.

Type: Array of StringFilter objects

Required: No

NetworkDestinationDomain

The destination domain of network-related information about a finding.

Type: Array of StringFilter objects

Required: No

NetworkDestinationIpV4

The destination IPv4 address of network-related information about a finding.

Type: Array of IpFilter objects

Required: No

NetworkDestinationIpV6

The destination IPv6 address of network-related information about a finding.

Type: Array of IpFilter objects

Required: No

NetworkDestinationPort

The destination port of network-related information about a finding.

Type: Array of NumberFilter objects

Required: No

NetworkDirection

Indicates the direction of network traffic associated with a finding.

Type: Array of StringFilter objects

Required: No

NetworkProtocol

The protocol of network-related information about a finding.

Type: Array of StringFilter objects

Required: No

NetworkSourceDomain

The source domain of network-related information about a finding.

Type: Array of StringFilter objects

Required: No

NetworkSourceIpV4

The source IPv4 address of network-related information about a finding.

Type: Array of IpFilter objects

Required: No

NetworkSourceIpV6

The source IPv6 address of network-related information about a finding.

Type: Array of IpFilter objects

Required: No

NetworkSourceMac

The source media access control (MAC) address of network-related information about a finding.

Type: Array of StringFilter objects

Required: No

NetworkSourcePort

The source port of network-related information about a finding.

Type: Array of NumberFilter objects

Required: No

NoteText

The text of a note.

Type: Array of StringFilter objects

Required: No

NoteUpdatedAt

The timestamp of when the note was updated.

Type: Array of DateFilter objects

Required: No

NoteUpdatedBy

The principal that created a note.

Type: Array of StringFilter objects

Required: No

ProcessLaunchedAt

A timestamp that identifies when the process was launched.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Array of DateFilter objects

Required: No

ProcessName

The name of the process.

Type: Array of StringFilter objects

Required: No

ProcessParentPid

The parent process ID. This field accepts positive integers between 0 and 2147483647.

Type: Array of NumberFilter objects

Required: No

ProcessPath

The path to the process executable.

Type: Array of StringFilter objects

Required: No

ProcessPid

The process ID.

Type: Array of NumberFilter objects

Required: No

ProcessTerminatedAt

A timestamp that identifies when the process was terminated.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Array of DateFilter objects

Required: No

ProductArn

The ARN generated by Security Hub CSPM that uniquely identifies a third-party company (security findings provider) after this provider's product (solution that generates findings) is registered with Security Hub CSPM.

Type: Array of StringFilter objects

Required: No

ProductFields

A data type where security findings providers can include additional solution-specific details that aren't part of the defined `AwsSecurityFinding` format.

Type: Array of MapFilter objects

Required: No

ProductName

The name of the solution (product) that generates findings.

Type: Array of StringFilter objects

Required: No

RecommendationText

The recommendation of what to do about the issue described in a finding.

Type: Array of StringFilter objects

Required: No

RecordState

The updated record state for the finding.

Type: Array of StringFilter objects

Required: No

Region

The Region from which the finding was generated.

Type: Array of StringFilter objects

Required: No

RelatedFindingsId

The solution-generated identifier for a related finding.

Type: Array of StringFilter objects

Required: No

RelatedFindingsProductArn

The ARN of the solution that generated a related finding.

Type: Array of StringFilter objects

Required: No

ResourceApplicationArn

The ARN of the application that is related to a finding.

Type: Array of StringFilter objects

Required: No

ResourceApplicationName

The name of the application that is related to a finding.

Type: Array of StringFilter objects

Required: No

ResourceAwsEc2InstanceIamInstanceProfileArn

The IAM profile ARN of the instance.

Type: Array of StringFilter objects

Required: No

ResourceAwsEc2InstanceImageId

The Amazon Machine Image (AMI) ID of the instance.

Type: Array of StringFilter objects

Required: No

ResourceAwsEc2InstanceIpV4Addresses

The IPv4 addresses associated with the instance.

Type: Array of IpFilter objects

Required: No

ResourceAwsEc2InstanceIpV6Addresses

The IPv6 addresses associated with the instance.

Type: Array of IpFilter objects

Required: No

ResourceAwsEc2InstanceKeyName

The key name associated with the instance.

Type: Array of StringFilter objects

Required: No

ResourceAwsEc2InstanceLaunchedAt

The date and time the instance was launched.

Type: Array of DateFilter objects

Required: No

ResourceAwsEc2InstanceSubnetId

The identifier of the subnet that the instance was launched in.

Type: Array of StringFilter objects

Required: No

ResourceAwsEc2InstanceType

The instance type of the instance.

Type: Array of StringFilter objects

Required: No

ResourceAwsEc2InstanceVpcId

The identifier of the VPC that the instance was launched in.

Type: Array of StringFilter objects

Required: No

ResourceAwsIamAccessKeyCreatedAt

The creation date/time of the IAM access key related to a finding.

Type: Array of DateFilter objects

Required: No

ResourceAwsIamAccessKeyPrincipalName

The name of the principal that is associated with an IAM access key.

Type: Array of StringFilter objects

Required: No

ResourceAwsIamAccessKeyStatus

The status of the IAM access key related to a finding.

Type: Array of StringFilter objects

Required: No

ResourceAwsIamAccessKeyUserName

This member has been deprecated.

The user associated with the IAM access key related to a finding.

Type: Array of StringFilter objects

Required: No

ResourceAwsIamUserUserName

The name of an IAM user.

Type: Array of StringFilter objects

Required: No

ResourceAwsS3BucketOwnerId

The canonical user ID of the owner of the S3 bucket.

Type: Array of StringFilter objects

Required: No

ResourceAwsS3BucketOwnerName

The display name of the owner of the S3 bucket.

Type: Array of StringFilter objects

Required: No

ResourceContainerImageId

The identifier of the image related to a finding.

Type: Array of StringFilter objects

Required: No

ResourceContainerImageName

The name of the image related to a finding.

Type: Array of StringFilter objects

Required: No

ResourceContainerLaunchedAt

A timestamp that identifies when the container was started.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Array of DateFilter objects

Required: No

ResourceContainerName

The name of the container related to a finding.

Type: Array of StringFilter objects

Required: No

ResourceDetailsOther

The details of a resource that doesn't have a specific subfield for the resource type defined.

Type: Array of MapFilter objects

Required: No

ResourceId

The canonical identifier for the given resource type.

Type: Array of StringFilter objects

Required: No

ResourcePartition

The canonical AWS partition name that the Region is assigned to.

Type: Array of StringFilter objects

Required: No

ResourceRegion

The canonical AWS external Region name where this resource is located.

Type: Array of StringFilter objects

Required: No

ResourceTags

A list of AWS tags associated with a resource at the time the finding was processed.

Type: Array of MapFilter objects

Required: No

ResourceType

Specifies the type of the resource that details are provided for.

Type: Array of StringFilter objects

Required: No

Sample

Indicates whether or not sample findings are included in the filter results.

Type: Array of BooleanFilter objects

Required: No

SeverityLabel

The label of a finding's severity.

Type: Array of StringFilter objects

Required: No

SeverityNormalized

This member has been deprecated.

The normalized severity of a finding.

Type: Array of NumberFilter objects

Required: No

SeverityProduct

This member has been deprecated.

The native severity as defined by the security findings provider's solution that generated the finding.

Type: Array of NumberFilter objects

Required: No

SourceUrl

A URL that links to a page about the current finding in the security findings provider's solution.

Type: Array of StringFilter objects

Required: No

ThreatIntelIndicatorCategory

The category of a threat intelligence indicator.

Type: Array of StringFilter objects

Required: No

ThreatIntelIndicatorLastObservedAt

A timestamp that identifies the last observation of a threat intelligence indicator.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Array of DateFilter objects

Required: No

ThreatIntelIndicatorSource

The source of the threat intelligence.

Type: Array of StringFilter objects

Required: No

ThreatIntelIndicatorSourceUrl

The URL for more details from the source of the threat intelligence.

Type: Array of StringFilter objects

Required: No

ThreatIntelIndicatorType

The type of a threat intelligence indicator.

Type: Array of StringFilter objects

Required: No

ThreatIntelIndicatorValue

The value of a threat intelligence indicator.

Type: Array of StringFilter objects

Required: No

Title

A finding's title.

Type: Array of StringFilter objects

Required: No

Type

A finding type in the format of `namespace/category/classifier` that classifies a finding.

Type: Array of StringFilter objects

Required: No

UpdatedAt

A timestamp that indicates when the security findings provider last updated the finding record.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Array of DateFilter objects

Required: No

UserDefinedFields

A list of name/value string pairs associated with the finding. These are custom, user-defined fields added to a finding.

Type: Array of MapFilter objects

Required: No

VerificationState

The veracity of a finding.

Type: Array of StringFilter objects

Required: No

VulnerabilitiesExploitAvailable

Indicates whether a software vulnerability in your environment has a known exploit. You can filter findings by this field only if you use Security Hub CSPM and Amazon Inspector.

Type: Array of StringFilter objects

Required: No

VulnerabilitiesFixAvailable

Indicates whether a vulnerability is fixed in a newer version of the affected software packages. You can filter findings by this field only if you use Security Hub CSPM and Amazon Inspector.

Type: Array of StringFilter objects

Required: No

WorkflowState

The workflow state of a finding.

Note that this field is deprecated. To search for a finding based on its workflow status, use `WorkflowStatus`.

Type: Array of StringFilter objects

Required: No

WorkflowStatus

The status of the investigation into a finding. Allowed values are the following.

- `NEW` - The initial state of a finding, before it is reviewed.

  Security Hub CSPM also resets the workflow status from `NOTIFIED` or `RESOLVED` to `NEW` in the following cases:

  - `RecordState` changes from `ARCHIVED` to `ACTIVE`.
  - `Compliance.Status` changes from `PASSED` to either `WARNING`, `FAILED`, or `NOT_AVAILABLE`.
- `NOTIFIED` - Indicates that the resource owner has been notified about the security issue. Used when the initial reviewer is not the resource owner, and needs intervention from the resource owner.

  If one of the following occurs, the workflow status is changed automatically from `NOTIFIED` to `NEW`:

  - `RecordState` changes from `ARCHIVED` to `ACTIVE`.
  - `Compliance.Status` changes from `PASSED` to `FAILED`, `WARNING`, or `NOT_AVAILABLE`.
- `SUPPRESSED` - Indicates that you reviewed the finding and don't believe that any action is needed.

  The workflow status of a `SUPPRESSED` finding does not change if `RecordState` changes from `ARCHIVED` to `ACTIVE`.
- `RESOLVED` - The finding was reviewed and remediated and is now considered resolved.

  The finding remains `RESOLVED` unless one of the following occurs:

- `RecordState` changes from `ARCHIVED` to `ACTIVE`.
- `Compliance.Status` changes from `PASSED` to `FAILED`, `WARNING`, or `NOT_AVAILABLE`.

In those cases, the workflow status is automatically reset to `NEW`.

For findings from controls, if `Compliance.Status` is `PASSED`, then Security Hub CSPM automatically sets the workflow status to `RESOLVED`.

Type: Array of StringFilter objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsSecurityFindingIdentifier

Identifies which finding to get the finding history for.

Contents

Id

The identifier of the finding that was specified by the finding provider.

Type: String

Pattern: `.*\S.*`

Required: Yes

ProductArn

The ARN generated by Security Hub CSPM that uniquely identifies a product that generates findings. This can be the ARN for a third-party product that is integrated with Security Hub CSPM, or the ARN for a custom integration.

Type: String

Pattern: `.*\S.*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BatchUpdateFindingsUnprocessedFinding

A finding from a `BatchUpdateFindings` request that Security Hub CSPM was unable to update.

Contents

ErrorCode

The code associated with the error. Possible values are:

- `ConcurrentUpdateError` - Another request attempted to update the finding while this request was being processed. This error may also occur if you call `BatchUpdateFindings` and `BatchImportFindings` at the same time.
- `DuplicatedFindingIdentifier` - The request included two or more findings with the same `FindingIdentifier`.
- `FindingNotFound` - The `FindingIdentifier` included in the request did not match an existing finding.
- `FindingSizeExceeded` - The finding size was greater than the permissible value of 240 KB.
- `InternalFailure` - An internal service failure occurred when updating the finding.
- `InvalidInput` - The finding update contained an invalid value that did not satisfy the AWS Security Finding Format syntax.

Type: String

Pattern: `.*\S.*`

Required: Yes

ErrorMessage

The message associated with the error. Possible values are:

- `Concurrent finding updates detected`
- `Finding Identifier is duplicated`
- `Finding Not Found`
- `Finding size exceeded 240 KB`
- `Internal service failure`
- `Invalid Input`

Type: String

Pattern: `.*\S.*`

Required: Yes

FindingIdentifier

The identifier of the finding that was not updated.

Type: AwsSecurityFindingIdentifier object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BooleanConfigurationOptions

The options for customizing a security control parameter with a boolean. For a boolean parameter, the options are `true` and `false`.

Contents

DefaultValue

The Security Hub CSPM default value for a boolean parameter.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BooleanFilter

Boolean filter for querying findings.

Contents

Value

The value of the boolean.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Cell

An occurrence of sensitive data detected in a Microsoft Excel workbook, comma-separated value (CSV) file, or tab-separated value (TSV) file.

Contents

CellReference

For a Microsoft Excel workbook, provides the location of the cell, as an absolute cell reference, that contains the data. For example, Sheet2!C5 for cell C5 on Sheet2.

Type: String

Pattern: `.*\S.*`

Required: No

Column

The column number of the column that contains the data. For a Microsoft Excel workbook, the column number corresponds to the alphabetical column identifiers. For example, a value of 1 for Column corresponds to the A column in the workbook.

Type: Long

Required: No

ColumnName

The name of the column that contains the data.

Type: String

Pattern: `.*\S.*`

Required: No

Row

The row number of the row that contains the data.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

City

Information about a city.

Contents

CityName

The name of the city.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ClassificationResult

Details about the sensitive data that was detected on the resource.

Contents

AdditionalOccurrences

Indicates whether there are additional occurrences of sensitive data that are not included in the finding. This occurs when the number of occurrences exceeds the maximum that can be included.

Type: Boolean

Required: No

CustomDataIdentifiers

Provides details about sensitive data that was identified based on customer-defined configuration.

Type: CustomDataIdentifiersResult object

Required: No

MimeType

The type of content that the finding applies to.

Type: String

Pattern: `.*\S.*`

Required: No

SensitiveData

Provides details about sensitive data that was identified based on built-in configuration.

Type: Array of SensitiveDataResult objects

Required: No

SizeClassified

The total size in bytes of the affected data.

Type: Long

Required: No

Status

The current status of the sensitive data detection.

Type: ClassificationStatus object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ClassificationStatus

Provides details about the current status of the sensitive data detection.

Contents

Code

The code that represents the status of the sensitive data detection.

Type: String

Pattern: `.*\S.*`

Required: No

Reason

A longer description of the current status of the sensitive data detection.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CodeVulnerabilitiesFilePath

Provides details about where a code vulnerability is located in your AWS Lambda function.

Contents

EndLine

The line number of the last line of code in which the vulnerability is located.

Type: Integer

Required: No

FileName

The name of the file in which the code vulnerability is located.

Type: String

Pattern: `.*\S.*`

Required: No

FilePath

The file path to the code in which the vulnerability is located.

Type: String

Pattern: `.*\S.*`

Required: No

StartLine

The line number of the first line of code in which the vulnerability is located.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Compliance

This object typically provides details about a control finding, such as applicable standards and the status of control checks. While finding providers can add custom content in `Compliance` object fields, they are typically used to review details of Security Hub CSPM control findings.

Contents

AssociatedStandards

Typically provides an array of enabled security standards in which a security control is currently enabled.

Type: Array of AssociatedStandard objects

Required: No

RelatedRequirements

Typically provides the industry or regulatory framework requirements that are related to a control. The check for that control is aligned with these requirements.

Array Members: Maximum number of 32 items.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SecurityControlId

Typically provides the unique identifier of a control across standards. For Security Hub CSPM controls, this field consists of an AWS service and a unique number, such as `APIGateway.5`.

Type: String

Pattern: `.*\S.*`

Required: No

SecurityControlParameters

Typically an object that includes security control parameter names and values.

Type: Array of SecurityControlParameter objects

Required: No

Status

Typically summarizes the result of a control check.

For Security Hub CSPM controls, valid values for `Status` are as follows.

- • `PASSED` - Standards check passed for all evaluated resources.
  - `WARNING` - Some information is missing or this check is not supported for your configuration.
  - `FAILED` - Standards check failed for at least one evaluated resource.
  - `NOT_AVAILABLE` - Check could not be performed due to a service outage, API error, or because the result of the AWS Config evaluation was `NOT_APPLICABLE`. If the AWS Config evaluation result was `NOT_APPLICABLE` for a Security Hub CSPM control, Security Hub CSPM automatically archives the finding after 3 days.

Type: String

Valid Values: `PASSED | WARNING | FAILED | NOT_AVAILABLE`

Required: No

StatusReasons

Typically used to provide a list of reasons for the value of `Status`.

Type: Array of StatusReason objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfigurationOptions

The options for customizing a security control parameter.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

Boolean

The options for customizing a security control parameter that is a boolean. For a boolean parameter, the options are `true` and `false`.

Type: BooleanConfigurationOptions object

Required: No

Double

The options for customizing a security control parameter that is a double.

Type: DoubleConfigurationOptions object

Required: No

Enum

The options for customizing a security control parameter that is an enum.

Type: EnumConfigurationOptions object

Required: No

EnumList

The options for customizing a security control parameter that is a list of enums.

Type: EnumListConfigurationOptions object

Required: No

Integer

The options for customizing a security control parameter that is an integer.

Type: IntegerConfigurationOptions object

Required: No

IntegerList

The options for customizing a security control parameter that is a list of integers.

Type: IntegerListConfigurationOptions object

Required: No

String

The options for customizing a security control parameter that is a string data type.

Type: StringConfigurationOptions object

Required: No

StringList

The options for customizing a security control parameter that is a list of strings.

Type: StringListConfigurationOptions object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfigurationPolicyAssociation

Provides details about the association between an AWS Security Hub CSPM configuration and a target account, organizational unit, or the root. An association can exist between a target and a configuration policy, or between a target and self-managed behavior.

Contents

Target

The target account, organizational unit, or the root.

Type: Target object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfigurationPolicyAssociationSummary

An object that contains the details of a configuration policy association that's returned in a `ListConfigurationPolicyAssociations` request.

Contents

AssociationStatus

The current status of the association between the specified target and the configuration.

Type: String

Valid Values: `PENDING | SUCCESS | FAILED`

Required: No

AssociationStatusMessage

The explanation for a `FAILED` value for `AssociationStatus`.

Type: String

Pattern: `.*\S.*`

Required: No

AssociationType

Indicates whether the association between the specified target and the configuration was directly applied by the AWS Security Hub CSPM delegated administrator or inherited from a parent.

Type: String

Valid Values: `INHERITED | APPLIED`

Required: No

ConfigurationPolicyId

The universally unique identifier (UUID) of the configuration policy.

Type: String

Pattern: `.*\S.*`

Required: No

TargetId

The identifier of the target account, organizational unit, or the root.

Type: String

Pattern: `.*\S.*`

Required: No

TargetType

Specifies whether the target is an AWS account, organizational unit, or the root.

Type: String

Valid Values: `ACCOUNT | ORGANIZATIONAL_UNIT | ROOT`

Required: No

UpdatedAt

The date and time, in UTC and ISO 8601 format, that the configuration policy association was last updated.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConfigurationPolicySummary

An object that contains the details of an AWS Security Hub CSPM configuration policy that's returned in a `ListConfigurationPolicies` request.

Contents

Arn

The Amazon Resource Name (ARN) of the configuration policy.

Type: String

Pattern: `.*\S.*`

Required: No

Description

The description of the configuration policy.

Type: String

Pattern: `.*\S.*`

Required: No

Id

The universally unique identifier (UUID) of the configuration policy.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the configuration policy. Alphanumeric characters and the following ASCII characters are permitted: `-, ., !, *, /`.

Type: String

Pattern: `.*\S.*`

Required: No

ServiceEnabled

Indicates whether the service that the configuration policy applies to is enabled in the policy.

Type: Boolean

Required: No

UpdatedAt

The date and time, in UTC and ISO 8601 format, that the configuration policy was last updated.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Country

Information about a country.

Contents

CountryCode

The 2-letter ISO 3166 country code for the country.

Type: String

Pattern: `.*\S.*`

Required: No

CountryName

The name of the country.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CustomDataIdentifiersDetections

The list of detected instances of sensitive data.

Contents

Arn

The ARN of the custom identifier that was used to detect the sensitive data.

Type: String

Pattern: `.*\S.*`

Required: No

Count

The total number of occurrences of sensitive data that were detected.

Type: Long

Required: No

Name

he name of the custom identifier that detected the sensitive data.

Type: String

Pattern: `.*\S.*`

Required: No

Occurrences

Details about the sensitive data that was detected.

Type: Occurrences object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CustomDataIdentifiersResult

Contains an instance of sensitive data that was detected by a customer-defined identifier.

Contents

Detections

The list of detected instances of sensitive data.

Type: Array of CustomDataIdentifiersDetections objects

Required: No

TotalCount

The total number of occurrences of sensitive data.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Cvss

CVSS scores from the advisory related to the vulnerability.

Contents

Adjustments

Adjustments to the CVSS metrics.

Type: Array of Adjustment objects

Required: No

BaseScore

The base CVSS score.

Type: Double

Required: No

BaseVector

The base scoring vector for the CVSS score.

Type: String

Pattern: `.*\S.*`

Required: No

Source

The origin of the original CVSS score and vector.

Type: String

Pattern: `.*\S.*`

Required: No

Version

The version of CVSS for the CVSS score.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DataClassificationDetails

Provides details about sensitive data that was detected on a resource.

Contents

DetailedResultsLocation

The path to the folder or file that contains the sensitive data.

Type: String

Pattern: `.*\S.*`

Required: No

Result

The details about the sensitive data that was detected on the resource.

Type: ClassificationResult object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DateFilter

A date filter for querying findings.

Contents

DateRange

A date range for the date filter.

Type: DateRange object

Required: No

End

A timestamp that provides the end date for the date filter.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Start

A timestamp that provides the start date for the date filter.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DateRange

A date range for the date filter.

Contents

Unit

A date range unit for the date filter.

Type: String

Valid Values: `DAYS`

Required: No

Value

A date range value for the date filter.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Detection

A top-level object field that provides details about an Amazon GuardDuty Extended Threat Detection attack sequence. GuardDuty generates an attack sequence finding when multiple events align to a potentially suspicious activity. To receive GuardDuty attack sequence findings in AWS Security Hub CSPM, you must have GuardDuty enabled. For more information, see GuardDuty Extended Threat Detection in the *Amazon GuardDuty User Guide*.

Contents

Sequence

Provides details about an attack sequence.

Type: Sequence object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DnsRequestAction

Provided if `ActionType` is `DNS_REQUEST`. It provides details about the DNS request that was detected.

Contents

Blocked

Indicates whether the DNS request was blocked.

Type: Boolean

Required: No

Domain

The DNS domain that is associated with the DNS request.

Length Constraints: 128.

Type: String

Pattern: `.*\S.*`

Required: No

Protocol

The protocol that was used for the DNS request.

Length Constraints: Minimum length of 1. Maximum length of 64.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DoubleConfigurationOptions

The options for customizing a security control parameter that is a double.

Contents

DefaultValue

The Security Hub CSPM default value for a control parameter that is a double.

Type: Double

Required: No

Max

The maximum valid value for a control parameter that is a double.

Type: Double

Required: No

Min

The minimum valid value for a control parameter that is a double.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EnumConfigurationOptions

The options for customizing a security control parameter that is an enum.

Contents

AllowedValues

The valid values for a control parameter that is an enum.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

DefaultValue

The Security Hub CSPM default value for a control parameter that is an enum.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EnumListConfigurationOptions

The options for customizing a security control parameter that is a list of enums.

Contents

AllowedValues

The valid values for a control parameter that is a list of enums.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

DefaultValue

The Security Hub CSPM default value for a control parameter that is a list of enums.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

MaxItems

The maximum number of list items that an enum list control parameter can accept.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FilePaths

Provides information about the file paths that were affected by the threat.

Contents

FileName

The name of the infected or suspicious file corresponding to the hash.

Length Constraints: Minimum of 1 length. Maximum of 128 length.

Type: String

Pattern: `.*\S.*`

Required: No

FilePath

Path to the infected or suspicious file on the resource it was detected on.

Length Constraints: Minimum of 1 length. Maximum of 128 length.

Type: String

Pattern: `.*\S.*`

Required: No

Hash

The hash value for the infected or suspicious file.

Length Constraints: Minimum of 1 length. Maximum of 128 length.

Type: String

Pattern: `.*\S.*`

Required: No

ResourceId

The Amazon Resource Name (ARN) of the resource on which the threat was detected.

Length Constraints: Minimum of 1 length. Maximum of 128 length.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FindingAggregator

A finding aggregator is a Security Hub CSPM resource that specifies cross-Region aggregation settings, including the home Region and any linked Regions.

Contents

FindingAggregatorArn

The ARN of the finding aggregator. You use the finding aggregator ARN to retrieve details for, update, and delete the finding aggregator.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FindingHistoryRecord

A list of events that changed the specified finding during the specified time period. Each record represents a single finding change event.

Contents

FindingCreated

Identifies whether the event marks the creation of a new finding. A value of `True` means that the finding is newly created. A value of `False` means that the finding isn't newly created.

Type: Boolean

Required: No

FindingIdentifier

Identifies which finding to get the finding history for.

Type: AwsSecurityFindingIdentifier object

Required: No

NextToken

A token for pagination purposes. Provide this token in the subsequent request to `GetFindingsHistory` to get up to an additional 100 results of history for the same finding that you specified in your initial request.

Type: String

Required: No

Updates

An array of objects that provides details about the finding change event, including the AWS Security Finding Format (ASFF) field that changed, the value of the field before the change, and the value of the field after the change.

Type: Array of FindingHistoryUpdate objects

Required: No

UpdateSource

Identifies the source of the event that changed the finding. For example, an integrated AWS service or third-party partner integration may call `BatchImportFindings`, or an AWS Security Hub CSPM customer may call `BatchUpdateFindings`.

Type: FindingHistoryUpdateSource object

Required: No

UpdateTime

A timestamp that indicates when Security Hub CSPM processed the updated finding record.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FindingHistoryUpdate

An array of objects that provides details about a change to a finding, including the AWS Security Finding Format (ASFF) field that changed, the value of the field before the change, and the value of the field after the change.

Contents

NewValue

The value of the ASFF field after the finding change event. To preserve storage and readability, Security Hub CSPM omits this value if `FindingHistoryRecord` exceeds database limits.

Type: String

Pattern: `.*\S.*`

Required: No

OldValue

The value of the ASFF field before the finding change event.

Type: String

Pattern: `.*\S.*`

Required: No

UpdatedField

The ASFF field that changed during the finding change event.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FindingHistoryUpdateSource

Identifies the source of the finding change event.

Contents

Identity

The identity of the source that initiated the finding change event. For example, the Amazon Resource Name (ARN) of a partner that calls BatchImportFindings or of a customer that calls BatchUpdateFindings.

Type: String

Pattern: `.*\S.*`

Required: No

Type

Describes the type of finding change event, such as a call to `BatchImportFindings` (by an integrated AWS service or third party partner integration) or `BatchUpdateFindings` (by a Security Hub CSPM customer).

Type: String

Valid Values: `BATCH_UPDATE_FINDINGS | BATCH_IMPORT_FINDINGS`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FindingProviderFields

In a `BatchImportFindings` request, finding providers use `FindingProviderFields` to provide and update values for the following fields:

- `Confidence`
- `Criticality`
- `RelatedFindings`
- `Severity`
- `Types`

The preceding fields are nested under the `FindingProviderFields` object, but also have analogues of the same name as top-level ASFF fields. When a new finding is sent to AWS Security Hub CSPM by a finding provider, Security Hub CSPM populates the `FindingProviderFields` object automatically, if it is empty, based on the corresponding top-level fields.

Finding providers can update `FindingProviderFields` only by using the `BatchImportFindings` operation. Finding providers can't update this object with the `BatchUpdateFindings` operation. Customers can update the top-level fields by using the `BatchUpdateFindings` operation. Customers can't update `FindingProviderFields`.

For information about how Security Hub CSPM handles updates from `BatchImportFindings` to `FindingProviderFields` and to the corresponding top-level attributes, see Using `FindingProviderFields` in the *AWS Security Hub CSPM User Guide*.

Contents

Confidence

A finding's confidence. Confidence is defined as the likelihood that a finding accurately identifies the behavior or issue that it was intended to identify.

Confidence is scored on a 0-100 basis using a ratio scale, where 0 means zero percent confidence and 100 means 100 percent confidence.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

Criticality

The level of importance assigned to the resources associated with the finding.

A score of 0 means that the underlying resources have no criticality, and a score of 100 is reserved for the most critical resources.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

RelatedFindings

A list of findings that are related to the current finding.

Type: Array of RelatedFinding objects

Required: No

Severity

The severity of a finding.

Type: FindingProviderSeverity object

Required: No

Types

One or more finding types in the format of `namespace/category/classifier` that classify a finding.

Valid namespace values are: Software and Configuration Checks | TTPs | Effects | Unusual Behaviors | Sensitive Data Identifications

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FindingProviderSeverity

The severity assigned to a finding by the finding provider. This object may include one or more of the following attributes:

- `Label`
- `Normalized`
- `Original`
- `Product`

If a `BatchImportFindings` request for a new finding only provides `Label` or only provides `Normalized`, AWS Security Hub CSPM automatically populates the value of the other field.

The `Normalized` and `Product` attributes are included in the `FindingProviderSeverity` structure to preserve the historical information associated with the finding, even if the top-level `Severity` object is later modified using the `BatchUpdateFindings` operation.

If the top-level `Finding.Severity` object is present, but `Finding.FindingProviderFields` isn't present, Security Hub CSPM creates the `FindingProviderFields.Severity` object and copies the entire `Finding.Severity` object into it. This ensures that the original, provider-supplied details are retained within the `FindingProviderFields.Severity` object, even if the top-level `Severity` object is overwritten.

Contents

Label

The severity label assigned to the finding by the finding provider.

Type: String

Valid Values: `INFORMATIONAL | LOW | MEDIUM | HIGH | CRITICAL`

Required: No

Original

The finding provider's original value for the severity.

Length Constraints: Minimum length of 1. Maximum length of 64.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GeneratorDetails

Provides metadata for the Amazon CodeGuru detector associated with a finding. This field pertains to findings that relate to AWS Lambda functions. Amazon Inspector identifies policy violations and vulnerabilities in Lambda function code based on internal detectors developed in collaboration with Amazon CodeGuru. AWS Security Hub CSPM receives those findings.

Contents

Description

The description of the detector used to identify the code vulnerability.

Type: String

Pattern: `.*\S.*`

Required: No

Labels

An array of tags used to identify the detector associated with the finding.

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Name

The name of the detector used to identify the code vulnerability.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GeoLocation

Provides the latitude and longitude coordinates of a location.

Contents

Lat

The latitude of the location.

Type: Double

Required: No

Lon

The longitude of the location.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IcmpTypeCode

An Internet Control Message Protocol (ICMP) type and code.

Contents

Code

The ICMP code for which to deny or allow access. To deny or allow all codes, use the value `-1`.

Type: Integer

Required: No

Type

The ICMP type for which to deny or allow access. To deny or allow all types, use the value `-1`.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ImportFindingsError

The list of the findings that cannot be imported. For each finding, the list provides the error.

Contents

ErrorCode

The code of the error returned by the `BatchImportFindings` operation.

Type: String

Pattern: `.*\S.*`

Required: Yes

ErrorMessage

The message of the error returned by the `BatchImportFindings` operation.

Type: String

Pattern: `.*\S.*`

Required: Yes

Id

The identifier of the finding that could not be updated.

Type: String

Pattern: `.*\S.*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

Indicator

Contains information about the indicators observed in an Amazon GuardDuty Extended Threat Detection attack sequence. Indicators include a set of signals, which can be API activities or findings that GuardDuty uses to detect an attack sequence finding. GuardDuty generates an attack sequence finding when multiple signals align to a potentially suspicious activity. To receive GuardDuty attack sequence findings in AWS Security Hub CSPM, you must have GuardDuty and GuardDuty S3 Protection enabled. For more information, see GuardDuty Extended Threat Detection in the *Amazon GuardDuty User Guide*.

Contents

Key

The name of the indicator that's present in the attack sequence finding.

Type: String

Pattern: `.*\S.*`

Required: No

Title

The title describing the indicator.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of indicator.

Type: String

Pattern: `.*\S.*`

Required: No

Values

Values associated with each indicator key. For example, if the indicator key is `SUSPICIOUS_NETWORK`, then the value will be the name of the network. If the indicator key is `ATTACK_TACTIC`, then the value will be one of the MITRE tactics.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Insight

Contains information about a Security Hub CSPM insight.

Contents

Filters

One or more attributes used to filter the findings included in the insight. You can filter by up to ten finding attributes. For each attribute, you can provide up to 20 filter values. The insight only includes findings that match the criteria defined in the filters.

Type: AwsSecurityFindingFilters object

Required: Yes

GroupByAttribute

The grouping attribute for the insight's findings. Indicates how to group the matching findings, and identifies the type of item that the insight applies to. For example, if an insight is grouped by resource identifier, then the insight produces a list of resource identifiers.

Type: String

Pattern: `.*\S.*`

Required: Yes

InsightArn

The ARN of a Security Hub CSPM insight.

Type: String

Pattern: `.*\S.*`

Required: Yes

Name

The name of a Security Hub CSPM insight.

Type: String

Pattern: `.*\S.*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InsightResults

The insight results returned by the `GetInsightResults` operation.

Contents

GroupByAttribute

The attribute that the findings are grouped by for the insight whose results are returned by the `GetInsightResults` operation.

Type: String

Pattern: `.*\S.*`

Required: Yes

InsightArn

The ARN of the insight whose results are returned by the `GetInsightResults` operation.

Type: String

Pattern: `.*\S.*`

Required: Yes

ResultValues

The list of insight result values returned by the `GetInsightResults` operation.

Type: Array of InsightResultValue objects

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

InsightResultValue

The insight result values returned by the `GetInsightResults` operation.

Contents

Count

The number of findings returned for each `GroupByAttributeValue`.

Type: Integer

Required: Yes

GroupByAttributeValue

The value of the attribute that the findings are grouped by for the insight whose results are returned by the `GetInsightResults` operation.

Type: String

Pattern: `.*\S.*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntegerConfigurationOptions

The options for customizing a security control parameter that is an integer.

Contents

DefaultValue

The Security Hub CSPM default value for a control parameter that is an integer.

Type: Integer

Required: No

Max

The maximum valid value for a control parameter that is an integer.

Type: Integer

Required: No

Min

The minimum valid value for a control parameter that is an integer.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IntegerListConfigurationOptions

The options for customizing a security control parameter that is a list of integers.

Contents

DefaultValue

The Security Hub CSPM default value for a control parameter that is a list of integers.

Type: Array of integers

Required: No

Max

The maximum valid value for a control parameter that is a list of integers.

Type: Integer

Required: No

MaxItems

The maximum number of list items that an interger list control parameter can accept.

Type: Integer

Required: No

Min

The minimum valid value for a control parameter that is a list of integers.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

Invitation

Details about an invitation.

Contents

AccountId

The account ID of the Security Hub CSPM administrator account that the invitation was sent from.

Type: String

Required: No

InvitationId

The ID of the invitation sent to the member account.

Type: String

Pattern: `.*\S.*`

Required: No

InvitedAt

The timestamp of when the invitation was sent.

Type: Timestamp

Required: No

MemberStatus

The current status of the association between the member and administrator accounts.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IpFilter

The IP filter for querying findings.

Contents

Cidr

A finding's CIDR value.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IpOrganizationDetails

Provides information about an internet provider.

Contents

Asn

The Autonomous System Number (ASN) of the internet provider

Type: Integer

Required: No

AsnOrg

The name of the organization that registered the ASN.

Type: String

Pattern: `.*\S.*`

Required: No

Isp

The ISP information for the internet provider.

Type: String

Pattern: `.*\S.*`

Required: No

Org

The name of the internet provider.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

KeywordFilter

A keyword filter for querying findings.

Contents

Value

A value for the keyword.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Malware

A list of malware related to a finding.

Contents

Name

The name of the malware that was observed.

Length Constraints: Minimum of 1. Maximum of 64.

Type: String

Pattern: `.*\S.*`

Required: Yes

Path

The file system path of the malware that was observed.

Length Constraints: Minimum of 1. Maximum of 512.

Type: String

Pattern: `.*\S.*`

Required: No

State

The state of the malware that was observed.

Type: String

Valid Values: `OBSERVED | REMOVAL_FAILED | REMOVED`

Required: No

Type

The type of the malware that was observed.

Type: String

Valid Values: `ADWARE | BLENDED_THREAT | BOTNET_AGENT | COIN_MINER | EXPLOIT_KIT | KEYLOGGER | MACRO | POTENTIALLY_UNWANTED | SPYWARE | RANSOMWARE | REMOTE_ACCESS | ROOTKIT | TROJAN | VIRUS | WORM`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MapFilter

A map filter for filtering AWS Security Hub CSPM findings. Each map filter provides the field to check for, the value to check for, and the comparison operator.

Contents

Comparison

The condition to apply to the key value when filtering Security Hub CSPM findings with a map filter.

To search for values that have the filter value, use one of the following comparison operators:

- To search for values that include the filter value, use `CONTAINS`. For example, for the `ResourceTags` field, the filter `Department CONTAINS Security` matches findings that include the value `Security` for the `Department` tag. In the same example, a finding with a value of `Security team` for the `Department` tag is a match.
- To search for values that exactly match the filter value, use `EQUALS`. For example, for the `ResourceTags` field, the filter `Department EQUALS Security` matches findings that have the value `Security` for the `Department` tag.

`CONTAINS` and `EQUALS` filters on the same field are joined by `OR`. A finding matches if it matches any one of those filters. For example, the filters `Department CONTAINS Security OR Department CONTAINS Finance` match a finding that includes either `Security`, `Finance`, or both values.

To search for values that don't have the filter value, use one of the following comparison operators:

- To search for values that exclude the filter value, use `NOT_CONTAINS`. For example, for the `ResourceTags` field, the filter `Department NOT_CONTAINS Finance` matches findings that exclude the value `Finance` for the `Department` tag.
- To search for values other than the filter value, use `NOT_EQUALS`. For example, for the `ResourceTags` field, the filter `Department NOT_EQUALS Finance` matches findings that don’t have the value `Finance` for the `Department` tag.

`NOT_CONTAINS` and `NOT_EQUALS` filters on the same field are joined by `AND`. A finding matches only if it matches all of those filters. For example, the filters `Department NOT_CONTAINS Security AND Department NOT_CONTAINS Finance` match a finding that excludes both the `Security` and `Finance` values.

`CONTAINS` filters can only be used with other `CONTAINS` filters. `NOT_CONTAINS` filters can only be used with other `NOT_CONTAINS` filters.

You can't have both a `CONTAINS` filter and a `NOT_CONTAINS` filter on the same field. Similarly, you can't have both an `EQUALS` filter and a `NOT_EQUALS` filter on the same field. Combining filters in this way returns an error.

`CONTAINS` and `NOT_CONTAINS` operators can be used only with automation rules. For more information, see Automation rules in the *AWS Security Hub CSPM User Guide*.

Type: String

Valid Values: `EQUALS | NOT_EQUALS | CONTAINS | NOT_CONTAINS`

Required: No

Key

The key of the map filter. For example, for `ResourceTags`, `Key` identifies the name of the tag. For `UserDefinedFields`, `Key` is the name of the field.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The value for the key in the map filter. Filter values are case sensitive. For example, one of the values for a tag called `Department` might be `Security`. If you provide `security` as the filter value, then there's no match.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Member

The details about a member account.

Contents

AccountId

The AWS account ID of the member account.

Type: String

Required: No

AdministratorId

The AWS account ID of the Security Hub CSPM administrator account associated with this member account.

Type: String

Pattern: `.*\S.*`

Required: No

Email

The email address of the member account.

Type: String

Pattern: `.*\S.*`

Required: No

InvitedAt

A timestamp for the date and time when the invitation was sent to the member account.

Type: Timestamp

Required: No

MasterId

This member has been deprecated.

This is replaced by `AdministratorID`.

The AWS account ID of the Security Hub CSPM administrator account associated with this member account.

Type: String

Pattern: `.*\S.*`

Required: No

MemberStatus

The status of the relationship between the member account and its administrator account.

The status can have one of the following values:

- `Created` - Indicates that the administrator account added the member account, but has not yet invited the member account.
- `Invited` - Indicates that the administrator account invited the member account. The member account has not yet responded to the invitation.
- `Enabled` - Indicates that the member account is currently active. For manually invited member accounts, indicates that the member account accepted the invitation.
- `Removed` - Indicates that the administrator account disassociated the member account.
- `Resigned` - Indicates that the member account disassociated themselves from the administrator account.
- `Deleted` - Indicates that the administrator account deleted the member account.
- `AccountSuspended` - Indicates that an organization account was suspended from AWS at the same time that the administrator account tried to enable the organization account as a member account.

Type: String

Pattern: `.*\S.*`

Required: No

UpdatedAt

The timestamp for the date and time when the member account was updated.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Network

The details of network-related information about a finding.

Contents

DestinationDomain

The destination domain of network-related information about a finding.

Length Constraints: Minimum of 1. Maximum of 128.

Type: String

Pattern: `.*\S.*`

Required: No

DestinationIpV4

The destination IPv4 address of network-related information about a finding.

Type: String

Pattern: `.*\S.*`

Required: No

DestinationIpV6

The destination IPv6 address of network-related information about a finding.

Type: String

Pattern: `.*\S.*`

Required: No

DestinationPort

The destination port of network-related information about a finding.

Type: Integer

Required: No

Direction

The direction of network traffic associated with a finding.

Type: String

Valid Values: `IN | OUT`

Required: No

OpenPortRange

The range of open ports that is present on the network.

Type: PortRange object

Required: No

Protocol

The protocol of network-related information about a finding.

Length Constraints: Minimum of 1. Maximum of 16.

Type: String

Pattern: `.*\S.*`

Required: No

SourceDomain

The source domain of network-related information about a finding.

Length Constraints: Minimum of 1. Maximum of 128.

Type: String

Pattern: `.*\S.*`

Required: No

SourceIpV4

The source IPv4 address of network-related information about a finding.

Type: String

Pattern: `.*\S.*`

Required: No

SourceIpV6

The source IPv6 address of network-related information about a finding.

Type: String

Pattern: `.*\S.*`

Required: No

SourceMac

The source media access control (MAC) address of network-related information about a finding.

Type: String

Pattern: `.*\S.*`

Required: No

SourcePort

The source port of network-related information about a finding.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NetworkAutonomousSystem

Contains information about the Autonomous System (AS) of the network endpoints involved in an Amazon GuardDuty Extended Threat Detection attack sequence. GuardDuty generates an attack sequence finding when multiple events align to a potentially suspicious activity. To receive GuardDuty attack sequence findings in AWS Security Hub CSPM, you must have GuardDuty enabled. For more information, see GuardDuty Extended Threat Detection in the *Amazon GuardDuty User Guide*.

Contents

Name

The name associated with the AS.

Type: String

Pattern: `.*\S.*`

Required: No

Number

The unique number that identifies the AS.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NetworkConnection

Contains information about the network connection involved in an Amazon GuardDuty Extended Threat Detection attack sequence. GuardDuty generates an attack sequence finding when multiple events align to a potentially suspicious activity. To receive GuardDuty attack sequence findings in AWS Security Hub CSPM, you must have GuardDuty enabled. For more information, see GuardDuty Extended Threat Detection in the *Amazon GuardDuty User Guide*.

Contents

Direction

The direction in which the network traffic is flowing.

Type: String

Valid Values: `INBOUND | OUTBOUND`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NetworkConnectionAction

Provided if `ActionType` is `NETWORK_CONNECTION`. It provides details about the attempted network connection that was detected.

Contents

Blocked

Indicates whether the network connection attempt was blocked.

Type: Boolean

Required: No

ConnectionDirection

The direction of the network connection request (`IN` or `OUT`).

Type: String

Pattern: `.*\S.*`

Required: No

LocalPortDetails

Information about the port on the EC2 instance.

Type: ActionLocalPortDetails object

Required: No

Protocol

The protocol used to make the network connection request.

Length Constraints: Minimum length of 1. Maximum length of 64.

Type: String

Pattern: `.*\S.*`

Required: No

RemoteIpDetails

Information about the remote IP address that issued the network connection request.

Type: ActionRemoteIpDetails object

Required: No

RemotePortDetails

Information about the port on the remote IP address.

Type: ActionRemotePortDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NetworkEndpoint

Contains information about network endpoints involved in an Amazon GuardDuty Extended Threat Detection attack sequence. GuardDuty generates an attack sequence finding when multiple events align to a potentially suspicious activity. To receive GuardDuty attack sequence findings in AWS Security Hub CSPM, you must have GuardDuty enabled. For more information, see GuardDuty Extended Threat Detection in the *Amazon GuardDuty User Guide*.

This field can provide information about the network endpoints associated with the resource in the attack sequence finding, or about a specific network endpoint used for the attack.

Contents

AutonomousSystem

The Autonomous System Number (ASN) of the network endpoint.

Type: NetworkAutonomousSystem object

Required: No

Connection

Information about the network connection.

Type: NetworkConnection object

Required: No

Domain

The domain information for the network endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

Id

The identifier of the network endpoint involved in the attack sequence.

Type: String

Pattern: `.*\S.*`

Required: No

Ip

The IP address used in the network endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

Location

Information about the location of the network endpoint.

Type: NetworkGeoLocation object

Required: No

Port

The port number associated with the network endpoint.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NetworkGeoLocation

Contains information about the location of a network endpoint involved in an Amazon GuardDuty Extended Threat Detection attack sequence. GuardDuty generates an attack sequence finding when multiple events align to a potentially suspicious activity. To receive GuardDuty attack sequence findings in AWS Security Hub CSPM, you must have GuardDuty enabled. For more information, see GuardDuty Extended Threat Detection in the *Amazon GuardDuty User Guide*.

Contents

City

The name of the city.

Type: String

Pattern: `.*\S.*`

Required: No

Country

The name of the country.

Type: String

Pattern: `.*\S.*`

Required: No

Lat

The latitude information of the endpoint location.

Type: Double

Required: No

Lon

The longitude information of the endpoint location.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NetworkPathComponent

Information about a network path component.

Contents

ComponentId

The identifier of a component in the network path.

Length Constraints: Minimum of 1. Maximum of 32.

Type: String

Pattern: `.*\S.*`

Required: No

ComponentType

The type of component.

Length Constraints: Minimum of 1. Maximum of 32.

Type: String

Pattern: `.*\S.*`

Required: No

Egress

Information about the component that comes after the current component in the network path.

Type: NetworkHeader object

Required: No

Ingress

Information about the component that comes before the current node in the network path.

Type: NetworkHeader object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NetworkPathComponentDetails

Information about the destination of the next component in the network path.

Contents

Address

The IP addresses of the destination.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

PortRanges

A list of port ranges for the destination.

Type: Array of PortRange objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Note

A user-defined note added to a finding.

Contents

Text

The text of a note.

Length Constraints: Minimum of 1. Maximum of 512.

Type: String

Pattern: `.*\S.*`

Required: Yes

UpdatedAt

A timestamp that indicates when the note was updated.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: Yes

UpdatedBy

The principal that created a note.

Type: String

Pattern: `.*\S.*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NoteUpdate

The updated note.

Contents

Text

The updated note text.

Type: String

Pattern: `.*\S.*`

Required: Yes

UpdatedBy

The principal that updated the note.

Type: String

Pattern: `.*\S.*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NumberFilter

A number filter for querying findings.

Contents

Eq

The equal-to condition to be applied to a single field when querying for findings.

Type: Double

Required: No

Gt

The greater-than condition to be applied to a single field when querying for findings.

Type: Double

Required: No

Gte

The greater-than-equal condition to be applied to a single field when querying for findings.

Type: Double

Required: No

Lt

The less-than condition to be applied to a single field when querying for findings.

Type: Double

Required: No

Lte

The less-than-equal condition to be applied to a single field when querying for findings.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Occurrences

The detected occurrences of sensitive data.

Contents

Cells

Occurrences of sensitive data detected in Microsoft Excel workbooks, comma-separated value (CSV) files, or tab-separated value (TSV) files.

Type: Array of Cell objects

Required: No

LineRanges

Occurrences of sensitive data detected in a non-binary text file or a Microsoft Word file. Non-binary text files include files such as HTML, XML, JSON, and TXT files.

Type: Array of Range objects

Required: No

OffsetRanges

Occurrences of sensitive data detected in a binary text file.

Type: Array of Range objects

Required: No

Pages

Occurrences of sensitive data in an Adobe Portable Document Format (PDF) file.

Type: Array of Page objects

Required: No

Records

Occurrences of sensitive data in an Apache Avro object container or an Apache Parquet file.

Type: Array of Record objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OrganizationConfiguration

Provides information about the way an organization is configured in AWS Security Hub CSPM.

Contents

ConfigurationType

Indicates whether the organization uses local or central configuration.

If you use local configuration, the Security Hub CSPM delegated administrator can set `AutoEnable` to `true` and `AutoEnableStandards` to `DEFAULT`. This automatically enables Security Hub CSPM and default security standards in new organization accounts. These new account settings must be set separately in each AWS Region, and settings may be different in each Region.

If you use central configuration, the delegated administrator can create configuration policies. Configuration policies can be used to configure Security Hub CSPM, security standards, and security controls in multiple accounts and Regions. If you want new organization accounts to use a specific configuration, you can create a configuration policy and associate it with the root or specific organizational units (OUs). New accounts will inherit the policy from the root or their assigned OU.

Type: String

Valid Values: `CENTRAL | LOCAL`

Required: No

Status

Describes whether central configuration could be enabled as the `ConfigurationType` for the organization. If your `ConfigurationType` is local configuration, then the value of `Status` is always `ENABLED`.

Type: String

Valid Values: `PENDING | ENABLED | FAILED`

Required: No

StatusMessage

Provides an explanation if the value of `Status` is equal to `FAILED` when `ConfigurationType` is equal to `CENTRAL`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Page

An occurrence of sensitive data in an Adobe Portable Document Format (PDF) file.

Contents

LineRange

An occurrence of sensitive data detected in a non-binary text file or a Microsoft Word file. Non-binary text files include files such as HTML, XML, JSON, and TXT files.

Type: Range object

Required: No

OffsetRange

An occurrence of sensitive data detected in a binary text file.

Type: Range object

Required: No

PageNumber

The page number of the page that contains the sensitive data.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ParameterConfiguration

An object that provides the current value of a security control parameter and identifies whether it has been customized.

Contents

ValueType

Identifies whether a control parameter uses a custom user-defined value or subscribes to the default AWS Security Hub CSPM behavior.

When `ValueType` is set equal to `DEFAULT`, the default behavior can be a specific Security Hub CSPM default value, or the default behavior can be to ignore a specific parameter. When `ValueType` is set equal to `DEFAULT`, Security Hub CSPM ignores user-provided input for the `Value` field.

When `ValueType` is set equal to `CUSTOM`, the `Value` field can't be empty.

Type: String

Valid Values: `DEFAULT | CUSTOM`

Required: Yes

Value

The current value of a control parameter.

Type: ParameterValue object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

ParameterDefinition

An object that describes a security control parameter and the options for customizing it.

Contents

ConfigurationOptions

The options for customizing a control parameter. Customization options vary based on the data type of the parameter.

Type: ConfigurationOptions object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Description

Description of a control parameter.

Type: String

Pattern: `.*\S.*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ParameterValue

An object that includes the data type of a security control parameter and its current value.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

Boolean

A control parameter that is a boolean.

Type: Boolean

Required: No

Double

A control parameter that is a double.

Type: Double

Required: No

Enum

A control parameter that is an enum.

Type: String

Pattern: `.*\S.*`

Required: No

EnumList

A control parameter that is a list of enums.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Integer

A control parameter that is an integer.

Type: Integer

Required: No

IntegerList

A control parameter that is a list of integers.

Type: Array of integers

Required: No

String

A control parameter that is a string.

Type: String

Pattern: `.*\S.*`

Required: No

StringList

A control parameter that is a list of strings.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

PatchSummary

Provides an overview of the patch compliance status for an instance against a selected compliance standard.

Contents

Id

The identifier of the compliance standard that was used to determine the patch compliance status.

Length Constraints: Minimum length of 1. Maximum length of 256.

Type: String

Pattern: `.*\S.*`

Required: Yes

FailedCount

The number of patches from the compliance standard that failed to install.

The value can be an integer from `0` to `100000`.

Type: Integer

Required: No

InstalledCount

The number of patches from the compliance standard that were installed successfully.

The value can be an integer from `0` to `100000`.

Type: Integer

Required: No

InstalledOtherCount

The number of installed patches that are not part of the compliance standard.

The value can be an integer from `0` to `100000`.

Type: Integer

Required: No

InstalledPendingReboot

The number of patches that were applied, but that require the instance to be rebooted in order to be marked as installed.

The value can be an integer from `0` to `100000`.

Type: Integer

Required: No

InstalledRejectedCount

The number of patches that are installed but are also on a list of patches that the customer rejected.

The value can be an integer from `0` to `100000`.

Type: Integer

Required: No

MissingCount

The number of patches that are part of the compliance standard but are not installed. The count includes patches that failed to install.

The value can be an integer from `0` to `100000`.

Type: Integer

Required: No

Operation

The type of patch operation performed. For Patch Manager, the values are `SCAN` and `INSTALL`.

Length Constraints: Minimum length of 1. Maximum length of 256.

Type: String

Pattern: `.*\S.*`

Required: No

OperationEndTime

Indicates when the operation completed.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

OperationStartTime

Indicates when the operation started.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

RebootOption

The reboot option specified for the instance.

Length Constraints: Minimum length of 1. Maximum length of 256.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Policy

An object that defines how AWS Security Hub CSPM is configured. It includes whether Security Hub CSPM is enabled or disabled, a list of enabled security standards, a list of enabled or disabled security controls, and a list of custom parameter values for specified controls. If you provide a list of security controls that are enabled in the configuration policy, Security Hub CSPM disables all other controls (including newly released controls). If you provide a list of security controls that are disabled in the configuration policy, Security Hub CSPM enables all other controls (including newly released controls).

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

SecurityHub

The AWS service that the configuration policy applies to.

Type: SecurityHubPolicy object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PortProbeAction

Provided if `ActionType` is `PORT_PROBE`. It provides details about the attempted port probe that was detected.

Contents

Blocked

Indicates whether the port probe was blocked.

Type: Boolean

Required: No

PortProbeDetails

Information about the ports affected by the port probe.

Type: Array of PortProbeDetail objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PortProbeDetail

A port scan that was part of the port probe. For each scan, PortProbeDetails provides information about the local IP address and port that were scanned, and the remote IP address that the scan originated from.

Contents

LocalIpDetails

Provides information about the IP address where the scanned port is located.

Type: ActionLocalIpDetails object

Required: No

LocalPortDetails

Provides information about the port that was scanned.

Type: ActionLocalPortDetails object

Required: No

RemoteIpDetails

Provides information about the remote IP address that performed the scan.

Type: ActionRemoteIpDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProcessDetails

The details of process-related information about a finding.

Contents

LaunchedAt

Indicates when the process was launched.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the process.

Length Constraints: Minimum of 1. Maximum of 64.

Type: String

Pattern: `.*\S.*`

Required: No

ParentPid

The parent process ID. This field accepts positive integers between 0 and 2147483647.

Type: Integer

Required: No

Path

The path to the process executable.

Length Constraints: Minimum of 1. Maximum of 512.

Type: String

Pattern: `.*\S.*`

Required: No

Pid

The process ID.

Type: Integer

Required: No

TerminatedAt

Indicates when the process was terminated.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Product

Contains details about a product.

Contents

ProductArn

The ARN assigned to the product.

Type: String

Pattern: `.*\S.*`

Required: Yes

ActivationUrl

The URL to the service or product documentation about the integration with Security Hub CSPM, including how to activate the integration.

Type: String

Pattern: `.*\S.*`

Required: No

Categories

The categories assigned to the product.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

CompanyName

The name of the company that provides the product.

Type: String

Pattern: `.*\S.*`

Required: No

Description

A description of the product.

Type: String

Pattern: `.*\S.*`

Required: No

IntegrationTypes

The types of integration that the product supports. Available values are the following.

- `SEND_FINDINGS_TO_SECURITY_HUB` - The integration sends findings to Security Hub CSPM.
- `RECEIVE_FINDINGS_FROM_SECURITY_HUB` - The integration receives findings from Security Hub CSPM.
- `UPDATE_FINDINGS_IN_SECURITY_HUB` - The integration does not send new findings to Security Hub CSPM, but does make updates to the findings that it receives from Security Hub CSPM.

Type: Array of strings

Valid Values: `SEND_FINDINGS_TO_SECURITY_HUB | RECEIVE_FINDINGS_FROM_SECURITY_HUB | UPDATE_FINDINGS_IN_SECURITY_HUB`

Required: No

MarketplaceUrl

For integrations with AWS services, the AWS Console URL from which to activate the service.

For integrations with third-party products, the AWS Marketplace URL from which to subscribe to or purchase the product.

Type: String

Pattern: `.*\S.*`

Required: No

ProductName

The name of the product.

Type: String

Pattern: `.*\S.*`

Required: No

ProductSubscriptionResourcePolicy

The resource policy associated with the product.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Range

Identifies where the sensitive data begins and ends.

Contents

End

The number of lines (for a line range) or characters (for an offset range) from the beginning of the file to the end of the sensitive data.

Type: Long

Required: No

Start

The number of lines (for a line range) or characters (for an offset range) from the beginning of the file to the end of the sensitive data.

Type: Long

Required: No

StartColumn

In the line where the sensitive data starts, the column within the line where the sensitive data starts.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Recommendation

A recommendation on how to remediate the issue identified in a finding.

Contents

Text

Describes the recommended steps to take to remediate an issue identified in a finding.

Length Constraints: Minimum of 1 length. Maximum of 512 length.

Type: String

Pattern: `.*\S.*`

Required: No

Url

A URL to a page or site that contains information about how to remediate a finding.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Record

An occurrence of sensitive data in an Apache Avro object container or an Apache Parquet file.

Contents

JsonPath

The path, as a JSONPath expression, to the field in the record that contains the data. If the field name is longer than 20 characters, it is truncated. If the path is longer than 250 characters, it is truncated.

Type: String

Pattern: `.*\S.*`

Required: No

RecordIndex

The record index, starting from 0, for the record that contains the data.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RelatedFinding

Details about a related finding.

Contents

Id

The product-generated identifier for a related finding.

Type: String

Pattern: `.*\S.*`

Required: Yes

ProductArn

The ARN of the product that generated a related finding.

Type: String

Pattern: `.*\S.*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Remediation

Details about the remediation steps for a finding.

Contents

Recommendation

A recommendation on the steps to take to remediate the issue identified by a finding.

Type: Recommendation object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Resource

A resource related to a finding.

Contents

Id

The canonical identifier for the given resource type.

Type: String

Pattern: `.*\S.*`

Required: Yes

Type

The type of the resource that details are provided for. If possible, set `Type` to one of the supported resource types. For example, if the resource is an EC2 instance, then set `Type` to `AwsEc2Instance`.

If the resource does not match any of the provided types, then set `Type` to `Other`.

Length Constraints: Minimum length of 1. Maximum length of 256.

Type: String

Pattern: `.*\S.*`

Required: Yes

ApplicationArn

The Amazon Resource Name (ARN) of the application that is related to a finding.

Type: String

Pattern: `.*\S.*`

Required: No

ApplicationName

The name of the application that is related to a finding.

Type: String

Pattern: `.*\S.*`

Required: No

DataClassification

Contains information about sensitive data that was detected on the resource.

Type: DataClassificationDetails object

Required: No

Details

Additional details about the resource related to a finding.

Type: ResourceDetails object

Required: No

Partition

The canonical AWS partition name that the Region is assigned to.

Type: String

Valid Values: `aws | aws-cn | aws-us-gov`

Required: No

Region

The canonical AWS external Region name where this resource is located.

Length Constraints: Minimum length of 1. Maximum length of 16.

Type: String

Pattern: `.*\S.*`

Required: No

ResourceRole

Identifies the role of the resource in the finding. A resource is either the actor or target of the finding activity,

Type: String

Pattern: `.*\S.*`

Required: No

Tags

A list of AWS tags associated with a resource at the time the finding was processed. Tags must follow AWS tag naming limits and requirements.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceDetails

Additional details about a resource related to a finding.

To provide the details, use the object that corresponds to the resource type. For example, if the resource type is `AwsEc2Instance`, then you use the `AwsEc2Instance` object to provide the details.

If the type-specific object does not contain all of the fields you want to populate, then you use the `Other` object to populate those additional fields.

You also use the `Other` object to populate the details when the selected type does not have a corresponding object.

Contents

AwsAmazonMqBroker

Provides details about AWS AppSync message broker. A message broker allows software applications and components to communicate using various programming languages, operating systems, and formal messaging protocols.

Type: AwsAmazonMqBrokerDetails object

Required: No

AwsApiGatewayRestApi

Provides information about a REST API in version 1 of Amazon API Gateway.

Type: AwsApiGatewayRestApiDetails object

Required: No

AwsApiGatewayStage

Provides information about a version 1 Amazon API Gateway stage.

Type: AwsApiGatewayStageDetails object

Required: No

AwsApiGatewayV2Api

Provides information about a version 2 API in Amazon API Gateway.

Type: AwsApiGatewayV2ApiDetails object

Required: No

AwsApiGatewayV2Stage

Provides information about a version 2 stage for Amazon API Gateway.

Type: AwsApiGatewayV2StageDetails object

Required: No

AwsAppSyncGraphQlApi

Provides details about an AWS AppSync Graph QL API, which lets you query multiple databases, microservices, and APIs from a single GraphQL endpoint.

Type: AwsAppSyncGraphQlApiDetails object

Required: No

AwsAthenaWorkGroup

Provides information about an Amazon Athena workgroup. A workgroup helps you separate users, teams, applications, or workloads. It also helps you set limits on data processing and track costs.

Type: AwsAthenaWorkGroupDetails object

Required: No

AwsAutoScalingAutoScalingGroup

Details for an autoscaling group.

Type: AwsAutoScalingAutoScalingGroupDetails object

Required: No

AwsAutoScalingLaunchConfiguration

Provides details about a launch configuration.

Type: AwsAutoScalingLaunchConfigurationDetails object

Required: No

AwsBackupBackupPlan

Provides details about an AWS Backup backup plan.

Type: AwsBackupBackupPlanDetails object

Required: No

AwsBackupBackupVault

Provides details about an AWS Backup backup vault.

Type: AwsBackupBackupVaultDetails object

Required: No

AwsBackupRecoveryPoint

Provides details about an AWS Backup backup, or recovery point.

Type: AwsBackupRecoveryPointDetails object

Required: No

AwsCertificateManagerCertificate

Provides details about an AWS Certificate Manager certificate.

Type: AwsCertificateManagerCertificateDetails object

Required: No

AwsCloudFormationStack

Details about an CloudFormation stack. A stack is a collection of AWS resources that you can manage as a single unit.

Type: AwsCloudFormationStackDetails object

Required: No

AwsCloudFrontDistribution

Details about a CloudFront distribution.

Type: AwsCloudFrontDistributionDetails object

Required: No

AwsCloudTrailTrail

Provides details about a CloudTrail trail.

Type: AwsCloudTrailTrailDetails object

Required: No

AwsCloudWatchAlarm

Details about an Amazon CloudWatch alarm. An alarm allows you to monitor and receive alerts about your AWS resources and applications across multiple Regions.

Type: AwsCloudWatchAlarmDetails object

Required: No

AwsCodeBuildProject

Details for an AWS CodeBuild project.

Type: AwsCodeBuildProjectDetails object

Required: No

AwsDmsEndpoint

Provides details about an AWS Database Migration Service (AWS DMS) endpoint. An endpoint provides connection, data store type, and location information about your data store.

Type: AwsDmsEndpointDetails object

Required: No

AwsDmsReplicationInstance

Provides details about an AWS DMS replication instance. DMS uses a replication instance to connect to your source data store, read the source data, and format the data for consumption by the target data store.

Type: AwsDmsReplicationInstanceDetails object

Required: No

AwsDmsReplicationTask

Provides details about an AWS DMS replication task. A replication task moves a set of data from the source endpoint to the target endpoint.

Type: AwsDmsReplicationTaskDetails object

Required: No

AwsDynamoDbTable

Details about a DynamoDB table.

Type: AwsDynamoDbTableDetails object

Required: No

AwsEc2ClientVpnEndpoint

Provides details about an AWS Client VPN endpoint. A Client VPN endpoint is the resource that you create and configure to enable and manage client VPN sessions. It's the termination point for all client VPN sessions.

Type: AwsEc2ClientVpnEndpointDetails object

Required: No

AwsEc2Eip

Details about an Elastic IP address.

Type: AwsEc2EipDetails object

Required: No

AwsEc2Instance

Details about an EC2 instance related to a finding.

Type: AwsEc2InstanceDetails object

Required: No

AwsEc2LaunchTemplate

Specifies the properties for creating an Amazon Elastic Compute Cloud (Amazon EC2) launch template.

Type: AwsEc2LaunchTemplateDetails object

Required: No

AwsEc2NetworkAcl

Details about an EC2 network access control list (ACL).

Type: AwsEc2NetworkAclDetails object

Required: No

AwsEc2NetworkInterface

Details for an EC2 network interface.

Type: AwsEc2NetworkInterfaceDetails object

Required: No

AwsEc2RouteTable

Provides details about a route table. A route table contains a set of rules, called routes, that determine where to direct network traffic from your subnet or gateway.

Type: AwsEc2RouteTableDetails object

Required: No

AwsEc2SecurityGroup

Details for an EC2 security group.

Type: AwsEc2SecurityGroupDetails object

Required: No

AwsEc2Subnet

Details about a subnet in Amazon EC2.

Type: AwsEc2SubnetDetails object

Required: No

AwsEc2TransitGateway

Details about an Amazon EC2 transit gateway that interconnects your virtual private clouds (VPC) and on-premises networks.

Type: AwsEc2TransitGatewayDetails object

Required: No

AwsEc2Volume

Details for an Amazon EC2 volume.

Type: AwsEc2VolumeDetails object

Required: No

AwsEc2Vpc

Details for an Amazon EC2 VPC.

Type: AwsEc2VpcDetails object

Required: No

AwsEc2VpcEndpointService

Details about the service configuration for a VPC endpoint service.

Type: AwsEc2VpcEndpointServiceDetails object

Required: No

AwsEc2VpcPeeringConnection

Details about an Amazon EC2 VPC peering connection. A VPC peering connection is a networking connection between two VPCs that enables you to route traffic between them privately.

Type: AwsEc2VpcPeeringConnectionDetails object

Required: No

AwsEc2VpnConnection

Details about an Amazon EC2 VPN connection.

Type: AwsEc2VpnConnectionDetails object

Required: No

AwsEcrContainerImage

Information about an Amazon ECR image.

Type: AwsEcrContainerImageDetails object

Required: No

AwsEcrRepository

Information about an Amazon Elastic Container Registry repository.

Type: AwsEcrRepositoryDetails object

Required: No

AwsEcsCluster

Details about an Amazon ECS cluster.

Type: AwsEcsClusterDetails object

Required: No

AwsEcsContainer

Provides information about a Docker container that's part of a task.

Type: AwsEcsContainerDetails object

Required: No

AwsEcsService

Details about a service within an ECS cluster.

Type: AwsEcsServiceDetails object

Required: No

AwsEcsTask

Details about a task in a cluster.

Type: AwsEcsTaskDetails object

Required: No

AwsEcsTaskDefinition

Details about a task definition. A task definition describes the container and volume definitions of an Amazon Elastic Container Service task.

Type: AwsEcsTaskDefinitionDetails object

Required: No

AwsEfsAccessPoint

Details about an Amazon EFS access point. An access point is an application-specific view into an EFS file system that applies an operating system user and group, and a file system path, to any file system request made through the access point.

Type: AwsEfsAccessPointDetails object

Required: No

AwsEksCluster

Details about an Amazon EKS cluster.

Type: AwsEksClusterDetails object

Required: No

AwsElasticBeanstalkEnvironment

Details about an Elastic Beanstalk environment.

Type: AwsElasticBeanstalkEnvironmentDetails object

Required: No

AwsElasticsearchDomain

Details for an Elasticsearch domain.

Type: AwsElasticsearchDomainDetails object

Required: No

AwsElbLoadBalancer

Contains details about a Classic Load Balancer.

Type: AwsElbLoadBalancerDetails object

Required: No

AwsElbv2LoadBalancer

Details about a load balancer.

Type: AwsElbv2LoadBalancerDetails object

Required: No

AwsEventSchemasRegistry

A schema defines the structure of events that are sent to Amazon EventBridge. Schema registries are containers for schemas. They collect and organize schemas so that your schemas are in logical groups.

Type: AwsEventSchemasRegistryDetails object

Required: No

AwsEventsEndpoint

Provides details about an Amazon EventBridge global endpoint. The endpoint can improve your application's availability by making it Regional-fault tolerant.

Type: AwsEventsEndpointDetails object

Required: No

AwsEventsEventbus

Provides details about Amazon EventBridge event bus for an endpoint. An event bus is a router that receives events and delivers them to zero or more destinations, or targets.

Type: AwsEventsEventbusDetails object

Required: No

AwsGuardDutyDetector

Provides details about an Amazon GuardDuty detector. A detector is an object that represents the GuardDuty service. A detector is required for GuardDuty to become operational.

Type: AwsGuardDutyDetectorDetails object

Required: No

AwsIamAccessKey

Details about an IAM access key related to a finding.

Type: AwsIamAccessKeyDetails object

Required: No

AwsIamGroup

Contains details about an IAM group.

Type: AwsIamGroupDetails object

Required: No

AwsIamPolicy

Details about an IAM permissions policy.

Type: AwsIamPolicyDetails object

Required: No

AwsIamRole

Details about an IAM role.

Type: AwsIamRoleDetails object

Required: No

AwsIamUser

Details about an IAM user.

Type: AwsIamUserDetails object

Required: No

AwsKinesisStream

Details about an Amazon Kinesis data stream.

Type: AwsKinesisStreamDetails object

Required: No

AwsKmsKey

Details about an AWS KMS key.

Type: AwsKmsKeyDetails object

Required: No

AwsLambdaFunction

Details about a Lambda function.

Type: AwsLambdaFunctionDetails object

Required: No

AwsLambdaLayerVersion

Details for a Lambda layer version.

Type: AwsLambdaLayerVersionDetails object

Required: No

AwsMskCluster

Provides details about an Amazon Managed Streaming for Apache Kafka (Amazon MSK) cluster.

Type: AwsMskClusterDetails object

Required: No

AwsNetworkFirewallFirewall

Details about an AWS Network Firewall firewall.

Type: AwsNetworkFirewallFirewallDetails object

Required: No

AwsNetworkFirewallFirewallPolicy

Details about an AWS Network Firewall firewall policy.

Type: AwsNetworkFirewallFirewallPolicyDetails object

Required: No

AwsNetworkFirewallRuleGroup

Details about an AWS Network Firewall rule group.

Type: AwsNetworkFirewallRuleGroupDetails object

Required: No

AwsOpenSearchServiceDomain

Details about an Amazon OpenSearch Service domain.

Type: AwsOpenSearchServiceDomainDetails object

Required: No

AwsRdsDbCluster

Details about an Amazon RDS database cluster.

Type: AwsRdsDbClusterDetails object

Required: No

AwsRdsDbClusterSnapshot

Details about an Amazon RDS database cluster snapshot.

Type: AwsRdsDbClusterSnapshotDetails object

Required: No

AwsRdsDbInstance

Details about an Amazon RDS database instance.

Type: AwsRdsDbInstanceDetails object

Required: No

AwsRdsDbSecurityGroup

Details about an Amazon RDS DB security group.

Type: AwsRdsDbSecurityGroupDetails object

Required: No

AwsRdsDbSnapshot

Details about an Amazon RDS database snapshot.

Type: AwsRdsDbSnapshotDetails object

Required: No

AwsRdsEventSubscription

Details about an RDS event notification subscription.

Type: AwsRdsEventSubscriptionDetails object

Required: No

AwsRedshiftCluster

Contains details about an Amazon Redshift cluster.

Type: AwsRedshiftClusterDetails object

Required: No

AwsRoute53HostedZone

Provides details about an Amazon Route 53 hosted zone, including the four name servers assigned to the hosted zone. A hosted zone represents a collection of records that can be managed together, belonging to a single parent domain name.

Type: AwsRoute53HostedZoneDetails object

Required: No

AwsS3AccessPoint

Provides details about an Amazon Simple Storage Service (Amazon S3) access point. S3 access points are named network endpoints that are attached to S3 buckets that you can use to perform S3 object operations.

Type: AwsS3AccessPointDetails object

Required: No

AwsS3AccountPublicAccessBlock

Details about the Amazon S3 Public Access Block configuration for an account.

Type: AwsS3AccountPublicAccessBlockDetails object

Required: No

AwsS3Bucket

Details about an S3 bucket related to a finding.

Type: AwsS3BucketDetails object

Required: No

AwsS3Object

Details about an S3 object related to a finding.

Type: AwsS3ObjectDetails object

Required: No

AwsSageMakerNotebookInstance

Provides details about an Amazon SageMaker AI notebook instance.

Type: AwsSageMakerNotebookInstanceDetails object

Required: No

AwsSecretsManagerSecret

Details about a Secrets Manager secret.

Type: AwsSecretsManagerSecretDetails object

Required: No

AwsSnsTopic

Details about an SNS topic.

Type: AwsSnsTopicDetails object

Required: No

AwsSqsQueue

Details about an SQS queue.

Type: AwsSqsQueueDetails object

Required: No

AwsSsmPatchCompliance

Provides information about the state of a patch on an instance based on the patch baseline that was used to patch the instance.

Type: AwsSsmPatchComplianceDetails object

Required: No

AwsStepFunctionStateMachine

Provides details about an AWS Step Functions state machine, which is a workflow consisting of a series of event-driven steps.

Type: AwsStepFunctionStateMachineDetails object

Required: No

AwsWafRateBasedRule

Details about a rate-based rule for global resources.

Type: AwsWafRateBasedRuleDetails object

Required: No

AwsWafRegionalRateBasedRule

Details about a rate-based rule for Regional resources.

Type: AwsWafRegionalRateBasedRuleDetails object

Required: No

AwsWafRegionalRule

Details about an AWS WAF rule for Regional resources.

Type: AwsWafRegionalRuleDetails object

Required: No

AwsWafRegionalRuleGroup

Details about an AWS WAF rule group for Regional resources.

Type: AwsWafRegionalRuleGroupDetails object

Required: No

AwsWafRegionalWebAcl

Details about an AWS WAF web access control list (web ACL) for Regional resources.

Type: AwsWafRegionalWebAclDetails object

Required: No

AwsWafRule

Details about an AWS WAF rule for global resources.

Type: AwsWafRuleDetails object

Required: No

AwsWafRuleGroup

Details about an AWS WAF rule group for global resources.

Type: AwsWafRuleGroupDetails object

Required: No

AwsWafv2RuleGroup

Details about an AWS WAFv2 rule group.

Type: AwsWafv2RuleGroupDetails object

Required: No

AwsWafv2WebAcl

Details about an AWS WAFv2 web Access Control List (ACL).

Type: AwsWafv2WebAclDetails object

Required: No

AwsWafWebAcl

Details for an AWS WAF web ACL.

Type: AwsWafWebAclDetails object

Required: No

AwsXrayEncryptionConfig

Information about the encryption configuration for AWS X-Ray.

Type: AwsXrayEncryptionConfigDetails object

Required: No

CodeRepository

Details about an external code repository with which you can connect your AWS resources. The connection is established through Amazon Inspector.

Type: CodeRepositoryDetails object

Required: No

Container

Details about a container resource related to a finding.

Type: ContainerDetails object

Required: No

Other

Details about a resource that are not available in a type-specific details object. Use the `Other` object in the following cases.

- The type-specific object does not contain all of the fields that you want to populate. In this case, first use the type-specific object to populate those fields. Use the `Other` object to populate the fields that are missing from the type-specific object.
- The resource type does not have a corresponding object. This includes resources for which the type is `Other`.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Result

Details about the account that was not processed.

Contents

AccountId

An AWS account ID of the account that was not processed.

Type: String

Required: No

ProcessingResult

The reason that the account was not processed.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SecurityControl

A security control in Security Hub CSPM describes a security best practice related to a specific resource.

Contents

Description

The description of a security control across standards. This typically summarizes how Security Hub CSPM evaluates the control and the conditions under which it produces a failed finding. This parameter doesn't reference a specific standard.

Type: String

Pattern: `.*\S.*`

Required: Yes

RemediationUrl

A link to Security Hub CSPM documentation that explains how to remediate a failed finding for a security control.

Type: String

Pattern: `.*\S.*`

Required: Yes

SecurityControlArn

The Amazon Resource Name (ARN) for a security control across standards, such as `arn:aws:securityhub:eu-central-1:123456789012:security-control/S3.1`. This parameter doesn't mention a specific standard.

Type: String

Pattern: `.*\S.*`

Required: Yes

SecurityControlId

The unique identifier of a security control across standards. Values for this field typically consist of an AWS service name and a number, such as APIGateway.3.

Type: String

Pattern: `.*\S.*`

Required: Yes

SecurityControlStatus

The enablement status of a security control in a specific standard.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: Yes

SeverityRating

The severity of a security control. For more information about how Security Hub CSPM determines control severity, see Assigning severity to control findings in the *Security Hub CSPM User Guide*.

Type: String

Valid Values: `LOW | MEDIUM | HIGH | CRITICAL`

Required: Yes

Title

The title of a security control.

Type: String

Pattern: `.*\S.*`

Required: Yes

LastUpdateReason

The most recent reason for updating the customizable properties of a security control. This differs from the `UpdateReason` field of the `BatchUpdateStandardsControlAssociations` API, which tracks the reason for updating the enablement status of a control. This field accepts alphanumeric characters in addition to white spaces, dashes, and underscores.

Type: String

Pattern: `^([^\u0000-\u007F]|[-_ a-zA-Z0-9])+$`

Required: No

Parameters

An object that identifies the name of a control parameter, its current value, and whether it has been customized.

Type: String to ParameterConfiguration object map

Key Pattern: `.*\S.*`

Required: No

UpdateStatus

Identifies whether customizable properties of a security control are reflected in Security Hub CSPM findings. A status of `READY` indicates that Security Hub CSPM uses the current control parameter values when running security checks of the control. A status of `UPDATING` indicates that all security checks might not use the current parameter values.

Type: String

Valid Values: `READY | UPDATING`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SecurityControlCustomParameter

A list of security controls and control parameter values that are included in a configuration policy.

Contents

Parameters

An object that specifies parameter values for a control in a configuration policy.

Type: String to ParameterConfiguration object map

Key Pattern: `.*\S.*`

Required: No

SecurityControlId

The ID of the security control.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SecurityControlDefinition

Provides metadata for a security control, including its unique standard-agnostic identifier, title, description, severity, availability in AWS Regions, and a link to remediation steps.

Contents

CurrentRegionAvailability

Specifies whether a security control is available in the current AWS Region.

Type: String

Valid Values: `AVAILABLE | UNAVAILABLE`

Required: Yes

Description

The description of a security control across standards. This typically summarizes how Security Hub CSPM evaluates the control and the conditions under which it produces a failed finding. This parameter doesn't reference a specific standard.

Type: String

Pattern: `.*\S.*`

Required: Yes

RemediationUrl

A link to Security Hub CSPM documentation that explains how to remediate a failed finding for a security control.

Type: String

Pattern: `.*\S.*`

Required: Yes

SecurityControlId

The unique identifier of a security control across standards. Values for this field typically consist of an AWS service name and a number (for example, APIGateway.3). This parameter differs

from `SecurityControlArn`, which is a unique Amazon Resource Name (ARN) assigned to a control. The ARN references the security control ID (for example, arn:aws:securityhub:eu-central-1:123456789012:security-control/APIGateway.3).

Type: String

Pattern: `.*\S.*`

Required: Yes

SeverityRating

The severity of a security control. For more information about how Security Hub CSPM determines control severity, see Assigning severity to control findings in the *Security Hub CSPM User Guide*.

Type: String

Valid Values: `LOW | MEDIUM | HIGH | CRITICAL`

Required: Yes

Title

The title of a security control.

Type: String

Pattern: `.*\S.*`

Required: Yes

CustomizableProperties

Security control properties that you can customize. Currently, only parameter customization is supported for select controls. An empty array is returned for controls that don't support custom properties.

Type: Array of strings

Valid Values: `Parameters`

Required: No

ParameterDefinitions

An object that provides a security control parameter name, description, and the options for customizing it. This object is excluded for a control that doesn't support custom parameters.

Type: String to ParameterDefinition object map

Key Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SecurityControlParameter

A parameter that a security control accepts.

Contents

Name

The name of a

Type: String

Pattern: `.*\S.*`

Required: No

Value

The current value of a control parameter.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SecurityControlsConfiguration

An object that defines which security controls are enabled in an AWS Security Hub CSPM configuration policy. The enablement status of a control is aligned across all of the enabled standards in an account.

Contents

DisabledSecurityControlIdentifiers

A list of security controls that are disabled in the configuration policy. Security Hub CSPM enables all other controls (including newly released controls) other than the listed controls.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

EnabledSecurityControlIdentifiers

A list of security controls that are enabled in the configuration policy. Security Hub CSPM disables all other controls (including newly released controls) other than the listed controls.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SecurityControlCustomParameters

A list of security controls and control parameter values that are included in a configuration policy.

Type: Array of SecurityControlCustomParameter objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SecurityHubPolicy

An object that defines how AWS Security Hub CSPM is configured. The configuration policy includes whether Security Hub CSPM is enabled or disabled, a list of enabled security standards, a list of enabled or disabled security controls, and a list of custom parameter values for specified controls. If you provide a list of security controls that are enabled in the configuration policy, Security Hub CSPM disables all other controls (including newly released controls). If you provide a list of security controls that are disabled in the configuration policy, Security Hub CSPM enables all other controls (including newly released controls).

Contents

EnabledStandardIdentifiers

A list that defines which security standards are enabled in the configuration policy.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SecurityControlsConfiguration

An object that defines which security controls are enabled in the configuration policy. The enablement status of a control is aligned across all of the enabled standards in an account.

Type: SecurityControlsConfiguration object

Required: No

ServiceEnabled

Indicates whether Security Hub CSPM is enabled in the policy.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SensitiveDataDetections

The list of detected instances of sensitive data.

Contents

Count

The total number of occurrences of sensitive data that were detected.

Type: Long

Required: No

Occurrences

Details about the sensitive data that was detected.

Type: Occurrences object

Required: No

Type

The type of sensitive data that was detected. For example, the type might indicate that the data is an email address.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SensitiveDataResult

Contains a detected instance of sensitive data that are based on built-in identifiers.

Contents

Category

The category of sensitive data that was detected. For example, the category can indicate that the sensitive data involved credentials, financial information, or personal information.

Type: String

Pattern: `.*\S.*`

Required: No

Detections

The list of detected instances of sensitive data.

Type: Array of SensitiveDataDetections objects

Required: No

TotalCount

The total number of occurrences of sensitive data.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Sequence

Contains information about an Amazon GuardDuty Extended Threat Detection attack sequence finding. GuardDuty generates an attack sequence finding when multiple events align to a potentially suspicious activity. To receive GuardDuty attack sequence findings in AWS Security Hub CSPM, you must have GuardDuty enabled. For more information, see GuardDuty Extended Threat Detection in the *Amazon GuardDuty User Guide*.

Contents

Actors

Provides information about the actors involved in the attack sequence.

Type: Array of Actor objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: No

Endpoints

Contains information about the network endpoints that were used in the attack sequence.

Type: Array of NetworkEndpoint objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: No

SequenceIndicators

Contains information about the indicators observed in the attack sequence. The values for SignalIndicators are a subset of the values for `SequenceIndicators`, but the values for these fields don't always match 1:1.

Type: Array of Indicator objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

Signals

Contains information about the signals involved in the attack sequence.

Type: Array of Signal objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: No

Uid

Unique identifier of the attack sequence.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Severity

The severity of the finding.

The finding provider can provide the initial severity. The finding provider can only update the severity if it hasn't been updated using `BatchUpdateFindings`.

The finding must have either `Label` or `Normalized` populated. If only one of these attributes is populated, then Security Hub CSPM automatically populates the other one. If neither attribute is populated, then the finding is invalid. `Label` is the preferred attribute.

Contents

Label

The severity value of the finding. The allowed values are the following.

- `INFORMATIONAL` - No issue was found.
- `LOW` - The issue does not require action on its own.
- `MEDIUM` - The issue must be addressed but not urgently.
- `HIGH` - The issue must be addressed as a priority.
- `CRITICAL` - The issue must be remediated immediately to avoid it escalating.

If you provide `Normalized` and don't provide `Label`, then `Label` is set automatically as follows.

- 0 - `INFORMATIONAL`
- 1–39 - `LOW`
- 40–69 - `MEDIUM`
- 70–89 - `HIGH`
- 90–100 - `CRITICAL`

Type: String

Valid Values: `INFORMATIONAL | LOW | MEDIUM | HIGH | CRITICAL`

Required: No

Normalized

Deprecated. The normalized severity of a finding. Instead of providing `Normalized`, provide `Label`.

The value of `Normalized` can be an integer between `0` and `100`.

If you provide `Label` and don't provide `Normalized`, then `Normalized` is set automatically as follows.

- `INFORMATIONAL` - 0
- `LOW` - 1
- `MEDIUM` - 40
- `HIGH` - 70
- `CRITICAL` - 90

Type: Integer

Required: No

Original

The native severity from the finding product that generated the finding.

Length Constraints: Minimum length of 1. Maximum length of 64.

Type: String

Pattern: `.*\S.*`

Required: No

Product

Deprecated. This attribute isn't included in findings. Instead of providing `Product`, provide `Original`.

The native severity as defined by the AWS service or integrated partner product that generated the finding.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SeverityUpdate

Updates to the severity information for a finding.

Contents

Label

The severity value of the finding. The allowed values are the following.

- `INFORMATIONAL` - No issue was found.
- `LOW` - The issue does not require action on its own.
- `MEDIUM` - The issue must be addressed but not urgently.
- `HIGH` - The issue must be addressed as a priority.
- `CRITICAL` - The issue must be remediated immediately to avoid it escalating.

Type: String

Valid Values: `INFORMATIONAL | LOW | MEDIUM | HIGH | CRITICAL`

Required: No

Normalized

The normalized severity for the finding. This attribute is to be deprecated in favor of `Label`.

If you provide `Normalized` and don't provide `Label`, `Label` is set automatically as follows.

- 0 - `INFORMATIONAL`
- 1–39 - `LOW`
- 40–69 - `MEDIUM`
- 70–89 - `HIGH`
- 90–100 - `CRITICAL`

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

Product

The native severity as defined by the AWS service or integrated partner product that generated the finding.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Signal

Contains information about the signals involved in an Amazon GuardDuty Extended Threat Detection attack sequence. An attack sequence is a type of threat detected by GuardDuty. GuardDuty generates an attack sequence finding when multiple events, or signals, align to a potentially suspicious activity. When GuardDuty and AWS Security Hub CSPM are integrated, GuardDuty sends attack sequence findings to Security Hub CSPM.

A signal can be an API activity or a finding that GuardDuty uses to detect an attack sequence finding.

Contents

ActorIds

The IDs of the threat actors involved in the signal.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Count

The number of times this signal was observed.

Type: Integer

Required: No

CreatedAt

The timestamp when the first finding or activity related to this signal was observed.

Type: Long

Required: No

EndpointIds

Information about the endpoint IDs associated with this signal.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

FirstSeenAt

The timestamp when the first finding or activity related to this signal was observed.

Type: Long

Required: No

Id

The identifier of the signal.

Type: String

Pattern: `.*\S.*`

Required: No

LastSeenAt

The timestamp when the last finding or activity related to this signal was observed.

Type: Long

Required: No

Name

The name of the GuardDuty signal. For example, when signal type is `FINDING`, the signal name is the name of the finding.

Type: String

Pattern: `.*\S.*`

Required: No

ProductArn

The Amazon Resource Name (ARN) of the product that generated the signal.

Type: String

Pattern: `.*\S.*`

Required: No

ResourceIds

The ARN or ID of the AWS resource associated with the signal.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Severity

The severity associated with the signal. For more information about severity, see Severity levels for GuardDuty findings in the *Amazon GuardDuty User Guide*.

Type: Double

Required: No

SignalIndicators

Contains information about the indicators associated with the signals in this attack sequence finding. The values for `SignalIndicators` are a subset of the values for SequenceIndicators, but the values for these fields don't always match 1:1.

Type: Array of Indicator objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

Title

The description of the GuardDuty finding.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of the signal used to identify an attack sequence.

Signals can be GuardDuty findings or activities observed in data sources that GuardDuty monitors. For more information, see GuardDuty foundational data sources in the *Amazon GuardDuty User Guide*.

A signal type can be one of the following values. Here are the related descriptions:

- `FINDING` - Individually generated GuardDuty finding.
- `CLOUD_TRAIL` - Activity observed from AWS CloudTrail logs
- `S3_DATA_EVENTS` - Activity observed from CloudTrail data events for Amazon Simple Storage Service (S3). Activities associated with this type will show up only when you have enabled GuardDuty S3 Protection feature in your account. For more information about S3 Protection and the steps to enable it, see S3 Protection in the *Amazon GuardDuty User Guide*.

Type: String

Pattern: `.*\S.*`

Required: No

UpdatedAt

The timestamp when this signal was last observed.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SoftwarePackage

Information about a software package.

Contents

Architecture

The architecture used for the software package.

Type: String

Pattern: `.*\S.*`

Required: No

Epoch

The epoch of the software package.

Type: String

Pattern: `.*\S.*`

Required: No

FilePath

The file system path to the package manager inventory file.

Type: String

Pattern: `.*\S.*`

Required: No

FixedInVersion

The version of the software package in which the vulnerability has been resolved.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the software package.

Type: String

Pattern: `.*\S.*`

Required: No

PackageManager

The source of the package.

Type: String

Pattern: `.*\S.*`

Required: No

Release

The release of the software package.

Type: String

Pattern: `.*\S.*`

Required: No

Remediation

Describes the actions a customer can take to resolve the vulnerability in the software package.

Type: String

Pattern: `.*\S.*`

Required: No

SourceLayerArn

The Amazon Resource Name (ARN) of the source layer.

Type: String

Pattern: `.*\S.*`

Required: No

SourceLayerHash

The source layer hash of the vulnerable package.

Type: String

Pattern: `.*\S.*`

Required: No

Version

The version of the software package.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SortCriterion

A collection of finding attributes used to sort findings.

Contents

Field

The finding attribute used to sort findings.

Type: String

Pattern: `.*\S.*`

Required: No

SortOrder

The order used to sort findings.

Type: String

Valid Values: `asc | desc`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Standard

Provides information about a specific security standard.

Contents

Description

A description of the standard.

Type: String

Pattern: `.*\S.*`

Required: No

EnabledByDefault

Whether the standard is enabled by default. When Security Hub CSPM is enabled from the console, if a standard is enabled by default, the check box for that standard is selected by default.

When Security Hub CSPM is enabled using the `EnableSecurityHub` API operation, the standard is enabled by default unless `EnableDefaultStandards` is set to `false`.

Type: Boolean

Required: No

Name

The name of the standard.

Type: String

Pattern: `.*\S.*`

Required: No

StandardsArn

The ARN of the standard.

Type: String

Pattern: `.*\S.*`

Required: No

StandardsManagedBy

Provides details about the management of a standard.

Type: StandardsManagedBy object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StandardsControl

Details for an individual security standard control.

Contents

ControlId

The identifier of the security standard control.

Type: String

Pattern: `.*\S.*`

Required: No

ControlStatus

The current status of the security standard control. Indicates whether the control is enabled or disabled. Security Hub CSPM does not check against disabled controls.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

ControlStatusUpdatedAt

The date and time that the status of the security standard control was most recently updated.

Type: Timestamp

Required: No

Description

The longer description of the security standard control. Provides information about what the control is checking for.

Type: String

Pattern: `.*\S.*`

Required: No

DisabledReason

The reason provided for the most recent change in status for the control.

Type: String

Pattern: `.*\S.*`

Required: No

RelatedRequirements

The list of requirements that are related to this control.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

RemediationUrl

A link to remediation information for the control in the Security Hub CSPM user documentation.

Type: String

Pattern: `.*\S.*`

Required: No

SeverityRating

The severity of findings generated from this security standard control.

The finding severity is based on an assessment of how easy it would be to compromise AWS resources if the issue is detected.

Type: String

Valid Values: `LOW | MEDIUM | HIGH | CRITICAL`

Required: No

StandardsControlArn

The ARN of the security standard control.

Type: String

Pattern: `.*\S.*`

Required: No

Title

The title of the security standard control.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StandardsControlAssociationDetail

Provides details about a control's enablement status in a specified standard.

Contents

AssociationStatus

Specifies whether a control is enabled or disabled in a specified standard.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: Yes

SecurityControlArn

The ARN of a security control across standards, such as `arn:aws:securityhub:eu-central-1:123456789012:security-control/S3.1`. This parameter doesn't mention a specific standard.

Type: String

Pattern: `.*\S.*`

Required: Yes

SecurityControlId

The unique identifier of a security control across standards. Values for this field typically consist of an AWS service name and a number, such as APIGateway.3.

Type: String

Pattern: `.*\S.*`

Required: Yes

StandardsArn

The Amazon Resource Name (ARN) of a security standard.

Type: String

Pattern: `.*\S.*`

Required: Yes

RelatedRequirements

The requirement that underlies a control in the compliance framework related to the standard.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

StandardsControlArns

Provides the input parameter that Security Hub CSPM uses to call the UpdateStandardsControl API. This API can be used to enable or disable a control in a specified standard.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

StandardsControlDescription

The description of a control. This typically summarizes how Security Hub CSPM evaluates the control and the conditions under which it produces a failed finding. This parameter may reference a specific standard.

Type: String

Pattern: `.*\S.*`

Required: No

StandardsControlTitle

The title of a control. This field may reference a specific standard.

Type: String

Pattern: `.*\S.*`

Required: No

UpdatedAt

The time at which the enablement status of the control in the specified standard was last updated.

Type: Timestamp

Required: No

UpdatedReason

The reason for updating the enablement status of a control in a specified standard.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StandardsControlAssociationId

An array with one or more objects that includes a security control (identified with `SecurityControlId`, `SecurityControlArn`, or a mix of both parameters) and the Amazon Resource Name (ARN) of a standard. The security control ID or ARN is the same across standards.

Contents

SecurityControlId

The unique identifier (identified with `SecurityControlId`, `SecurityControlArn`, or a mix of both parameters) of a security control across standards.

Type: String

Pattern: `.*\S.*`

Required: Yes

StandardsArn

The ARN of a standard.

Type: String

Pattern: `.*\S.*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StandardsControlAssociationSummary

An array that provides the enablement status and other details for each control that applies to each enabled standard.

Contents

AssociationStatus

The enablement status of a control in a specific standard.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: Yes

SecurityControlArn

The ARN of a control, such as `arn:aws:securityhub:eu-central-1:123456789012:security-control/S3.1`. This parameter doesn't mention a specific standard.

Type: String

Pattern: `.*\S.*`

Required: Yes

SecurityControlId

A unique standard-agnostic identifier for a control. Values for this field typically consist of an AWS service and a number, such as APIGateway.5. This field doesn't reference a specific standard.

Type: String

Pattern: `.*\S.*`

Required: Yes

StandardsArn

The Amazon Resource Name (ARN) of a standard.

Type: String

Pattern: `.*\S.*`

Required: Yes

RelatedRequirements

The requirement that underlies this control in the compliance framework related to the standard.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

StandardsControlDescription

The description of a control. This typically summarizes how Security Hub CSPM evaluates the control and the conditions under which it produces a failed finding. The parameter may reference a specific standard.

Type: String

Pattern: `.*\S.*`

Required: No

StandardsControlTitle

The title of a control.

Type: String

Pattern: `.*\S.*`

Required: No

UpdatedAt

The last time that a control's enablement status in a specified standard was updated.

Type: Timestamp

Required: No

UpdatedReason

The reason for updating a control's enablement status in a specified standard.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StandardsControlAssociationUpdate

An array of requested updates to the enablement status of controls in specified standards. The objects in the array include a security control ID, the Amazon Resource Name (ARN) of the standard, the requested enablement status, and the reason for updating the enablement status.

Contents

AssociationStatus

The desired enablement status of the control in the standard.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: Yes

SecurityControlId

The unique identifier for the security control whose enablement status you want to update.

Type: String

Pattern: `.*\S.*`

Required: Yes

StandardsArn

The Amazon Resource Name (ARN) of the standard in which you want to update the control's enablement status.

Type: String

Pattern: `.*\S.*`

Required: Yes

UpdatedReason

The reason for updating the control's enablement status in the standard.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StandardsManagedBy

Provides details about the management of a security standard.

Contents

Company

An identifier for the company that manages a specific security standard. For existing standards, the value is equal to `AWS`.

Type: String

Pattern: `.*\S.*`

Required: No

Product

An identifier for the product that manages a specific security standard. For existing standards, the value is equal to the AWS service that manages the standard.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StandardsStatusReason

The reason for the current status of your subscription to the standard.

Contents

StatusReasonCode

The reason code that represents the reason for the current status of a standard subscription.

Type: String

Valid Values: `NO_AVAILABLE_CONFIGURATION_RECORDER | MAXIMUM_NUMBER_OF_CONFIG_RULES_EXCEEDED | INTERNAL_ERROR`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StandardsSubscription

A resource that represents your subscription to a supported standard.

Contents

StandardsArn

The ARN of the standard.

Type: String

Pattern: `.*\S.*`

Required: Yes

StandardsInput

A key-value pair of input for the standard.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: Yes

StandardsStatus

The status of your subscription to the standard. Possible values are:

- `PENDING` - The standard is in the process of being enabled. Or the standard is already enabled and AWS Security Hub CSPM is adding new controls to the standard.
- `READY` - The standard is enabled.
- `INCOMPLETE` - The standard could not be enabled completely. One or more errors (`StandardsStatusReason`) occurred when AWS Security Hub CSPM attempted to enable the standard.
- `DELETING` - The standard is in the process of being disabled.
- `FAILED` - The standard could not be disabled. One or more errors (`StandardsStatusReason`) occurred when AWS Security Hub CSPM attempted to disable the standard.

Type: String

Valid Values: `PENDING | READY | FAILED | DELETING | INCOMPLETE`

Required: Yes

StandardsSubscriptionArn

The ARN of the resource that represents your subscription to the standard.

Type: String

Pattern: `.*\S.*`

Required: Yes

StandardsControlsUpdatable

Specifies whether you can retrieve information about and configure individual controls that apply to the standard. Possible values are:

- `READY_FOR_UPDATES` - Controls in the standard can be retrieved and configured.
- `NOT_READY_FOR_UPDATES` - Controls in the standard cannot be retrieved or configured.

Type: String

Valid Values: `READY_FOR_UPDATES | NOT_READY_FOR_UPDATES`

Required: No

StandardsStatusReason

The reason for the current status.

Type: StandardsStatusReason object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

StandardsSubscriptionRequest

The standard that you want to enable.

Contents

StandardsArn

The ARN of the standard that you want to enable. To view the list of available standards and their ARNs, use the `DescribeStandards` operation.

Type: String

Pattern: `.*\S.*`

Required: Yes

StandardsInput

A key-value pair of input for the standard.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StatusReason

Provides additional context for the value of `Compliance.Status`.

Contents

ReasonCode

A code that represents a reason for the control status. For the list of status reason codes and their meanings, see Compliance details for control findings in the *AWS Security Hub CSPM User Guide*.

Type: String

Pattern: `.*\S.*`

Required: Yes

Description

The corresponding description for the status reason code.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StringConfigurationOptions

The options for customizing a security control parameter that is a string.

Contents

DefaultValue

The Security Hub CSPM default value for a control parameter that is a string.

Type: String

Pattern: `.*\S.*`

Required: No

ExpressionDescription

The description of the RE2 regular expression.

Type: String

Pattern: `.*\S.*`

Required: No

Re2Expression

An RE2 regular expression that Security Hub CSPM uses to validate a user-provided control parameter string.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

StringFilter

A string filter for filtering AWS Security Hub CSPM findings.

Contents

Comparison

The condition to apply to a string value when filtering Security Hub CSPM findings.

To search for values that have the filter value, use one of the following comparison operators:

- To search for values that include the filter value, use `CONTAINS`. For example, the filter `Title CONTAINS CloudFront` matches findings that have a `Title` that includes the string CloudFront.
- To search for values that exactly match the filter value, use `EQUALS`. For example, the filter `AwsAccountId EQUALS 123456789012` only matches findings that have an account ID of `123456789012`.
- To search for values that start with the filter value, use `PREFIX`. For example, the filter `ResourceRegion PREFIX us` matches findings that have a `ResourceRegion` that starts with `us`. A `ResourceRegion` that starts with a different value, such as `af`, `ap`, or `ca`, doesn't match.

`CONTAINS`, `EQUALS`, and `PREFIX` filters on the same field are joined by `OR`. A finding matches if it matches any one of those filters. For example, the filters `Title CONTAINS CloudFront OR Title CONTAINS CloudWatch` match a finding that includes either `CloudFront`, `CloudWatch`, or both strings in the title.

To search for values that don’t have the filter value, use one of the following comparison operators:

- To search for values that exclude the filter value, use `NOT_CONTAINS`. For example, the filter `Title NOT_CONTAINS CloudFront` matches findings that have a `Title` that excludes the string CloudFront.
- To search for values other than the filter value, use `NOT_EQUALS`. For example, the filter `AwsAccountId NOT_EQUALS 123456789012` only matches findings that have an account ID other than `123456789012`.
- To search for values that don't start with the filter value, use `PREFIX_NOT_EQUALS`. For example, the filter `ResourceRegion PREFIX_NOT_EQUALS us` matches findings with a `ResourceRegion` that starts with a value other than `us`.

NOT_CONTAINS, NOT_EQUALS, and PREFIX_NOT_EQUALS filters on the same field are joined by AND. A finding matches only if it matches all of those filters. For example, the filters Title NOT_CONTAINS CloudFront AND Title NOT_CONTAINS CloudWatch match a finding that excludes both CloudFront and CloudWatch in the title.

You can't have both a CONTAINS filter and a NOT_CONTAINS filter on the same field. Similarly, you can't provide both an EQUALS filter and a NOT_EQUALS or PREFIX_NOT_EQUALS filter on the same field. Combining filters in this way returns an error. CONTAINS filters can only be used with other CONTAINS filters. NOT_CONTAINS filters can only be used with other NOT_CONTAINS filters.

You can combine PREFIX filters with NOT_EQUALS or PREFIX_NOT_EQUALS filters for the same field. Security Hub CSPM first processes the PREFIX filters, and then the NOT_EQUALS or PREFIX_NOT_EQUALS filters.

For example, for the following filters, Security Hub CSPM first identifies findings that have resource types that start with either AwsIam or AwsEc2. It then excludes findings that have a resource type of AwsIamPolicy and findings that have a resource type of AwsEc2NetworkInterface.

- ResourceType PREFIX AwsIam
- ResourceType PREFIX AwsEc2
- ResourceType NOT_EQUALS AwsIamPolicy
- ResourceType NOT_EQUALS AwsEc2NetworkInterface

CONTAINS and NOT_CONTAINS operators can be used only with automation rules V1. CONTAINS_WORD operator is only supported in GetFindingsV2, GetFindingStatisticsV2, GetResourcesV2, and GetResourceStatisticsV2 APIs. For more information, see Automation rules in the *AWS Security Hub CSPM User Guide*.

Type: String

Valid Values: EQUALS | PREFIX | NOT_EQUALS | PREFIX_NOT_EQUALS | CONTAINS | NOT_CONTAINS | CONTAINS_WORD

Required: No

Value

The string filter value. Filter values are case sensitive. For example, the product name for control-based findings is `Security Hub CSPM`. If you provide `security hub` as the filter value, there's no match.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StringListConfigurationOptions

The options for customizing a security control parameter that is a list of strings.

Contents

DefaultValue

The Security Hub CSPM default value for a control parameter that is a list of strings.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

ExpressionDescription

The description of the RE2 regular expression.

Type: String

Pattern: `.*\S.*`

Required: No

MaxItems

The maximum number of list items that a string list control parameter can accept.

Type: Integer

Required: No

Re2Expression

An RE2 regular expression that Security Hub CSPM uses to validate a user-provided list of strings for a control parameter.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Target

The target account, organizational unit, or the root that is associated with an AWS Security Hub CSPM configuration. The configuration can be a configuration policy or self-managed behavior.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

AccountId

The AWS account ID of the target account.

Type: String

Pattern: `.*\S.*`

Required: No

OrganizationalUnitId

The organizational unit ID of the target organizational unit.

Type: String

Pattern: `.*\S.*`

Required: No

RootId

The ID of the organization root.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Threat

Provides information about the threat detected in a security finding and the file paths that were affected by the threat.

Contents

FilePaths

Provides information about the file paths that were affected by the threat.

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Type: Array of FilePaths objects

Required: No

ItemCount

This total number of items in which the threat has been detected.

Type: Integer

Required: No

Name

The name of the threat.

Length Constraints: Minimum of 1 length. Maximum of 128 length.

Type: String

Pattern: `.*\S.*`

Required: No

Severity

The severity of the threat.

Length Constraints: Minimum of 1 length. Maximum of 128 length.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ThreatIntelIndicator

Details about the threat intelligence related to a finding.

Contents

Category

The category of a threat intelligence indicator.

Type: String

Valid Values: `BACKDOOR | CARD_STEALER | COMMAND_AND_CONTROL | DROP_SITE | EXPLOIT_SITE | KEYLOGGER`

Required: No

LastObservedAt

Indicates when the most recent instance of a threat intelligence indicator was observed.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Source

The source of the threat intelligence indicator.

Length Constraints: Minimum of 1 length. Maximum of 64 length.

Type: String

Pattern: `.*\S.*`

Required: No

SourceUrl

The URL to the page or site where you can get more information about the threat intelligence indicator.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of threat intelligence indicator.

Type: String

Valid Values: `DOMAIN | EMAIL_ADDRESS | HASH_MD5 | HASH_SHA1 | HASH_SHA256 | HASH_SHA512 | IPV4_ADDRESS | IPV6_ADDRESS | MUTEX | PROCESS | URL`

Required: No

Value

The value of a threat intelligence indicator.

Length Constraints: Minimum of 1 length. Maximum of 512 length.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UnprocessedAutomationRule

A list of objects containing `RuleArn`, `ErrorCode`, and `ErrorMessage`. This parameter tells you which automation rules the request didn't process and why.

Contents

ErrorCode

The error code associated with the unprocessed automation rule.

Type: Integer

Required: No

ErrorMessage

An error message describing why a request didn't process a specific rule.

Type: String

Pattern: `.*\S.*`

Required: No

RuleArn

The Amazon Resource Name (ARN) for the unprocessed automation rule.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UnprocessedConfigurationPolicyAssociation

An array of configuration policy associations, one for each configuration policy association identifier, that was specified in a `BatchGetConfigurationPolicyAssociations` request but couldn't be processed due to an error.

Contents

ConfigurationPolicyAssociationIdentifiers

Configuration policy association identifiers that were specified in a `BatchGetConfigurationPolicyAssociations` request but couldn't be processed due to an error.

Type: ConfigurationPolicyAssociation object

Required: No

ErrorCode

An HTTP status code that identifies why the configuration policy association failed.

Type: String

Pattern: `.*\S.*`

Required: No

ErrorReason

A string that identifies why the configuration policy association failed.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UnprocessedSecurityControl

Provides details about a security control for which a response couldn't be returned.

Contents

ErrorCode

The error code for the unprocessed security control. The `NOT_FOUND` value has been deprecated and replaced by the `RESOURCE_NOT_FOUND` value.

Type: String

Valid Values: `INVALID_INPUT | ACCESS_DENIED | NOT_FOUND | RESOURCE_NOT_FOUND | LIMIT_EXCEEDED`

Required: Yes

SecurityControlId

The control (identified with `SecurityControlId`, `SecurityControlArn`, or a mix of both parameters) for which a response couldn't be returned.

Type: String

Pattern: `.*\S.*`

Required: Yes

ErrorReason

The reason why the security control was unprocessed.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UnprocessedStandardsControlAssociation

Provides details about which control's enablement status couldn't be retrieved in a specified standard when calling BatchUpdateStandardsControlAssociations. This parameter also provides details about why the request was unprocessed.

Contents

ErrorCode

The error code for the unprocessed standard and control association. The `NOT_FOUND` value has been deprecated and replaced by the `RESOURCE_NOT_FOUND` value.

Type: String

Valid Values: `INVALID_INPUT | ACCESS_DENIED | NOT_FOUND | RESOURCE_NOT_FOUND | LIMIT_EXCEEDED`

Required: Yes

StandardsControlAssociationId

An array with one or more objects that includes a security control (identified with `SecurityControlId`, `SecurityControlArn`, or a mix of both parameters) and the Amazon Resource Name (ARN) of a standard. This parameter shows the specific controls for which the enablement status couldn't be retrieved in specified standards when calling BatchUpdateStandardsControlAssociations.

Type: StandardsControlAssociationId object

Required: Yes

ErrorReason

The reason why the standard and control association was unprocessed.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UnprocessedStandardsControlAssociationUpdate

Provides details about which control's enablement status could not be updated in a specified standard when calling the BatchUpdateStandardsControlAssociations API. This parameter also provides details about why the request was unprocessed.

Contents

ErrorCode

The error code for the unprocessed update of the control's enablement status in the specified standard. The `NOT_FOUND` value has been deprecated and replaced by the `RESOURCE_NOT_FOUND` value.

Type: String

Valid Values: `INVALID_INPUT | ACCESS_DENIED | NOT_FOUND | RESOURCE_NOT_FOUND | LIMIT_EXCEEDED`

Required: Yes

StandardsControlAssociationUpdate

An array of control and standard associations for which an update failed when calling BatchUpdateStandardsControlAssociations.

Type: StandardsControlAssociationUpdate object

Required: Yes

ErrorReason

The reason why a control's enablement status in the specified standard couldn't be updated.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UpdateAutomationRulesRequestItem

Specifies the parameters to update in an existing automation rule.

Contents

RuleArn

The Amazon Resource Name (ARN) for the rule.

Type: String

Pattern: `.*\S.*`

Required: Yes

Actions

One or more actions to update finding fields if a finding matches the conditions specified in `Criteria`.

Type: Array of AutomationRulesAction objects

Array Members: Fixed number of 1 item.

Required: No

Criteria

A set of ASFF finding field attributes and corresponding expected values that Security Hub CSPM uses to filter findings. If a rule is enabled and a finding matches the conditions specified in this parameter, Security Hub CSPM applies the rule action to the finding.

Type: AutomationRulesFindingFilters object

Required: No

Description

A description of the rule.

Type: String

Pattern: `.*\S.*`

Required: No

IsTerminal

Specifies whether a rule is the last to be applied with respect to a finding that matches the rule criteria. This is useful when a finding matches the criteria for multiple rules, and each rule has different actions. If a rule is terminal, Security Hub CSPM applies the rule action to a finding that matches the rule criteria and doesn't evaluate other rules for the finding. By default, a rule isn't terminal.

Type: Boolean

Required: No

RuleName

The name of the rule.

Type: String

Pattern: `.*\S.*`

Required: No

RuleOrder

An integer ranging from 1 to 1000 that represents the order in which the rule action is applied to findings. Security Hub CSPM applies rules with lower values for this parameter first.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

RuleStatus

Whether the rule is active after it is created. If this parameter is equal to `ENABLED`, Security Hub CSPM starts applying the rule to findings and finding updates after the rule is created. To change the value of this parameter after creating a rule, use `BatchUpdateAutomationRules`.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

UserAccount

Provides AWS account information of the user involved in an Amazon GuardDuty Extended Threat Detection attack sequence. GuardDuty generates an attack sequence finding when multiple events align to a potentially suspicious activity. To receive GuardDuty attack sequence findings in AWS Security Hub CSPM, you must have GuardDuty enabled. For more information, see GuardDuty Extended Threat Detection in the *Amazon GuardDuty User Guide*.

Contents

Name

The name of the user account involved in the attack sequence.

Type: String

Pattern: `.*\S.*`

Required: No

Uid

The unique identifier of the user account involved in the attack sequence.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Vulnerability

A vulnerability associated with a finding.

Contents

Id

The identifier of the vulnerability.

Type: String

Pattern: `.*\S.*`

Required: Yes

CodeVulnerabilities

The vulnerabilities found in your AWS Lambda function code. This field pertains to findings that AWS Security Hub CSPM receives from Amazon Inspector.

Type: Array of VulnerabilityCodeVulnerabilities objects

Required: No

Cvss

CVSS scores from the advisory related to the vulnerability.

Type: Array of Cvss objects

Required: No

EpssScore

The Exploit Prediction Scoring System (EPSS) score for a finding.

Type: Double

Required: No

ExploitAvailable

Whether an exploit is available for a finding.

Type: String

Valid Values: `YES | NO`

Required: No

FixAvailable

Specifies if all vulnerable packages in a finding have a value for `FixedInVersion` and `Remediation`. This field is evaluated for each vulnerability `Id` based on the number of vulnerable packages that have a value for both `FixedInVersion` and `Remediation`. Valid values are as follows:

- `YES` if all vulnerable packages have a value for both `FixedInVersion` and `Remediation`
- `NO` if no vulnerable packages have a value for `FixedInVersion` and `Remediation`
- `PARTIAL` otherwise

Type: String

Valid Values: `YES | NO | PARTIAL`

Required: No

LastKnownExploitAt

The date and time of the last exploit associated with a finding discovered in your environment.

Type: String

Pattern: `.*\S.*`

Required: No

ReferenceUrls

A list of URLs that provide additional information about the vulnerability.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

RelatedVulnerabilities

List of vulnerabilities that are related to this vulnerability.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Vendor

Information about the vendor that generates the vulnerability report.

Type: VulnerabilityVendor object

Required: No

VulnerablePackages

List of software packages that have the vulnerability.

Type: Array of SoftwarePackage objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

VulnerabilityCodeVulnerabilities

Provides details about the vulnerabilities found in your AWS Lambda function code. This field pertains to findings that AWS Security Hub CSPM receives from Amazon Inspector.

Contents

Cwes

The Common Weakness Enumeration (CWE) item associated with the detected code vulnerability.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

FilePath

Provides details about where a code vulnerability is located in your AWS Lambda function.

Type: CodeVulnerabilitiesFilePath object

Required: No

SourceArn

The Amazon Resource Name (ARN) of the Lambda layer in which the code vulnerability is located.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

VulnerabilityVendor

A vendor that generates a vulnerability report.

Contents

Name

The name of the vendor.

Type: String

Pattern: `.*\S.*`

Required: Yes

Url

The URL of the vulnerability advisory.

Type: String

Pattern: `.*\S.*`

Required: No

VendorCreatedAt

Indicates when the vulnerability advisory was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

VendorSeverity

The severity that the vendor assigned to the vulnerability.

Type: String

Pattern: `.*\S.*`

Required: No

VendorUpdatedAt

Indicates when the vulnerability advisory was last updated.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Workflow

Provides details about the status of the investigation into a finding.

Contents

Status

The status of the investigation into the finding. The workflow status is specific to an individual finding. It does not affect the generation of new findings. For example, setting the workflow status to `SUPPRESSED` or `RESOLVED` does not prevent a new finding for the same issue.

The allowed values are the following.

- `NEW` - The initial state of a finding, before it is reviewed.

  Security Hub CSPM also resets the workflow status from `NOTIFIED` or `RESOLVED` to `NEW` in the following cases:

  - `RecordState` changes from `ARCHIVED` to `ACTIVE`.
  - `ComplianceStatus` changes from `PASSED` to either `WARNING`, `FAILED`, or `NOT_AVAILABLE`.
- `NOTIFIED` - Indicates that you notified the resource owner about the security issue. Used when the initial reviewer is not the resource owner, and needs intervention from the resource owner.
- `SUPPRESSED` - Indicates that you reviewed the finding and don't believe that any action is needed. The finding is no longer updated.
- `RESOLVED` - The finding was reviewed and remediated and is now considered resolved.

Type: String

Valid Values: `NEW | NOTIFIED | RESOLVED | SUPPRESSED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

WorkflowUpdate

Used to update information about the investigation into the finding.

Contents

Status

The status of the investigation into the finding. The workflow status is specific to an individual finding. It does not affect the generation of new findings. For example, setting the workflow status to `SUPPRESSED` or `RESOLVED` does not prevent a new finding for the same issue.

The allowed values are the following.

- `NEW` - The initial state of a finding, before it is reviewed.

  Security Hub CSPM also resets `WorkFlowStatus` from `NOTIFIED` or `RESOLVED` to `NEW` in the following cases:

  - The record state changes from `ARCHIVED` to `ACTIVE`.
  - The compliance status changes from `PASSED` to either `WARNING`, `FAILED`, or `NOT_AVAILABLE`.
- `NOTIFIED` - Indicates that you notified the resource owner about the security issue. Used when the initial reviewer is not the resource owner, and needs intervention from the resource owner.
- `RESOLVED` - The finding was reviewed and remediated and is now considered resolved.
- `SUPPRESSED` - Indicates that you reviewed the finding and don't believe that any action is needed. The finding is no longer updated.

Type: String

Valid Values: `NEW | NOTIFIED | RESOLVED | SUPPRESSED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AggregatorV2

Specifies a cross-Region data aggregation configuration, including the aggregation Region and any linked Regions.

Contents

AggregatorV2Arn

The ARN of the aggregatorV2.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AutomationRulesActionTypeObjectV2

Allows you to customize security response workflows.

Contents

Type

The category of action to be executed by the automation rule.

Type: String

Valid Values: `FINDING_FIELDS_UPDATE | EXTERNAL_INTEGRATION`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AutomationRulesActionV2

Allows you to configure automated responses.

Contents

Type

The category of action to be executed by the automation rule.

Type: String

Valid Values: `FINDING_FIELDS_UPDATE | EXTERNAL_INTEGRATION`

Required: Yes

ExternalIntegrationConfiguration

The settings for integrating automation rule actions with external systems or service.

Type: ExternalIntegrationConfiguration object

Required: No

FindingFieldsUpdate

The changes to be applied to fields in a security finding when an automation rule is triggered.

Type: AutomationRulesFindingFieldsUpdateV2 object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AutomationRulesFindingFieldsUpdateV2

Allows you to define the structure for modifying specific fields in security findings.

Contents

Comment

Notes or contextual information for findings that are modified by the automation rule.

Type: String

Pattern: `.*\S.*`

Required: No

SeverityId

The severity level to be assigned to findings that match the automation rule criteria.

Type: Integer

Required: No

StatusId

The status to be applied to findings that match automation rule criteria.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AutomationRulesMetadataV2

Includes essential metadata information about automation rules.

Contents

Actions

The list of action to be performed when the rule criteria is met.

Type: Array of AutomationRulesActionTypeObjectV2 objects

Required: No

CreatedAt

The timestamp for when the automation rule was created.

Type: Timestamp

Required: No

Description

An explanation for the purpose and funcitonality of the automation rule.

Type: String

Pattern: `.*\S.*`

Required: No

RuleArn

The ARN of the automation rule.

Type: String

Pattern: `.*\S.*`

Required: No

RuleId

The ID of the automation rule.

Type: String

Pattern: `.*\S.*`

Required: No

RuleName

The name of the automation rule.

Type: String

Pattern: `.*\S.*`

Required: No

RuleOrder

The value for the rule priority.

Type: Float

Valid Range: Minimum value of 1.0. Maximum value of 1000.0.

Required: No

RuleStatus

The status of the automation rule.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

UpdatedAt

The timestamp for the most recent modification to the automation rule.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BatchUpdateFindingsV2ProcessedFinding

The list of findings that were updated.

Contents

FindingIdentifier

The finding identifier of a processed finding.

Type: OcsfFindingIdentifier object

Required: No

MetadataUid

The metadata.uid of a processed finding.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BatchUpdateFindingsV2UnprocessedFinding

The list of findings that were not updated.

Contents

ErrorCode

Indicates the specific type of error preventing successful processing of a finding during a batch update operation.

Type: String

Valid Values: `ResourceNotFoundException | ValidationException | InternalServerException | ConflictException`

Required: No

ErrorMessage

A detailed description of why a finding could not be processed during a batch update operation.

Type: String

Pattern: `.*\S.*`

Required: No

FindingIdentifier

The finding identifier of an unprocessed finding.

Type: OcsfFindingIdentifier object

Required: No

MetadataUid

The metadata.uid of an unprocessed finding.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CompositeFilter

Enables the creation of filtering criteria for security findings.

Contents

BooleanFilters

Enables filtering based on boolean field values.

Type: Array of OcsfBooleanFilter objects

Required: No

DateFilters

Enables filtering based on date and timestamp fields.

Type: Array of OcsfDateFilter objects

Required: No

IpFilters

A list of IP address filters that allowing you to filter findings based on IP address properties.

Type: Array of OcsfIpFilter objects

Required: No

MapFilters

Enables filtering based on map field values.

Type: Array of OcsfMapFilter objects

Required: No

NestedCompositeFilters

Provides an additional level of filtering, creating a three-layer nested structure. The first layer is a `CompositeFilters` array with a `CompositeOperator` (`AND`/`OR`). The second layer is a `CompositeFilter` object that contains direct filters and `NestedCompositeFilters`. The third layer is `NestedCompositeFilters`, which contains additional filter conditions.

Type: Array of CompositeFilter objects

Required: No

NumberFilters

Enables filtering based on numerical field values.

Type: Array of OcsfNumberFilter objects

Required: No

Operator

The logical operator used to combine multiple filter conditions.

Type: String

Valid Values: `AND` | `OR`

Required: No

StringFilters

Enables filtering based on string field values.

Type: Array of OcsfStringFilter objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Criteria

Defines the parameters and conditions used to evaluate and filter security findings.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

OcsfFindingCriteria

The filtering conditions that align with OCSF standards.

Type: OcsfFindingFilters object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ExternalIntegrationConfiguration

Defines the settings and parameters required for integrating external security tools and services.

Contents

ConnectorArn

The ARN of the connector that establishes the integration.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GroupByResult

Represents finding statistics grouped by `GroupedByField`.

Contents

GroupByField

The attribute by which filtered security findings should be grouped.

Type: String

Pattern: `.*\S.*`

Required: No

GroupByValues

An array of grouped values and their respective counts for each `GroupByField`.

Type: Array of GroupByValue objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GroupByRule

Defines the how the finding attribute should be grouped.

Contents

GroupByField

The attribute by which filtered findings should be grouped.

Type: String

Valid Values: `activity_name | cloud.account.uid | cloud.provider | cloud.region | compliance.assessments.name | compliance.status | compliance.control | finding_info.title | finding_info.related_events.traits.category | finding_info.types | metadata.product.name | metadata.product.uid | resources.type | resources.uid | severity | status | vulnerabilities.fix_coverage | class_name | vulnerabilities.affected_packages.name | finding_info.analytic.name | compliance.standards | cloud.account.name | vendor_attributes.severity`

Required: Yes

Filters

The criteria used to select which security findings should be included in the grouping operation.

Type: OcsfFindingFilters object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GroupByValue

Represents individual aggregated results when grouping security findings for each `GroupByField`.

Contents

Count

The number of findings for a specific `FieldValue` and `GroupByField`.

Type: Integer

Required: No

FieldValue

The value of the field by which findings are grouped.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OcsfBooleanFilter

Enables filtering of security findings based on boolean field values in OCSF.

Contents

FieldName

The name of the field.

Type: String

Valid Values: `compliance.assessments.meets_criteria | vulnerabilities.is_exploit_available | vulnerabilities.is_fix_available`

Required: No

Filter

Boolean filter for querying findings.

Type: BooleanFilter object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OcsfDateFilter

Enables filtering of security findings based on date and timestamp fields in OCSF.

Contents

FieldName

The name of the field.

Type: String

Valid Values: `finding_info.created_time_dt | finding_info.first_seen_time_dt | finding_info.last_seen_time_dt | finding_info.modified_time_dt | resources.image.created_time_dt | resources.image.last_used_time_dt | resources.modified_time_dt`

Required: No

Filter

A date filter for querying findings.

Type: DateFilter object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OcsfFindingFilters

Specifies the filtering criteria for security findings using OCSF.

Contents

CompositeFilters

Enables the creation of complex filtering conditions by combining filter criteria.

Type: Array of CompositeFilter objects

Required: No

CompositeOperator

The logical operators used to combine the filtering on multiple `CompositeFilters`.

Type: String

Valid Values: `AND` | `OR`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OcsfFindingIdentifier

Provides a standard to identify security findings using OCSF.

Contents

CloudAccountUid

Finding cloud.account.uid, which is a unique identifier in the AWS account..

Type: String

Pattern: `.*\S.*`

Required: Yes

FindingInfoUid

Finding finding_info.uid, which is a unique identifier for the finding from the finding provider.

Type: String

Pattern: `.*\S.*`

Required: Yes

MetadataProductUid

Finding metadata.product.uid, which is a unique identifier for the product.

Type: String

Pattern: `.*\S.*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

OcsfNumberFilter

Enables filtering of security findings based on numerical field values in OCSF.

Contents

FieldName

The name of the field.

Type: String

Valid Values: `activity_id | compliance.status_id | confidence_score | severity_id | status_id | finding_info.related_events_count | evidences.api.response.code | evidences.dst_endpoint.autonomous_system.number | evidences.dst_endpoint.port | evidences.src_endpoint.autonomous_system.number | evidences.src_endpoint.port | resources.image.in_use_count | vulnerabilities.cve.cvss.base_score | vendor_attributes.severity_id`

Required: No

Filter

A number filter for querying findings.

Type: NumberFilter object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OcsfMapFilter

Enables filtering of security findings based on map field values in OCSF.

Contents

FieldName

The name of the field.

Type: String

Valid Values: `resources.tags | compliance.control_parameters | databucket.tags | finding_info.tags`

Required: No

Filter

A map filter for filtering AWS Security Hub CSPM findings. Each map filter provides the field to check for, the value to check for, and the comparison operator.

Type: MapFilter object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OcsfStringFilter

Enables filtering of security findings based on string field values in OCSF.

Contents

FieldName

The name of the field.

Type: String

Valid Values: `metadata.uid | activity_name | cloud.account.uid | cloud.provider | cloud.region | compliance.assessments.category | compliance.assessments.name | compliance.control | compliance.status | compliance.standards | finding_info.desc | finding_info.src_url | finding_info.title | finding_info.types | finding_info.uid | finding_info.related_events.traits.category | finding_info.related_events.uid | finding_info.related_events.product.uid | finding_info.related_events.title | metadata.product.name | metadata.product.uid | metadata.product.vendor_name | remediation.desc | remediation.references | resources.cloud_partition | resources.region | resources.type | resources.uid | severity | status | comment | vulnerabilities.fix_coverage | class_name | databucket.encryption_details.algorithm | databucket.encryption_details.key_uid | databucket.file.data_classifications.classifier_details.type | evidences.actor.user.account.uid | evidences.api.operation | evidences.api.response.error_message | evidences.api.service.name | evidences.connection_info.direction | evidences.connection_info.protocol_name | evidences.dst_endpoint.autonomous_system.name | evidences.dst_endpoint.location.city | evidences.dst_endpoint.location.country | evidences.src_endpoint.autonomous_system.name | evidences.src_endpoint.hostname | evidences.src_endpoint.location.city | evidences.src_endpoint.location.country | finding_info.analytic.name`

```
| malware.name | malware_scan_info.uid | malware.severity |
resources.cloud_function.layers.uid_alt |
resources.cloud_function.runtime | resources.cloud_function.user.uid
| resources.device.encryption_details.key_uid |
resources.device.image.uid | resources.image.architecture |
resources.image.registry_uid | resources.image.repository_name
| resources.image.uid | resources.subnet_info.uid |
resources.vpc_uid | vulnerabilities.affected_code.file.path |
vulnerabilities.affected_packages.name | vulnerabilities.cve.epss.score
| vulnerabilities.cve.uid | vulnerabilities.related_vulnerabilities |
cloud.account.name | vendor_attributes.severity
```

Required: No

Filter

A string filter for filtering AWS Security Hub CSPM findings.

Type: StringFilter object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProductV2

Defines the structure for the productV2.

Contents

ActivationUrl

The URL to the serviceV@ or productV2 documentation about the integration, which includes how to activate the integration.

Type: String

Pattern: `.*\S.*`

Required: No

Categories

The domains or functional areas the productV2 addresses.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

CompanyName

The name of the organization or vendor that provides the productV2.

Type: String

Pattern: `.*\S.*`

Required: No

Description

Detailed information about the productV2.

Type: String

Pattern: `.*\S.*`

Required: No

IntegrationV2Types

The type of integration.

Type: Array of strings

Valid Values: `SEND_FINDINGS_TO_SECURITY_HUB | RECEIVE_FINDINGS_FROM_SECURITY_HUB | UPDATE_FINDINGS_IN_SECURITY_HUB`

Required: No

MarketplaceUrl

The console URL where you can purchase or subscribe to products.

Type: String

Pattern: `.*\S.*`

Required: No

ProductV2Name

The name of the productV2.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceFindingsSummary

A list of summaries for all finding types on a resource.

Contents

FindingType

The category or classification of the security finding.

Type: String

Pattern: `.*\S.*`

Required: Yes

ProductName

The name of the product associated with the security finding.

Type: String

Pattern: `.*\S.*`

Required: Yes

TotalFindings

The total count of security findings.

Type: Integer

Required: Yes

Severities

A breakdown of security findings by their severity levels.

Type: ResourceSeverityBreakdown object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceGroupByRule

Defines the configuration for organizing and categorizing AWS resources based on associated security findings.

Contents

GroupByField

Specifies the attribute that resources should be grouped by.

Type: String

Valid Values: `AccountId | Region | ResourceCategory | ResourceType | ResourceName | FindingsSummary.FindingType`

Required: Yes

Filters

The criteria used to select resources and associated security findings.

Type: ResourcesFilters object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceResult

Provides comprehensive details about an AWS resource and its associated security findings.

Contents

AccountId

The AWS account that owns the resource.

Type: String

Pattern: `.*\S.*`

Required: Yes

Region

The AWS Region where the resource is located.

Type: String

Pattern: `.*\S.*`

Required: Yes

ResourceConfig

The configuration details of a resource.

Type: JSON value

Required: Yes

ResourceDetailCaptureTimeDt

The timestamp when information about the resource was captured.

Type: String

Pattern: `.*\S.*`

Required: Yes

ResourceId

The unique identifier for a resource.

Type: String

Pattern: `.*\S.*`

Required: Yes

FindingsSummary

An aggregated view of security findings associated with a resource.

Type: Array of ResourceFindingsSummary objects

Required: No

ResourceCategory

The grouping where the resource belongs.

Type: String

Valid Values: `Compute | Database | Storage | Code | AI/ML | Identity | Network | Other`

Required: No

ResourceCreationTimeDt

The time when the resource was created.

Type: String

Pattern: `.*\S.*`

Required: No

ResourceGuid

The global identifier used to identify a resource.

Type: String

Pattern: `.*\S.*`

Required: No

ResourceName

The name of the resource.

Type: String

Pattern: `.*\S.*`

Required: No

ResourceTags

The key-value pairs associated with a resource.

Type: Array of ResourceTag objects

Required: No

ResourceType

The type of resource.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourcesCompositeFilter

Enables the creation of criteria for AWS resources in Security Hub CSPM.

Contents

DateFilters

Enables filtering based on date and timestamp field values.

Type: Array of ResourcesDateFilter objects

Required: No

MapFilters

Enables filtering based on map-based field values.

Type: Array of ResourcesMapFilter objects

Required: No

NestedCompositeFilters

Provides an additional level of filtering, creating a three-layer nested structure. The first layer is a `CompositeFilters` array with a `CompositeOperator` (`AND`/`OR`). The second layer is a `CompositeFilter` object that contains direct filters and `NestedCompositeFilters`. The third layer is `NestedCompositeFilters`, which contains additional filter conditions.

Type: Array of ResourcesCompositeFilter objects

Required: No

NumberFilters

Enables filtering based on numerical field values.

Type: Array of ResourcesNumberFilter objects

Required: No

Operator

The logical operator used to combine multiple filter conditions.

Type: String

Valid Values: `AND` | `OR`

Required: No

StringFilters

Enables filtering based on string field values.

Type: Array of ResourcesStringFilter objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourcesDateFilter

Enables the filtering of AWS resources based on date and timestamp attributes.

Contents

FieldName

The name of the field.

Type: String

Valid Values: `ResourceDetailCaptureTime | ResourceCreationTime`

Required: No

Filter

A date filter for querying findings.

Type: DateFilter object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceSeverityBreakdown

A comprehensive distribution of security findings by severity level for AWS resources.

Contents

Critical

The number of findings with a severity level of critical.

Type: Integer

Required: No

Fatal

The number of findings with a severity level of fatal.

Type: Integer

Required: No

High

The number of findings with a severity level of high.

Type: Integer

Required: No

Informational

The number of findings that provide security-related information.

Type: Integer

Required: No

Low

The number of findings with a severity level of low.

Type: Integer

Required: No

Medium

The number of findings with a severity level of medium.

Type: Integer

Required: No

Other

The number of findings not in any of the severity categories.

Type: Integer

Required: No

Unknown

The number of findings with a severity level cannot be determined.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourcesFilters

Enables filtering of AWS resources based on data.

Contents

CompositeFilters

A collection of complex filtering conditions that can be applied to AWS resources.

Type: Array of ResourcesCompositeFilter objects

Required: No

CompositeOperator

The logical operator used to combine multiple filter conditions in the structure.

Type: String

Valid Values: `AND` | `OR`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourcesMapFilter

Enables filtering of AWS resources based on key-value map attributes.

Contents

FieldName

The name of the field.

Type: String

Valid Values: `ResourceTags`

Required: No

Filter

A map filter for filtering AWS Security Hub CSPM findings. Each map filter provides the field to check for, the value to check for, and the comparison operator.

Type: MapFilter object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourcesNumberFilter

Enables filtering of AWS resources based on numerical values.

Contents

FieldName

The name of the field.

Type: String

Valid Values: `FindingsSummary.TotalFindings | FindingsSummary.Severities.Other | FindingsSummary.Severities.Fatal | FindingsSummary.Severities.Critical | FindingsSummary.Severities.High | FindingsSummary.Severities.Medium | FindingsSummary.Severities.Low | FindingsSummary.Severities.Informational | FindingsSummary.Severities.Unknown`

Required: No

Filter

A number filter for querying findings.

Type: NumberFilter object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourcesStringFilter

Enables filtering of AWS resources based on string field values.

Contents

FieldName

The name of the field.

Type: String

Valid Values: `ResourceGuid | ResourceId | AccountId | Region | ResourceCategory | ResourceType | ResourceName | FindingsSummary.FindingType | FindingsSummary.ProductName`

Required: No

Filter

A string filter for filtering AWS Security Hub CSPM findings.

Type: StringFilter object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceTag

Represents tag information associated with AWS resources.

Contents

Key

The identifier or name of the tag.

Type: String

Pattern: `.*\S.*`

Required: Yes

Value

The data associated with the tag key.

Type: String

Pattern: `.*\S.*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectorSummary

A condensed overview of the connectorV2..

Contents

ConnectorId

The UUID of the connectorV2 to identify connectorV2 resource.

Type: String

Pattern: `.*\S.*`

Required: Yes

CreatedAt

ISO 8601 UTC timestamp for the time create the connectorV2.

Type: Timestamp

Required: Yes

Name

The Name field contains the user-defined name assigned to the integration connector. This helps identify and manage multiple connectors within Security Hub.

Type: String

Pattern: `.*\S.*`

Required: Yes

ProviderSummary

The connectorV2 third party provider configuration summary.

Type: ProviderSummary object

Required: Yes

ConnectorArn

The Amazon Resource Name (ARN) of the connectorV2.

Type: String

Pattern: `.*\S.*`

Required: No

Description

The description of the connectorV2.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

HealthCheck

Information about the operational status and health of a connectorV2.

Contents

ConnectorStatus

The status of the connectorV2.

Type: String

Valid Values: `CONNECTED | FAILED_TO_CONNECT | PENDING_CONFIGURATION | PENDING_AUTHORIZATION`

Required: Yes

LastCheckedAt

ISO 8601 UTC timestamp for the time check the health status of the connectorV2.

Type: Timestamp

Required: Yes

Message

The message for the reason of connectorStatus change.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JiraCloudDetail

Information about the configuration and status of a Jira Cloud integration.

Contents

AuthStatus

The status of the authorization between Jira Cloud and the service.

Type: String

Valid Values: `ACTIVE | FAILED`

Required: No

AuthUrl

The URL to provide to customers for OAuth auth code flow.

Type: String

Pattern: `.*\S.*`

Required: No

CloudId

The cloud id of the Jira Cloud.

Type: String

Pattern: `.*\S.*`

Required: No

Domain

The URL domain of your Jira Cloud instance.

Type: String

Pattern: `.*\S.*`

Required: No

ProjectKey

The projectKey of Jira Cloud.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JiraCloudProviderConfiguration

The initial configuration settings required to establish an integration between Security Hub CSPM and Jira Cloud.

Contents

ProjectKey

The project key for a JiraCloud instance.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

JiraCloudUpdateConfiguration

The parameters used to modify an existing Jira Cloud integration.

Contents

ProjectKey

The project key for a JiraCloud instance.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProviderConfiguration

The initial configuration settings required to establish an integration between Security Hub CSPM and third-party provider.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

JiraCloud

The configuration settings required to establish an integration with Jira Cloud.

Type: JiraCloudProviderConfiguration object

Required: No

ServiceNow

The configuration settings required to establish an integration with ServiceNow ITSM.

Type: ServiceNowProviderConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProviderDetail

The third-party provider detail for a service configuration.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

JiraCloud

Details about a Jira Cloud integration.

Type: JiraCloudDetail object

Required: No

ServiceNow

Details about a ServiceNow ITSM integration.

Type: ServiceNowDetail object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProviderSummary

The connectorV2 third-party provider configuration summary.

Contents

ConnectorStatus

The status for the connectorV2.

Type: String

Valid Values: `CONNECTED | FAILED_TO_CONNECT | PENDING_CONFIGURATION | PENDING_AUTHORIZATION`

Required: No

ProviderName

The name of the provider.

Type: String

Valid Values: `JIRA_CLOUD | SERVICENOW`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProviderUpdateConfiguration

The parameters required to update the configuration of an integration provider.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

JiraCloud

The parameters required to update the configuration for a Jira Cloud integration.

Type: JiraCloudUpdateConfiguration object

Required: No

ServiceNow

The parameters required to update the configuration for a ServiceNow integration.

Type: ??? object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ServiceNowDetail

Information about a ServiceNow ITSM integration.

Contents

AuthStatus

The status of the authorization between ServiceNow and the service.

Type: String

Valid Values: `ACTIVE | FAILED`

Required: Yes

SecretArn

The Amazon Resource Name (ARN) of the AWS Secrets Manager secret that contains the ServiceNow credentials.

Type: String

Pattern: `.*\S.*`

Required: Yes

InstanceName

The instanceName of ServiceNow ITSM.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

ServiceNowProviderConfiguration

The initial configuration settings required to establish an integration between Security Hub CSPM and ServiceNow ITSM.

Contents

InstanceName

The instance name of ServiceNow ITSM.

Type: String

Pattern: `.*\S.*`

Required: Yes

SecretArn

The Amazon Resource Name (ARN) of the AWS Secrets Manager secret that contains the ServiceNow credentials.

Type: String

Pattern: `.*\S.*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OcsfIpFilter

The structure for filtering findings based on IP address attributes.

Contents

FieldName

The name of the IP address field to filter on.

Type: String

Valid Values: `evidences.dst_endpoint.ip | evidences.src_endpoint.ip`

Required: No

Filter

The IP filter for querying findings.

Type: IpFilter object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ASFF resource objects

AWS Security Hub CSPM supports the following objects as part of the `ResourceDetails` data type. These objects apply to Security Hub CSPM findings in the AWS Security Finding Format (ASFF).

Amazon MQ objects

- AwsAmazonMqBrokerDetails
- AwsAmazonMqBrokerEncryptionOptionsDetails
- AwsAmazonMqBrokerLdapServerMetadataDetails
- AwsAmazonMqBrokerLogsDetails
- AwsAmazonMqBrokerLogsPendingDetails
- AwsAmazonMqBrokerMaintenanceWindowStartTimeDetails
- AwsAmazonMqBrokerUsersDetails

Amazon API Gateway objects

- AwsApiGatewayAccessLogSettings
- AwsApiGatewayCanarySettings
- AwsApiGatewayEndpointConfiguration
- AwsApiGatewayMethodSettings
- AwsApiGatewayRestApiDetails
- AwsApiGatewayStageDetails
- AwsApiGatewayV2ApiDetails
- AwsApiGatewayV2RouteSettings
- AwsApiGatewayV2StageDetails
- AwsCorsConfiguration

AWS AppSync objects

- AwsAppSyncGraphQlApiDetails
- AwsAppSyncGraphQlApiAdditionalAuthenticationProvidersDetails
- AwsAppSyncGraphQlApiLambdaAuthorizerConfigDetails
- AwsAppSyncGraphQlApiLogConfigDetails
- AwsAppSyncGraphQlApiOpenIdConnectConfigDetails
- AwsAppSyncGraphQlApiUserPoolConfigDetails

Amazon Athena objects

- AwsAthenaWorkGroupConfigurationDetails
- AwsAthenaWorkGroupConfigurationResultConfigurationDetails
- AwsAthenaWorkGroupConfigurationResultConfigurationEncryptionConfigurationDetails

AWS Backup objects

- AwsBackupBackupPlanAdvancedBackupSettingsDetails
- AwsBackupBackupPlanBackupPlanDetails
- AwsBackupBackupPlanDetails
- AwsBackupBackupPlanLifecycleDetails
- AwsBackupBackupPlanRuleCopyActionsDetails
- AwsBackupBackupPlanRuleDetails
- AwsBackupBackupVaultDetails
- AwsBackupBackupVaultNotificationsDetails
- AwsBackupRecoveryPointCalculatedLifecycleDetails
- AwsBackupRecoveryPointCreatedByDetails
- AwsBackupRecoveryPointDetails
- AwsBackupRecoveryPointLifecycleDetails

AWS Certificate Manager objects

- AwsCertificateManagerCertificateDetails
- AwsCertificateManagerCertificateDomainValidationOption
- AwsCertificateManagerCertificateExtendedKeyUsage
- AwsCertificateManagerCertificateKeyUsage
- AwsCertificateManagerCertificateOptions
- AwsCertificateManagerCertificateRenewalSummary
- AwsCertificateManagerCertificateResourceRecord

AWS CloudFormation objects

- AwsCloudFormationStackDetails

- AwsCloudFormationStackDriftInformationDetails
- AwsCloudFormationStackOutputsDetails

Amazon CloudFront objects

- AwsCloudFrontDistributionCacheBehavior
- AwsCloudFrontDistributionCacheBehaviors
- AwsCloudFrontDistributionDefaultCacheBehavior
- AwsCloudFrontDistributionDetails
- AwsCloudFrontDistributionLogging
- AwsCloudFrontDistributionOriginCustomOriginConfig
- AwsCloudFrontDistributionOriginGroup
- AwsCloudFrontDistributionOriginGroupFailover
- AwsCloudFrontDistributionOriginGroupFailoverStatusCodes
- AwsCloudFrontDistributionOriginGroups
- AwsCloudFrontDistributionOriginItem
- AwsCloudFrontDistributionOrigins
- AwsCloudFrontDistributionOriginS3OriginConfig
- AwsCloudFrontDistributionOriginSslProtocols
- AwsCloudFrontDistributionViewerCertificate

AWS CloudTrail objects

- AwsCloudTrailTrailDetails

Amazon CloudWatch objects

- AwsCloudWatchAlarmDetails
- AwsCloudWatchAlarmDimensionsDetails

AWS CodeBuild objects

- AwsCodeBuildProjectArtifactsDetails

- AwsCodeBuildProjectDetails
- AwsCodeBuildProjectEnvironment
- AwsCodeBuildProjectEnvironmentEnvironmentVariablesDetails
- AwsCodeBuildProjectEnvironmentRegistryCredential
- AwsCodeBuildProjectLogsConfigCloudWatchLogsDetails
- AwsCodeBuildProjectLogsConfigDetails
- AwsCodeBuildProjectLogsConfigS3LogsDetails
- AwsCodeBuildProjectSource
- AwsCodeBuildProjectVpcConfig

AWS Database Migration Service objects (AWS DMS)

- AwsDmsEndpointDetails
- AwsDmsReplicationInstanceDetails
- AwsDmsReplicationInstanceReplicationSubnetGroupDetails
- AwsDmsReplicationInstanceVpcSecurityGroupsDetails
- AwsDmsReplicationTaskDetails

Amazon DynamoDB objects

- AwsDynamoDbTableAttributeDefinition
- AwsDynamoDbTableBillingModeSummary
- AwsDynamoDbTableDetails
- AwsDynamoDbTableGlobalSecondaryIndex
- AwsDynamoDbTableKeySchema
- AwsDynamoDbTableLocalSecondaryIndex
- AwsDynamoDbTableProjection
- AwsDynamoDbTableProvisionedThroughput
- AwsDynamoDbTableProvisionedThroughputOverride
- AwsDynamoDbTableReplica
- AwsDynamoDbTableReplicaGlobalSecondaryIndex
- AwsDynamoDbTableRestoreSummary

- AwsDynamoDbTableSseDescription
- AwsDynamoDbTableStreamSpecification

Amazon Elastic Compute Cloud (EC2) objects

- AwsEc2ClientVpnEndpointAuthenticationOptionsActiveDirectoryDetails
- AwsEc2ClientVpnEndpointAuthenticationOptionsDetails
- AwsEc2ClientVpnEndpointAuthenticationOptionsFederatedAuthenticationDetails
- AwsEc2ClientVpnEndpointAuthenticationOptionsMutualAuthenticationDetails
- AwsEc2ClientVpnEndpointClientConnectOptionsDetails
- AwsEc2ClientVpnEndpointClientConnectOptionsStatusDetails
- AwsEc2ClientVpnEndpointClientLoginBannerOptionsDetails
- AwsEc2ClientVpnEndpointConnectionLogOptionsDetails
- AwsEc2ClientVpnEndpointDetails
- AwsEc2EipDetails
- AwsEc2InstanceDetails
- AwsEc2InstanceMetadataOptions
- AwsEc2InstanceMonitoringDetails
- AwsEc2InstanceNetworkInterfacesDetails
- AwsEc2LaunchTemplateDataBlockDeviceMappingSetDetails
- AwsEc2LaunchTemplateDataBlockDeviceMappingSetEbsDetails
- AwsEc2LaunchTemplateDataCapacityReservationSpecificationCapacityReservationTargetDetails
- AwsEc2LaunchTemplateDataCapacityReservationSpecificationDetails
- AwsEc2LaunchTemplateDataCpuOptionsDetails
- AwsEc2LaunchTemplateDataCreditSpecificationDetails
- AwsEc2LaunchTemplateDataDetails
- AwsEc2LaunchTemplateDataElasticGpuSpecificationSetDetails
- AwsEc2LaunchTemplateDataElasticInferenceAcceleratorSetDetails
- AwsEc2LaunchTemplateDataEnclaveOptionsDetails
- AwsEc2LaunchTemplateDataHibernationOptionsDetails
- AwsEc2LaunchTemplateDataIamInstanceProfileDetails

- AwsEc2LaunchTemplateDataInstanceMarketOptionsDetails
- AwsEc2LaunchTemplateDataInstanceMarketOptionsSpotOptionsDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsAcceleratorCountDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsAcceleratorTotalMemoryMiBDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsBaselineEbsBandwidthMbpsDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsMemoryGiBPerVCpuDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsMemoryMiBDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsNetworkInterfaceCountDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsTotalLocalStorageGBDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsVCpuCountDetails
- AwsEc2LaunchTemplateDataLicenseSetDetails
- AwsEc2LaunchTemplateDataMaintenanceOptionsDetails
- AwsEc2LaunchTemplateDataMetadataOptionsDetails
- AwsEc2LaunchTemplateDataMonitoringDetails
- AwsEc2LaunchTemplateDataNetworkInterfaceSetDetails
- AwsEc2LaunchTemplateDataNetworkInterfaceSetIpv4PrefixesDetails
- AwsEc2LaunchTemplateDataNetworkInterfaceSetIpv6AddressesDetails
- AwsEc2LaunchTemplateDataNetworkInterfaceSetIpv6PrefixesDetails
- AwsEc2LaunchTemplateDataNetworkInterfaceSetPrivateIpAddressesDetails
- AwsEc2LaunchTemplateDataPlacementDetails
- AwsEc2LaunchTemplateDataPrivateDnsNameOptionsDetails
- AwsEc2LaunchTemplateDetails
- AwsEc2NetworkAclAssociation
- AwsEc2NetworkAclDetails
- AwsEc2NetworkAclEntry
- PortRange
- PortRangeFromTo
- AwsEc2NetworkInterfaceAttachment
- AwsEc2NetworkInterfaceDetails

- AwsEc2NetworkInterfaceIpV6AddressDetail
- AwsEc2NetworkInterfacePrivateIpAddressDetail
- AwsEc2NetworkInterfaceSecurityGroup
- AwsEc2RouteTableDetails
- RouteSetDetails
- AssociationSetDetails
- AssociationStateDetails
- PropagatingVgwSetDetails
- AwsEc2SecurityGroupDetails
- AwsEc2SecurityGroupIpPermission
- AwsEc2SecurityGroupIpRange
- AwsEc2SecurityGroupIpv6Range
- AwsEc2SecurityGroupPrefixListId
- AwsEc2SecurityGroupUserIdGroupPair
- AwsEc2SubnetDetails
- Ipv6CidrBlockAssociation
- AvailabilityZone
- AwsEc2TransitGatewayDetails
- AwsEc2VolumeAttachment
- AwsEc2VolumeDetails
- AwsEc2VpcDetails
- CidrBlockAssociation
- AwsEc2VpcEndpointServiceDetails
- AwsEc2VpcEndpointServiceServiceTypeDetails
- AwsEc2VpcPeeringConnectionDetails
- VpcInfoCidrBlockSetDetails
- VpcInfoIpv6CidrBlockSetDetails
- VpcInfoPeeringOptionsDetails
- AwsEc2VpcPeeringConnectionStatusDetails
- AwsEc2VpcPeeringConnectionVpcInfoDetails

- AwsEc2VpnConnectionDetails
- AwsEc2VpnConnectionOptionsDetails
- AwsEc2VpnConnectionOptionsTunnelOptionsDetails
- AwsEc2VpnConnectionRoutesDetails
- AwsEc2VpnConnectionVgwTelemetryDetails

Amazon EC2 Auto Scaling objects

- AwsAutoScalingAutoScalingGroupAvailabilityZonesListDetails
- AwsAutoScalingAutoScalingGroupDetails
- AwsAutoScalingAutoScalingGroupLaunchTemplateLaunchTemplateSpecification
- AwsAutoScalingAutoScalingGroupMixedInstancesPolicyDetails
- AwsAutoScalingAutoScalingGroupMixedInstancesPolicyInstancesDistributionDetails
- AwsAutoScalingAutoScalingGroupMixedInstancesPolicyLaunchTemplateDetails
- AwsAutoScalingAutoScalingGroupMixedInstancesPolicyLaunchTemplateLaunchTemplateSpecification
- AwsAutoScalingAutoScalingGroupMixedInstancesPolicyLaunchTemplateOverridesListDetails
- AwsAutoScalingLaunchConfigurationBlockDeviceMappingsDetails
- AwsAutoScalingLaunchConfigurationBlockDeviceMappingsEbsDetails
- AwsAutoScalingLaunchConfigurationDetails
- AwsAutoScalingLaunchConfigurationInstanceMonitoringDetails
- AwsAutoScalingLaunchConfigurationMetadataOptions

Amazon Elastic Container Registry (ECR) objects

- AwsEcrContainerImageDetails
- AwsEcrRepositoryDetails
- AwsEcrRepositoryImageScanningConfigurationDetails
- AwsEcrRepositoryLifecyclePolicyDetails

Amazon Elastic Container Service (ECS) objects

- AwsEcsClusterClusterSettingsDetails

- AwsEcsClusterConfigurationDetails
- AwsEcsClusterConfigurationExecuteCommandConfigurationDetails
- AwsEcsClusterConfigurationExecuteCommandConfigurationLogConfigurationDetails
- AwsEcsClusterDefaultCapacityProviderStrategyDetails
- AwsEcsClusterDetails
- AwsEcsContainerDetails
- AwsEcsServiceCapacityProviderStrategyDetails
- AwsEcsServiceDeploymentConfigurationDeploymentCircuitBreakerDetails
- AwsEcsServiceDeploymentConfigurationDetails
- AwsEcsServiceDeploymentControllerDetails
- AwsEcsServiceDetails
- AwsEcsServiceLoadBalancersDetails
- AwsEcsServiceNetworkConfigurationAwsVpcConfigurationDetails
- AwsEcsServiceNetworkConfigurationDetails
- AwsEcsServicePlacementConstraintsDetails
- AwsEcsServicePlacementStrategiesDetails
- AwsEcsServiceServiceRegistriesDetails
- AwsEcsTaskDefinitionContainerDefinitionsDependsOnDetails
- AwsEcsTaskDefinitionContainerDefinitionsDetails
- AwsEcsTaskDefinitionContainerDefinitionsEnvironmentDetails
- AwsEcsTaskDefinitionContainerDefinitionsEnvironmentFilesDetails
- AwsEcsTaskDefinitionContainerDefinitionsExtraHostsDetails
- AwsEcsTaskDefinitionContainerDefinitionsFirelensConfigurationDetails
- AwsEcsTaskDefinitionContainerDefinitionsHealthCheckDetails
- AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersCapabilitiesDetails
- AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersDetails
- AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersDevicesDetails
- AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersTmpfsDetails
- AwsEcsTaskDefinitionContainerDefinitionsLogConfigurationDetails
- AwsEcsTaskDefinitionContainerDefinitionsLogConfigurationSecretOptionsDetails

- AwsEcsTaskDefinitionContainerDefinitionsMountPointsDetails
- AwsEcsTaskDefinitionContainerDefinitionsPortMappingsDetails
- AwsEcsTaskDefinitionContainerDefinitionsRepositoryCredentialsDetails
- AwsEcsTaskDefinitionContainerDefinitionsResourceRequirementsDetails
- AwsEcsTaskDefinitionContainerDefinitionsSecretsDetails
- AwsEcsTaskDefinitionContainerDefinitionsSystemControlsDetails
- AwsEcsTaskDefinitionContainerDefinitionsUlimitsDetails
- AwsEcsTaskDefinitionContainerDefinitionsVolumesFromDetails
- AwsEcsTaskDefinitionDetails
- AwsEcsTaskDefinitionInferenceAcceleratorsDetails
- AwsEcsTaskDefinitionPlacementConstraintsDetails
- AwsEcsTaskDefinitionProxyConfigurationDetails
- AwsEcsTaskDefinitionProxyConfigurationProxyConfigurationPropertiesDetails
- AwsEcsTaskDefinitionVolumesDetails
- AwsEcsTaskDefinitionVolumesDockerVolumeConfigurationDetails
- AwsEcsTaskDefinitionVolumesEfsVolumeConfigurationAuthorizationConfigDetails
- AwsEcsTaskDefinitionVolumesEfsVolumeConfigurationDetails
- AwsEcsTaskDefinitionVolumesHostDetails
- AwsEcsTaskDetails
- AwsEcsTaskVolumeDetails
- AwsEcsTaskVolumeHostDetails
- AwsMountPoint

Amazon Elastic File System (EFS) objects

- AwsEfsAccessPointDetails
- AwsEfsAccessPointPosixUserDetails
- AwsEfsAccessPointRootDirectoryCreationInfoDetails
- AwsEfsAccessPointRootDirectoryDetails

Amazon Elastic Kubernetes Service (EKS) objects

- AwsEksClusterDetails
- AwsEksClusterLoggingClusterLoggingDetails
- AwsEksClusterLoggingDetails
- AwsEksClusterResourcesVpcConfigDetails

AWS Elastic Beanstalk objects

- AwsElasticBeanstalkEnvironmentDetails
- AwsElasticBeanstalkEnvironmentEnvironmentLink
- AwsElasticBeanstalkEnvironmentOptionSetting
- AwsElasticBeanstalkEnvironmentTier

Elasticsearch objects

- AwsElasticsearchDomainDetails
- AwsElasticsearchDomainDomainEndpointOptions
- AwsElasticsearchDomainElasticsearchClusterConfigDetails
- AwsElasticsearchDomainElasticsearchClusterConfigZoneAwarenessConfigDetails
- AwsElasticsearchDomainEncryptionAtRestOptions
- AwsElasticsearchDomainLogPublishingOptions
- AwsElasticsearchDomainLogPublishingOptionsLogConfig
- AwsElasticsearchDomainNodeToNodeEncryptionOptions
- AwsElasticsearchDomainServiceSoftwareOptions
- AwsElasticsearchDomainVPCOptions

Elastic Load Balancing objects

- AwsElbAppCookieStickinessPolicy
- AwsElbLbCookieStickinessPolicy
- AwsElbLoadBalancerAccessLog
- AwsElbLoadBalancerAdditionalAttribute
- AwsElbLoadBalancerAttributes

- AwsElbLoadBalancerBackendServerDescription
- AwsElbLoadBalancerConnectionDraining
- AwsElbLoadBalancerConnectionSettings
- AwsElbLoadBalancerCrossZoneLoadBalancing
- AwsElbLoadBalancerDetails
- AwsElbLoadBalancerHealthCheck
- AwsElbLoadBalancerInstance
- AwsElbLoadBalancerListener
- AwsElbLoadBalancerListenerDescription
- AwsElbLoadBalancerPolicies
- AwsElbLoadBalancerSourceSecurityGroup
- AwsElbv2LoadBalancerAttribute
- AwsElbv2LoadBalancerDetails
- LoadBalancerState

Amazon EventBridge objects

- AwsEventSchemasRegistryDetails
- AwsEventsEndpointDetails
- AwsEventsEndpointEventBusesDetails
- AwsEventsEndpointReplicationConfigDetails
- AwsEventsEndpointRoutingConfigDetails
- AwsEventsEndpointRoutingConfigFailoverConfigDetails
- AwsEventsEndpointRoutingConfigFailoverConfigPrimaryDetails
- AwsEventsEndpointRoutingConfigFailoverConfigSecondaryDetails
- AwsEventsEventbusDetails

Amazon GuardDuty objects

- AwsGuardDutyDetectorDataSourcesCloudTrailDetails
- AwsGuardDutyDetectorDataSourcesDetails
- AwsGuardDutyDetectorDataSourcesDnsLogsDetails

- AwsGuardDutyDetectorDataSourcesFlowLogsDetails
- AwsGuardDutyDetectorDataSourcesKubernetesAuditLogsDetails
- AwsGuardDutyDetectorDataSourcesKubernetesDetails
- AwsGuardDutyDetectorDataSourcesMalwareProtectionDetails
- AwsGuardDutyDetectorDataSourcesMalwareProtectionScanEc2InstanceWithFindingsDetails
- AwsGuardDutyDetectorDataSourcesMalwareProtectionScanEc2InstanceWithFindingsEbsVolumesDetails
- AwsGuardDutyDetectorDataSourcesS3LogsDetails
- AwsGuardDutyDetectorDetails
- AwsGuardDutyDetectorFeaturesDetails

AWS Identity and Access Management (IAM) objects

- AwsIamAccessKeyDetails
- AwsIamAccessKeySessionContext
- AwsIamAccessKeySessionContextAttributes
- AwsIamAccessKeySessionContextSessionIssuer
- AwsIamAttachedManagedPolicy
- AwsIamGroupDetails
- AwsIamGroupPolicy
- AwsIamInstanceProfile
- AwsIamInstanceProfileRole
- AwsIamPermissionsBoundary
- AwsIamPolicyDetails
- AwsIamPolicyVersion
- AwsIamRoleDetails
- AwsIamRolePolicy
- AwsIamUserDetails
- AwsIamUserPolicy

Amazon Kinesis objects

- AwsKinesisStreamDetails

- AwsKinesisStreamStreamEncryptionDetails

AWS Key Management Service (AWS KMS) objects

- AwsKmsKeyDetails

AWS Lambda objects

- AwsLambdaFunctionCode
- AwsLambdaFunctionDeadLetterConfig
- AwsLambdaFunctionDetails
- AwsLambdaFunctionEnvironment
- AwsLambdaFunctionEnvironmentError
- AwsLambdaFunctionLayer
- AwsLambdaFunctionTracingConfig
- AwsLambdaFunctionVpcConfig
- AwsLambdaLayerVersionDetails

Amazon Managed Streaming for Apache Kafka (Amazon MSK) objects

- AwsMskClusterDetails
- AwsMskClusterClusterInfoClientAuthenticationDetails
- AwsMskClusterClusterInfoClientAuthenticationSaslDetails
- AwsMskClusterClusterInfoClientAuthenticationSaslIamDetails
- AwsMskClusterClusterInfoClientAuthenticationSaslScramDetails
- AwsMskClusterClusterInfoClientAuthenticationTlsDetails
- AwsMskClusterClusterInfoClientAuthenticationUnauthenticatedDetails
- AwsMskClusterClusterInfoDetails
- AwsMskClusterClusterInfoEncryptionInfoDetails
- AwsMskClusterClusterInfoEncryptionInfoEncryptionAtRestDetails
- AwsMskClusterClusterInfoEncryptionInfoEncryptionInTransitDetails

AWS Network Firewall objects

- AwsNetworkFirewallFirewallDetails
- AwsNetworkFirewallFirewallPolicyDetails
- FirewallPolicyDetails
- FirewallPolicyStatelessCustomActionsDetails
- StatelessCustomActionDefinition
- StatelessCustomPublishMetricAction
- StatelessCustomPublishMetricActionDimension
- AwsNetworkFirewallFirewallSubnetMappingsDetails
- AwsNetworkFirewallRuleGroupDetails
- RuleGroupDetails
- RuleGroupSource
- RuleGroupSourceCustomActionsDetails
- RuleGroupSourceListDetails
- RuleGroupSourceStatefulRulesDetails
- RuleGroupSourceStatefulRulesHeaderDetails
- RuleGroupSourceStatefulRulesOptionsDetails
- RuleGroupSourceStatelessRuleDefinition
- RuleGroupSourceStatelessRuleMatchAttributes
- RuleGroupSourceStatelessRuleMatchAttributesDestinationPorts
- RuleGroupSourceStatelessRuleMatchAttributesDestinations
- RuleGroupSourceStatelessRuleMatchAttributesSourcePorts
- RuleGroupSourceStatelessRuleMatchAttributesSources
- RuleGroupSourceStatelessRuleMatchAttributesTcpFlags
- RuleGroupSourceStatelessRulesAndCustomActionsDetails
- RuleGroupSourceStatelessRulesDetails
- RuleGroupVariables
- RuleGroupVariablesIpSetsDetails
- RuleGroupVariablesPortSetsDetails
- NetworkHeader
- FirewallPolicyStatefulRuleGroupReferencesDetails

- FirewallPolicyStatelessRuleGroupReferencesDetails

Amazon OpenSearch Service objects

- AwsOpenSearchServiceDomainAdvancedSecurityOptionsDetails
- AwsOpenSearchServiceDomainClusterConfigDetails
- AwsOpenSearchServiceDomainClusterConfigZoneAwarenessConfigDetails
- AwsOpenSearchServiceDomainDetails
- AwsOpenSearchServiceDomainDomainEndpointOptionsDetails
- AwsOpenSearchServiceDomainEncryptionAtRestOptionsDetails
- AwsOpenSearchServiceDomainLogPublishingOption
- AwsOpenSearchServiceDomainLogPublishingOptionsDetails
- AwsOpenSearchServiceDomainMasterUserOptionsDetails
- AwsOpenSearchServiceDomainNodeToNodeEncryptionOptionsDetails
- AwsOpenSearchServiceDomainServiceSoftwareOptionsDetails
- AwsOpenSearchServiceDomainVpcOptionsDetails

Amazon Relational Database Service (RDS) objects

- AwsRdsDbClusterAssociatedRole
- AwsRdsDbClusterDetails
- AwsRdsDbClusterMember
- AwsRdsDbClusterOptionGroupMembership
- AwsRdsDbClusterSnapshotDbClusterSnapshotAttribute
- AwsRdsDbClusterSnapshotDetails
- AwsRdsDbDomainMembership
- AwsRdsDbInstanceAssociatedRole
- AwsRdsDbInstanceDetails
- AwsRdsDbInstanceEndpoint
- AwsRdsDbInstanceVpcSecurityGroup
- AwsRdsDbOptionGroupMembership
- AwsRdsDbParameterGroup

- AwsRdsDbPendingModifiedValues
- AwsRdsDbProcessorFeature
- AwsRdsDbSecurityGroupDetails
- AwsRdsDbSecurityGroupEc2SecurityGroup
- AwsRdsDbSecurityGroupIpRange
- AwsRdsDbSnapshotDetails
- AwsRdsDbStatusInfo
- AwsRdsDbSubnetGroup
- AwsRdsDbSubnetGroupSubnet
- AwsRdsDbSubnetGroupSubnetAvailabilityZone
- AwsRdsEventSubscriptionDetails
- AwsRdsPendingCloudWatchLogsExports

Amazon Redshift objects

- AwsRedshiftClusterClusterNode
- AwsRedshiftClusterClusterParameterGroup
- AwsRedshiftClusterClusterParameterStatus
- AwsRedshiftClusterClusterSecurityGroup
- AwsRedshiftClusterClusterSnapshotCopyStatus
- AwsRedshiftClusterDeferredMaintenanceWindow
- AwsRedshiftClusterDetails
- AwsRedshiftClusterElasticIpStatus
- AwsRedshiftClusterEndpoint
- AwsRedshiftClusterHsmStatus
- AwsRedshiftClusterIamRole
- AwsRedshiftClusterLoggingStatus
- AwsRedshiftClusterPendingModifiedValues
- AwsRedshiftClusterResizeInfo
- AwsRedshiftClusterRestoreStatus
- AwsRedshiftClusterVpcSecurityGroup

Amazon Route 53 objects

- AwsRoute53HostedZoneConfigDetails
- AwsRoute53HostedZoneDetails
- AwsRoute53HostedZoneObjectDetails
- AwsRoute53HostedZoneVpcDetails
- AwsRoute53QueryLoggingConfigDetails
- CloudWatchLogsLogGroupArnConfigDetails

Amazon Simple Storage Service (S3) objects

- AwsS3AccessPointDetails
- AwsS3AccessPointVpcConfigurationDetails
- AwsS3AccountPublicAccessBlockDetails
- AwsS3BucketBucketLifecycleConfigurationDetails
- AwsS3BucketBucketLifecycleConfigurationRulesAbortIncompleteMultipartUploadDetails
- AwsS3BucketBucketLifecycleConfigurationRulesDetails
- AwsS3BucketBucketLifecycleConfigurationRulesFilterDetails
- AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateDetails
- AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateOperandsDetails
- AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateOperandsTagDetails
- AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateTagDetails
- AwsS3BucketBucketLifecycleConfigurationRulesNoncurrentVersionTransitionsDetails
- AwsS3BucketBucketLifecycleConfigurationRulesTransitionsDetails
- AwsS3BucketBucketVersioningConfiguration
- AwsS3BucketDetails
- AwsS3BucketLoggingConfiguration
- AwsS3BucketNotificationConfiguration
- AwsS3BucketNotificationConfigurationDetail
- AwsS3BucketNotificationConfigurationFilter
- AwsS3BucketNotificationConfigurationS3KeyFilter
- AwsS3BucketNotificationConfigurationS3KeyFilterRule

- AwsS3BucketObjectLockConfiguration
- AwsS3BucketObjectLockConfigurationRuleDefaultRetentionDetails
- AwsS3BucketObjectLockConfigurationRuleDetails
- AwsS3BucketServerSideEncryptionByDefault
- AwsS3BucketServerSideEncryptionConfiguration
- AwsS3BucketServerSideEncryptionRule
- AwsS3BucketWebsiteConfiguration
- AwsS3BucketWebsiteConfigurationRedirectTo
- AwsS3BucketWebsiteConfigurationRoutingRule
- AwsS3BucketWebsiteConfigurationRoutingRuleCondition
- AwsS3BucketWebsiteConfigurationRoutingRuleRedirect
- AwsS3ObjectDetails

Amazon SageMaker AI objects

- AwsSageMakerNotebookInstanceDetails
- AwsSageMakerNotebookInstanceMetadataServiceConfigurationDetails

AWS Secrets Manager objects

- AwsSecretsManagerSecretDetails
- AwsSecretsManagerSecretRotationRules

Amazon Simple Notification Service (SNS) objects

- AwsSnsTopicDetails
- AwsSnsTopicSubscription

Amazon Simple Queue Service (SQS) objects

- AwsSqsQueueDetails

AWS Systems Manager objects

- AwsSsmComplianceSummary
- AwsSsmPatch
- AwsSsmPatchComplianceDetails

AWS Step Functions objects

- AwsStepFunctionStateMachineDetails
- AwsStepFunctionStateMachineLoggingConfigurationDestinationsCloudWatchLogsLogGroupDetails
- AwsStepFunctionStateMachineLoggingConfigurationDestinationsDetails
- AwsStepFunctionStateMachineLoggingConfigurationDetails
- AwsStepFunctionStateMachineTracingConfigurationDetails

AWS WAF objects

- AwsWafRateBasedRuleDetails
- AwsWafRateBasedRuleMatchPredicate
- AwsWafRegionalRateBasedRuleDetails
- AwsWafRegionalRateBasedRuleMatchPredicate
- AwsWafRegionalRuleDetails
- AwsWafRegionalRuleGroupDetails
- AwsWafRegionalRuleGroupRulesActionDetails
- AwsWafRegionalRuleGroupRulesDetails
- AwsWafRegionalRulePredicateListDetails
- AwsWafRegionalWebAclDetails
- AwsWafRegionalWebAclRulesListActionDetails
- AwsWafRegionalWebAclRulesListDetails
- AwsWafRegionalWebAclRulesListOverrideActionDetails
- AwsWafRuleDetails
- AwsWafRuleGroupDetails
- AwsWafRuleGroupRulesActionDetails
- AwsWafRuleGroupRulesDetails

- AwsWafRulePredicateListDetails
- AwsWafv2ActionAllowDetails
- AwsWafv2ActionBlockDetails
- AwsWafv2CustomHttpHeader
- AwsWafv2CustomRequestHandlingDetails
- AwsWafv2CustomResponseDetails
- AwsWafv2RuleGroupDetails
- AwsWafv2RulesActionCaptchaDetails
- AwsWafv2RulesActionCountDetails
- AwsWafv2RulesActionDetails
- AwsWafv2RulesDetails
- AwsWafv2VisibilityConfigDetails
- AwsWafv2WebAclActionDetails
- AwsWafv2WebAclCaptchaConfigDetails
- AwsWafv2WebAclCaptchaConfigImmunityTimePropertyDetails
- AwsWafv2WebAclDetails
- AwsWafWebAclDetails
- WafAction
- WafExcludedRule
- WafOverrideAction
- AwsWafWebAclRule

AWS X-Ray objects

- AwsXrayEncryptionConfigDetails

Container objects

- ContainerDetails
- VolumeMount

Code repository objects

- CodeRepositoryDetails

Amazon MQ objects

Amazon MQ objects

- AwsAmazonMqBrokerDetails
- AwsAmazonMqBrokerEncryptionOptionsDetails
- AwsAmazonMqBrokerLdapServerMetadataDetails
- AwsAmazonMqBrokerLogsDetails
- AwsAmazonMqBrokerLogsPendingDetails
- AwsAmazonMqBrokerMaintenanceWindowStartTimeDetails
- AwsAmazonMqBrokerUsersDetails

AwsAmazonMqBrokerDetails

Provides details about an Amazon MQ message broker. A message broker allows software applications and components to communicate using various programming languages, operating systems, and formal messaging protocols.

Contents

AuthenticationStrategy

The authentication strategy used to secure the broker. The default is `SIMPLE`.

Type: String

Pattern: `.*\S.*`

Required: No

AutoMinorVersionUpgrade

Whether automatically upgrade new minor versions for brokers, as new versions are released and supported by Amazon MQ. Automatic upgrades occur during the scheduled maintenance window of the broker or after a manual broker reboot.

Type: Boolean

Required: No

BrokerArn

The Amazon Resource Name (ARN) of the broker.

Type: String

Pattern: `.*\S.*`

Required: No

BrokerId

The unique ID that Amazon MQ generates for the broker.

Type: String

Pattern: `.*\S.*`

Required: No

BrokerName

The broker's name.

Type: String

Pattern: `.*\S.*`

Required: No

DeploymentMode

The broker's deployment mode.

Type: String

Pattern: `.*\S.*`

Required: No

EncryptionOptions

Encryption options for the broker. Doesn't apply to RabbitMQ brokers.

Type: AwsAmazonMqBrokerEncryptionOptionsDetails object

Required: No

EngineType

The type of broker engine.

Type: String

Pattern: `.*\S.*`

Required: No

EngineVersion

The version of the broker engine.

Type: String

Pattern: `.*\S.*`

Required: No

HostInstanceType

The broker's instance type.

Type: String

Pattern: `.*\S.*`

Required: No

LdapServerMetadata

The metadata of the Lightweight Directory Access Protocol (LDAP) server used to authenticate and authorize connections to the broker. This is an optional failover server.

Type: AwsAmazonMqBrokerLdapServerMetadataDetails object

Required: No

Logs

Turns on Amazon CloudWatch logging for brokers.

Type: AwsAmazonMqBrokerLogsDetails object

Required: No

MaintenanceWindowStartTime

The scheduled time period (UTC) during which Amazon MQ begins to apply pending updates or patches to the broker.

Type: AwsAmazonMqBrokerMaintenanceWindowStartTimeDetails object

Required: No

PubliclyAccessible

Permits connections from applications outside of the VPC that hosts the broker's subnets.

Type: Boolean

Required: No

SecurityGroups

The list of rules (one minimum, 125 maximum) that authorize connections to brokers.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

StorageType

The broker's storage type.

Type: String

Pattern: `.*\S.*`

Required: No

SubnetIds

The list of groups that define which subnets and IP ranges the broker can use from different Availability Zones.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Users

The list of all broker usernames for the specified broker. Doesn't apply to RabbitMQ brokers.

Type: Array of AwsAmazonMqBrokerUsersDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAmazonMqBrokerEncryptionOptionsDetails

Provides details about broker encryption options.

Contents

KmsKeyId

The AWS KMS key that's used to encrypt your data at rest. If not provided, Amazon MQ will use a default KMS key to encrypt your data.

Type: String

Pattern: `.*\S.*`

Required: No

UseAwsOwnedKey

Specifies that an AWS KMS key should be used for at-rest encryption. Set to `true` by default if no value is provided (for example, for RabbitMQ brokers).

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAmazonMqBrokerLdapServerMetadataDetails

The metadata of the Lightweight Directory Access Protocol (LDAP) server used to authenticate and authorize connections to the broker. This is an optional failover server.

Contents

Hosts

Specifies the location of the LDAP server, such as AWS Directory Service for Microsoft Active Directory.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

RoleBase

The distinguished name of the node in the directory information tree (DIT) to search for roles or groups.

Type: String

Pattern: `.*\S.*`

Required: No

RoleName

The group name attribute in a role entry whose value is the name of that role.

Type: String

Pattern: `.*\S.*`

Required: No

RoleSearchMatching

The LDAP search filter used to find roles within the `roleBase`.

Type: String

Pattern: `.*\S.*`

Required: No

RoleSearchSubtree

The directory search scope for the role. If set to `true`, the scope is to search the entire subtree.

Type: Boolean

Required: No

ServiceAccountUsername

A username for the service account, which is an account in your LDAP server that has access to initiate a connection.

Type: String

Pattern: `.*\S.*`

Required: No

UserBase

Selects a particular subtree of the directory information tree (DIT) to search for user entries.

Type: String

Pattern: `.*\S.*`

Required: No

UserRoleName

The name of the LDAP attribute in the user's directory entry for the user's group membership.

Type: String

Pattern: `.*\S.*`

Required: No

UserSearchMatching

The LDAP search filter used to find users within the `userBase`.

Type: String

Pattern: `.*\S.*`

Required: No

UserSearchSubtree

The directory search scope for the user. If set to true, the scope is to search the entire subtree.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAmazonMqBrokerLogsDetails

Provides information about logs to be activated for the specified broker.

Contents

Audit

Activates audit logging. Every user management action made using JMX or the ActiveMQ Web Console is logged. Doesn't apply to RabbitMQ brokers.

Type: Boolean

Required: No

AuditLogGroup

The location of the CloudWatch Logs log group where audit logs are sent.

Type: String

Pattern: `.*\S.*`

Required: No

General

Activates general logging.

Type: Boolean

Required: No

GeneralLogGroup

The location of the CloudWatch Logs log group where general logs are sent.

Type: String

Pattern: `.*\S.*`

Required: No

Pending

The list of information about logs that are to be turned on for the specified broker.

Type: AwsAmazonMqBrokerLogsPendingDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAmazonMqBrokerLogsPendingDetails

Provides information about logs to be activated for the specified broker.

Contents

Audit

Activates audit logging. Every user management action made using JMX or the ActiveMQ Web Console is logged. Doesn't apply to RabbitMQ brokers.

Type: Boolean

Required: No

General

Activates general logging.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAmazonMqBrokerMaintenanceWindowStartTimeDetails

The scheduled time period (UTC) during which Amazon MQ begins to apply pending updates or patches to the broker.

Contents

DayOfWeek

The day of the week on which the maintenance window falls.

Type: String

Pattern: `.*\S.*`

Required: No

TimeOfDay

The time, in 24-hour format, on which the maintenance window falls.

Type: String

Pattern: `.*\S.*`

Required: No

TimeZone

The time zone in either the Country/City format or the UTC offset format. UTC is the default format.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAmazonMqBrokerUsersDetails

Provides details about the broker usernames for the specified broker. Doesn't apply to RabbitMQ brokers.

Contents

PendingChange

The type of change pending for the broker user.

Type: String

Pattern: `.*\S.*`

Required: No

Username

The username of the broker user.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon API Gateway

Amazon API Gateway objects

- AwsApiGatewayAccessLogSettings

- AwsApiGatewayCanarySettings
- AwsApiGatewayEndpointConfiguration
- AwsApiGatewayMethodSettings
- AwsApiGatewayRestApiDetails
- AwsApiGatewayStageDetails
- AwsApiGatewayV2ApiDetails
- AwsApiGatewayV2RouteSettings
- AwsApiGatewayV2StageDetails
- AwsCorsConfiguration

AwsApiGatewayAccessLogSettings

Contains information about settings for logging access for the stage.

Contents

DestinationArn

The ARN of the CloudWatch Logs log group that receives the access logs.

Type: String

Pattern: `.*\S.*`

Required: No

Format

A single-line format of the access logs of data, as specified by selected `$context` variables. The format must include at least `$context.requestId`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsApiGatewayCanarySettings

Contains information about settings for canary deployment in the stage.

Contents

DeploymentId

The deployment identifier for the canary deployment.

Type: String

Pattern: `.*\S.*`

Required: No

PercentTraffic

The percentage of traffic that is diverted to a canary deployment.

Type: Double

Required: No

StageVariableOverrides

Stage variables that are overridden in the canary release deployment. The variables include new stage variables that are introduced in the canary.

Each variable is represented as a string-to-string map between the stage variable name and the variable value.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

UseStageCache

Indicates whether the canary deployment uses the stage cache.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsApiGatewayEndpointConfiguration

Contains information about the endpoints for the API.

Contents

Types

A list of endpoint types for the REST API.

For an edge-optimized API, the endpoint type is `EDGE`. For a Regional API, the endpoint type is `REGIONAL`. For a private API, the endpoint type is `PRIVATE`.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsApiGatewayMethodSettings

Defines settings for a method for the stage.

Contents

CacheDataEncrypted

Indicates whether the cached responses are encrypted.

Type: Boolean

Required: No

CacheTtlInSeconds

Specifies the time to live (TTL), in seconds, for cached responses. The higher the TTL, the longer the response is cached.

Type: Integer

Required: No

CachingEnabled

Indicates whether responses are cached and returned for requests. For responses to be cached, a cache cluster must be enabled on the stage.

Type: Boolean

Required: No

DataTraceEnabled

Indicates whether data trace logging is enabled for the method. Data trace logging affects the log entries that are pushed to CloudWatch Logs.

Type: Boolean

Required: No

HttpMethod

The HTTP method. You can use an asterisk (*) as a wildcard to apply method settings to multiple methods.

Type: String

Pattern: `.*\S.*`

Required: No

LoggingLevel

The logging level for this method. The logging level affects the log entries that are pushed to CloudWatch Logs.

If the logging level is `ERROR`, then the logs only include error-level entries.

If the logging level is `INFO`, then the logs include both `ERROR` events and extra informational events.

Valid values: `OFF` | `ERROR` | `INFO`

Type: String

Pattern: `.*\S.*`

Required: No

MetricsEnabled

Indicates whether CloudWatch metrics are enabled for the method.

Type: Boolean

Required: No

RequireAuthorizationForCacheControl

Indicates whether authorization is required for a cache invalidation request.

Type: Boolean

Required: No

ResourcePath

The resource path for this method. Forward slashes (/) are encoded as ~1 . The initial slash must include a forward slash.

For example, the path value `/resource/subresource` must be encoded as `/~1resource~1subresource`.

To specify the root path, use only a slash (/). You can use an asterisk (*) as a wildcard to apply method settings to multiple methods.

Type: String

Pattern: `.*\S.*`

Required: No

ThrottlingBurstLimit

The throttling burst limit for the method.

Type: Integer

Required: No

ThrottlingRateLimit

The throttling rate limit for the method.

Type: Double

Required: No

UnauthorizedCacheControlHeaderStrategy

Indicates how to handle unauthorized requests for cache invalidation.

Valid values: `FAIL_WITH_403` | `SUCCEED_WITH_RESPONSE_HEADER` | `SUCCEED_WITHOUT_RESPONSE_HEADER`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsApiGatewayRestApiDetails

Contains information about a REST API in version 1 of Amazon API Gateway.

Contents

ApiKeySource

The source of the API key for metering requests according to a usage plan.

`HEADER` indicates whether to read the API key from the X-API-Key header of a request.

`AUTHORIZER` indicates whether to read the API key from the `UsageIdentifierKey` from a custom authorizer.

Type: String

Pattern: `.*\S.*`

Required: No

BinaryMediaTypes

The list of binary media types supported by the REST API.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

CreatedDate

Indicates when the API was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Description

A description of the REST API.

Type: String

Pattern: `.*\S.*`

Required: No

EndpointConfiguration

The endpoint configuration of the REST API.

Type: AwsApiGatewayEndpointConfiguration object

Required: No

Id

The identifier of the REST API.

Type: String

Pattern: `.*\S.*`

Required: No

MinimumCompressionSize

The minimum size in bytes of a payload before compression is enabled.

If `null`, then compression is disabled.

If 0, then all payloads are compressed.

Type: Integer

Required: No

Name

The name of the REST API.

Type: String

Pattern: `.*\S.*`

Required: No

Version

The version identifier for the REST API.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsApiGatewayStageDetails

Provides information about a version 1 Amazon API Gateway stage.

Contents

AccessLogSettings

Settings for logging access for the stage.

Type: AwsApiGatewayAccessLogSettings object

Required: No

CacheClusterEnabled

Indicates whether a cache cluster is enabled for the stage.

Type: Boolean

Required: No

CacheClusterSize

If a cache cluster is enabled, the size of the cache cluster.

Type: String

Pattern: `.*\S.*`

Required: No

CacheClusterStatus

If a cache cluster is enabled, the status of the cache cluster.

Type: String

Pattern: `.*\S.*`

Required: No

CanarySettings

Information about settings for canary deployment in the stage.

Type: AwsApiGatewayCanarySettings object

Required: No

ClientCertificateId

The identifier of the client certificate for the stage.

Type: String

Pattern: `.*\S.*`

Required: No

CreatedDate

Indicates when the stage was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

DeploymentId

The identifier of the deployment that the stage points to.

Type: String

Pattern: `.*\S.*`

Required: No

Description

A description of the stage.

Type: String

Pattern: `.*\S.*`

Required: No

DocumentationVersion

The version of the API documentation that is associated with the stage.

Type: String

Pattern: `.*\S.*`

Required: No

LastUpdatedDate

Indicates when the stage was most recently updated.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

MethodSettings

Defines the method settings for the stage.

Type: Array of AwsApiGatewayMethodSettings objects

Required: No

StageName

The name of the stage.

Type: String

Pattern: `.*\S.*`

Required: No

TracingEnabled

Indicates whether active tracing with AWS X-Ray is enabled for the stage.

Type: Boolean

Required: No

Variables

A map that defines the stage variables for the stage.

Variable names can have alphanumeric and underscore characters.

Variable values can contain the following characters:

- Uppercase and lowercase letters
- Numbers
- Special characters -._~:/?#&=,

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

WebAclArn

The ARN of the web ACL associated with the stage.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsApiGatewayV2ApiDetails

Contains information about a version 2 API in Amazon API Gateway.

Contents

ApiEndpoint

The URI of the API.

Uses the format `<api-id>.execute-api.<region>.amazonaws.com`

The stage name is typically appended to the URI to form a complete path to a deployed API stage.

Type: String

Pattern: `.*\S.*`

Required: No

ApiId

The identifier of the API.

Type: String

Pattern: `.*\S.*`

Required: No

ApiKeySelectionExpression

An API key selection expression. Supported only for WebSocket APIs.

Type: String

Pattern: `.*\S.*`

Required: No

CorsConfiguration

A cross-origin resource sharing (CORS) configuration. Supported only for HTTP APIs.

Type: AwsCorsConfiguration object

Required: No

CreatedDate

Indicates when the API was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Description

A description of the API.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the API.

Type: String

Pattern: `.*\S.*`

Required: No

ProtocolType

The API protocol for the API.

Valid values: `WEBSOCKET` | `HTTP`

Type: String

Pattern: `.*\S.*`

Required: No

RouteSelectionExpression

The route selection expression for the API.

For HTTP APIs, must be `${request.method} ${request.path}`. This is the default value for HTTP APIs.

For WebSocket APIs, there is no default value.

Type: String

Pattern: `.*\S.*`

Required: No

Version

The version identifier for the API.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsApiGatewayV2RouteSettings

Contains route settings for a stage.

Contents

DataTraceEnabled

Indicates whether data trace logging is enabled. Data trace logging affects the log entries that are pushed to CloudWatch Logs. Supported only for WebSocket APIs.

Type: Boolean

Required: No

DetailedMetricsEnabled

Indicates whether detailed metrics are enabled.

Type: Boolean

Required: No

LoggingLevel

The logging level. The logging level affects the log entries that are pushed to CloudWatch Logs. Supported only for WebSocket APIs.

If the logging level is `ERROR`, then the logs only include error-level entries.

If the logging level is `INFO`, then the logs include both `ERROR` events and extra informational events.

Valid values: `OFF` | `ERROR` | `INFO`

Type: String

Pattern: `.*\S.*`

Required: No

ThrottlingBurstLimit

The throttling burst limit.

Type: Integer

Required: No

ThrottlingRateLimit

The throttling rate limit.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsApiGatewayV2StageDetails

Contains information about a version 2 stage for Amazon API Gateway.

Contents

AccessLogSettings

Information about settings for logging access for the stage.

Type: AwsApiGatewayAccessLogSettings object

Required: No

ApiGatewayManaged

Indicates whether the stage is managed by API Gateway.

Type: Boolean

Required: No

AutoDeploy

Indicates whether updates to an API automatically trigger a new deployment.

Type: Boolean

Required: No

ClientCertificateId

The identifier of a client certificate for a stage. Supported only for WebSocket API calls.

Type: String

Pattern: `.*\S.*`

Required: No

CreatedDate

Indicates when the stage was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

DefaultRouteSettings

Default route settings for the stage.

Type: AwsApiGatewayV2RouteSettings object

Required: No

DeploymentId

The identifier of the deployment that the stage is associated with.

Type: String

Pattern: `.*\S.*`

Required: No

Description

The description of the stage.

Type: String

Pattern: `.*\S.*`

Required: No

LastDeploymentStatusMessage

The status of the last deployment of a stage. Supported only if the stage has automatic deployment enabled.

Type: String

Pattern: `.*\S.*`

Required: No

LastUpdatedDate

Indicates when the stage was most recently updated.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

RouteSettings

The route settings for the stage.

Type: AwsApiGatewayV2RouteSettings object

Required: No

StageName

The name of the stage.

Type: String

Pattern: `.*\S.*`

Required: No

StageVariables

A map that defines the stage variables for the stage.

Variable names can have alphanumeric and underscore characters.

Variable values can contain the following characters:

- Uppercase and lowercase letters
- Numbers
- Special characters -._~:/?#&=,

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCorsConfiguration

Contains the cross-origin resource sharing (CORS) configuration for the API. CORS is only supported for HTTP APIs.

Contents

AllowCredentials

Indicates whether the CORS request includes credentials.

Type: Boolean

Required: No

AllowHeaders

The allowed headers for CORS requests.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

AllowMethods

The allowed methods for CORS requests.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

AllowOrigins

The allowed origins for CORS requests.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

ExposeHeaders

The exposed headers for CORS requests.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

MaxAge

The number of seconds for which the browser caches preflight request results.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AWS AppSync objects

AWS AppSync objects

- AwsAppSyncGraphQlApiDetails
- AwsAppSyncGraphQlApiAdditionalAuthenticationProvidersDetails
- AwsAppSyncGraphQlApiLambdaAuthorizerConfigDetails
- AwsAppSyncGraphQlApiLogConfigDetails
- AwsAppSyncGraphQlApiOpenIdConnectConfigDetails
- AwsAppSyncGraphQlApiUserPoolConfigDetails

AwsAppSyncGraphQlApiDetails

Provides details about an AWS AppSync Graph QL API, which lets you query multiple databases, microservices, and APIs from a single GraphQL endpoint.

Contents

AdditionalAuthenticationProviders

A list of additional authentication providers for the GraphQL API.

Type: Array of AwsAppSyncGraphQlApiAdditionalAuthenticationProvidersDetails objects

Required: No

ApiId

The unique identifier for the API.

Type: String

Pattern: `.*\S.*`

Required: No

Arn

The Amazon Resource Name (ARN) of the API.

Type: String

Pattern: `.*\S.*`

Required: No

AuthenticationType

The type of security configuration for your GraphQL API: API key, AWS Identity and Access Management (IAM), OpenID Connect (OIDC), Amazon Cognito user pools, or AWS Lambda.

Type: String

Pattern: `.*\S.*`

Required: No

Id

The unique identifier for the API.

Type: String

Pattern: `.*\S.*`

Required: No

LambdaAuthorizerConfig

Specifies the configuration for AWS Lambda function authorization.

Type: AwsAppSyncGraphQlApiLambdaAuthorizerConfigDetails object

Required: No

LogConfig

The Amazon CloudWatch Logs configuration.

Type: AwsAppSyncGraphQlApiLogConfigDetails object

Required: No

Name

The API name.

Type: String

Pattern: `.*\S.*`

Required: No

OpenIdConnectConfig

Specifies the authorization configuration for using an OpenID Connect compliant service with an AWS AppSync GraphQL API endpoint.

Type: AwsAppSyncGraphQlApiOpenIdConnectConfigDetails object

Required: No

UserPoolConfig

The Amazon Cognito user pools configuration.

Type: AwsAppSyncGraphQlApiUserPoolConfigDetails object

Required: No

WafWebAclArn

The Amazon Resource Name (ARN) of the AWS WAF web access control list (web ACL) associated with this GraphQL API, if one exists.

Type: String

Pattern: `.*\S.*`

Required: No

XrayEnabled

Indicates whether to use AWS X-Ray tracing for the GraphQL API.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAppSyncGraphQlApiAdditionalAuthenticationProvidersDetails

A list of additional authentication providers for the GraphqlApi API.

Contents

AuthenticationType

The type of security configuration for your GraphQL API: API key, AWS Identity and Access Management (IAM), OpenID Connect (OIDC), Amazon Cognito user pools, or AWS Lambda.

Type: String

Pattern: `.*\S.*`

Required: No

LambdaAuthorizerConfig

The configuration for Lambda function authorization.

Type: AwsAppSyncGraphQlApiLambdaAuthorizerConfigDetails object

Required: No

OpenIdConnectConfig

The OpenID Connect configuration.

Type: AwsAppSyncGraphQlApiOpenIdConnectConfigDetails object

Required: No

UserPoolConfig

The Amazon Cognito user pools configuration.

Type: AwsAppSyncGraphQlApiUserPoolConfigDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAppSyncGraphQlApiLambdaAuthorizerConfigDetails

Specifies the authorization configuration for using an Lambda function with your AWS AppSync GraphQL API endpoint.

Contents

AuthorizerResultTtlInSeconds

The number of seconds a response should be cached for. The default is 5 minutes (300 seconds).

Type: Integer

Required: No

AuthorizerUri

The Amazon Resource Name (ARN) of the Lambda function to be called for authorization. This can be a standard Lambda ARN, a version ARN (.../v3), or an alias ARN.

Type: String

Pattern: `.*\S.*`

Required: No

IdentityValidationExpression

A regular expression for validation of tokens before the Lambda function is called.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAppSyncGraphQlApiLogConfigDetails

Specifies the logging configuration when writing GraphQL operations and tracing to Amazon CloudWatch for an AWS AppSync GraphQL API.

Contents

CloudWatchLogsRoleArn

The Amazon Resource Name (ARN) of the service role that AWS AppSync assumes to publish to CloudWatch Logs in your account.

Type: String

Pattern: `.*\S.*`

Required: No

ExcludeVerboseContent

Set to TRUE to exclude sections that contain information such as headers, context, and evaluated mapping templates, regardless of logging level.

Type: Boolean

Required: No

FieldLogLevel

The field logging level.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAppSyncGraphQlApiOpenIdConnectConfigDetails

Specifies the authorization configuration for using an OpenID Connect compliant service with your AWS AppSync GraphQL API endpoint.

Contents

AuthTtL

The number of milliseconds that a token is valid after being authenticated.

Type: Long

Required: No

ClientId

The client identifier of the relying party at the OpenID identity provider. This identifier is typically obtained when the relying party is registered with the OpenID identity provider. You can specify a regular expression so that AWS AppSync can validate against multiple client identifiers at a time.

Type: String

Pattern: `.*\S.*`

Required: No

IatTtL

The number of milliseconds that a token is valid after it's issued to a user.

Type: Long

Required: No

Issuer

The issuer for the OIDC configuration. The issuer returned by discovery must exactly match the value of `iss` in the ID token.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAppSyncGraphQlApiUserPoolConfigDetails

Specifies the authorization configuration for using Amazon Cognito user pools with your AWS AppSync GraphQL API endpoint.

Contents

AppIdClientRegex

A regular expression for validating the incoming Amazon Cognito user pools app client ID. If this value isn't set, no filtering is applied.

Type: String

Pattern: `.*\S.*`

Required: No

AwsRegion

The AWS Region in which the user pool was created.

Type: String

Pattern: `.*\S.*`

Required: No

DefaultAction

The action that you want your GraphQL API to take when a request that uses Amazon Cognito user pools authentication doesn't match the Amazon Cognito user pools configuration.

Type: String

Pattern: `.*\S.*`

Required: No

UserPoolId

The user pool ID.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon Athena objects

Amazon Athena objects

- AwsAthenaWorkGroupConfigurationDetails
- AwsAthenaWorkGroupConfigurationResultConfigurationDetails
- AwsAthenaWorkGroupConfigurationResultConfigurationEncryptionConfigurationDetails
- AwsAthenaWorkGroupDetails

AwsAthenaWorkGroupConfigurationDetails

The configuration of the workgroup, which includes the location in Amazon Simple Storage Service (Amazon S3) where query results are stored, the encryption option, if any, used for query results, whether Amazon CloudWatch metrics are enabled for the workgroup, and the limit for the amount of bytes scanned (cutoff) per query, if it is specified.

Contents

ResultConfiguration

The location in Amazon S3 where query and calculation results are stored and the encryption option, if any, used for query and calculation results. These are known as client-side settings. If workgroup settings override client-side settings, then the query uses the workgroup settings.

Type: AwsAthenaWorkGroupConfigurationResultConfigurationDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAthenaWorkGroupConfigurationResultConfigurationDetails

The location in Amazon Simple Storage Service (Amazon S3) where query and calculation results are stored and the encryption option, if any, used for query and calculation results. These are known as client-side settings. If workgroup settings override client-side settings, then the query uses the workgroup settings.

Contents

EncryptionConfiguration

Specifies the method used to encrypt the user's data stores in the Athena workgroup.

Type: AwsAthenaWorkGroupConfigurationResultConfigurationEncryptionConfigurationDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAthenaWorkGroupConfigurationResultConfigurationEncryptionConfigurationDetail

Specifies the method used to encrypt the user's data stores in the Athena workgroup.

Contents

EncryptionOption

Indicates whether Amazon Simple Storage Service (Amazon S3) server-side encryption with Amazon S3 managed keys (SSE_S3), server-side encryption with AWS KMS keys (SSE_KMS), or client-side encryption with AWS KMS customer managed keys (CSE_KMS) is used.

Type: String

Pattern: `.*\S.*`

Required: No

KmsKey

For `SSE_KMS` and `CSE_KMS`, this is the KMS key Amazon Resource Name (ARN) or ID.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAthenaWorkGroupDetails

Provides information about an Amazon Athena workgroup.

Contents

Configuration

The configuration of the workgroup, which includes the location in Amazon Simple Storage Service (Amazon S3) where query results are stored, the encryption option, if any, used for query results, whether Amazon CloudWatch metrics are enabled for the workgroup, and the limit for the amount of bytes scanned (cutoff) per query, if it is specified.

Type: AwsAthenaWorkGroupConfigurationDetails object

Required: No

Description

The workgroup description.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The workgroup name.

Type: String

Pattern: `.*\S.*`

Required: No

State

Whether the workgroup is enabled or disabled.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AWS Backup

AWS Backup objects

- AwsBackupBackupPlanAdvancedBackupSettingsDetails
- AwsBackupBackupPlanBackupPlanDetails
- AwsBackupBackupPlanDetails
- AwsBackupBackupPlanLifecycleDetails
- AwsBackupBackupPlanRuleCopyActionsDetails
- AwsBackupBackupPlanRuleDetails
- AwsBackupBackupVaultDetails
- AwsBackupBackupVaultNotificationsDetails
- AwsBackupRecoveryPointCalculatedLifecycleDetails
- AwsBackupRecoveryPointCreatedByDetails
- AwsBackupRecoveryPointDetails
- AwsBackupRecoveryPointLifecycleDetails

AwsBackupBackupPlanAdvancedBackupSettingsDetails

Provides a list of backup options for each resource type.

Contents

BackupOptions

Specifies the backup option for a selected resource. This option is only available for Windows Volume Shadow Copy Service (VSS) backup jobs. Valid values are as follows:

- Set to `WindowsVSS: enabled` to enable the WindowsVSS backup option and create a Windows VSS backup.
- Set to `WindowsVSS: disabled` to create a regular backup. The `WindowsVSS` option is not enabled by default.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

ResourceType

The name of a resource type. The only supported resource type is Amazon EC2 instances with Windows VSS.

The only valid value is `EC2`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsBackupBackupPlanBackupPlanDetails

Provides details about an AWS Backup backup plan and an array of `BackupRule` objects, each of which specifies a backup rule.

Contents

AdvancedBackupSettings

A list of backup options for each resource type.

Type: Array of AwsBackupBackupPlanAdvancedBackupSettingsDetails objects

Required: No

BackupPlanName

The display name of a backup plan.

Type: String

Pattern: `.*\S.*`

Required: No

BackupPlanRule

An array of `BackupRule` objects, each of which specifies a scheduled task that is used to back up a selection of resources.

Type: Array of AwsBackupBackupPlanRuleDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsBackupBackupPlanDetails

Provides details about an AWS Backup backup plan and an array of `BackupRule` objects, each of which specifies a backup rule.

Contents

BackupPlan

Uniquely identifies the backup plan to be associated with the selection of resources.

Type: AwsBackupBackupPlanBackupPlanDetails object

Required: No

BackupPlanArn

An Amazon Resource Name (ARN) that uniquely identifies the backup plan.

Type: String

Pattern: `.*\S.*`

Required: No

BackupPlanId

A unique ID for the backup plan.

Type: String

Pattern: `.*\S.*`

Required: No

VersionId

Unique, randomly generated, Unicode, UTF-8 encoded strings. Version IDs cannot be edited.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsBackupBackupPlanLifecycleDetails

Provides lifecycle details for the backup plan. A lifecycle defines when a backup is transitioned to cold storage and when it expires.

Contents

DeleteAfterDays

Specifies the number of days after creation that a recovery point is deleted. Must be greater than 90 days plus `MoveToColdStorageAfterDays`.

Type: Long

Required: No

MoveToColdStorageAfterDays

Specifies the number of days after creation that a recovery point is moved to cold storage.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsBackupBackupPlanRuleCopyActionsDetails

An array of `CopyAction` objects, each of which contains details of the copy operation.

Contents

DestinationBackupVaultArn

An Amazon Resource Name (ARN) that uniquely identifies the destination backup vault for the copied backup.

Type: String

Pattern: `.*\S.*`

Required: No

Lifecycle

Defines when a protected resource is transitioned to cold storage and when it expires. AWS Backup transitions and expires backups automatically according to the lifecycle that you define. If you don't specify a lifecycle, AWS Backup applies the lifecycle policy of the source backup to the destination backup.

Backups transitioned to cold storage must be stored in cold storage for a minimum of 90 days.

Type: AwsBackupBackupPlanLifecycleDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsBackupBackupPlanRuleDetails

Provides details about an array of `BackupRule` objects, each of which specifies a scheduled task that is used to back up a selection of resources.

Contents

CompletionWindowMinutes

A value in minutes after a backup job is successfully started before it must be completed, or it is canceled by AWS Backup.

Type: Long

Required: No

CopyActions

An array of `CopyAction` objects, each of which contains details of the copy operation.

Type: Array of AwsBackupBackupPlanRuleCopyActionsDetails objects

Required: No

EnableContinuousBackup

Specifies whether AWS Backup creates continuous backups capable of point-in-time restore (PITR).

Type: Boolean

Required: No

Lifecycle

Defines when a protected resource is transitioned to cold storage and when it expires. AWS Backup transitions and expires backups automatically according to the lifecycle that you define. If you don't specify a lifecycle, AWS Backup applies the lifecycle policy of the source backup to the destination backup.

Backups transitioned to cold storage must be stored in cold storage for a minimum of 90 days.

Type: AwsBackupBackupPlanLifecycleDetails object

Required: No

RuleId

Uniquely identifies a rule that is used to schedule the backup of a selection of resources.

Type: String

Pattern: `.*\S.*`

Required: No

RuleName

A display name for a backup rule. Must contain 1 to 50 alphanumeric or '-_.' characters.

Type: String

Pattern: `.*\S.*`

Required: No

ScheduleExpression

A cron expression in UTC specifying when AWS Backup initiates a backup job.

Type: String

Pattern: `.*\S.*`

Required: No

StartWindowMinutes

A value in minutes after a backup is scheduled before a job will be canceled if it doesn't start successfully.

Type: Long

Required: No

TargetBackupVault

The name of a logical container where backups are stored. Backup vaults are identified by names that are unique to the AWS account used to create them and the AWS Region where they are created. They consist of letters, numbers, and hyphens.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsBackupBackupVaultDetails

Provides details about an AWS Backup backup vault. In AWS Backup, a backup vault is a container that stores and organizes your backups.

Contents

AccessPolicy

A resource-based policy that is used to manage access permissions on the target backup vault.

Type: String

Pattern: `.*\S.*`

Required: No

BackupVaultArn

An Amazon Resource Name (ARN) that uniquely identifies a backup vault.

Type: String

Pattern: `.*\S.*`

Required: No

BackupVaultName

The name of a logical container where backups are stored. Backup vaults are identified by names that are unique to the AWS account used to create them and the AWS Region where they are created. They consist of lowercase letters, numbers, and hyphens.

Type: String

Pattern: `.*\S.*`

Required: No

EncryptionKeyArn

The unique ARN associated with the server-side encryption key. You can specify a key to encrypt your backups from services that support full AWS Backup management. If you don't specify a key, AWS Backup creates an AWS KMS key for you by default.

Type: String

Pattern: `.*\S.*`

Required: No

Notifications

The Amazon SNS event notifications for the specified backup vault.

Type: AwsBackupBackupVaultNotificationsDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsBackupBackupVaultNotificationsDetails

Provides details about the Amazon SNS event notifications for the specified backup vault.

Contents

BackupVaultEvents

An array of events that indicate the status of jobs to back up resources to the backup vault. The following events are supported:

- `BACKUP_JOB_STARTED | BACKUP_JOB_COMPLETED`
- `COPY_JOB_STARTED | COPY_JOB_SUCCESSFUL | COPY_JOB_FAILED`
- `RESTORE_JOB_STARTED | RESTORE_JOB_COMPLETED | RECOVERY_POINT_MODIFIED`
- `S3_BACKUP_OBJECT_FAILED | S3_RESTORE_OBJECT_FAILED`

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SnsTopicArn

The Amazon Resource Name (ARN) that uniquely identifies the Amazon SNS topic for a backup vault's events.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsBackupRecoveryPointCalculatedLifecycleDetails

Specifies how long in days before a recovery point transitions to cold storage or is deleted.

Contents

DeleteAt

Specifies the number of days after creation that a recovery point is deleted. Must be greater than 90 days plus `MoveToColdStorageAfterDays`.

Type: String

Pattern: `.*\S.*`

Required: No

MoveToColdStorageAt

Specifies the number of days after creation that a recovery point is moved to cold storage.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsBackupRecoveryPointCreatedByDetails

Contains information about the backup plan and rule that AWS Backup used to initiate the recovery point backup.

Contents

BackupPlanArn

An Amazon Resource Name (ARN) that uniquely identifies a backup plan.

Type: String

Pattern: `.*\S.*`

Required: No

BackupPlanId

Uniquely identifies a backup plan.

Type: String

Pattern: `.*\S.*`

Required: No

BackupPlanVersion

Unique, randomly generated, Unicode, UTF-8 encoded strings that are at most 1,024 bytes long. Version IDs cannot be edited.

Type: String

Pattern: `.*\S.*`

Required: No

BackupRuleId

Uniquely identifies a rule used to schedule the backup of a selection of resources.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsBackupRecoveryPointDetails

Contains detailed information about the recovery points stored in an AWS Backup backup vault. A backup, or recovery point, represents the content of a resource at a specified time.

Contents

BackupSizeInBytes

The size, in bytes, of a backup.

Type: Long

Required: No

BackupVaultArn

An Amazon Resource Name (ARN) that uniquely identifies a backup vault.

Type: String

Pattern: `.*\S.*`

Required: No

BackupVaultName

The name of a logical container where backups are stored. Backup vaults are identified by names that are unique to the AWS account used to create them and the AWS Region where they are created. They consist of lowercase letters, numbers, and hyphens.

Type: String

Pattern: `.*\S.*`

Required: No

CalculatedLifecycle

A `CalculatedLifecycle` object containing `DeleteAt` and `MoveToColdStorageAt` timestamps.

Type: AwsBackupRecoveryPointCalculatedLifecycleDetails object

Required: No

CompletionDate

The date and time that a job to create a recovery point is completed, in Unix format and UTC. The value of `CompletionDate` is accurate to milliseconds. For example, the value 1516925490.087 represents Friday, January 26, 2018 12:11:30.087 AM.

Type: String

Pattern: `.*\S.*`

Required: No

CreatedBy

Contains identifying information about the creation of a recovery point, including the `BackupPlanArn`, `BackupPlanId`, `BackupPlanVersion`, and `BackupRuleId` of the backup plan that is used to create it.

Type: AwsBackupRecoveryPointCreatedByDetails object

Required: No

CreationDate

The date and time a recovery point is created, in Unix format and UTC. The value of `CreationDate` is accurate to milliseconds. For example, the value 1516925490.087 represents Friday, January 26, 2018 12:11:30.087 AM.

Type: String

Pattern: `.*\S.*`

Required: No

EncryptionKeyArn

The ARN for the server-side encryption key that is used to protect your backups.

Type: String

Pattern: `.*\S.*`

Required: No

IamRoleArn

Specifies the IAM role ARN used to create the target recovery point

Type: String

Pattern: `.*\S.*`

Required: No

IsEncrypted

A Boolean value that is returned as `TRUE` if the specified recovery point is encrypted, or `FALSE` if the recovery point is not encrypted.

Type: Boolean

Required: No

LastRestoreTime

The date and time that a recovery point was last restored, in Unix format and UTC. The value of `LastRestoreTime` is accurate to milliseconds. For example, the value 1516925490.087 represents Friday, January 26, 2018 12:11:30.087 AM.

Type: String

Pattern: `.*\S.*`

Required: No

Lifecycle

The lifecycle defines when a protected resource is transitioned to cold storage and when it expires. AWS Backup transitions and expires backups automatically according to the lifecycle that you define

Type: AwsBackupRecoveryPointLifecycleDetails object

Required: No

RecoveryPointArn

An ARN that uniquely identifies a recovery point.

Type: String

Pattern: `.*\S.*`

Required: No

ResourceArn

An ARN that uniquely identifies a resource. The format of the ARN depends on the resource type.

Type: String

Pattern: `.*\S.*`

Required: No

ResourceType

The type of AWS resource saved as a recovery point, such as an Amazon EBS volume or an Amazon RDS database.

Type: String

Pattern: `.*\S.*`

Required: No

SourceBackupVaultArn

The ARN for the backup vault where the recovery point was originally copied from. If the recovery point is restored to the same account, this value will be null.

Type: String

Pattern: `.*\S.*`

Required: No

Status

A status code specifying the state of the recovery point. Valid values are as follows:

- `COMPLETED`
- `DELETING`
- `EXPIRED`
- `PARTIAL`

Type: String

Pattern: `.*\S.*`

Required: No

StatusMessage

A message explaining the reason of the recovery point deletion failure.

Type: String

Pattern: `.*\S.*`

Required: No

StorageClass

Specifies the storage class of the recovery point. Valid values are as follows:

- `COLD`
- `DELETED`
- `WARM`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsBackupRecoveryPointLifecycleDetails

Contains an array of Transition objects specifying how long in days before a recovery point transitions to cold storage or is deleted.

Contents

DeleteAfterDays

Specifies the number of days after creation that a recovery point is deleted. Must be greater than 90 days plus `MoveToColdStorageAfterDays`.

Type: Long

Required: No

MoveToColdStorageAfterDays

Specifies the number of days after creation that a recovery point is moved to cold storage.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ACM objects

AWS Certificate Manager (ACM) objects

- AwsCertificateManagerCertificateDetails
- AwsCertificateManagerCertificateDomainValidationOption
- AwsCertificateManagerCertificateExtendedKeyUsage

- AwsCertificateManagerCertificateKeyUsage
- AwsCertificateManagerCertificateOptions
- AwsCertificateManagerCertificateRenewalSummary
- AwsCertificateManagerCertificateResourceRecord

AwsCertificateManagerCertificateDetails

Provides details about an AWS Certificate Manager certificate.

Contents

CertificateAuthorityArn

The ARN of the private certificate authority (CA) that will be used to issue the certificate.

Type: String

Pattern: `.*\S.*`

Required: No

CreatedAt

Indicates when the certificate was requested.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

DomainName

The fully qualified domain name (FQDN), such as www.example.com, that is secured by the certificate.

Type: String

Pattern: `.*\S.*`

Required: No

DomainValidationOptions

Contains information about the initial validation of each domain name that occurs as a result of the `RequestCertificate` request.

Only provided if the certificate type is `AMAZON_ISSUED`.

Type: Array of AwsCertificateManagerCertificateDomainValidationOption objects

Required: No

ExtendedKeyUsages

Contains a list of Extended Key Usage X.509 v3 extension objects. Each object specifies a purpose for which the certificate public key can be used and consists of a name and an object identifier (OID).

Type: Array of AwsCertificateManagerCertificateExtendedKeyUsage objects

Required: No

FailureReason

For a failed certificate request, the reason for the failure.

Valid values: `NO_AVAILABLE_CONTACTS` | `ADDITIONAL_VERIFICATION_REQUIRED` | `DOMAIN_NOT_ALLOWED` | `INVALID_PUBLIC_DOMAIN` | `DOMAIN_VALIDATION_DENIED` | `CAA_ERROR` | `PCA_LIMIT_EXCEEDED` | `PCA_INVALID_ARN` | `PCA_INVALID_STATE` | `PCA_REQUEST_FAILED` | `PCA_NAME_CONSTRAINTS_VALIDATION` | `PCA_RESOURCE_NOT_FOUND` | `PCA_INVALID_ARGS` | `PCA_INVALID_DURATION` | `PCA_ACCESS_DENIED` | `SLR_NOT_FOUND` | `OTHER`

Type: String

Pattern: `.*\S.*`

Required: No

ImportedAt

Indicates when the certificate was imported. Provided if the certificate type is `IMPORTED`.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

InUseBy

The list of ARNs for the AWS resources that use the certificate.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

IssuedAt

Indicates when the certificate was issued. Provided if the certificate type is `AMAZON_ISSUED`.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Issuer

The name of the certificate authority that issued and signed the certificate.

Type: String

Pattern: `.*\S.*`

Required: No

KeyAlgorithm

The algorithm that was used to generate the public-private key pair.

Valid values: `RSA_2048` | `RSA_1024` | `RSA_4096` | `EC_prime256v1` | `EC_secp384r1` | `EC_secp521r1`

Type: String

Pattern: `.*\S.*`

Required: No

KeyUsages

A list of key usage X.509 v3 extension objects.

Type: Array of AwsCertificateManagerCertificateKeyUsage objects

Required: No

NotAfter

The time after which the certificate becomes invalid.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

NotBefore

The time before which the certificate is not valid.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Options

Provides a value that specifies whether to add the certificate to a transparency log.

Type: AwsCertificateManagerCertificateOptions object

Required: No

RenewalEligibility

Whether the certificate is eligible for renewal.

Valid values: `ELIGIBLE` | `INELIGIBLE`

Type: String

Pattern: `.*\S.*`

Required: No

RenewalSummary

Information about the status of the AWS Certificate Manager managed renewal for the certificate. Provided only when the certificate type is `AMAZON_ISSUED`.

Type: AwsCertificateManagerCertificateRenewalSummary object

Required: No

Serial

The serial number of the certificate.

Type: String

Pattern: `.*\S.*`

Required: No

SignatureAlgorithm

The algorithm that was used to sign the certificate.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The status of the certificate.

Valid values: `PENDING_VALIDATION` | `ISSUED` | `INACTIVE` | `EXPIRED` | `VALIDATION_TIMED_OUT` | `REVOKED` | `FAILED`

Type: String

Pattern: `.*\S.*`

Required: No

Subject

The name of the entity that is associated with the public key contained in the certificate.

Type: String

Pattern: `.*\S.*`

Required: No

SubjectAlternativeNames

One or more domain names (subject alternative names) included in the certificate. This list contains the domain names that are bound to the public key that is contained in the certificate.

The subject alternative names include the canonical domain name (CN) of the certificate and additional domain names that can be used to connect to the website.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Type

The source of the certificate. For certificates that AWS Certificate Manager provides, `Type` is `AMAZON_ISSUED`. For certificates that are imported with `ImportCertificate`, `Type` is `IMPORTED`.

Valid values: `IMPORTED` | `AMAZON_ISSUED` | `PRIVATE`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCertificateManagerCertificateDomainValidationOption

Contains information about one of the following:

- The initial validation of each domain name that occurs as a result of the `RequestCertificate` request
- The validation of each domain name in the certificate, as it pertains to AWS Certificate Manager managed renewal

Contents

DomainName

A fully qualified domain name (FQDN) in the certificate.

Type: String

Pattern: `.*\S.*`

Required: No

ResourceRecord

The CNAME record that is added to the DNS database for domain validation.

Type: AwsCertificateManagerCertificateResourceRecord object

Required: No

ValidationDomain

The domain name that AWS Certificate Manager uses to send domain validation emails.

Type: String

Pattern: `.*\S.*`

Required: No

ValidationEmails

A list of email addresses that AWS Certificate Manager uses to send domain validation emails.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

ValidationMethod

The method used to validate the domain name.

Type: String

Pattern: `.*\S.*`

Required: No

ValidationStatus

The validation status of the domain name.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCertificateManagerCertificateExtendedKeyUsage

Contains information about an extended key usage X.509 v3 extension object.

Contents

Name

The name of an extension value. Indicates the purpose for which the certificate public key can be used.

Type: String

Pattern: `.*\S.*`

Required: No

OId

An object identifier (OID) for the extension value.

The format is numbers separated by periods.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCertificateManagerCertificateKeyUsage

Contains information about a key usage X.509 v3 extension object.

Contents

Name

The key usage extension name.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCertificateManagerCertificateOptions

Contains other options for the certificate.

Contents

CertificateTransparencyLoggingPreference

Whether to add the certificate to a transparency log.

Valid values: `DISABLED` | `ENABLED`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCertificateManagerCertificateRenewalSummary

Contains information about the AWS Certificate Manager managed renewal for an `AMAZON_ISSUED` certificate.

Contents

DomainValidationOptions

Information about the validation of each domain name in the certificate, as it pertains to AWS Certificate Manager managed renewal. Provided only when the certificate type is `AMAZON_ISSUED`.

Type: Array of AwsCertificateManagerCertificateDomainValidationOption objects

Required: No

RenewalStatus

The status of the AWS Certificate Manager managed renewal of the certificate.

Valid values: `PENDING_AUTO_RENEWAL` | `PENDING_VALIDATION` | `SUCCESS` | `FAILED`

Type: String

Pattern: `.*\S.*`

Required: No

RenewalStatusReason

The reason that a renewal request was unsuccessful. This attribute is used only when `RenewalStatus` is `FAILED`.

Valid values: `NO_AVAILABLE_CONTACTS` | `ADDITIONAL_VERIFICATION_REQUIRED` | `DOMAIN_NOT_ALLOWED` | `INVALID_PUBLIC_DOMAIN` | `DOMAIN_VALIDATION_DENIED` | `CAA_ERROR` | `PCA_LIMIT_EXCEEDED` | `PCA_INVALID_ARN` | `PCA_INVALID_STATE` | `PCA_REQUEST_FAILED` | `PCA_NAME_CONSTRAINTS_VALIDATION` | `PCA_RESOURCE_NOT_FOUND` | `PCA_INVALID_ARGS` | `PCA_INVALID_DURATION` | `PCA_ACCESS_DENIED` | `SLR_NOT_FOUND` | `OTHER`

Type: String

Pattern: `.*\S.*`

Required: No

UpdatedAt

Indicates when the renewal summary was last updated.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCertificateManagerCertificateResourceRecord

Provides details about the CNAME record that is added to the DNS database for domain validation.

Contents

Name

The name of the resource.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of resource.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The value of the resource.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AWS CloudFormation

AWS CloudFormation objects

- AwsCloudFormationStackDetails
- AwsCloudFormationStackDriftInformationDetails
- AwsCloudFormationStackOutputsDetails

AwsCloudFormationStackDetails

Nests a stack as a resource in a top-level template. Nested stacks are stacks created as resources for another stack.

Contents

Capabilities

The capabilities allowed in the stack.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

CreationTime

The time at which the stack was created.

Type: String

Pattern: `.*\S.*`

Required: No

Description

A user-defined description associated with the stack.

Type: String

Pattern: `.*\S.*`

Required: No

DisableRollback

Boolean to enable or disable rollback on stack creation failures.

Type: Boolean

Required: No

DriftInformation

Information about whether a stack's actual configuration differs, or has drifted, from its expected configuration, as defined in the stack template and any values specified as template parameters.

Type: AwsCloudFormationStackDriftInformationDetails object

Required: No

EnableTerminationProtection

Whether termination protection is enabled for the stack.

Type: Boolean

Required: No

LastUpdatedTime

The time the nested stack was last updated. This field will only be returned if the stack has been updated at least once.

Type: String

Pattern: `.*\S.*`

Required: No

NotificationArns

The Amazon Resource Names (ARNs) of the Amazon SNS topic to which stack-related events are published.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Outputs

A list of output structures.

Type: Array of AwsCloudFormationStackOutputsDetails objects

Required: No

RoleArn

The ARN of an IAM role that's associated with the stack.

Type: String

Pattern: `.*\S.*`

Required: No

StackId

Unique identifier of the stack.

Type: String

Pattern: `.*\S.*`

Required: No

StackName

The name associated with the stack.

Type: String

Pattern: `.*\S.*`

Required: No

StackStatus

Current status of the stack.

Type: String

Pattern: `.*\S.*`

Required: No

StackStatusReason

Success or failure message associated with the stack status.

Type: String

Pattern: `.*\S.*`

Required: No

TimeoutInMinutes

The length of time, in minutes, that CloudFormation waits for the nested stack to reach the `CREATE_COMPLETE` state.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFormationStackDriftInformationDetails

Provides information about the stack's conformity to its expected template configuration.

Contents

StackDriftStatus

Status of the stack's actual configuration compared to its expected template configuration.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFormationStackOutputsDetails

Provides information about the CloudFormation stack output.

Contents

Description

A user-defined description associated with the output.

Type: String

Pattern: `.*\S.*`

Required: No

OutputKey

The key associated with the output.

Type: String

Pattern: `.*\S.*`

Required: No

OutputValue

The value associated with the output.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

Amazon CloudFront

Amazon CloudFront objects

- AwsCloudFrontDistributionCacheBehavior
- AwsCloudFrontDistributionCacheBehaviors
- AwsCloudFrontDistributionDefaultCacheBehavior
- AwsCloudFrontDistributionDetails
- AwsCloudFrontDistributionLogging
- AwsCloudFrontDistributionOriginCustomOriginConfig
- AwsCloudFrontDistributionOriginGroup
- AwsCloudFrontDistributionOriginGroupFailover
- AwsCloudFrontDistributionOriginGroupFailoverStatusCodes
- AwsCloudFrontDistributionOriginGroups
- AwsCloudFrontDistributionOriginItem
- AwsCloudFrontDistributionOrigins
- AwsCloudFrontDistributionOriginS3OriginConfig
- AwsCloudFrontDistributionOriginSslProtocols
- AwsCloudFrontDistributionViewerCertificate

AwsCloudFrontDistributionCacheBehavior

Information about a cache behavior for the distribution.

Contents

ViewerProtocolPolicy

The protocol that viewers can use to access the files in an origin. You can specify the following options:

- `allow-all` - Viewers can use HTTP or HTTPS.
- `redirect-to-https` - CloudFront responds to HTTP requests with an HTTP status code of 301 (Moved Permanently) and the HTTPS URL. The viewer then uses the new URL to resubmit.
- `https-only` - CloudFront responds to HTTP request with an HTTP status code of 403 (Forbidden).

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFrontDistributionCacheBehaviors

Provides information about caching for the CloudFront distribution.

Contents

Items

The cache behaviors for the distribution.

Type: Array of AwsCloudFrontDistributionCacheBehavior objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFrontDistributionDefaultCacheBehavior

Contains information about the default cache configuration for the CloudFront distribution.

Contents

ViewerProtocolPolicy

The protocol that viewers can use to access the files in an origin. You can specify the following options:

- `allow-all` - Viewers can use HTTP or HTTPS.
- `redirect-to-https` - CloudFront responds to HTTP requests with an HTTP status code of 301 (Moved Permanently) and the HTTPS URL. The viewer then uses the new URL to resubmit.
- `https-only` - CloudFront responds to HTTP request with an HTTP status code of 403 (Forbidden).

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFrontDistributionDetails

A CloudFront distribution configuration.

Contents

CacheBehaviors

Provides information about the cache configuration for the distribution.

Type: AwsCloudFrontDistributionCacheBehaviors object

Required: No

DefaultCacheBehavior

The default cache behavior for the configuration.

Type: AwsCloudFrontDistributionDefaultCacheBehavior object

Required: No

DefaultRootObject

The object that CloudFront sends in response to requests from the origin (for example, index.html) when a viewer requests the root URL for the distribution (http://www.example.com) instead of an object in your distribution (http://www.example.com/product-description.html).

Type: String

Pattern: `.*\S.*`

Required: No

DomainName

The domain name corresponding to the distribution.

Type: String

Pattern: `.*\S.*`

Required: No

ETag

The entity tag is a hash of the object.

Type: String

Pattern: `.*\S.*`

Required: No

LastModifiedTime

Indicates when that the distribution was last modified.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Logging

A complex type that controls whether access logs are written for the distribution.

Type: AwsCloudFrontDistributionLogging object

Required: No

OriginGroups

Provides information about the origin groups in the distribution.

Type: AwsCloudFrontDistributionOriginGroups object

Required: No

Origins

A complex type that contains information about origins for this distribution.

Type: AwsCloudFrontDistributionOrigins object

Required: No

Status

Indicates the current status of the distribution.

Type: String

Pattern: `.*\S.*`

Required: No

ViewerCertificate

Provides information about the TLS/SSL configuration that the distribution uses to communicate with viewers.

Type: AwsCloudFrontDistributionViewerCertificate object

Required: No

WebAclId

A unique identifier that specifies the AWS WAF web ACL, if any, to associate with this distribution.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFrontDistributionLogging

A complex type that controls whether access logs are written for the CloudFront distribution.

Contents

Bucket

The S3 bucket to store the access logs in.

Type: String

Pattern: `.*\S.*`

Required: No

Enabled

With this field, you can enable or disable the selected distribution.

Type: Boolean

Required: No

IncludeCookies

Specifies whether you want CloudFront to include cookies in access logs.

Type: Boolean

Required: No

Prefix

An optional string that you want CloudFront to use as a prefix to the access log filenames for this distribution.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFrontDistributionOriginCustomOriginConfig

A custom origin. A custom origin is any origin that is not an Amazon S3 bucket, with one exception. An Amazon S3 bucket that is configured with static website hosting is a custom origin.

Contents

HttpPort

The HTTP port that CloudFront uses to connect to the origin.

Type: Integer

Required: No

HttpsPort

The HTTPS port that CloudFront uses to connect to the origin.

Type: Integer

Required: No

OriginKeepaliveTimeout

Specifies how long, in seconds, CloudFront persists its connection to the origin.

Type: Integer

Required: No

OriginProtocolPolicy

Specifies the protocol (HTTP or HTTPS) that CloudFront uses to connect to the origin.

Type: String

Pattern: `.*\S.*`

Required: No

OriginReadTimeout

Specifies how long, in seconds, CloudFront waits for a response from the origin.

Type: Integer

Required: No

OriginSslProtocols

Specifies the minimum SSL/TLS protocol that CloudFront uses when connecting to your origin over HTTPS.

Type: AwsCloudFrontDistributionOriginSslProtocols object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFrontDistributionOriginGroup

Information about an origin group for the CloudFront distribution.

Contents

FailoverCriteria

Provides the criteria for an origin group to fail over.

Type: AwsCloudFrontDistributionOriginGroupFailover object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFrontDistributionOriginGroupFailover

Provides information about when an origin group fails over.

Contents

StatusCodes

Information about the status codes that cause an origin group to fail over.

Type: AwsCloudFrontDistributionOriginGroupFailoverStatusCodes object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFrontDistributionOriginGroupFailoverStatusCodes

The status codes that cause an origin group to fail over.

Contents

Items

The list of status code values that can cause a failover to the next origin.

Type: Array of integers

Required: No

Quantity

The number of status codes that can cause a failover.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFrontDistributionOriginGroups

Provides information about origin groups that are associated with the CloudFront distribution.

Contents

Items

The list of origin groups.

Type: Array of AwsCloudFrontDistributionOriginGroup objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFrontDistributionOriginItem

A complex type that describes the Amazon S3 bucket, HTTP server (for example, a web server), or other server from which CloudFront gets your files.

Contents

CustomOriginConfig

An origin that is not an Amazon S3 bucket, with one exception. If the Amazon S3 bucket is configured with static website hosting, use this attribute. If the Amazon S3 bucket is not configured with static website hosting, use the `S3OriginConfig` type instead.

Type: AwsCloudFrontDistributionOriginCustomOriginConfig object

Required: No

DomainName

Amazon S3 origins: The DNS name of the S3 bucket from which you want CloudFront to get objects for this origin.

Type: String

Pattern: `.*\S.*`

Required: No

Id

A unique identifier for the origin or origin group.

Type: String

Pattern: `.*\S.*`

Required: No

OriginPath

An optional element that causes CloudFront to request your content from a directory in your Amazon S3 bucket or your custom origin.

Type: String

Pattern: `.*\S.*`

Required: No

S3OriginConfig

An origin that is an S3 bucket that is not configured with static website hosting.

Type: AwsCloudFrontDistributionOriginS3OriginConfig object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFrontDistributionOrigins

A complex type that contains information about origins and origin groups for this CloudFront distribution.

Contents

Items

A complex type that contains origins or origin groups for this distribution.

Type: Array of AwsCloudFrontDistributionOriginItem objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFrontDistributionOriginS3OriginConfig

Information about an origin that is an Amazon S3 bucket that is not configured with static website hosting.

Contents

OriginAccessIdentity

The CloudFront origin access identity to associate with the origin.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFrontDistributionOriginSslProtocols

A complex type that contains information about the SSL/TLS protocols that CloudFront can use when establishing an HTTPS connection with your origin.

Contents

Items

A list that contains allowed SSL/TLS protocols for this distribution.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Quantity

The number of SSL/TLS protocols that you want to allow CloudFront to use when establishing an HTTPS connection with this origin.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudFrontDistributionViewerCertificate

Provides information about the TLS/SSL configuration that the CloudFront distribution uses to communicate with viewers.

Contents

AcmCertificateArn

The ARN of the ACM certificate. Used if the certificate is stored in ACM. If you provide an ACM certificate ARN, you must also provide `MinimumCertificateVersion` and `SslSupportMethod`.

Type: String

Pattern: `.*\S.*`

Required: No

Certificate

The identifier of the certificate. Note that in CloudFront, this attribute is deprecated.

Type: String

Pattern: `.*\S.*`

Required: No

CertificateSource

The source of the certificate identified by `Certificate`. Note that in CloudFront, this attribute is deprecated.

Type: String

Pattern: `.*\S.*`

Required: No

CloudFrontDefaultCertificate

Whether the distribution uses the CloudFront domain name. If set to `false`, then you provide either `AcmCertificateArn` or `IamCertificateId`.

Type: Boolean

Required: No

IamCertificateId

The identifier of the IAM certificate. Used if the certificate is stored in IAM. If you provide `IamCertificateId`, then you also must provide `MinimumProtocolVersion` and `SslSupportMethod`.

Type: String

Pattern: `.*\S.*`

Required: No

MinimumProtocolVersion

The security policy that CloudFront uses for HTTPS connections with viewers. If `SslSupportMethod` is `sni-only`, then `MinimumProtocolVersion` must be `TLSv1` or higher.

Type: String

Pattern: `.*\S.*`

Required: No

SslSupportMethod

The viewers that the distribution accepts HTTPS connections from.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AWS CloudTrail

AWS CloudTrail objects

- AwsCloudTrailTrailDetails

AwsCloudTrailTrailDetails

Provides details about a CloudTrail trail.

Contents

CloudWatchLogsLogGroupArn

The ARN of the log group that CloudTrail logs are delivered to.

Type: String

Pattern: `.*\S.*`

Required: No

CloudWatchLogsRoleArn

The ARN of the role that the CloudWatch Events endpoint assumes when it writes to the log group.

Type: String

Pattern: `.*\S.*`

Required: No

HasCustomEventSelectors

Indicates whether the trail has custom event selectors.

Type: Boolean

Required: No

HomeRegion

The Region where the trail was created.

Type: String

Pattern: `.*\S.*`

Required: No

IncludeGlobalServiceEvents

Indicates whether the trail publishes events from global services such as IAM to the log files.

Type: Boolean

Required: No

IsMultiRegionTrail

Indicates whether the trail applies only to the current Region or to all Regions.

Type: Boolean

Required: No

IsOrganizationTrail

Whether the trail is created for all accounts in an organization in AWS Organizations, or only for the current AWS account.

Type: Boolean

Required: No

KmsKeyId

The AWS KMS key ID to use to encrypt the logs.

Type: String

Pattern: `.*\S.*`

Required: No

LogFileValidationEnabled

Indicates whether CloudTrail log file validation is enabled.

Type: Boolean

Required: No

Name

The name of the trail.

Type: String

Pattern: `.*\S.*`

Required: No

S3BucketName

The name of the S3 bucket where the log files are published.

Type: String

Pattern: `.*\S.*`

Required: No

S3KeyPrefix

The S3 key prefix. The key prefix is added after the name of the S3 bucket where the log files are published.

Type: String

Pattern: `.*\S.*`

Required: No

SnsTopicArn

The ARN of the SNS topic that is used for notifications of log file delivery.

Type: String

Pattern: `.*\S.*`

Required: No

SnsTopicName

The name of the SNS topic that is used for notifications of log file delivery.

Type: String

Pattern: `.*\S.*`

Required: No

TrailArn

The ARN of the trail.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon CloudWatch

Amazon CloudWatch objects

- AwsCloudWatchAlarmDetails
- AwsCloudWatchAlarmDimensionsDetails

AwsCloudWatchAlarmDetails

Specifies an alarm and associates it with the specified metric or metric math expression.

Contents

ActionsEnabled

Indicates whether actions should be executed during any changes to the alarm state.

Type: Boolean

Required: No

AlarmActions

The list of actions, specified as Amazon Resource Names (ARNs) to execute when this alarm transitions into an `ALARM` state from any other state.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

AlarmArn

The ARN of the alarm.

Type: String

Pattern: `.*\S.*`

Required: No

AlarmConfigurationUpdatedTimestamp

The time stamp of the last update to the alarm configuration.

Type: String

Pattern: `.*\S.*`

Required: No

AlarmDescription

The description of the alarm.

Type: String

Pattern: `.*\S.*`

Required: No

AlarmName

The name of the alarm. If you don't specify a name, CloudFront generates a unique physical ID and uses that ID for the alarm name.

Type: String

Pattern: `.*\S.*`

Required: No

ComparisonOperator

The arithmetic operation to use when comparing the specified statistic and threshold. The specified statistic value is used as the first operand.

Type: String

Pattern: `.*\S.*`

Required: No

DatapointsToAlarm

The number of datapoints that must be breaching to trigger the alarm.

Type: Integer

Required: No

Dimensions

The dimensions for the metric associated with the alarm.

Type: Array of AwsCloudWatchAlarmDimensionsDetails objects

Required: No

EvaluateLowSampleCountPercentile

Used only for alarms based on percentiles. If `ignore`, the alarm state does not change during periods with too few data points to be statistically significant. If `evaluate` or this parameter is not used, the alarm is always evaluated and possibly changes state no matter how many data points are available.

Type: String

Pattern: `.*\S.*`

Required: No

EvaluationPeriods

The number of periods over which data is compared to the specified threshold.

Type: Integer

Required: No

ExtendedStatistic

The percentile statistic for the metric associated with the alarm.

Type: String

Pattern: `.*\S.*`

Required: No

InsufficientDataActions

The actions to execute when this alarm transitions to the `INSUFFICIENT_DATA` state from any other state. Each action is specified as an ARN.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

MetricName

The name of the metric associated with the alarm. This is required for an alarm based on a metric. For an alarm based on a math expression, you use `Metrics` instead and you can't specify `MetricName`.

Type: String

Pattern: `.*\S.*`

Required: No

Namespace

The namespace of the metric associated with the alarm. This is required for an alarm based on a metric. For an alarm based on a math expression, you can't specify `Namespace` and you use `Metrics` instead.

Type: String

Pattern: `.*\S.*`

Required: No

OkActions

The actions to execute when this alarm transitions to the `OK` state from any other state. Each action is specified as an ARN.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Period

The period, in seconds, over which the statistic is applied. This is required for an alarm based on a metric.

Type: Integer

Required: No

Statistic

The statistic for the metric associated with the alarm, other than percentile. For percentile statistics, use `ExtendedStatistic`.

For an alarm based on a metric, you must specify either `Statistic` or `ExtendedStatistic` but not both.

For an alarm based on a math expression, you can't specify `Statistic`. Instead, you use `Metrics`.

Type: String

Pattern: `.*\S.*`

Required: No

Threshold

The value to compare with the specified statistic.

Type: Double

Required: No

ThresholdMetricId

n an alarm based on an anomaly detection model, this is the ID of the `ANOMALY_DETECTION_BAND` function used as the threshold for the alarm.

Type: String

Pattern: `.*\S.*`

Required: No

TreatMissingData

Sets how this alarm is to handle missing data points.

Type: String

Pattern: `.*\S.*`

Required: No

Unit

The unit of the metric associated with the alarm.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCloudWatchAlarmDimensionsDetails

Details about the dimensions for the metric associated with the alarm.

Contents

Name

The name of a dimension.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The value of a dimension.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AWS CodeBuild

AWS CodeBuild objects

- AwsCodeBuildProjectArtifactsDetails
- AwsCodeBuildProjectDetails

- AwsCodeBuildProjectEnvironment
- AwsCodeBuildProjectEnvironmentEnvironmentVariablesDetails
- AwsCodeBuildProjectEnvironmentRegistryCredential
- AwsCodeBuildProjectLogsConfigCloudWatchLogsDetails
- AwsCodeBuildProjectLogsConfigDetails
- AwsCodeBuildProjectLogsConfigS3LogsDetails
- AwsCodeBuildProjectSource
- AwsCodeBuildProjectVpcConfig

AwsCodeBuildProjectArtifactsDetails

Information about the build artifacts for the CodeBuild project.

Contents

ArtifactIdentifier

An identifier for the artifact definition.

Type: String

Pattern: `.*\S.*`

Required: No

EncryptionDisabled

Indicates whether to disable encryption on the artifact. Only valid when `Type` is `S3`.

Type: Boolean

Required: No

Location

Only used when `Type` is `S3`. The name of the S3 bucket where the artifact is located.

Type: String

Pattern: `.*\S.*`

Required: No

Name

Only used when Type is S3. The name of the artifact. Used with `NamepaceType` and `Path` to determine the pattern for storing the artifact.

Type: String

Pattern: `.*\S.*`

Required: No

NamespaceType

Only used when `Type` is `S3`. The value to use for the namespace. Used with `Name` and `Path` to determine the pattern for storing the artifact.

Type: String

Pattern: `.*\S.*`

Required: No

OverrideArtifactName

Whether the name specified in the buildspec file overrides the artifact name.

Type: Boolean

Required: No

Packaging

Only used when `Type` is `S3`. The type of output artifact to create.

Type: String

Pattern: `.*\S.*`

Required: No

Path

Only used when `Type` is `S3`. The path to the artifact. Used with `Name` and `NamespaceType` to determine the pattern for storing the artifact.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of build artifact.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCodeBuildProjectDetails

Information about an AWS CodeBuild project.

Contents

Artifacts

Information about the build artifacts for the CodeBuild project.

Type: Array of AwsCodeBuildProjectArtifactsDetails objects

Required: No

EncryptionKey

The AWS KMS key used to encrypt the build output artifacts.

You can specify either the ARN of the KMS key or, if available, the KMS key alias (using the format alias/alias-name).

Type: String

Pattern: `.*\S.*`

Required: No

Environment

Information about the build environment for this build project.

Type: AwsCodeBuildProjectEnvironment object

Required: No

LogsConfig

Information about logs for the build project.

Type: AwsCodeBuildProjectLogsConfigDetails object

Required: No

Name

The name of the build project.

Type: String

Pattern: `.*\S.*`

Required: No

SecondaryArtifacts

Information about the secondary artifacts for the CodeBuild project.

Type: Array of AwsCodeBuildProjectArtifactsDetails objects

Required: No

ServiceRole

The ARN of the IAM role that enables AWS CodeBuild to interact with dependent AWS services on behalf of the AWS account.

Type: String

Pattern: `.*\S.*`

Required: No

Source

Information about the build input source code for this build project.

Type: AwsCodeBuildProjectSource object

Required: No

VpcConfig

Information about the VPC configuration that AWS CodeBuild accesses.

Type: AwsCodeBuildProjectVpcConfig object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCodeBuildProjectEnvironment

Information about the build environment for this build project.

Contents

Certificate

The certificate to use with this build project.

Type: String

Pattern: `.*\S.*`

Required: No

EnvironmentVariables

A set of environment variables to make available to builds for the build project.

Type: Array of AwsCodeBuildProjectEnvironmentEnvironmentVariablesDetails objects

Required: No

ImagePullCredentialsType

The type of credentials AWS CodeBuild uses to pull images in your build.

Valid values:

- `CODEBUILD` specifies that AWS CodeBuild uses its own credentials. This requires that you modify your ECR repository policy to trust the AWS CodeBuild service principal.
- `SERVICE_ROLE` specifies that AWS CodeBuild uses your build project's service role.

When you use a cross-account or private registry image, you must use `SERVICE_ROLE` credentials. When you use an AWS CodeBuild curated image, you must use `CODEBUILD` credentials.

Type: String

Pattern: `.*\S.*`

Required: No

PrivilegedMode

Whether to allow the Docker daemon to run inside a Docker container. Set to `true` if the build project is used to build Docker images.

Type: Boolean

Required: No

RegistryCredential

The credentials for access to a private registry.

Type: AwsCodeBuildProjectEnvironmentRegistryCredential object

Required: No

Type

The type of build environment to use for related builds.

The environment type `ARM_CONTAINER` is available only in Regions US East (N. Virginia), US East (Ohio), US West (Oregon), Europe (Ireland), Asia Pacific (Mumbai), Asia Pacific (Tokyo), Asia Pacific (Sydney), and Europe (Frankfurt).

The environment type `LINUX_CONTAINER` with compute type build.general1.2xlarge is available only in Regions US East (N. Virginia), US East (N. Virginia), US West (Oregon), Canada (Central), Europe (Ireland), Europe (London), Europe (Frankfurt), Asia Pacific (Tokyo), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), China (Beijing), and China (Ningxia).

The environment type `LINUX_GPU_CONTAINER` is available only in Regions US East (N. Virginia), US East (N. Virginia), US West (Oregon), Canada (Central), Europe (Ireland), Europe (London), Europe (Frankfurt), Asia Pacific (Tokyo), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), China (Beijing), and China (Ningxia).

Valid values: `WINDOWS_CONTAINER` | `LINUX_CONTAINER` | `LINUX_GPU_CONTAINER` | `ARM_CONTAINER`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCodeBuildProjectEnvironmentEnvironmentVariablesDetails

Information about an environment variable that is available to builds for the build project.

Contents

Name

The name of the environment variable.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of environment variable.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The value of the environment variable.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsCodeBuildProjectEnvironmentRegistryCredential

The credentials for access to a private registry.

Contents

Credential

The ARN or name of credentials created using AWS Secrets Manager.

> **Note**
>
> The credential can use the name of the credentials only if they exist in your current AWS Region.

Type: String

Pattern: `.*\S.*`

Required: No

CredentialProvider

The service that created the credentials to access a private Docker registry.

The valid value, `SECRETS_MANAGER`, is for AWS Secrets Manager.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCodeBuildProjectLogsConfigCloudWatchLogsDetails

Information about CloudWatch Logs for the build project.

Contents

GroupName

The group name of the logs in CloudWatch Logs.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The current status of the logs in CloudWatch Logs for a build project.

Type: String

Pattern: `.*\S.*`

Required: No

StreamName

The prefix of the stream name of the CloudWatch Logs.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsCodeBuildProjectLogsConfigDetails

Information about logs for the build project.

Contents

CloudWatchLogs

Information about CloudWatch Logs for the build project.

Type: AwsCodeBuildProjectLogsConfigCloudWatchLogsDetails object

Required: No

S3Logs

Information about logs built to an S3 bucket for a build project.

Type: AwsCodeBuildProjectLogsConfigS3LogsDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCodeBuildProjectLogsConfigS3LogsDetails

Information about logs built to an S3 bucket for a build project.

Contents

EncryptionDisabled

Whether to disable encryption of the S3 build log output.

Type: Boolean

Required: No

Location

The ARN of the S3 bucket and the path prefix for S3 logs.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The current status of the S3 build logs.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCodeBuildProjectSource

Information about the build input source code for this build project.

Contents

GitCloneDepth

Information about the Git clone depth for the build project.

Type: Integer

Required: No

InsecureSsl

Whether to ignore SSL warnings while connecting to the project source code.

Type: Boolean

Required: No

Location

Information about the location of the source code to be built.

Valid values include:

- For source code settings that are specified in the source action of a pipeline in AWS CodePipeline, location should not be specified. If it is specified, AWS CodePipeline ignores it. This is because AWS CodePipeline uses the settings in a pipeline's source action instead of this value.
- For source code in an AWS CodeCommit repository, the HTTPS clone URL to the repository that contains the source code and the build spec file (for example, `https://git-codecommit.region-ID.amazonaws.com/v1/repos/repo-name`).
- For source code in an S3 input bucket, one of the following.
  - The path to the ZIP file that contains the source code (for example, `bucket-name/path/to/object-name.zip`).
  - The path to the folder that contains the source code (for example, `bucket-name/path/to/source-code/folder/`).
- For source code in a GitHub repository, the HTTPS clone URL to the repository that contains the source and the build spec file.

- For source code in a Bitbucket repository, the HTTPS clone URL to the repository that contains the source and the build spec file.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of repository that contains the source code to be built. Valid values are:

- `BITBUCKET` - The source code is in a Bitbucket repository.
- `CODECOMMIT` - The source code is in an AWS CodeCommit repository.
- `CODEPIPELINE` - The source code settings are specified in the source action of a pipeline in AWS CodePipeline.
- `GITHUB` - The source code is in a GitHub repository.
- `GITHUB_ENTERPRISE` - The source code is in a GitHub Enterprise repository.
- `NO_SOURCE` - The project does not have input source code.
- `S3` - The source code is in an S3 input bucket.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsCodeBuildProjectVpcConfig

Information about the VPC configuration that AWS CodeBuild accesses.

Contents

SecurityGroupIds

A list of one or more security group IDs in your VPC.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Subnets

A list of one or more subnet IDs in your VPC.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

VpcId

The ID of the VPC.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AWS DMS objects

AWS Database Migration Service (AWS DMS) objects

- AwsDmsEndpointDetails
- AwsDmsReplicationInstanceDetails
- AwsDmsReplicationInstanceReplicationSubnetGroupDetails
- AwsDmsReplicationInstanceVpcSecurityGroupsDetails
- AwsDmsReplicationTaskDetails

AwsDmsEndpointDetails

Provides details about an AWS Database Migration Service (AWS DMS) endpoint. An endpoint provides connection, data store type, and location information about your data store.

Contents

CertificateArn

The Amazon Resource Name (ARN) for the SSL certificate that encrypts connections between the DMS endpoint and the replication instance.

Type: String

Pattern: `.*\S.*`

Required: No

DatabaseName

The name of the endpoint database.

Type: String

Pattern: `.*\S.*`

Required: No

EndpointArn

The Amazon Resource Name (ARN) of the endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

EndpointIdentifier

The database endpoint identifier.

Type: String

Pattern: `.*\S.*`

Required: No

EndpointType

The type of endpoint. Valid values are source and target.

Type: String

Pattern: `.*\S.*`

Required: No

EngineName

The type of engine for the endpoint, depending on the `EndpointType` value.

Type: String

Pattern: `.*\S.*`

Required: No

ExternalId

A value that can be used for cross-account validation.

Type: String

Pattern: `.*\S.*`

Required: No

ExtraConnectionAttributes

Additional attributes associated with the connection.

Type: String

Pattern: `.*\S.*`

Required: No

KmsKeyId

An AWS DMS key identifier that is used to encrypt the connection parameters for the endpoint. If you don't specify a value for the `KmsKeyId` parameter, then AWS DMS uses your default

encryption key. AWS KMS creates the default encryption key for your AWS account. Your AWS account has a different default encryption key for each AWS Region.

Type: String

Pattern: `.*\S.*`

Required: No

Port

The port used to access the endpoint.

Type: Integer

Required: No

ServerName

The name of the server where the endpoint database resides.

Type: String

Pattern: `.*\S.*`

Required: No

SslMode

The SSL mode used to connect to the endpoint. The default is none.

Type: String

Pattern: `.*\S.*`

Required: No

Username

The user name to be used to log in to the endpoint database.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDmsReplicationInstanceDetails

Provides details about an AWS Database Migration Service (AWS DMS) replication instance. DMS uses a replication instance to connect to your source data store, read the source data, and format the data for consumption by the target data store.

Contents

AllocatedStorage

The amount of storage (in gigabytes) that is allocated for the replication instance.

Type: Integer

Required: No

AutoMinorVersionUpgrade

Indicates whether minor engine upgrades are applied automatically to the replication instance during the maintenance window.

Type: Boolean

Required: No

AvailabilityZone

The Availability Zone that the replication instance is created in. The default value is a random, system-chosen Availability Zone in the endpoint's AWS Region, such as `us-east-1d`.

Type: String

Pattern: `.*\S.*`

Required: No

EngineVersion

The engine version number of the replication instance. If an engine version number is not specified when a replication instance is created, the default is the latest engine version available.

Type: String

Pattern: `.*\S.*`

Required: No

KmsKeyId

An AWS KMS key identifier that is used to encrypt the data on the replication instance. If you don't specify a value for the `KmsKeyId` parameter, AWS DMS uses your default encryption key. AWS KMS creates the default encryption key for your AWS account. Your AWS account has a different default encryption key for each AWS Region.

Type: String

Pattern: `.*\S.*`

Required: No

MultiAZ

Specifies whether the replication instance is deployed across multiple Availability Zones (AZs). You can't set the `AvailabilityZone` parameter if the `MultiAZ` parameter is set to `true`.

Type: Boolean

Required: No

PreferredMaintenanceWindow

The maintenance window times for the replication instance. Upgrades to the replication instance are performed during this time.

Type: String

Pattern: `.*\S.*`

Required: No

PubliclyAccessible

Specifies the accessibility options for the replication instance. A value of `true` represents an instance with a public IP address. A value of `false` represents an instance with a private IP address. The default value is `true`.

Type: Boolean

Required: No

ReplicationInstanceClass

The compute and memory capacity of the replication instance as defined for the specified replication instance class.

Type: String

Pattern: `.*\S.*`

Required: No

ReplicationInstanceIdentifier

The replication instance identifier.

Type: String

Pattern: `.*\S.*`

Required: No

ReplicationSubnetGroup

The subnet group for the replication instance.

Type: AwsDmsReplicationInstanceReplicationSubnetGroupDetails object

Required: No

VpcSecurityGroups

The virtual private cloud (VPC) security group for the replication instance.

Type: Array of AwsDmsReplicationInstanceVpcSecurityGroupsDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsDmsReplicationInstanceReplicationSubnetGroupDetails

Provides details about the replication subnet group.

Contents

ReplicationSubnetGroupIdentifier

The identifier of the replication subnet group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDmsReplicationInstanceVpcSecurityGroupsDetails

Provides details about the virtual private cloud (VPC) security group that's associated with the replication instance.

Contents

VpcSecurityGroupId

The identifier of the VPC security group that's associated with the replication instance.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDmsReplicationTaskDetails

Provides details about an AWS Database Migration Service (AWS DMS) replication task. A replication task moves a set of data from the source endpoint to the target endpoint.

Contents

CdcStartPosition

Indicates when you want a change data capture (CDC) operation to start. `CCdcStartPosition` or `CCdcStartTime` specifies when you want a CDC operation to start. Only a value for one of these fields is included.

Type: String

Pattern: `.*\S.*`

Required: No

CdcStartTime

Indicates the start time for a CDC operation. `CdcStartPosition` or `CCdcStartTime` specifies when you want a CDC operation to start. Only a value for one of these fields is included.

Type: String

Pattern: `.*\S.*`

Required: No

CdcStopPosition

Indicates when you want a CDC operation to stop. The value can be either server time or commit time.

Type: String

Pattern: `.*\S.*`

Required: No

Id

The identifier of the replication task.

Type: String

Pattern: `.*\S.*`

Required: No

MigrationType

The migration type.

Type: String

Pattern: `.*\S.*`

Required: No

ReplicationInstanceArn

The Amazon Resource Name (ARN) of a replication instance.

Type: String

Pattern: `.*\S.*`

Required: No

ReplicationTaskIdentifier

The user-defined replication task identifier or name.

Type: String

Pattern: `.*\S.*`

Required: No

ReplicationTaskSettings

The settings for the replication task.

Type: String

Pattern: `.*\S.*`

Required: No

ResourceIdentifier

A display name for the resource identifier at the end of the `EndpointArn` response parameter. If you don't specify a `ResourceIdentifier` value, DMS generates a default identifier value for the end of `EndpointArn`.

Type: String

Pattern: `.*\S.*`

Required: No

SourceEndpointArn

The ARN of the source endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

TableMappings

The table mappings for the replication task, in JSON format.

Type: String

Pattern: `.*\S.*`

Required: No

TargetEndpointArn

The ARN of the target endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

TaskData

Supplemental information that the task requires to migrate the data for certain source and target endpoints.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon DynamoDB

Amazon DynamoDB objects

- AwsDynamoDbTableAttributeDefinition
- AwsDynamoDbTableBillingModeSummary
- AwsDynamoDbTableDetails
- AwsDynamoDbTableGlobalSecondaryIndex
- AwsDynamoDbTableKeySchema
- AwsDynamoDbTableLocalSecondaryIndex
- AwsDynamoDbTableProjection
- AwsDynamoDbTableProvisionedThroughput
- AwsDynamoDbTableProvisionedThroughputOverride
- AwsDynamoDbTableReplica
- AwsDynamoDbTableReplicaGlobalSecondaryIndex
- AwsDynamoDbTableRestoreSummary
- AwsDynamoDbTableSseDescription
- AwsDynamoDbTableStreamSpecification

AwsDynamoDbTableAttributeDefinition

Contains a definition of an attribute for the table.

Contents

AttributeName

The name of the attribute.

Type: String

Pattern: `.*\S.*`

Required: No

AttributeType

The type of the attribute.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDynamoDbTableBillingModeSummary

Provides information about the billing for read/write capacity on the table.

Contents

BillingMode

The method used to charge for read and write throughput and to manage capacity.

Type: String

Pattern: `.*\S.*`

Required: No

LastUpdateToPayPerRequestDateTime

If the billing mode is `PAY_PER_REQUEST`, indicates when the billing mode was set to that value.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDynamoDbTableDetails

Provides details about a DynamoDB table.

Contents

AttributeDefinitions

A list of attribute definitions for the table.

Type: Array of AwsDynamoDbTableAttributeDefinition objects

Required: No

BillingModeSummary

Information about the billing for read/write capacity on the table.

Type: AwsDynamoDbTableBillingModeSummary object

Required: No

CreationDateTime

Indicates when the table was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

DeletionProtectionEnabled

Indicates whether deletion protection is to be enabled (true) or disabled (false) on the table.

Type: Boolean

Required: No

GlobalSecondaryIndexes

List of global secondary indexes for the table.

Type: Array of AwsDynamoDbTableGlobalSecondaryIndex objects

Required: No

GlobalTableVersion

The version of global tables being used.

Type: String

Pattern: `.*\S.*`

Required: No

ItemCount

The number of items in the table.

Type: Integer

Required: No

KeySchema

The primary key structure for the table.

Type: Array of AwsDynamoDbTableKeySchema objects

Required: No

LatestStreamArn

The ARN of the latest stream for the table.

Type: String

Pattern: `.*\S.*`

Required: No

LatestStreamLabel

The label of the latest stream. The label is not a unique identifier.

Type: String

Pattern: `.*\S.*`

Required: No

LocalSecondaryIndexes

The list of local secondary indexes for the table.

Type: Array of AwsDynamoDbTableLocalSecondaryIndex objects

Required: No

ProvisionedThroughput

Information about the provisioned throughput for the table.

Type: AwsDynamoDbTableProvisionedThroughput object

Required: No

Replicas

The list of replicas of this table.

Type: Array of AwsDynamoDbTableReplica objects

Required: No

RestoreSummary

Information about the restore for the table.

Type: AwsDynamoDbTableRestoreSummary object

Required: No

SseDescription

Information about the server-side encryption for the table.

Type: AwsDynamoDbTableSseDescription object

Required: No

StreamSpecification

The current DynamoDB Streams configuration for the table.

Type: AwsDynamoDbTableStreamSpecification object

Required: No

TableId

The identifier of the table.

Type: String

Pattern: `.*\S.*`

Required: No

TableName

The name of the table.

Type: String

Pattern: `.*\S.*`

Required: No

TableSizeBytes

The total size of the table in bytes.

Type: Long

Required: No

TableStatus

The current status of the table. Valid values are as follows:

- `ACTIVE`
- `ARCHIVED`
- `ARCHIVING`
- `CREATING`
- `DELETING`
- `INACCESSIBLE_ENCRYPTION_CREDENTIALS`
- `UPDATING`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDynamoDbTableGlobalSecondaryIndex

Information abut a global secondary index for the table.

Contents

Backfilling

Whether the index is currently backfilling.

Type: Boolean

Required: No

IndexArn

The ARN of the index.

Type: String

Pattern: `.*\S.*`

Required: No

IndexName

The name of the index.

Type: String

Pattern: `.*\S.*`

Required: No

IndexSizeBytes

The total size in bytes of the index.

Type: Long

Required: No

IndexStatus

The current status of the index.

- `ACTIVE`

- `CREATING`
- `DELETING`
- `UPDATING`

Type: String

Pattern: `.*\S.*`

Required: No

ItemCount

The number of items in the index.

Type: Integer

Required: No

KeySchema

The key schema for the index.

Type: Array of AwsDynamoDbTableKeySchema objects

Required: No

Projection

Attributes that are copied from the table into an index.

Type: AwsDynamoDbTableProjection object

Required: No

ProvisionedThroughput

Information about the provisioned throughput settings for the indexes.

Type: AwsDynamoDbTableProvisionedThroughput object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDynamoDbTableKeySchema

A component of the key schema for the DynamoDB table, a global secondary index, or a local secondary index.

Contents

AttributeName

The name of the key schema attribute.

Type: String

Pattern: `.*\S.*`

Required: No

KeyType

The type of key used for the key schema attribute. Valid values are `HASH` or `RANGE`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDynamoDbTableLocalSecondaryIndex

Information about a local secondary index for a DynamoDB table.

Contents

IndexArn

The ARN of the index.

Type: String

Pattern: `.*\S.*`

Required: No

IndexName

The name of the index.

Type: String

Pattern: `.*\S.*`

Required: No

KeySchema

The complete key schema for the index.

Type: Array of AwsDynamoDbTableKeySchema objects

Required: No

Projection

Attributes that are copied from the table into the index. These are in addition to the primary key attributes and index key attributes, which are automatically projected.

Type: AwsDynamoDbTableProjection object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDynamoDbTableProjection

For global and local secondary indexes, identifies the attributes that are copied from the table into the index.

Contents

NonKeyAttributes

The nonkey attributes that are projected into the index. For each attribute, provide the attribute name.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

ProjectionType

The types of attributes that are projected into the index. Valid values are as follows:

- `ALL`
- `INCLUDE`
- `KEYS_ONLY`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDynamoDbTableProvisionedThroughput

Information about the provisioned throughput for the table or for a global secondary index.

Contents

LastDecreaseDateTime

Indicates when the provisioned throughput was last decreased.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

LastIncreaseDateTime

Indicates when the provisioned throughput was last increased.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

NumberOfDecreasesToday

The number of times during the current UTC calendar day that the provisioned throughput was decreased.

Type: Integer

Required: No

ReadCapacityUnits

The maximum number of strongly consistent reads consumed per second before DynamoDB returns a `ThrottlingException`.

Type: Integer

Required: No

WriteCapacityUnits

The maximum number of writes consumed per second before DynamoDB returns a `ThrottlingException`.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDynamoDbTableProvisionedThroughputOverride

Replica-specific configuration for the provisioned throughput.

Contents

ReadCapacityUnits

The read capacity units for the replica.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDynamoDbTableReplica

Information about a replica of a DynamoDB table.

Contents

GlobalSecondaryIndexes

List of global secondary indexes for the replica.

Type: Array of AwsDynamoDbTableReplicaGlobalSecondaryIndex objects

Required: No

KmsMasterKeyId

The identifier of the AWS KMS key that will be used for AWS KMS encryption for the replica.

Type: String

Pattern: `.*\S.*`

Required: No

ProvisionedThroughputOverride

Replica-specific configuration for the provisioned throughput.

Type: AwsDynamoDbTableProvisionedThroughputOverride object

Required: No

RegionName

The name of the Region where the replica is located.

Type: String

Pattern: `.*\S.*`

Required: No

ReplicaStatus

The current status of the replica. Valid values are as follows:

- `ACTIVE`

- `CREATING`
- `CREATION_FAILED`
- `DELETING`
- `UPDATING`

Type: String

Pattern: `.*\S.*`

Required: No

ReplicaStatusDescription

Detailed information about the replica status.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDynamoDbTableReplicaGlobalSecondaryIndex

Information about a global secondary index for a DynamoDB table replica.

Contents

IndexName

The name of the index.

Type: String

Pattern: `.*\S.*`

Required: No

ProvisionedThroughputOverride

Replica-specific configuration for the provisioned throughput for the index.

Type: AwsDynamoDbTableProvisionedThroughputOverride object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDynamoDbTableRestoreSummary

Information about the restore for the table.

Contents

RestoreDateTime

Indicates the point in time that the table was restored to.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

RestoreInProgress

Whether a restore is currently in progress.

Type: Boolean

Required: No

SourceBackupArn

The ARN of the source backup from which the table was restored.

Type: String

Pattern: `.*\S.*`

Required: No

SourceTableArn

The ARN of the source table for the backup.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDynamoDbTableSseDescription

Information about the server-side encryption for the table.

Contents

InaccessibleEncryptionDateTime

If the key is inaccessible, the date and time when DynamoDB detected that the key was inaccessible.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

KmsMasterKeyArn

The ARN of the AWS KMS key that is used for the AWS KMS encryption.

Type: String

Pattern: `.*\S.*`

Required: No

SseType

The type of server-side encryption.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The status of the server-side encryption.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsDynamoDbTableStreamSpecification

The current DynamoDB Streams configuration for the table.

Contents

StreamEnabled

Indicates whether DynamoDB Streams is enabled on the table.

Type: Boolean

Required: No

StreamViewType

Determines the information that is written to the table.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon EC2

Amazon EC2 objects

- AwsEc2ClientVpnEndpointAuthenticationOptionsActiveDirectoryDetails
- AwsEc2ClientVpnEndpointAuthenticationOptionsDetails
- AwsEc2ClientVpnEndpointAuthenticationOptionsFederatedAuthenticationDetails
- AwsEc2ClientVpnEndpointAuthenticationOptionsMutualAuthenticationDetails

- AwsEc2ClientVpnEndpointClientConnectOptionsDetails
- AwsEc2ClientVpnEndpointClientConnectOptionsStatusDetails
- AwsEc2ClientVpnEndpointClientLoginBannerOptionsDetails
- AwsEc2ClientVpnEndpointConnectionLogOptionsDetails
- AwsEc2ClientVpnEndpointDetails
- AwsEc2EipDetails
- AwsEc2InstanceDetails
- AwsEc2InstanceMetadataOptions
- AwsEc2InstanceMonitoringDetails
- AwsEc2InstanceNetworkInterfacesDetails
- AwsEc2LaunchTemplateDataBlockDeviceMappingSetDetails
- AwsEc2LaunchTemplateDataBlockDeviceMappingSetEbsDetails
- AwsEc2LaunchTemplateDataCapacityReservationSpecificationCapacityReservationTargetDetails
- AwsEc2LaunchTemplateDataCapacityReservationSpecificationDetails
- AwsEc2LaunchTemplateDataCpuOptionsDetails
- AwsEc2LaunchTemplateDataCreditSpecificationDetails
- AwsEc2LaunchTemplateDataDetails
- AwsEc2LaunchTemplateDataElasticGpuSpecificationSetDetails
- AwsEc2LaunchTemplateDataElasticInferenceAcceleratorSetDetails
- AwsEc2LaunchTemplateDataEnclaveOptionsDetails
- AwsEc2LaunchTemplateDataHibernationOptionsDetails
- AwsEc2LaunchTemplateDataIamInstanceProfileDetails
- AwsEc2LaunchTemplateDataInstanceMarketOptionsDetails
- AwsEc2LaunchTemplateDataInstanceMarketOptionsSpotOptionsDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsAcceleratorCountDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsAcceleratorTotalMemoryMiBDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsBaselineEbsBandwidthMbpsDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsMemoryGiBPerVCpuDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsMemoryMiBDetails

- AwsEc2LaunchTemplateDataInstanceRequirementsNetworkInterfaceCountDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsTotalLocalStorageGBDetails
- AwsEc2LaunchTemplateDataInstanceRequirementsVCpuCountDetails
- AwsEc2LaunchTemplateDataLicenseSetDetails
- AwsEc2LaunchTemplateDataMaintenanceOptionsDetails
- AwsEc2LaunchTemplateDataMetadataOptionsDetails
- AwsEc2LaunchTemplateDataMonitoringDetails
- AwsEc2LaunchTemplateDataNetworkInterfaceSetDetails
- AwsEc2LaunchTemplateDataNetworkInterfaceSetIpv4PrefixesDetails
- AwsEc2LaunchTemplateDataNetworkInterfaceSetIpv6AddressesDetails
- AwsEc2LaunchTemplateDataNetworkInterfaceSetIpv6PrefixesDetails
- AwsEc2LaunchTemplateDataNetworkInterfaceSetPrivateIpAddressesDetails
- AwsEc2LaunchTemplateDataPlacementDetails
- AwsEc2LaunchTemplateDataPrivateDnsNameOptionsDetails
- AwsEc2LaunchTemplateDetails
- AwsEc2NetworkAclAssociation
- AwsEc2NetworkAclDetails
- AwsEc2NetworkAclEntry
- PortRange
- PortRangeFromTo
- AwsEc2NetworkInterfaceAttachment
- AwsEc2NetworkInterfaceDetails
- AwsEc2NetworkInterfaceIpV6AddressDetail
- AwsEc2NetworkInterfacePrivateIpAddressDetail
- AwsEc2NetworkInterfaceSecurityGroup
- AwsEc2RouteTableDetails
- RouteSetDetails
- AssociationSetDetails
- AssociationStateDetails
- PropagatingVgwSetDetails

- AwsEc2SecurityGroupDetails
- AwsEc2SecurityGroupIpPermission
- AwsEc2SecurityGroupIpRange
- AwsEc2SecurityGroupIpv6Range
- AwsEc2SecurityGroupPrefixListId
- AwsEc2SecurityGroupUserIdGroupPair
- AwsEc2SubnetDetails
- Ipv6CidrBlockAssociation
- AvailabilityZone
- AwsEc2TransitGatewayDetails
- AwsEc2VolumeAttachment
- AwsEc2VolumeDetails
- AwsEc2VpcDetails
- CidrBlockAssociation
- AwsEc2VpcEndpointServiceDetails
- AwsEc2VpcEndpointServiceServiceTypeDetails
- AwsEc2VpcPeeringConnectionDetails
- VpcInfoCidrBlockSetDetails
- VpcInfoIpv6CidrBlockSetDetails
- VpcInfoPeeringOptionsDetails
- AwsEc2VpcPeeringConnectionStatusDetails
- AwsEc2VpcPeeringConnectionVpcInfoDetails
- AwsEc2VpnConnectionDetails
- AwsEc2VpnConnectionOptionsDetails
- AwsEc2VpnConnectionOptionsTunnelOptionsDetails
- AwsEc2VpnConnectionRoutesDetails
- AwsEc2VpnConnectionVgwTelemetryDetails

AwsEc2ClientVpnEndpointAuthenticationOptionsActiveDirectoryDetails

Provides details about an Active Directory that's used to authenticate an AWS Client VPN endpoint.

Contents

DirectoryId

The ID of the Active Directory used for authentication.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2ClientVpnEndpointAuthenticationOptionsDetails

Information about the authentication method used by the Client VPN endpoint.

Contents

ActiveDirectory

Information about the Active Directory, if applicable. With Active Directory authentication, clients are authenticated against existing Active Directory groups.

Type: AwsEc2ClientVpnEndpointAuthenticationOptionsActiveDirectoryDetails object

Required: No

FederatedAuthentication

Information about the IAM SAML identity provider, if applicable.

Type: AwsEc2ClientVpnEndpointAuthenticationOptionsFederatedAuthenticationDetails object

Required: No

MutualAuthentication

Information about the authentication certificates, if applicable.

Type: AwsEc2ClientVpnEndpointAuthenticationOptionsMutualAuthenticationDetails object

Required: No

Type

The authentication type used.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2ClientVpnEndpointAuthenticationOptionsFederatedAuthenticationDetails

Describes the IAM SAML identity providers used for federated authentication.

Contents

SamlProviderArn

The Amazon Resource Name (ARN) of the IAM SAML identity provider.

Type: String

Pattern: `.*\S.*`

Required: No

SelfServiceSamlProviderArn

The Amazon Resource Name (ARN) of the IAM SAML identity provider for the self-service portal.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2ClientVpnEndpointAuthenticationOptionsMutualAuthenticationDetails

Information about the client certificate used for authentication.

Contents

ClientRootCertificateChain

The Amazon Resource Name (ARN) of the client certificate.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2ClientVpnEndpointClientConnectOptionsDetails

The options for managing connection authorization for new client connections.

Contents

Enabled

Indicates whether client connect options are enabled.

Type: Boolean

Required: No

LambdaFunctionArn

The Amazon Resource Name (ARN) of the Lambda function used for connection authorization.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The status of any updates to the client connect options.

Type: AwsEc2ClientVpnEndpointClientConnectOptionsStatusDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2ClientVpnEndpointClientConnectOptionsStatusDetails

Describes the status of the Client VPN endpoint attribute.

Contents

Code

The status code.

Type: String

Pattern: `.*\S.*`

Required: No

Message

The status message.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2ClientVpnEndpointClientLoginBannerOptionsDetails

Options for enabling a customizable text banner that will be displayed on AWS provided clients when a VPN session is established.

Contents

BannerText

Customizable text that will be displayed in a banner on AWS provided clients when a VPN session is established.

Type: String

Pattern: `.*\S.*`

Required: No

Enabled

Current state of text banner feature.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2ClientVpnEndpointConnectionLogOptionsDetails

Information about the client connection logging options for the Client VPN endpoint.

Contents

CloudwatchLogGroup

The name of the Amazon CloudWatch Logs log group to which connection logging data is published.

Type: String

Pattern: `.*\S.*`

Required: No

CloudwatchLogStream

The name of the Amazon CloudWatch Logs log stream to which connection logging data is published.

Type: String

Pattern: `.*\S.*`

Required: No

Enabled

Indicates whether client connection logging is enabled for the Client VPN endpoint.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsEc2ClientVpnEndpointDetails

Describes an AWS Client VPN endpoint. A Client VPN endpoint is the resource that you create and configure to enable and manage client VPN sessions. It's the termination point for all client VPN sessions.

Contents

AuthenticationOptions

Information about the authentication method used by the Client VPN endpoint.

Type: Array of AwsEc2ClientVpnEndpointAuthenticationOptionsDetails objects

Required: No

ClientCidrBlock

The IPv4 address range, in CIDR notation, from which client IP addresses are assigned.

Type: String

Pattern: `.*\S.*`

Required: No

ClientConnectOptions

The options for managing connection authorization for new client connections.

Type: AwsEc2ClientVpnEndpointClientConnectOptionsDetails object

Required: No

ClientLoginBannerOptions

Options for enabling a customizable text banner that will be displayed on AWS provided clients when a VPN session is established.

Type: AwsEc2ClientVpnEndpointClientLoginBannerOptionsDetails object

Required: No

ClientVpnEndpointId

The ID of the Client VPN endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

ConnectionLogOptions

Information about the client connection logging options for the Client VPN endpoint.

Type: AwsEc2ClientVpnEndpointConnectionLogOptionsDetails object

Required: No

Description

A brief description of the endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

DnsServer

Information about the DNS servers to be used for DNS resolution.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SecurityGroupIdSet

The IDs of the security groups for the target network.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SelfServicePortalUrl

The URL of the self-service portal.

Type: String

Pattern: `.*\S.*`

Required: No

ServerCertificateArn

The Amazon Resource Name (ARN) of the server certificate.

Type: String

Pattern: `.*\S.*`

Required: No

SessionTimeoutHours

The maximum VPN session duration time in hours.

Type: Integer

Required: No

SplitTunnel

Indicates whether split-tunnel is enabled in the AWS Client VPN endpoint.

Type: Boolean

Required: No

TransportProtocol

The transport protocol used by the Client VPN endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

VpcId

The ID of the VPC.

Type: String

Pattern: `.*\S.*`

Required: No

VpnPort

The port number for the Client VPN endpoint.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2EipDetails

Information about an Elastic IP address.

Contents

AllocationId

The identifier that AWS assigns to represent the allocation of the Elastic IP address for use with Amazon VPC.

Type: String

Pattern: `.*\S.*`

Required: No

AssociationId

The identifier that represents the association of the Elastic IP address with an EC2 instance.

Type: String

Pattern: `.*\S.*`

Required: No

Domain

The domain in which to allocate the address.

If the address is for use with EC2 instances in a VPC, then `Domain` is `vpc`. Otherwise, `Domain` is `standard`.

Type: String

Pattern: `.*\S.*`

Required: No

InstanceId

The identifier of the EC2 instance.

Type: String

Pattern: `.*\S.*`

Required: No

NetworkBorderGroup

The name of the location from which the Elastic IP address is advertised.

Type: String

Pattern: `.*\S.*`

Required: No

NetworkInterfaceId

The identifier of the network interface.

Type: String

Pattern: `.*\S.*`

Required: No

NetworkInterfaceOwnerId

The AWS account ID of the owner of the network interface.

Type: String

Pattern: `.*\S.*`

Required: No

PrivateIpAddress

The private IP address that is associated with the Elastic IP address.

Type: String

Pattern: `.*\S.*`

Required: No

PublicIp

A public IP address that is associated with the EC2 instance.

Type: String

Pattern: `.*\S.*`

Required: No

PublicIpv4Pool

The identifier of an IP address pool. This parameter allows Amazon EC2 to select an IP address from the address pool.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2InstanceDetails

The details of an Amazon EC2 instance.

Contents

IamInstanceProfileArn

The IAM profile ARN of the instance.

Type: String

Pattern: `.*\S.*`

Required: No

ImageId

The Amazon Machine Image (AMI) ID of the instance.

Type: String

Pattern: `.*\S.*`

Required: No

IpV4Addresses

The IPv4 addresses associated with the instance.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

IpV6Addresses

The IPv6 addresses associated with the instance.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

KeyName

The key name associated with the instance.

Type: String

Pattern: `.*\S.*`

Required: No

LaunchedAt

Indicates when the instance was launched.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

MetadataOptions

Details about the metadata options for the Amazon EC2 instance.

Type: AwsEc2InstanceMetadataOptions object

Required: No

Monitoring

Describes the type of monitoring that's turned on for an instance.

Type: AwsEc2InstanceMonitoringDetails object

Required: No

NetworkInterfaces

The identifiers of the network interfaces for the EC2 instance. The details for each network interface are in a corresponding `AwsEc2NetworkInterfacesDetails` object.

Type: Array of AwsEc2InstanceNetworkInterfacesDetails objects

Required: No

SubnetId

The identifier of the subnet that the instance was launched in.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The instance type of the instance.

Type: String

Pattern: `.*\S.*`

Required: No

VirtualizationType

The virtualization type of the Amazon Machine Image (AMI) required to launch the instance.

Type: String

Pattern: `.*\S.*`

Required: No

VpcId

The identifier of the VPC that the instance was launched in.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2InstanceMetadataOptions

Metadata options that allow you to configure and secure the Amazon EC2 instance.

Contents

HttpEndpoint

Enables or disables the HTTP metadata endpoint on the instance.

Type: String

Pattern: `.*\S.*`

Required: No

HttpProtocolIpv6

Enables or disables the IPv6 endpoint for the instance metadata service.

Type: String

Pattern: `.*\S.*`

Required: No

HttpPutResponseHopLimit

The desired HTTP PUT response hop limit for instance metadata requests. The larger the number, the further instance metadata requests can travel.

Type: Integer

Required: No

HttpTokens

The state of token usage for your instance metadata requests.

Type: String

Pattern: `.*\S.*`

Required: No

InstanceMetadataTags

Specifies whether to allow access to instance tags from the instance metadata.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2InstanceMonitoringDetails

The type of monitoring that's turned on for an Amazon EC2 instance.

Contents

State

Indicates whether detailed monitoring is turned on. Otherwise, basic monitoring is turned on.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2InstanceNetworkInterfacesDetails

Identifies a network interface for the Amazon EC2 instance.

Contents

NetworkInterfaceId

The identifier of the network interface. The details are in a corresponding `AwsEc2NetworkInterfacesDetails` object.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataBlockDeviceMappingSetDetails

Information about a block device mapping for an Amazon Elastic Compute Cloud (Amazon EC2) launch template.

Contents

DeviceName

The device name.

Type: String

Pattern: `.*\S.*`

Required: No

Ebs

Parameters used to automatically set up Amazon EBS volumes when the instance is launched.

Type: AwsEc2LaunchTemplateDataBlockDeviceMappingSetEbsDetails object

Required: No

NoDevice

Omits the device from the block device mapping when an empty string is specified.

Type: String

Pattern: `.*\S.*`

Required: No

VirtualName

The virtual device name (ephemeralN). Instance store volumes are numbered starting from 0. An instance type with 2 available instance store volumes can specify mappings for `ephemeral0` and `ephemeral1`. The number of available instance store volumes depends on the instance type.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataBlockDeviceMappingSetEbsDetails

Parameters for a block device for an Amazon Elastic Block Store (Amazon EBS) volume in an Amazon EC2 launch template.

Contents

DeleteOnTermination

Indicates whether the EBS volume is deleted on instance termination.

Type: Boolean

Required: No

Encrypted

Indicates whether the EBS volume is encrypted. Encrypted volumes can only be attached to instances that support Amazon EBS encryption. If you're creating a volume from a snapshot, you can't specify an encryption value.

Type: Boolean

Required: No

Iops

The number of I/O operations per second (IOPS).

Type: Integer

Required: No

KmsKeyId

The Amazon Resource Name (ARN) of the symmetric AWS Key Management Service (AWS KMS) customer managed key used for encryption.

Type: String

Pattern: `.*\S.*`

Required: No

SnapshotId

The ID of the EBS snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

Throughput

The throughput to provision for a gp3 volume, with a maximum of 1,000 MiB/s.

Type: Integer

Required: No

VolumeSize

The size of the volume, in GiBs. You must specify either a snapshot ID or a volume size.

Type: Integer

Required: No

VolumeType

The volume type.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataCapacityReservationSpecificationCapacityReservationTarge

Information about the target Capacity Reservation or Capacity Reservation group in which to run an Amazon EC2 instance.

Contents

CapacityReservationId

The ID of the Capacity Reservation in which to run the instance.

Type: String

Pattern: `.*\S.*`

Required: No

CapacityReservationResourceGroupArn

The Amazon Resource Name (ARN) of the Capacity Reservation resource group in which to run the instance.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataCapacityReservationSpecificationDetails

Specifies the Capacity Reservation targeting option of an Amazon EC2 instance.

Contents

CapacityReservationPreference

Indicates the instance's Capacity Reservation preferences. If equal to open, the instance can run in any open Capacity Reservation that has matching attributes (instance type, platform, Availability Zone). If equal to none, the instance avoids running in a Capacity Reservation even if one is available. The instance runs in On-Demand capacity.

Type: String

Pattern: `.*\S.*`

Required: No

CapacityReservationTarget

Specifies a target Capacity Reservation.

Type: AwsEc2LaunchTemplateDataCapacityReservationSpecificationCapacityReservationTargetDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataCpuOptionsDetails

Specifies the CPU options for an Amazon EC2 instance. For more information, see Optimize CPU options in the *Amazon Elastic Compute Cloud User Guide*.

Contents

CoreCount

The number of CPU cores for the instance.

Type: Integer

Required: No

ThreadsPerCore

The number of threads per CPU core. A value of 1 disables multithreading for the instance, The default value is 2.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataCreditSpecificationDetails

Specifies the credit option for CPU usage of a T2, T3, or T3a Amazon EC2 instance.

Contents

CpuCredits

The credit option for CPU usage of a T instance.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataDetails

The information to include in an Amazon Elastic Compute Cloud (Amazon EC2) launch template.

Contents

BlockDeviceMappingSet

Information about a block device mapping for an Amazon EC2 launch template.

Type: Array of AwsEc2LaunchTemplateDataBlockDeviceMappingSetDetails objects

Required: No

CapacityReservationSpecification

Specifies an instance's Capacity Reservation targeting option. You can specify only one option at a time.

Type: AwsEc2LaunchTemplateDataCapacityReservationSpecificationDetails object

Required: No

CpuOptions

Specifies the CPU options for an instance. For more information, see Optimize CPU options in the *Amazon Elastic Compute Cloud User Guide*.

Type: AwsEc2LaunchTemplateDataCpuOptionsDetails object

Required: No

CreditSpecification

Specifies the credit option for CPU usage of a T2, T3, or T3a instance.

Type: AwsEc2LaunchTemplateDataCreditSpecificationDetails object

Required: No

DisableApiStop

Indicates whether to enable the instance for stop protection. For more information, see Enable stop protection in the *Amazon EC2 User Guide*.

Type: Boolean

Required: No

DisableApiTermination

If you set this parameter to `true`, you can't terminate the instance using the Amazon EC2 console, AWS CLI, or API. If set to `true`, you can.

Type: Boolean

Required: No

EbsOptimized

Indicates whether the instance is optimized for Amazon EBS I/O.

Type: Boolean

Required: No

ElasticGpuSpecificationSet

Provides details about Elastic Graphics accelerators to associate with the instance.

Type: Array of AwsEc2LaunchTemplateDataElasticGpuSpecificationSetDetails objects

Required: No

ElasticInferenceAcceleratorSet

The Amazon Elastic Inference accelerator for the instance.

Type: Array of AwsEc2LaunchTemplateDataElasticInferenceAcceleratorSetDetails objects

Required: No

EnclaveOptions

Indicates whether the Amazon EC2 instance is enabled for AWS Nitro Enclaves.

Type: AwsEc2LaunchTemplateDataEnclaveOptionsDetails object

Required: No

HibernationOptions

Specifies whether your Amazon EC2 instance is configured for hibernation.

Type: AwsEc2LaunchTemplateDataHibernationOptionsDetails object

Required: No

IamInstanceProfile

The name or Amazon Resource Name (ARN) of an IAM instance profile.

Type: AwsEc2LaunchTemplateDataIamInstanceProfileDetails object

Required: No

ImageId

The ID of the Amazon Machine Image (AMI).

Type: String

Pattern: `.*\S.*`

Required: No

InstanceInitiatedShutdownBehavior

Provides the options for specifying the instance initiated shutdown behavior.

Type: String

Pattern: `.*\S.*`

Required: No

InstanceMarketOptions

Specifies the market (purchasing) option for an instance.

Type: AwsEc2LaunchTemplateDataInstanceMarketOptionsDetails object

Required: No

InstanceRequirements

The attributes for the instance types. When you specify instance attributes, Amazon EC2 will identify instance types with these attributes. If you specify `InstanceRequirements`, you can't specify `InstanceType`.

Type: AwsEc2LaunchTemplateDataInstanceRequirementsDetails object

Required: No

InstanceType

The instance type. For more information, see Instance types in the *Amazon EC2 User Guide*. If you specify `InstanceType`, you can't specify `InstanceRequirements`.

Type: String

Pattern: `.*\S.*`

Required: No

KernelId

The ID of the kernel.

Type: String

Pattern: `.*\S.*`

Required: No

KeyName

The name of the key pair that allows users to connect to the instance.

Type: String

Pattern: `.*\S.*`

Required: No

LicenseSet

Specifies a license configuration for an instance.

Type: Array of AwsEc2LaunchTemplateDataLicenseSetDetails objects

Required: No

MaintenanceOptions

The maintenance options of your instance.

Type: AwsEc2LaunchTemplateDataMaintenanceOptionsDetails object

Required: No

MetadataOptions

The metadata options for the instance. For more information, see Instance metadata and user data in the *Amazon EC2 User Guide*.

Type: AwsEc2LaunchTemplateDataMetadataOptionsDetails object

Required: No

Monitoring

The monitoring for the instance.

Type: AwsEc2LaunchTemplateDataMonitoringDetails object

Required: No

NetworkInterfaceSet

Specifies the parameters for a network interface that is attached to the instance.

Type: Array of AwsEc2LaunchTemplateDataNetworkInterfaceSetDetails objects

Required: No

Placement

Specifies the placement of an instance.

Type: AwsEc2LaunchTemplateDataPlacementDetails object

Required: No

PrivateDnsNameOptions

The options for the instance hostname.

Type: AwsEc2LaunchTemplateDataPrivateDnsNameOptionsDetails object

Required: No

RamDiskId

The ID of the RAM disk.

Type: String

Pattern: `.*\S.*`

Required: No

SecurityGroupIdSet

One or more security group IDs.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SecurityGroupSet

One or more security group names. For a nondefault VPC, you must use security group IDs instead. You cannot specify both a security group ID and security name in the same request.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

UserData

The user data to make available to the instance.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataElasticGpuSpecificationSetDetails

Provides details about an Elastic Graphics specification for an Amazon EC2 launch template.

Contents

Type

The type of Elastic Graphics accelerator.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataElasticInferenceAcceleratorSetDetails

Provides details for an Amazon Elastic Inference accelerator.

Contents

Count

The number of Elastic Inference accelerators to attach to the instance.

Type: Integer

Required: No

Type

The type of Elastic Inference accelerator.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataEnclaveOptionsDetails

Indicates whether the instance is enabled for AWS Nitro Enclaves.

Contents

Enabled

If this parameter is set to `true`, the instance is enabled for AWS Nitro Enclaves.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataHibernationOptionsDetails

Specifies whether your Amazon EC2 instance is configured for hibernation.

Contents

Configured

If you set this parameter to `true`, the instance is enabled for hibernation.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataIamInstanceProfileDetails

Provides details for an AWS Identity and Access Management (IAM) instance profile, which is a container for an IAM role for your instance.

Contents

Arn

The Amazon Resource Name (ARN) of the instance profile.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the instance profile.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataInstanceMarketOptionsDetails

Provides details about the market (purchasing) option for an Amazon EC2 instance.

Contents

MarketType

The market type.

Type: String

Pattern: `.*\S.*`

Required: No

SpotOptions

The options for Spot Instances.

Type: AwsEc2LaunchTemplateDataInstanceMarketOptionsSpotOptionsDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataInstanceMarketOptionsSpotOptionsDetails

Provides details about the market (purchasing) options for Spot Instances.

Contents

BlockDurationMinutes

Deprecated.

Type: Integer

Required: No

InstanceInterruptionBehavior

The behavior when a Spot Instance is interrupted.

Type: String

Pattern: `.*\S.*`

Required: No

MaxPrice

The maximum hourly price you're willing to pay for the Spot Instances.

Type: String

Pattern: `.*\S.*`

Required: No

SpotInstanceType

The Spot Instance request type.

Type: String

Pattern: `.*\S.*`

Required: No

ValidUntil

The end date of the request, in UTC format (YYYY-MM-DDTHH:MM:SSZ), for persistent requests.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataInstanceRequirementsAcceleratorCountDetails

The minimum and maximum number of accelerators (GPUs, FPGAs, or AWS Inferentia chips) on an Amazon EC2 instance.

Contents

Max

The maximum number of accelerators. If this parameter isn't specified, there's no maximum limit. To exclude accelerator-enabled instance types, set `Max` to `0`.

Type: Integer

Required: No

Min

The minimum number of accelerators. If this parameter isn't specified, there's no minimum limit.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataInstanceRequirementsAcceleratorTotalMemoryMiBDetails

The minimum and maximum amount of memory, in MiB, for the accelerators on an Amazon EC2 instance.

Contents

Max

The maximum amount of memory, in MiB. If this parameter isn't specified, there's no maximum limit.

Type: Integer

Required: No

Min

The minimum amount of memory, in MiB. If `0` is specified, there's no maximum limit.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataInstanceRequirementsBaselineEbsBandwidthMbpsDetails

The minimum and maximum baseline bandwidth to Amazon Elastic Block Store (Amazon EBS), in Mbps. For more information, see Amazon EBS–optimized instances in the *Amazon EC2 User Guide*.

Contents

Max

The maximum baseline bandwidth, in Mbps. If this parameter is omitted, there's no maximum limit.

Type: Integer

Required: No

Min

The minimum baseline bandwidth, in Mbps. If this parameter is omitted, there's no minimum limit.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataInstanceRequirementsDetails

The attributes for the Amazon EC2 instance types.

Contents

AcceleratorCount

The minimum and maximum number of accelerators (GPUs, FPGAs, or AWS Inferentia chips) on an instance.

Type: AwsEc2LaunchTemplateDataInstanceRequirementsAcceleratorCountDetails object

Required: No

AcceleratorManufacturers

Indicates whether instance types must have accelerators by specific manufacturers.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

AcceleratorNames

The accelerators that must be on the instance type.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

AcceleratorTotalMemoryMiB

The minimum and maximum amount of total accelerator memory, in MiB.

Type: AwsEc2LaunchTemplateDataInstanceRequirementsAcceleratorTotalMemoryMiBDetails object

Required: No

AcceleratorTypes

The accelerator types that must be on the instance type.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

BareMetal

Indicates whether bare metal instance types must be included, excluded, or required.

Type: String

Pattern: `.*\S.*`

Required: No

BaselineEbsBandwidthMbps

The minimum and maximum baseline bandwidth to Amazon EBS, in Mbps. For more information, see Amazon EBS optimized instances in the *Amazon EC2 User Guide*.

Type: AwsEc2LaunchTemplateDataInstanceRequirementsBaselineEbsBandwidthMbpsDetails object

Required: No

BurstablePerformance

Indicates whether burstable performance T instance types are included, excluded, or required. For more information, Burstable performance instances in the *Amazon EC2 User Guide*.

Type: String

Pattern: `.*\S.*`

Required: No

CpuManufacturers

The CPU manufacturers to include.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

ExcludedInstanceTypes

The instance types to exclude.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

InstanceGenerations

Indicates whether current or previous generation instance types are included.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

LocalStorage

Indicates whether instance types with instance store volumes are included, excluded, or required. For more information, see Amazon EC2 instance store in the *Amazon EC2 User Guide*.

Type: String

Pattern: `.*\S.*`

Required: No

LocalStorageTypes

The type of local storage that is required.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

MemoryGiBPerVCpu

The minimum and maximum amount of memory per vCPU, in GiB.

Type: AwsEc2LaunchTemplateDataInstanceRequirementsMemoryGiBPerVCpuDetails object

Required: No

MemoryMiB

The minimum and maximum amount of memory, in MiB.

Type: AwsEc2LaunchTemplateDataInstanceRequirementsMemoryMiBDetails object

Required: No

NetworkInterfaceCount

The minimum and maximum number of network interfaces.

Type: AwsEc2LaunchTemplateDataInstanceRequirementsNetworkInterfaceCountDetails object

Required: No

OnDemandMaxPricePercentageOverLowestPrice

The price protection threshold for On-Demand Instances. This is the maximum you'll pay for an On-Demand Instance, expressed as a percentage above the least expensive current generation M, C, or R instance type with your specified attributes. When Amazon EC2 selects instance types with your attributes, it excludes instance types priced above your threshold.

The parameter accepts an integer, which Amazon EC2 interprets as a percentage.

A high value, such as 999999, turns off price protection.

Type: Integer

Required: No

RequireHibernateSupport

Indicates whether instance types must support hibernation for On-Demand Instances.

Type: Boolean

Required: No

SpotMaxPricePercentageOverLowestPrice

The price protection threshold for Spot Instances. This is the maximum you'll pay for a Spot Instance, expressed as a percentage above the least expensive current generation M, C, or R

instance type with your specified attributes. When Amazon EC2 selects instance types with your attributes, it excludes instance types priced above your threshold.

The parameter accepts an integer, which Amazon EC2 interprets as a percentage.

A high value, such as 999999, turns off price protection.

Type: Integer

Required: No

TotalLocalStorageGB

The minimum and maximum amount of total local storage, in GB.

Type: AwsEc2LaunchTemplateDataInstanceRequirementsTotalLocalStorageGBDetails object

Required: No

VCpuCount

The minimum and maximum number of vCPUs.

Type: AwsEc2LaunchTemplateDataInstanceRequirementsVCpuCountDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataInstanceRequirementsMemoryGiBPerVCpuDetails

The minimum and maximum amount of memory per vCPU, in GiB.

Contents

Max

The maximum amount of memory per vCPU, in GiB. If this parameter is omitted, there's no maximum limit.

Type: Double

Required: No

Min

The minimum amount of memory per vCPU, in GiB. If this parameter is omitted, there's no maximum limit.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataInstanceRequirementsMemoryMiBDetails

The minimum and maximum amount of memory, in MiB, for an Amazon EC2 instance.

Contents

Max

The maximum amount of memory, in MiB.

Type: Integer

Required: No

Min

The minimum amount of memory, in MiB.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataInstanceRequirementsNetworkInterfaceCountDetails

The minimum and maximum number of network interfaces to be attached to an Amazon EC2 instance.

Contents

Max

The maximum number of network interfaces.

Type: Integer

Required: No

Min

The minimum number of network interfaces.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataInstanceRequirementsTotalLocalStorageGBDetails

The minimum and maximum amount of total local storage, in GB, that an Amazon EC2 instance uses.

Contents

Max

The maximum amount of total local storage, in GB.

Type: Double

Required: No

Min

The minimum amount of total local storage, in GB.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataInstanceRequirementsVCpuCountDetails

The minimum and maximum number of vCPUs for an Amazon EC2 instance.

Contents

Max

The maximum number of vCPUs.

Type: Integer

Required: No

Min

The minimum number of vCPUs.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataLicenseSetDetails

Provides details about the license configuration for an Amazon EC2 instance.

Contents

LicenseConfigurationArn

The Amazon Resource Name (ARN) of the license configuration.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataMaintenanceOptionsDetails

The maintenance options of an Amazon EC2 instance.

Contents

AutoRecovery

Disables the automatic recovery behavior of your instance or sets it to default.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataMetadataOptionsDetails

Specifies the metadata options for an Amazon EC2 instance.

Contents

HttpEndpoint

Enables or disables the HTTP metadata endpoint on your instances. If the parameter is not specified, the default state is enabled, and you won't be able to access your instance metadata.

Type: String

Pattern: `.*\S.*`

Required: No

HttpProtocolIpv6

Enables or disables the IPv6 endpoint for the instance metadata service.

Type: String

Pattern: `.*\S.*`

Required: No

HttpPutResponseHopLimit

The desired HTTP PUT response hop limit for instance metadata requests. The larger the number, the further instance metadata requests can travel.

Type: Integer

Required: No

HttpTokens

The state of token usage for your instance metadata requests.

Type: String

Pattern: `.*\S.*`

Required: No

InstanceMetadataTags

When set to `enabled`, this parameter allows access to instance tags from the instance metadata. When set to `disabled`, it turns off access to instance tags from the instance metadata. For more information, see Work with instance tags in instance metadata in the *Amazon EC2 User Guide*.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataMonitoringDetails

The monitoring for an Amazon EC2 instance.

Contents

Enabled

Enables detailed monitoring when `true` is specified. Otherwise, basic monitoring is enabled. For more information about detailed monitoring, see Enable or turn off detailed monitoring for your instances in the *Amazon EC2 User Guide*.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataNetworkInterfaceSetDetails

One or more network interfaces to attach to an Amazon EC2 instance. If you specify a network interface, you must specify security groups and subnets as part of the network interface.

Contents

AssociateCarrierIpAddress

Indicates whether to associate a Carrier IP address with eth0 for a new network interface. You use this option when you launch an instance in a Wavelength Zone and want to associate a Carrier IP address with the network interface. For more information, see Carrier IP address in the *AWS Wavelength Developer Guide*.

Type: Boolean

Required: No

AssociatePublicIpAddress

Associates a public IPv4 address with eth0 for a new network interface.

Type: Boolean

Required: No

DeleteOnTermination

Indicates whether the network interface is deleted when the instance is terminated.

Type: Boolean

Required: No

Description

A description for the network interface.

Type: String

Pattern: `.*\S.*`

Required: No

DeviceIndex

The device index for the network interface attachment.

Type: Integer

Required: No

Groups

The IDs of one or more security groups.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

InterfaceType

The type of network interface.

Type: String

Pattern: `.*\S.*`

Required: No

Ipv4PrefixCount

The number of IPv4 prefixes to be automatically assigned to the network interface. You cannot use this option if you use the `Ipv4Prefixes` option.

Type: Integer

Required: No

Ipv4Prefixes

One or more IPv4 prefixes to be assigned to the network interface. You cannot use this option if you use the `Ipv4PrefixCount` option.

Type: Array of AwsEc2LaunchTemplateDataNetworkInterfaceSetIpv4PrefixesDetails objects

Required: No

Ipv6AddressCount

The number of IPv6 addresses to assign to a network interface. Amazon EC2 automatically selects the IPv6 addresses from the subnet range. You can't use this option if you use `Ipv6Addresses`.

Type: Integer

Required: No

Ipv6Addresses

One or more specific IPv6 addresses from the IPv6 CIDR block range of your subnet. You can't use this option if you use `Ipv6AddressCount`.

Type: Array of AwsEc2LaunchTemplateDataNetworkInterfaceSetIpv6AddressesDetails objects

Required: No

Ipv6PrefixCount

The number of IPv6 prefixes to be automatically assigned to the network interface. You cannot use this option if you use the `Ipv6Prefix` option.

Type: Integer

Required: No

Ipv6Prefixes

One or more IPv6 prefixes to be assigned to the network interface. You cannot use this option if you use the `Ipv6PrefixCount` option.

Type: Array of AwsEc2LaunchTemplateDataNetworkInterfaceSetIpv6PrefixesDetails objects

Required: No

NetworkCardIndex

The index of the network card. Some instance types support multiple network cards. The primary network interface must be assigned to network card index `0`. The default is network card index `0`.

Type: Integer

Required: No

NetworkInterfaceId

The ID of the network interface.

Type: String

Pattern: `.*\S.*`

Required: No

PrivateIpAddress

The primary private IPv4 address of the network interface.

Type: String

Pattern: `.*\S.*`

Required: No

PrivateIpAddresses

One or more private IPv4 addresses.

Type: Array of AwsEc2LaunchTemplateDataNetworkInterfaceSetPrivateIpAddressesDetails objects

Required: No

SecondaryPrivateIpAddressCount

The number of secondary private IPv4 addresses to assign to a network interface.

Type: Integer

Required: No

SubnetId

The ID of the subnet for the network interface.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataNetworkInterfaceSetIpv4PrefixesDetails

Provides details on one or more IPv4 prefixes for a network interface.

Contents

Ipv4Prefix

The IPv4 prefix. For more information, see Assigning prefixes to Amazon EC2 network interfaces in the *Amazon Elastic Compute Cloud User Guide*.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataNetworkInterfaceSetIpv6AddressesDetails

Specifies an IPv6 address in an Amazon EC2 launch template.

Contents

Ipv6Address

One or more specific IPv6 addresses from the IPv6 CIDR block range of your subnet.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataNetworkInterfaceSetIpv6PrefixesDetails

Provides details on one or more IPv6 prefixes to be assigned to the network interface.

Contents

Ipv6Prefix

The IPv6 prefix.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataNetworkInterfaceSetPrivateIpAddressesDetails

One or more private IPv4 addresses.

Contents

Primary

Indicates whether the private IPv4 address is the primary private IPv4 address. Only one IPv4 address can be designated as primary.

Type: Boolean

Required: No

PrivateIpAddress

The private IPv4 address.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataPlacementDetails

Provides details about the placement of an Amazon EC2 instance.

Contents

Affinity

The affinity setting for an instance on an EC2 Dedicated Host.

Type: String

Pattern: `.*\S.*`

Required: No

AvailabilityZone

The Availability Zone for the instance.

Type: String

Pattern: `.*\S.*`

Required: No

GroupName

The name of the placement group for the instance.

Type: String

Pattern: `.*\S.*`

Required: No

HostId

The ID of the Dedicated Host for the instance.

Type: String

Pattern: `.*\S.*`

Required: No

HostResourceGroupArn

The Amazon Resource Name (ARN) of the host resource group in which to launch the instances.

Type: String

Pattern: `.*\S.*`

Required: No

PartitionNumber

The number of the partition the instance should launch in.

Type: Integer

Required: No

SpreadDomain

Reserved for future use.

Type: String

Pattern: `.*\S.*`

Required: No

Tenancy

The tenancy of the instance (if the instance is running in a VPC). An instance with a tenancy of dedicated runs on single-tenant hardware.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDataPrivateDnsNameOptionsDetails

Describes the options for Amazon EC2 instance hostnames.

Contents

EnableResourceNameDnsAAAARecord

Indicates whether to respond to DNS queries for instance hostnames with DNS AAAA records.

Type: Boolean

Required: No

EnableResourceNameDnsARecord

Indicates whether to respond to DNS queries for instance hostnames with DNS A records.

Type: Boolean

Required: No

HostnameType

The type of hostname for EC2 instances.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2LaunchTemplateDetails

Specifies the properties for creating an Amazon Elastic Compute Cloud (Amazon EC2) launch template.

Contents

DefaultVersionNumber

The default version of the launch template.

Type: Long

Required: No

Id

An ID for the launch template.

Type: String

Pattern: `.*\S.*`

Required: No

LatestVersionNumber

The latest version of the launch template.

Type: Long

Required: No

LaunchTemplateData

The information to include in the launch template.

Type: AwsEc2LaunchTemplateDataDetails object

Required: No

LaunchTemplateName

A name for the launch template.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2NetworkAclAssociation

An association between the network ACL and a subnet.

Contents

NetworkAclAssociationId

The identifier of the association between the network ACL and the subnet.

Type: String

Pattern: `.*\S.*`

Required: No

NetworkAclId

The identifier of the network ACL.

Type: String

Pattern: `.*\S.*`

Required: No

SubnetId

The identifier of the subnet that is associated with the network ACL.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsEc2NetworkAclDetails

Contains details about an Amazon EC2 network access control list (ACL).

Contents

Associations

Associations between the network ACL and subnets.

Type: Array of AwsEc2NetworkAclAssociation objects

Required: No

Entries

The set of rules in the network ACL.

Type: Array of AwsEc2NetworkAclEntry objects

Required: No

IsDefault

Whether this is the default network ACL for the VPC.

Type: Boolean

Required: No

NetworkAclId

The identifier of the network ACL.

Type: String

Pattern: `.*\S.*`

Required: No

OwnerId

The identifier of the AWS account that owns the network ACL.

Type: String

Pattern: `.*\S.*`

Required: No

VpcId

The identifier of the VPC for the network ACL.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2NetworkAclEntry

A rule for the network ACL. Each rule allows or denies access based on the IP address, traffic direction, port, and protocol.

Contents

CidrBlock

The IPV4 network range for which to deny or allow access.

Type: String

Pattern: `.*\S.*`

Required: No

Egress

Whether the rule is an egress rule. An egress rule is a rule that applies to traffic that leaves the subnet.

Type: Boolean

Required: No

IcmpTypeCode

The Internet Control Message Protocol (ICMP) type and code for which to deny or allow access.

Type: IcmpTypeCode object

Required: No

Ipv6CidrBlock

The IPV6 network range for which to deny or allow access.

Type: String

Pattern: `.*\S.*`

Required: No

PortRange

For TCP or UDP protocols, the range of ports that the rule applies to.

Type: PortRangeFromTo object

Required: No

Protocol

The protocol that the rule applies to. To deny or allow access to all protocols, use the value `-1`.

Type: String

Pattern: `.*\S.*`

Required: No

RuleAction

Whether the rule is used to allow access or deny access.

Type: String

Pattern: `.*\S.*`

Required: No

RuleNumber

The rule number. The rules are processed in order by their number.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PortRange

A range of ports.

Contents

Begin

The first port in the port range.

Type: Integer

Required: No

End

The last port in the port range.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PortRangeFromTo

A range of ports.

Contents

From

The first port in the port range.

Type: Integer

Required: No

To

The last port in the port range.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2NetworkInterfaceAttachment

Information about the network interface attachment.

Contents

AttachmentId

The identifier of the network interface attachment

Type: String

Pattern: `.*\S.*`

Required: No

AttachTime

Indicates when the attachment initiated.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

DeleteOnTermination

Indicates whether the network interface is deleted when the instance is terminated.

Type: Boolean

Required: No

DeviceIndex

The device index of the network interface attachment on the instance.

Type: Integer

Required: No

InstanceId

The ID of the instance.

Type: String

Pattern: `.*\S.*`

Required: No

InstanceOwnerId

The AWS account ID of the owner of the instance.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The attachment state.

Valid values: `attaching` | `attached` | `detaching` | `detached`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2NetworkInterfaceDetails

Details about the network interface

Contents

Attachment

The network interface attachment.

Type: AwsEc2NetworkInterfaceAttachment object

Required: No

IpV6Addresses

The IPv6 addresses associated with the network interface.

Type: Array of AwsEc2NetworkInterfaceIpV6AddressDetail objects

Required: No

NetworkInterfaceId

The ID of the network interface.

Type: String

Pattern: `.*\S.*`

Required: No

PrivateIpAddresses

The private IPv4 addresses associated with the network interface.

Type: Array of AwsEc2NetworkInterfacePrivateIpAddressDetail objects

Required: No

PublicDnsName

The public DNS name of the network interface.

Type: String

Pattern: `.*\S.*`

Required: No

PublicIp

The address of the Elastic IP address bound to the network interface.

Type: String

Pattern: `.*\S.*`

Required: No

SecurityGroups

Security groups for the network interface.

Type: Array of AwsEc2NetworkInterfaceSecurityGroup objects

Required: No

SourceDestCheck

Indicates whether traffic to or from the instance is validated.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2NetworkInterfaceIpV6AddressDetail

Provides information about an IPV6 address that is associated with the network interface.

Contents

IpV6Address

The IPV6 address.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2NetworkInterfacePrivateIpAddressDetail

Provides information about a private IPv4 address that is with the network interface.

Contents

PrivateDnsName

The private DNS name for the IP address.

Type: String

Pattern: `.*\S.*`

Required: No

PrivateIpAddress

The IP address.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2NetworkInterfaceSecurityGroup

A security group associated with the network interface.

Contents

GroupId

The ID of the security group.

Type: String

Pattern: `.*\S.*`

Required: No

GroupName

The name of the security group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2RouteTableDetails

Provides details about a route table for the specified VPC.

Contents

AssociationSet

The associations between a route table and one or more subnets or a gateway.

Type: Array of AssociationSetDetails objects

Required: No

OwnerId

The ID of the AWS account that owns the route table.

Type: String

Pattern: `.*\S.*`

Required: No

PropagatingVgwSet

Describes a virtual private gateway propagating route.

Type: Array of PropagatingVgwSetDetails objects

Required: No

RouteSet

The routes in the route table.

Type: Array of RouteSetDetails objects

Required: No

RouteTableId

The ID of the route table.

Type: String

Pattern: `.*\S.*`

Required: No

VpcId

The ID of the virtual private cloud (VPC).

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RouteSetDetails

Provides details about the routes in the route table.

Contents

CarrierGatewayId

The ID of the carrier gateway.

Type: String

Pattern: `.*\S.*`

Required: No

CoreNetworkArn

The Amazon Resource Name (ARN) of the core network.

Type: String

Pattern: `.*\S.*`

Required: No

DestinationCidrBlock

The IPv4 CIDR block used for the destination match.

Type: String

Pattern: `.*\S.*`

Required: No

DestinationIpv6CidrBlock

The IPv6 CIDR block used for the destination match.

Type: String

Pattern: `.*\S.*`

Required: No

DestinationPrefixListId

The prefix of the destination AWS service.

Type: String

Pattern: `.*\S.*`

Required: No

EgressOnlyInternetGatewayId

The ID of the egress-only internet gateway.

Type: String

Pattern: `.*\S.*`

Required: No

GatewayId

The ID of a gateway attached to your VPC.

Type: String

Pattern: `.*\S.*`

Required: No

InstanceId

The ID of a NAT instance in your VPC.

Type: String

Pattern: `.*\S.*`

Required: No

InstanceOwnerId

The ID of the AWS account that owns the instance.

Type: String

Pattern: `.*\S.*`

Required: No

LocalGatewayId

The ID of the local gateway.

Type: String

Pattern: `.*\S.*`

Required: No

NatGatewayId

The ID of a NAT gateway.

Type: String

Pattern: `.*\S.*`

Required: No

NetworkInterfaceId

The ID of the network interface.

Type: String

Pattern: `.*\S.*`

Required: No

Origin

Describes how the route was created.

Type: String

Pattern: `.*\S.*`

Required: No

State

The state of the route.

Type: String

Pattern: `.*\S.*`

Required: No

TransitGatewayId

The ID of a transit gateway.

Type: String

Pattern: `.*\S.*`

Required: No

VpcPeeringConnectionId

The ID of a VPC peering connection.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AssociationSetDetails

The associations between a route table and one or more subnets or a gateway.

Contents

AssociationState

The state of the association between a route table and a subnet or gateway.

Type: AssociationStateDetails object

Required: No

GatewayId

The ID of the internet gateway or virtual private gateway.

Type: String

Pattern: `.*\S.*`

Required: No

Main

Indicates whether this is the main route table.

Type: Boolean

Required: No

RouteTableAssociationId

The ID of the association.

Type: String

Pattern: `.*\S.*`

Required: No

RouteTableId

The ID of the route table.

Type: String

Pattern: `.*\S.*`

Required: No

SubnetId

The ID of the subnet. A subnet ID is not returned for an implicit association.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AssociationStateDetails

Describes the state of an association between a route table and a subnet or gateway.

Contents

State

The state of the association.

Type: String

Pattern: `.*\S.*`

Required: No

StatusMessage

The status message, if applicable.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PropagatingVgwSetDetails

Describes a virtual private gateway propagating route.

Contents

GatewayId

The ID of the virtual private gateway.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2SecurityGroupDetails

Details about an Amazon EC2 security group.

Contents

GroupId

The ID of the security group.

Type: String

Pattern: `.*\S.*`

Required: No

GroupName

The name of the security group.

Type: String

Pattern: `.*\S.*`

Required: No

IpPermissions

The inbound rules associated with the security group.

Type: Array of AwsEc2SecurityGroupIpPermission objects

Required: No

IpPermissionsEgress

[VPC only] The outbound rules associated with the security group.

Type: Array of AwsEc2SecurityGroupIpPermission objects

Required: No

OwnerId

The AWS account ID of the owner of the security group.

Type: String

Pattern: `.*\S.*`

Required: No

VpcId

[VPC only] The ID of the VPC for the security group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2SecurityGroupIpPermission

An IP permission for an EC2 security group.

Contents

FromPort

The start of the port range for the TCP and UDP protocols, or an ICMP/ICMPv6 type number.

A value of -1 indicates all ICMP/ICMPv6 types. If you specify all ICMP/ICMPv6 types, you must specify all codes.

Type: Integer

Required: No

IpProtocol

The IP protocol name (`tcp`, udp, `icmp`, `icmpv6`) or number.

[VPC only] Use `-1` to specify all protocols.

When authorizing security group rules, specifying `-1` or a protocol number other than `tcp`, udp, `icmp`, or `icmpv6` allows traffic on all ports, regardless of any port range you specify.

For `tcp`, udp, and `icmp`, you must specify a port range.

For `icmpv6`, the port range is optional. If you omit the port range, traffic for all types and codes is allowed.

Type: String

Pattern: `.*\S.*`

Required: No

IpRanges

The IPv4 ranges.

Type: Array of AwsEc2SecurityGroupIpRange objects

Required: No

Ipv6Ranges

The IPv6 ranges.

Type: Array of AwsEc2SecurityGroupIpv6Range objects

Required: No

PrefixListIds

[VPC only] The prefix list IDs for an AWS service. With outbound rules, this is the AWS service to access through a VPC endpoint from instances associated with the security group.

Type: Array of AwsEc2SecurityGroupPrefixListId objects

Required: No

ToPort

The end of the port range for the TCP and UDP protocols, or an ICMP/ICMPv6 code.

A value of `-1` indicates all ICMP/ICMPv6 codes. If you specify all ICMP/ICMPv6 types, you must specify all codes.

Type: Integer

Required: No

UserIdGroupPairs

The security group and AWS account ID pairs.

Type: Array of AwsEc2SecurityGroupUserIdGroupPair objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2SecurityGroupIpRange

A range of IPv4 addresses.

Contents

CidrIp

The IPv4 CIDR range. You can specify either a CIDR range or a source security group, but not both. To specify a single IPv4 address, use the /32 prefix length.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2SecurityGroupIpv6Range

A range of IPv6 addresses.

Contents

CidrIpv6

The IPv6 CIDR range. You can specify either a CIDR range or a source security group, but not both. To specify a single IPv6 address, use the /128 prefix length.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2SecurityGroupPrefixListId

A prefix list ID.

Contents

PrefixListId

The ID of the prefix.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2SecurityGroupUserIdGroupPair

A relationship between a security group and a user.

Contents

GroupId

The ID of the security group.

Type: String

Pattern: `.*\S.*`

Required: No

GroupName

The name of the security group.

Type: String

Pattern: `.*\S.*`

Required: No

PeeringStatus

The status of a VPC peering connection, if applicable.

Type: String

Pattern: `.*\S.*`

Required: No

UserId

The ID of an AWS account.

For a referenced security group in another VPC, the account ID of the referenced security group is returned in the response. If the referenced security group is deleted, this value is not returned.

[EC2-Classic] Required when adding or removing rules that reference a security group in another VPC.

Type: String

Pattern: `.*\S.*`

Required: No

VpcId

The ID of the VPC for the referenced security group, if applicable.

Type: String

Pattern: `.*\S.*`

Required: No

VpcPeeringConnectionId

The ID of the VPC peering connection, if applicable.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2SubnetDetails

Contains information about a subnet in Amazon EC2.

Contents

AssignIpv6AddressOnCreation

Whether to assign an IPV6 address to a network interface that is created in this subnet.

Type: Boolean

Required: No

AvailabilityZone

The Availability Zone for the subnet.

Type: String

Pattern: `.*\S.*`

Required: No

AvailabilityZoneId

The identifier of the Availability Zone for the subnet.

Type: String

Pattern: `.*\S.*`

Required: No

AvailableIpAddressCount

The number of available IPV4 addresses in the subnet. Does not include addresses for stopped instances.

Type: Integer

Required: No

CidrBlock

The IPV4 CIDR block that is assigned to the subnet.

Type: String

Pattern: `.*\S.*`

Required: No

DefaultForAz

Whether this subnet is the default subnet for the Availability Zone.

Type: Boolean

Required: No

Ipv6CidrBlockAssociationSet

The IPV6 CIDR blocks that are associated with the subnet.

Type: Array of Ipv6CidrBlockAssociation objects

Required: No

MapPublicIpOnLaunch

Whether instances in this subnet receive a public IP address.

Type: Boolean

Required: No

OwnerId

The identifier of the AWS account that owns the subnet.

Type: String

Pattern: `.*\S.*`

Required: No

State

The current state of the subnet. Valid values are `available` or `pending`.

Type: String

Pattern: `.*\S.*`

Required: No

SubnetArn

The ARN of the subnet.

Type: String

Pattern: `.*\S.*`

Required: No

SubnetId

The identifier of the subnet.

Type: String

Pattern: `.*\S.*`

Required: No

VpcId

The identifier of the VPC that contains the subnet.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Ipv6CidrBlockAssociation

An IPV6 CIDR block association.

Contents

AssociationId

The association ID for the IPv6 CIDR block.

Type: String

Pattern: `.*\S.*`

Required: No

CidrBlockState

Information about the state of the CIDR block. Valid values are as follows:

- `associating`
- `associated`
- `disassociating`
- `disassociated`
- `failed`
- `failing`

Type: String

Pattern: `.*\S.*`

Required: No

Ipv6CidrBlock

The IPv6 CIDR block.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AvailabilityZone

Information about an Availability Zone.

Contents

SubnetId

The ID of the subnet. You can specify one subnet per Availability Zone.

Type: String

Pattern: `.*\S.*`

Required: No

ZoneName

The name of the Availability Zone.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2TransitGatewayDetails

Information about an AWS Amazon EC2 Transit Gateway that interconnects virtual private clouds (VPCs) and on-premises networks.

Contents

AmazonSideAsn

A private Autonomous System Number (ASN) for the Amazon side of a BGP session.

Type: Integer

Required: No

AssociationDefaultRouteTableId

The ID of the default association route table.

Type: String

Pattern: `.*\S.*`

Required: No

AutoAcceptSharedAttachments

Turn on or turn off automatic acceptance of attachment requests.

Type: String

Pattern: `.*\S.*`

Required: No

DefaultRouteTableAssociation

Turn on or turn off automatic association with the default association route table.

Type: String

Pattern: `.*\S.*`

Required: No

DefaultRouteTablePropagation

Turn on or turn off automatic propagation of routes to the default propagation route table.

Type: String

Pattern: `.*\S.*`

Required: No

Description

The description of the transit gateway.

Type: String

Pattern: `.*\S.*`

Required: No

DnsSupport

Turn on or turn off DNS support.

Type: String

Pattern: `.*\S.*`

Required: No

Id

The ID of the transit gateway.

Type: String

Pattern: `.*\S.*`

Required: No

MulticastSupport

Indicates whether multicast is supported on the transit gateway.

Type: String

Pattern: `.*\S.*`

Required: No

PropagationDefaultRouteTableId

The ID of the default propagation route table.

Type: String

Pattern: `.*\S.*`

Required: No

TransitGatewayCidrBlocks

The transit gateway Classless Inter-Domain Routing (CIDR) blocks.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

VpnEcmpSupport

Turn on or turn off Equal Cost Multipath Protocol (ECMP) support.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2VolumeAttachment

An attachment to an Amazon EC2 volume.

Contents

AttachTime

The datetime when the attachment initiated.

Type: String

Pattern: `.*\S.*`

Required: No

DeleteOnTermination

Whether the EBS volume is deleted when the EC2 instance is terminated.

Type: Boolean

Required: No

InstanceId

The identifier of the EC2 instance.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The attachment state of the volume. Valid values are as follows:

- `attaching`
- `attached`
- `busy`
- `detaching`
- `detached`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2VolumeDetails

Details about an EC2 volume.

Contents

Attachments

The volume attachments.

Type: Array of AwsEc2VolumeAttachment objects

Required: No

CreateTime

Indicates when the volume was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

DeviceName

The device name for the volume that is attached to the instance.

Type: String

Pattern: `.*\S.*`

Required: No

Encrypted

Specifies whether the volume is encrypted.

Type: Boolean

Required: No

KmsKeyId

The ARN of the AWS KMS key that was used to protect the volume encryption key for the volume.

Type: String

Pattern: `.*\S.*`

Required: No

Size

The size of the volume, in GiBs.

Type: Integer

Required: No

SnapshotId

The snapshot from which the volume was created.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The volume state. Valid values are as follows:

- `available`
- `creating`
- `deleted`
- `deleting`
- `error`
- `in-use`

Type: String

Pattern: `.*\S.*`

Required: No

VolumeId

The ID of the volume.

Type: String

Pattern: `.*\S.*`

Required: No

VolumeScanStatus

Indicates whether the volume was scanned or skipped.

Type: String

Pattern: `.*\S.*`

Required: No

VolumeType

The volume type.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2VpcDetails

Details about an EC2 VPC.

Contents

CidrBlockAssociationSet

Information about the IPv4 CIDR blocks associated with the VPC.

Type: Array of CidrBlockAssociation objects

Required: No

DhcpOptionsId

The identifier of the set of Dynamic Host Configuration Protocol (DHCP) options that are associated with the VPC. If the default options are associated with the VPC, then this is default.

Type: String

Pattern: `.*\S.*`

Required: No

Ipv6CidrBlockAssociationSet

Information about the IPv6 CIDR blocks associated with the VPC.

Type: Array of Ipv6CidrBlockAssociation objects

Required: No

State

The current state of the VPC. Valid values are `available` or `pending`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CidrBlockAssociation

An IPv4 CIDR block association.

Contents

AssociationId

The association ID for the IPv4 CIDR block.

Type: String

Pattern: `.*\S.*`

Required: No

CidrBlock

The IPv4 CIDR block.

Type: String

Pattern: `.*\S.*`

Required: No

CidrBlockState

Information about the state of the IPv4 CIDR block.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsEc2VpcEndpointServiceDetails

Contains details about the service configuration for a VPC endpoint service.

Contents

AcceptanceRequired

Whether requests from other AWS accounts to create an endpoint to the service must first be accepted.

Type: Boolean

Required: No

AvailabilityZones

The Availability Zones where the service is available.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

BaseEndpointDnsNames

The DNS names for the service.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

GatewayLoadBalancerArns

The ARNs of the Gateway Load Balancers for the service.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

ManagesVpcEndpoints

Whether the service manages its VPC endpoints.

Type: Boolean

Required: No

NetworkLoadBalancerArns

The ARNs of the Network Load Balancers for the service.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

PrivateDnsName

The private DNS name for the service.

Type: String

Pattern: `.*\S.*`

Required: No

ServiceId

The identifier of the service.

Type: String

Pattern: `.*\S.*`

Required: No

ServiceName

The name of the service.

Type: String

Pattern: `.*\S.*`

Required: No

ServiceState

The current state of the service. Valid values are as follows:

- `Available`
- `Deleted`
- `Deleting`
- `Failed`
- `Pending`

Type: String

Pattern: `.*\S.*`

Required: No

ServiceType

The types for the service.

Type: Array of AwsEc2VpcEndpointServiceServiceTypeDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2VpcEndpointServiceServiceTypeDetails

The service type information for a VPC endpoint service.

Contents

ServiceType

The type of service.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2VpcPeeringConnectionDetails

Provides information about a VPC peering connection between two VPCs: a requester VPC that you own and an accepter VPC with which to create the connection.

Contents

AccepterVpcInfo

Information about the accepter VPC.

Type: AwsEc2VpcPeeringConnectionVpcInfoDetails object

Required: No

ExpirationTime

The time at which an unaccepted VPC peering connection will expire.

Type: String

Pattern: `.*\S.*`

Required: No

RequesterVpcInfo

Information about the requester VPC.

Type: AwsEc2VpcPeeringConnectionVpcInfoDetails object

Required: No

Status

The status of the VPC peering connection.

Type: AwsEc2VpcPeeringConnectionStatusDetails object

Required: No

VpcPeeringConnectionId

The ID of the VPC peering connection.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

VpcInfoCidrBlockSetDetails

Provides details about the IPv4 CIDR blocks for the VPC.

Contents

CidrBlock

The IPv4 CIDR block for the VPC.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

VpcInfoIpv6CidrBlockSetDetails

Provides details about the IPv6 CIDR blocks for the VPC.

Contents

Ipv6CidrBlock

The IPv6 CIDR block for the VPC.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

VpcInfoPeeringOptionsDetails

Provides information about the VPC peering connection options for the accepter or requester VPC.

Contents

AllowDnsResolutionFromRemoteVpc

Indicates whether a local VPC can resolve public DNS hostnames to private IP addresses when queried from instances in a peer VPC.

Type: Boolean

Required: No

AllowEgressFromLocalClassicLinkToRemoteVpc

Indicates whether a local ClassicLink connection can communicate with the peer VPC over the VPC peering connection.

Type: Boolean

Required: No

AllowEgressFromLocalVpcToRemoteClassicLink

Indicates whether a local VPC can communicate with a ClassicLink connection in the peer VPC over the VPC peering connection.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2VpcPeeringConnectionStatusDetails

Details about the status of the VPC peering connection.

Contents

Code

The status of the VPC peering connection.

Type: String

Pattern: `.*\S.*`

Required: No

Message

A message that provides more information about the status, if applicable.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2VpcPeeringConnectionVpcInfoDetails

Describes a VPC in a VPC peering connection.

Contents

CidrBlock

The IPv4 CIDR block for the VPC.

Type: String

Pattern: `.*\S.*`

Required: No

CidrBlockSet

Information about the IPv4 CIDR blocks for the VPC.

Type: Array of VpcInfoCidrBlockSetDetails objects

Required: No

Ipv6CidrBlockSet

The IPv6 CIDR block for the VPC.

Type: Array of VpcInfoIpv6CidrBlockSetDetails objects

Required: No

OwnerId

The ID of the AWS account that owns the VPC.

Type: String

Pattern: `.*\S.*`

Required: No

PeeringOptions

Information about the VPC peering connection options for the accepter or requester VPC.

Type: VpcInfoPeeringOptionsDetails object

Required: No

Region

The AWS Region in which the VPC is located.

Type: String

Pattern: `.*\S.*`

Required: No

VpcId

The ID of the VPC.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2VpnConnectionDetails

Details about an Amazon EC2 VPN connection.

Contents

Category

The category of the VPN connection. `VPN` indicates an AWS VPN connection. `VPN-Classic` indicates an AWS Classic VPN connection.

Type: String

Pattern: `.*\S.*`

Required: No

CustomerGatewayConfiguration

The configuration information for the VPN connection's customer gateway, in the native XML format.

Type: String

Pattern: `.*\S.*`

Required: No

CustomerGatewayId

The identifier of the customer gateway that is at your end of the VPN connection.

Type: String

Pattern: `.*\S.*`

Required: No

Options

The VPN connection options.

Type: AwsEc2VpnConnectionOptionsDetails object

Required: No

Routes

The static routes that are associated with the VPN connection.

Type: Array of AwsEc2VpnConnectionRoutesDetails objects

Required: No

State

The current state of the VPN connection. Valid values are as follows:

- `available`
- `deleted`
- `deleting`
- `pending`

Type: String

Pattern: `.*\S.*`

Required: No

TransitGatewayId

The identifier of the transit gateway that is associated with the VPN connection.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of VPN connection.

Type: String

Pattern: `.*\S.*`

Required: No

VgwTelemetry

Information about the VPN tunnel.

Type: Array of AwsEc2VpnConnectionVgwTelemetryDetails objects

Required: No

VpnConnectionId

The identifier of the VPN connection.

Type: String

Pattern: `.*\S.*`

Required: No

VpnGatewayId

The identifier of the virtual private gateway that is at the AWS side of the VPN connection.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2VpnConnectionOptionsDetails

VPN connection options.

Contents

StaticRoutesOnly

Whether the VPN connection uses static routes only.

Type: Boolean

Required: No

TunnelOptions

The VPN tunnel options.

Type: Array of AwsEc2VpnConnectionOptionsTunnelOptionsDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2VpnConnectionOptionsTunnelOptionsDetails

The VPN tunnel options.

Contents

DpdTimeoutSeconds

The number of seconds after which a Dead Peer Detection (DPD) timeout occurs.

Type: Integer

Required: No

IkeVersions

The Internet Key Exchange (IKE) versions that are permitted for the VPN tunnel.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

OutsideIpAddress

The external IP address of the VPN tunnel.

Type: String

Pattern: `.*\S.*`

Required: No

Phase1DhGroupNumbers

The permitted Diffie-Hellman group numbers for the VPN tunnel for phase 1 IKE negotiations.

Type: Array of integers

Required: No

Phase1EncryptionAlgorithms

The permitted encryption algorithms for the VPN tunnel for phase 1 IKE negotiations.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Phase1IntegrityAlgorithms

The permitted integrity algorithms for the VPN tunnel for phase 1 IKE negotiations.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Phase1LifetimeSeconds

The lifetime for phase 1 of the IKE negotiation, in seconds.

Type: Integer

Required: No

Phase2DhGroupNumbers

The permitted Diffie-Hellman group numbers for the VPN tunnel for phase 2 IKE negotiations.

Type: Array of integers

Required: No

Phase2EncryptionAlgorithms

The permitted encryption algorithms for the VPN tunnel for phase 2 IKE negotiations.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Phase2IntegrityAlgorithms

The permitted integrity algorithms for the VPN tunnel for phase 2 IKE negotiations.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Phase2LifetimeSeconds

The lifetime for phase 2 of the IKE negotiation, in seconds.

Type: Integer

Required: No

PreSharedKey

The preshared key to establish initial authentication between the virtual private gateway and the customer gateway.

Type: String

Pattern: `.*\S.*`

Required: No

RekeyFuzzPercentage

The percentage of the rekey window, which is determined by `RekeyMarginTimeSeconds` during which the rekey time is randomly selected.

Type: Integer

Required: No

RekeyMarginTimeSeconds

The margin time, in seconds, before the phase 2 lifetime expires, during which the AWS side of the VPN connection performs an IKE rekey.

Type: Integer

Required: No

ReplayWindowSize

The number of packets in an IKE replay window.

Type: Integer

Required: No

TunnelInsideCidr

The range of inside IPv4 addresses for the tunnel.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2VpnConnectionRoutesDetails

A static routes associated with the VPN connection.

Contents

DestinationCidrBlock

The CIDR block associated with the local subnet of the customer data center.

Type: String

Pattern: `.*\S.*`

Required: No

State

The current state of the static route.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEc2VpnConnectionVgwTelemetryDetails

Information about the VPN tunnel.

Contents

AcceptedRouteCount

The number of accepted routes.

Type: Integer

Required: No

CertificateArn

The ARN of the VPN tunnel endpoint certificate.

Type: String

Pattern: `.*\S.*`

Required: No

LastStatusChange

The date and time of the last change in status.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

OutsideIpAddress

The Internet-routable IP address of the virtual private gateway's outside interface.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The status of the VPN tunnel. Valid values are `DOWN` or `UP`.

Type: String

Pattern: `.*\S.*`

Required: No

StatusMessage

If an error occurs, a description of the error.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon EC2 Auto Scaling

Amazon EC2 Auto Scaling objects

- AwsAutoScalingAutoScalingGroupAvailabilityZonesListDetails
- AwsAutoScalingAutoScalingGroupDetails
- AwsAutoScalingAutoScalingGroupLaunchTemplateLaunchTemplateSpecification
- AwsAutoScalingAutoScalingGroupMixedInstancesPolicyDetails
- AwsAutoScalingAutoScalingGroupMixedInstancesPolicyInstancesDistributionDetails
- AwsAutoScalingAutoScalingGroupMixedInstancesPolicyLaunchTemplateDetails

- AwsAutoScalingAutoScalingGroupMixedInstancesPolicyLaunchTemplateLaunchTemplateSpecification
- AwsAutoScalingAutoScalingGroupMixedInstancesPolicyLaunchTemplateOverridesListDetails
- AwsAutoScalingLaunchConfigurationBlockDeviceMappingsDetails
- AwsAutoScalingLaunchConfigurationBlockDeviceMappingsEbsDetails
- AwsAutoScalingLaunchConfigurationDetails
- AwsAutoScalingLaunchConfigurationInstanceMonitoringDetails
- AwsAutoScalingLaunchConfigurationMetadataOptions

AwsAutoScalingAutoScalingGroupAvailabilityZonesListDetails

An Availability Zone for the automatic scaling group.

Contents

Value

The name of the Availability Zone.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAutoScalingAutoScalingGroupDetails

Provides details about an auto scaling group.

Contents

AvailabilityZones

The list of Availability Zones for the automatic scaling group.

Type: Array of AwsAutoScalingAutoScalingGroupAvailabilityZonesListDetails objects

Required: No

CapacityRebalance

Indicates whether capacity rebalancing is enabled.

Type: Boolean

Required: No

CreatedTime

Indicates when the auto scaling group was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

HealthCheckGracePeriod

The amount of time, in seconds, that Amazon EC2 Auto Scaling waits before it checks the health status of an EC2 instance that has come into service.

Type: Integer

Required: No

HealthCheckType

The service to use for the health checks. Valid values are EC2 or ELB.

Type: String

Pattern: `.*\S.*`

Required: No

LaunchConfigurationName

The name of the launch configuration.

Type: String

Pattern: `.*\S.*`

Required: No

LaunchTemplate

The launch template to use.

Type: AwsAutoScalingAutoScalingGroupLaunchTemplateLaunchTemplateSpecification object

Required: No

LoadBalancerNames

The list of load balancers associated with the group.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

MixedInstancesPolicy

The mixed instances policy for the automatic scaling group.

Type: AwsAutoScalingAutoScalingGroupMixedInstancesPolicyDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAutoScalingAutoScalingGroupLaunchTemplateLaunchTemplateSpecification

Details about the launch template to use.

Contents

LaunchTemplateId

The identifier of the launch template. You must specify either `LaunchTemplateId` or `LaunchTemplateName`.

Type: String

Pattern: `.*\S.*`

Required: No

LaunchTemplateName

The name of the launch template. You must specify either `LaunchTemplateId` or `LaunchTemplateName`.

Type: String

Pattern: `.*\S.*`

Required: No

Version

Identifies the version of the launch template. You can specify a version identifier, or use the values `$Latest` or `$Default`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAutoScalingAutoScalingGroupMixedInstancesPolicyDetails

The mixed instances policy for the automatic scaling group.

Contents

InstancesDistribution

The instances distribution. The instances distribution specifies the distribution of On-Demand Instances and Spot Instances, the maximum price to pay for Spot Instances, and how the Auto Scaling group allocates instance types to fulfill On-Demand and Spot capacity.

Type: AwsAutoScalingAutoScalingGroupMixedInstancesPolicyInstancesDistributionDetails object

Required: No

LaunchTemplate

The launch template to use and the instance types (overrides) to use to provision EC2 instances to fulfill On-Demand and Spot capacities.

Type: AwsAutoScalingAutoScalingGroupMixedInstancesPolicyLaunchTemplateDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAutoScalingAutoScalingGroupMixedInstancesPolicyInstancesDistributionDetails

Information about the instances distribution.

Contents

OnDemandAllocationStrategy

How to allocate instance types to fulfill On-Demand capacity. The valid value is `prioritized`.

Type: String

Pattern: `.*\S.*`

Required: No

OnDemandBaseCapacity

The minimum amount of the Auto Scaling group's capacity that must be fulfilled by On-Demand Instances.

Type: Integer

Required: No

OnDemandPercentageAboveBaseCapacity

The percentage of On-Demand Instances and Spot Instances for additional capacity beyond `OnDemandBaseCapacity`.

Type: Integer

Required: No

SpotAllocationStrategy

How to allocate instances across Spot Instance pools. Valid values are as follows:

- `lowest-price`
- `capacity-optimized`
- `capacity-optimized-prioritized`

Type: String

Pattern: `.*\S.*`

Required: No

SpotInstancePools

The number of Spot Instance pools across which to allocate your Spot Instances.

Type: Integer

Required: No

SpotMaxPrice

The maximum price per unit hour that you are willing to pay for a Spot Instance.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAutoScalingAutoScalingGroupMixedInstancesPolicyLaunchTemplateDetails

Describes a launch template and overrides for a mixed instances policy.

Contents

LaunchTemplateSpecification

The launch template to use for a mixed instances policy.

Type: AwsAutoScalingAutoScalingGroupMixedInstancesPolicyLaunchTemplateLaunchTemplateSpecification object

Required: No

Overrides

Property values to use to override the values in the launch template.

Type: Array of AwsAutoScalingAutoScalingGroupMixedInstancesPolicyLaunchTemplateOverridesListDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAutoScalingAutoScalingGroupMixedInstancesPolicyLaunchTemplateLaunchTemplat

Details about the launch template to use for a mixed instances policy.

Contents

LaunchTemplateId

The identifier of the launch template. You must specify either `LaunchTemplateId` or `LaunchTemplateName`.

Type: String

Pattern: `.*\S.*`

Required: No

LaunchTemplateName

The name of the launch template. You must specify either `LaunchTemplateId` or `LaunchTemplateName`.

Type: String

Pattern: `.*\S.*`

Required: No

Version

Identifies the version of the launch template. You can specify a version identifier, or use the values `$Latest` or `$Default`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAutoScalingAutoScalingGroupMixedInstancesPolicyLaunchTemplateOverridesListDe

Property values to use to override the values in the launch template.

Contents

InstanceType

The instance type. For example, `m3.xlarge`.

Type: String

Pattern: `.*\S.*`

Required: No

WeightedCapacity

The number of capacity units provided by the specified instance type in terms of virtual CPUs, memory, storage, throughput, or other relative performance characteristic.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAutoScalingLaunchConfigurationBlockDeviceMappingsDetails

A block device for the instance.

Contents

DeviceName

The device name that is exposed to the EC2 instance. For example, `/dev/sdh` or `xvdh`.

Type: String

Pattern: `.*\S.*`

Required: No

Ebs

Parameters that are used to automatically set up Amazon EBS volumes when an instance is launched.

Type: AwsAutoScalingLaunchConfigurationBlockDeviceMappingsEbsDetails object

Required: No

NoDevice

Whether to suppress the device that is included in the block device mapping of the Amazon Machine Image (AMI).

If `NoDevice` is `true`, then you cannot specify `Ebs`.>

Type: Boolean

Required: No

VirtualName

The name of the virtual device (for example, `ephemeral0`).

You can provide either `VirtualName` or `Ebs`, but not both.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAutoScalingLaunchConfigurationBlockDeviceMappingsEbsDetails

Parameters that are used to automatically set up EBS volumes when an instance is launched.

Contents

DeleteOnTermination

Whether to delete the volume when the instance is terminated.

Type: Boolean

Required: No

Encrypted

Whether to encrypt the volume.

Type: Boolean

Required: No

Iops

The number of input/output (I/O) operations per second (IOPS) to provision for the volume.

Only supported for `gp3` or `io1` volumes. Required for `io1` volumes. Not used with `standard`, `gp2`, `st1`, or `sc1` volumes.

Type: Integer

Required: No

SnapshotId

The snapshot ID of the volume to use.

You must specify either `VolumeSize` or `SnapshotId`.

Type: String

Pattern: `.*\S.*`

Required: No

VolumeSize

The volume size, in GiBs. The following are the supported volumes sizes for each volume type:

- gp2 and gp3: 1-16,384
- io1: 4-16,384
- st1 and sc1: 125-16,384
- standard: 1-1,024

You must specify either `SnapshotId` or `VolumeSize`. If you specify both `SnapshotId` and `VolumeSize`, the volume size must be equal or greater than the size of the snapshot.

Type: Integer

Required: No

VolumeType

The volume type. Valid values are as follows:

- `gp2`
- `gp3`
- `io1`
- `sc1`
- `st1`
- `standard`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsAutoScalingLaunchConfigurationDetails

Details about a launch configuration.

Contents

AssociatePublicIpAddress

For Auto Scaling groups that run in a VPC, specifies whether to assign a public IP address to the group's instances.

Type: Boolean

Required: No

BlockDeviceMappings

Specifies the block devices for the instance.

Type: Array of AwsAutoScalingLaunchConfigurationBlockDeviceMappingsDetails objects

Required: No

ClassicLinkVpcId

The identifier of a ClassicLink-enabled VPC that EC2-Classic instances are linked to.

Type: String

Pattern: `.*\S.*`

Required: No

ClassicLinkVpcSecurityGroups

The identifiers of one or more security groups for the VPC that is specified in `ClassicLinkVPCId`.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

CreatedTime

The creation date and time for the launch configuration.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

EbsOptimized

Whether the launch configuration is optimized for Amazon EBS I/O.

Type: Boolean

Required: No

IamInstanceProfile

The name or the ARN of the instance profile associated with the IAM role for the instance. The instance profile contains the IAM role.

Type: String

Pattern: `.*\S.*`

Required: No

ImageId

The identifier of the Amazon Machine Image (AMI) that is used to launch EC2 instances.

Type: String

Pattern: `.*\S.*`

Required: No

InstanceMonitoring

Indicates the type of monitoring for instances in the group.

Type: AwsAutoScalingLaunchConfigurationInstanceMonitoringDetails object

Required: No

InstanceType

The instance type for the instances.

Type: String

Pattern: `.*\S.*`

Required: No

KernelId

The identifier of the kernel associated with the AMI.

Type: String

Pattern: `.*\S.*`

Required: No

KeyName

The name of the key pair.

Type: String

Pattern: `.*\S.*`

Required: No

LaunchConfigurationName

The name of the launch configuration.

Type: String

Pattern: `.*\S.*`

Required: No

MetadataOptions

The metadata options for the instances.

Type: AwsAutoScalingLaunchConfigurationMetadataOptions object

Required: No

PlacementTenancy

The tenancy of the instance. An instance with `dedicated` tenancy runs on isolated, single-tenant hardware and can only be launched into a VPC.

Type: String

Pattern: `.*\S.*`

Required: No

RamdiskId

The identifier of the RAM disk associated with the AMI.

Type: String

Pattern: `.*\S.*`

Required: No

SecurityGroups

The security groups to assign to the instances in the Auto Scaling group.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SpotPrice

The maximum hourly price to be paid for any Spot Instance that is launched to fulfill the request.

Type: String

Pattern: `.*\S.*`

Required: No

UserData

The user data to make available to the launched EC2 instances. Must be base64-encoded text.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAutoScalingLaunchConfigurationInstanceMonitoringDetails

Information about the type of monitoring for instances in the group.

Contents

Enabled

If set to `true`, then instances in the group launch with detailed monitoring.

If set to `false`, then instances in the group launch with basic monitoring.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsAutoScalingLaunchConfigurationMetadataOptions

The metadata options for the instances.

Contents

HttpEndpoint

Enables or disables the HTTP metadata endpoint on your instances. By default, the metadata endpoint is enabled.

Type: String

Pattern: `.*\S.*`

Required: No

HttpPutResponseHopLimit

The HTTP PUT response hop limit for instance metadata requests. The larger the number, the further instance metadata requests can travel.

Type: Integer

Required: No

HttpTokens

Indicates whether token usage is `required` or `optional` for metadata requests. By default, token usage is `optional`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon Elastic Container Registry (ECR)

Amazon Elastic Container Registry (ECR) objects

- AwsEcrContainerImageDetails
- AwsEcrRepositoryDetails
- AwsEcrRepositoryImageScanningConfigurationDetails
- AwsEcrRepositoryLifecyclePolicyDetails

AwsEcrContainerImageDetails

Information about an Amazon ECR image.

Contents

Architecture

The architecture of the image. Valid values are as follows:

- `arm64`
- `i386`
- `x86_64`

Type: String

Pattern: `.*\S.*`

Required: No

ImageDigest

The sha256 digest of the image manifest.

Type: String

Pattern: `.*\S.*`

Required: No

ImagePublishedAt

The date and time when the image was pushed to the repository.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

ImageTags

The list of tags that are associated with the image.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

RegistryId

The AWS account identifier that is associated with the registry that the image belongs to.

Type: String

Pattern: `.*\S.*`

Required: No

RepositoryName

The name of the repository that the image belongs to.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcrRepositoryDetails

Provides information about an Amazon Elastic Container Registry repository.

Contents

Arn

The ARN of the repository.

Type: String

Pattern: `.*\S.*`

Required: No

ImageScanningConfiguration

The image scanning configuration for a repository.

Type: AwsEcrRepositoryImageScanningConfigurationDetails object

Required: No

ImageTagMutability

The tag mutability setting for the repository. Valid values are `IMMUTABLE` or `MUTABLE`.

Type: String

Pattern: `.*\S.*`

Required: No

LifecyclePolicy

Information about the lifecycle policy for the repository.

Type: AwsEcrRepositoryLifecyclePolicyDetails object

Required: No

RepositoryName

The name of the repository.

Type: String

Pattern: `.*\S.*`

Required: No

RepositoryPolicyText

The text of the repository policy.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcrRepositoryImageScanningConfigurationDetails

The image scanning configuration for a repository.

Contents

ScanOnPush

Whether to scan images after they are pushed to a repository.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcrRepositoryLifecyclePolicyDetails

Information about the lifecycle policy for the repository.

Contents

LifecyclePolicyText

The text of the lifecycle policy.

Type: String

Pattern: `.*\S.*`

Required: No

RegistryId

The AWS account identifier that is associated with the registry that contains the repository.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon Elastic Container Service (ECS) objects

Amazon Elastic Container Service (ECS) objects

- AwsEcsClusterClusterSettingsDetails
- AwsEcsClusterConfigurationDetails

- AwsEcsClusterConfigurationExecuteCommandConfigurationDetails
- AwsEcsClusterConfigurationExecuteCommandConfigurationLogConfigurationDetails
- AwsEcsClusterDefaultCapacityProviderStrategyDetails
- AwsEcsClusterDetails
- AwsEcsContainerDetails
- AwsEcsServiceCapacityProviderStrategyDetails
- AwsEcsServiceDeploymentConfigurationDeploymentCircuitBreakerDetails
- AwsEcsServiceDeploymentConfigurationDetails
- AwsEcsServiceDeploymentControllerDetails
- AwsEcsServiceDetails
- AwsEcsServiceLoadBalancersDetails
- AwsEcsServiceNetworkConfigurationAwsVpcConfigurationDetails
- AwsEcsServiceNetworkConfigurationDetails
- AwsEcsServicePlacementConstraintsDetails
- AwsEcsServicePlacementStrategiesDetails
- AwsEcsServiceServiceRegistriesDetails
- AwsEcsTaskDefinitionContainerDefinitionsDependsOnDetails
- AwsEcsTaskDefinitionContainerDefinitionsDetails
- AwsEcsTaskDefinitionContainerDefinitionsEnvironmentDetails
- AwsEcsTaskDefinitionContainerDefinitionsEnvironmentFilesDetails
- AwsEcsTaskDefinitionContainerDefinitionsExtraHostsDetails
- AwsEcsTaskDefinitionContainerDefinitionsFirelensConfigurationDetails
- AwsEcsTaskDefinitionContainerDefinitionsHealthCheckDetails
- AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersCapabilitiesDetails
- AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersDetails
- AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersDevicesDetails
- AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersTmpfsDetails
- AwsEcsTaskDefinitionContainerDefinitionsLogConfigurationDetails
- AwsEcsTaskDefinitionContainerDefinitionsLogConfigurationSecretOptionsDetails
- AwsEcsTaskDefinitionContainerDefinitionsMountPointsDetails

- AwsEcsTaskDefinitionContainerDefinitionsPortMappingsDetails
- AwsEcsTaskDefinitionContainerDefinitionsRepositoryCredentialsDetails
- AwsEcsTaskDefinitionContainerDefinitionsResourceRequirementsDetails
- AwsEcsTaskDefinitionContainerDefinitionsSecretsDetails
- AwsEcsTaskDefinitionContainerDefinitionsSystemControlsDetails
- AwsEcsTaskDefinitionContainerDefinitionsUlimitsDetails
- AwsEcsTaskDefinitionContainerDefinitionsVolumesFromDetails
- AwsEcsTaskDefinitionDetails
- AwsEcsTaskDefinitionInferenceAcceleratorsDetails
- AwsEcsTaskDefinitionPlacementConstraintsDetails
- AwsEcsTaskDefinitionProxyConfigurationDetails
- AwsEcsTaskDefinitionProxyConfigurationProxyConfigurationPropertiesDetails
- AwsEcsTaskDefinitionVolumesDetails
- AwsEcsTaskDefinitionVolumesDockerVolumeConfigurationDetails
- AwsEcsTaskDefinitionVolumesEfsVolumeConfigurationAuthorizationConfigDetails
- AwsEcsTaskDefinitionVolumesEfsVolumeConfigurationDetails
- AwsEcsTaskDefinitionVolumesHostDetails
- AwsEcsTaskDetails
- AwsEcsTaskVolumeDetails
- AwsEcsTaskVolumeHostDetails
- AwsMountPoint

AwsEcsClusterClusterSettingsDetails

Indicates whether to enable CloudWatch Container Insights for the ECS cluster.

Contents

Name

The name of the setting. The valid value is `containerInsights`.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The value of the setting. Valid values are `disabled` or `enabled`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsClusterConfigurationDetails

The run command configuration for the cluster.

Contents

ExecuteCommandConfiguration

Contains the run command configuration for the cluster.

Type: AwsEcsClusterConfigurationExecuteCommandConfigurationDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsClusterConfigurationExecuteCommandConfigurationDetails

Contains the run command configuration for the cluster.

Contents

KmsKeyId

The identifier of the KMS key that is used to encrypt the data between the local client and the container.

Type: String

Pattern: `.*\S.*`

Required: No

LogConfiguration

The log configuration for the results of the run command actions. Required if `Logging` is `NONE`.

Type: AwsEcsClusterConfigurationExecuteCommandConfigurationLogConfigurationDetails object

Required: No

Logging

The log setting to use for redirecting logs for run command results.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsEcsClusterConfigurationExecuteCommandConfigurationLogConfigurationDetails

The log configuration for the results of the run command actions.

Contents

CloudWatchEncryptionEnabled

Whether to enable encryption on the CloudWatch logs.

Type: Boolean

Required: No

CloudWatchLogGroupName

The name of the CloudWatch log group to send the logs to.

Type: String

Pattern: `.*\S.*`

Required: No

S3BucketName

The name of the S3 bucket to send logs to.

Type: String

Pattern: `.*\S.*`

Required: No

S3EncryptionEnabled

Whether to encrypt the logs that are sent to the S3 bucket.

Type: Boolean

Required: No

S3KeyPrefix

Identifies the folder in the S3 bucket to send the logs to.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsClusterDefaultCapacityProviderStrategyDetails

The default capacity provider strategy for the cluster. The default capacity provider strategy is used when services or tasks are run without a specified launch type or capacity provider strategy.

Contents

Base

The minimum number of tasks to run on the specified capacity provider.

Type: Integer

Required: No

CapacityProvider

The name of the capacity provider.

Type: String

Pattern: `.*\S.*`

Required: No

Weight

The relative percentage of the total number of tasks launched that should use the capacity provider.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsClusterDetails

Provides details about an Amazon ECS cluster.

Contents

ActiveServicesCount

The number of services that are running on the cluster in an `ACTIVE` state. You can view these services with the Amazon ECS `ListServices` API operation.

Type: Integer

Required: No

CapacityProviders

The short name of one or more capacity providers to associate with the cluster.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

ClusterArn

The Amazon Resource Name (ARN) that identifies the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

ClusterName

A name that you use to identify your cluster.

Type: String

Pattern: `.*\S.*`

Required: No

ClusterSettings

The setting to use to create the cluster. Specifically used to configure whether to enable CloudWatch Container Insights for the cluster.

Type: Array of AwsEcsClusterClusterSettingsDetails objects

Required: No

Configuration

The run command configuration for the cluster.

Type: AwsEcsClusterConfigurationDetails object

Required: No

DefaultCapacityProviderStrategy

The default capacity provider strategy for the cluster. The default capacity provider strategy is used when services or tasks are run without a specified launch type or capacity provider strategy.

Type: Array of AwsEcsClusterDefaultCapacityProviderStrategyDetails objects

Required: No

RegisteredContainerInstancesCount

The number of container instances registered into the cluster. This includes container instances in both `ACTIVE` and `DRAINING` status.

Type: Integer

Required: No

RunningTasksCount

The number of tasks in the cluster that are in the `RUNNING` state.

Type: Integer

Required: No

Status

The status of the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsContainerDetails

Provides information about an Amazon ECS container.

Contents

Image

The image used for the container.

Type: String

Pattern: `.*\S.*`

Required: No

MountPoints

The mount points for data volumes in your container.

Type: Array of AwsMountPoint objects

Required: No

Name

The name of the container.

Type: String

Pattern: `.*\S.*`

Required: No

Privileged

When this parameter is true, the container is given elevated privileges on the host container instance (similar to the root user).

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsServiceCapacityProviderStrategyDetails

Strategy item for the capacity provider strategy that the service uses.

Contents

Base

The minimum number of tasks to run on the capacity provider. Only one strategy item can specify a value for `Base`.

The value must be between 0 and 100000.

Type: Integer

Required: No

CapacityProvider

The short name of the capacity provider.

Type: String

Pattern: `.*\S.*`

Required: No

Weight

The relative percentage of the total number of tasks that should use the capacity provider.

If no weight is specified, the default value is 0. At least one capacity provider must have a weight greater than 0.

The value can be between 0 and 1000.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsServiceDeploymentConfigurationDeploymentCircuitBreakerDetails

Determines whether a service deployment fails if a service cannot reach a steady state.

Contents

Enable

Whether to enable the deployment circuit breaker logic for the service.

Type: Boolean

Required: No

Rollback

Whether to roll back the service if a service deployment fails. If rollback is enabled, when a service deployment fails, the service is rolled back to the last deployment that completed successfully.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsServiceDeploymentConfigurationDetails

Optional deployment parameters for the service.

Contents

DeploymentCircuitBreaker

Determines whether a service deployment fails if a service cannot reach a steady state.

Type: AwsEcsServiceDeploymentConfigurationDeploymentCircuitBreakerDetails object

Required: No

MaximumPercent

For a service that uses the rolling update (`ECS`) deployment type, the maximum number of tasks in a service that are allowed in the `RUNNING` or `PENDING` state during a deployment, and for tasks that use the EC2 launch type, when any container instances are in the `DRAINING` state. Provided as a percentage of the desired number of tasks. The default value is 200%.

For a service that uses the blue/green (`CODE_DEPLOY`) or `EXTERNAL` deployment types, and tasks that use the EC2 launch type, the maximum number of tasks in the service that remain in the `RUNNING` state while the container instances are in the `DRAINING` state.

For the Fargate launch type, the maximum percent value is not used.

Type: Integer

Required: No

MinimumHealthyPercent

For a service that uses the rolling update (`ECS`) deployment type, the minimum number of tasks in a service that must remain in the `RUNNING` state during a deployment, and while any container instances are in the `DRAINING` state if the service contains tasks using the EC2 launch type. Expressed as a percentage of the desired number of tasks. The default value is 100%.

For a service that uses the blue/green (`CODE_DEPLOY`) or `EXTERNAL` deployment types and tasks that use the EC2 launch type, the minimum number of the tasks in the service that remain in the `RUNNING` state while the container instances are in the `DRAINING` state.

For the Fargate launch type, the minimum healthy percent value is not used.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsServiceDeploymentControllerDetails

Information about the deployment controller type that the service uses.

Contents

Type

The rolling update (`ECS`) deployment type replaces the current running version of the container with the latest version.

The blue/green (`CODE_DEPLOY`) deployment type uses the blue/green deployment model that is powered by AWS CodeDeploy. This deployment model a new deployment of a service can be verified before production traffic is sent to it.

The external (`EXTERNAL`) deployment type allows the use of any third-party deployment controller for full control over the deployment process for an Amazon ECS service.

Valid values: `ECS` | `CODE_DEPLOY` | `EXTERNAL`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsServiceDetails

Provides details about a service within an ECS cluster.

Contents

CapacityProviderStrategy

The capacity provider strategy that the service uses.

Type: Array of AwsEcsServiceCapacityProviderStrategyDetails objects

Required: No

Cluster

The ARN of the cluster that hosts the service.

Type: String

Pattern: `.*\S.*`

Required: No

DeploymentConfiguration

Deployment parameters for the service. Includes the number of tasks that run and the order in which to start and stop tasks.

Type: AwsEcsServiceDeploymentConfigurationDetails object

Required: No

DeploymentController

Contains the deployment controller type that the service uses.

Type: AwsEcsServiceDeploymentControllerDetails object

Required: No

DesiredCount

The number of instantiations of the task definition to run on the service.

Type: Integer

Required: No

EnableEcsManagedTags

Whether to enable Amazon ECS managed tags for the tasks in the service.

Type: Boolean

Required: No

EnableExecuteCommand

Whether the execute command functionality is enabled for the service.

Type: Boolean

Required: No

HealthCheckGracePeriodSeconds

After a task starts, the amount of time in seconds that the Amazon ECS service scheduler ignores unhealthy Elastic Load Balancing target health checks.

Type: Integer

Required: No

LaunchType

The launch type that the service uses.

Valid values: `EC2` | `FARGATE` | `EXTERNAL`

Type: String

Pattern: `.*\S.*`

Required: No

LoadBalancers

Information about the load balancers that the service uses.

Type: Array of AwsEcsServiceLoadBalancersDetails objects

Required: No

Name

The name of the service.

Type: String

Pattern: `.*\S.*`

Required: No

NetworkConfiguration

For tasks that use the `awsvpc` networking mode, the VPC subnet and security group configuration.

Type: AwsEcsServiceNetworkConfigurationDetails object

Required: No

PlacementConstraints

The placement constraints for the tasks in the service.

Type: Array of AwsEcsServicePlacementConstraintsDetails objects

Required: No

PlacementStrategies

Information about how tasks for the service are placed.

Type: Array of AwsEcsServicePlacementStrategiesDetails objects

Required: No

PlatformVersion

The platform version on which to run the service. Only specified for tasks that are hosted on AWS Fargate. If a platform version is not specified, the `LATEST` platform version is used by default.

Type: String

Pattern: `.*\S.*`

Required: No

PropagateTags

Indicates whether to propagate the tags from the task definition to the task or from the service to the task. If no value is provided, then tags are not propagated.

Valid values: `TASK_DEFINITION` | `SERVICE`

Type: String

Pattern: `.*\S.*`

Required: No

Role

The ARN of the IAM role that is associated with the service. The role allows the Amazon ECS container agent to register container instances with an Elastic Load Balancing load balancer.

Type: String

Pattern: `.*\S.*`

Required: No

SchedulingStrategy

The scheduling strategy to use for the service.

The `REPLICA` scheduling strategy places and maintains the desired number of tasks across the cluster. By default, the service scheduler spreads tasks across Availability Zones. Task placement strategies and constraints are used to customize task placement decisions.

The `DAEMON` scheduling strategy deploys exactly one task on each active container instance that meets all of the task placement constraints that are specified in the cluster. The service scheduler also evaluates the task placement constraints for running tasks and stops tasks that don't meet the placement constraints.

Valid values: `REPLICA` | `DAEMON`

Type: String

Pattern: `.*\S.*`

Required: No

ServiceArn

The ARN of the service.

Type: String

Pattern: `.*\S.*`

Required: No

ServiceName

The name of the service.

The name can contain up to 255 characters. It can use letters, numbers, underscores, and hyphens.

Type: String

Pattern: `.*\S.*`

Required: No

ServiceRegistries

Information about the service discovery registries to assign to the service.

Type: Array of AwsEcsServiceServiceRegistriesDetails objects

Required: No

TaskDefinition

The task definition to use for tasks in the service.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsServiceLoadBalancersDetails

Information about a load balancer that the service uses.

Contents

ContainerName

The name of the container to associate with the load balancer.

Type: String

Pattern: `.*\S.*`

Required: No

ContainerPort

The port on the container to associate with the load balancer. This port must correspond to a `containerPort` in the task definition the tasks in the service are using. For tasks that use the EC2 launch type, the container instance they are launched on must allow ingress traffic on the `hostPort` of the port mapping.

Type: Integer

Required: No

LoadBalancerName

The name of the load balancer to associate with the Amazon ECS service or task set.

Only specified when using a Classic Load Balancer. For an Application Load Balancer or a Network Load Balancer, the load balancer name is omitted.

Type: String

Pattern: `.*\S.*`

Required: No

TargetGroupArn

The ARN of the Elastic Load Balancing target group or groups associated with a service or task set.

Only specified when using an Application Load Balancer or a Network Load Balancer. For a Classic Load Balancer, the target group ARN is omitted.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsServiceNetworkConfigurationAwsVpcConfigurationDetails

For tasks that use the `awsvpc` networking mode, the VPC subnet and security group configuration.

Contents

AssignPublicIp

Whether the task's elastic network interface receives a public IP address. The default value is `DISABLED`.

Valid values: `ENABLED` | `DISABLED`

Type: String

Pattern: `.*\S.*`

Required: No

SecurityGroups

The IDs of the security groups associated with the task or service.

You can provide up to five security groups.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Subnets

The IDs of the subnets associated with the task or service.

You can provide up to 16 subnets.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsServiceNetworkConfigurationDetails

For tasks that use the `awsvpc` networking mode, the VPC subnet and security group configuration.

Contents

AwsVpcConfiguration

The VPC subnet and security group configuration.

Type: AwsEcsServiceNetworkConfigurationAwsVpcConfigurationDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsServicePlacementConstraintsDetails

A placement constraint for the tasks in the service.

Contents

Expression

A cluster query language expression to apply to the constraint. You cannot specify an expression if the constraint type is `distinctInstance`.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of constraint. Use `distinctInstance` to run each task in a particular group on a different container instance. Use `memberOf` to restrict the selection to a group of valid candidates.

Valid values: `distinctInstance` | `memberOf`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsServicePlacementStrategiesDetails

A placement strategy that determines how to place the tasks for the service.

Contents

Field

The field to apply the placement strategy against.

For the `spread` placement strategy, valid values are `instanceId` (or `host`, which has the same effect), or any platform or custom attribute that is applied to a container instance, such as `attribute:ecs.availability-zone`.

For the `binpack` placement strategy, valid values are `cpu` and `memory`.

For the `random` placement strategy, this attribute is not used.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of placement strategy.

The `random` placement strategy randomly places tasks on available candidates.

The `spread` placement strategy spreads placement across available candidates evenly based on the value of `Field`.

The `binpack` strategy places tasks on available candidates that have the least available amount of the resource that is specified in `Field`.

Valid values: `random` | `spread` | `binpack`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsServiceServiceRegistriesDetails

Information about a service discovery registry to assign to the service.

Contents

ContainerName

The container name value to use for the service discovery service.

If the task definition uses the `bridge` or `host` network mode, you must specify `ContainerName` and `ContainerPort`.

If the task definition uses the `awsvpc` network mode and a type SRV DNS record, you must specify either `ContainerName` and `ContainerPort`, or `Port` , but not both.

Type: String

Pattern: `.*\S.*`

Required: No

ContainerPort

The port value to use for the service discovery service.

If the task definition uses the `bridge` or `host` network mode, you must specify `ContainerName` and `ContainerPort`.

If the task definition uses the `awsvpc` network mode and a type SRV DNS record, you must specify either `ContainerName` and `ContainerPort`, or `Port` , but not both.

Type: Integer

Required: No

Port

The port value to use for a service discovery service that specifies an SRV record. This field can be used if both the `awsvpc`awsvpc network mode and SRV records are used.

Type: Integer

Required: No

RegistryArn

The ARN of the service registry.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsDependsOnDetails

A dependency that is defined for container startup and shutdown.

Contents

Condition

The dependency condition of the dependent container. Indicates the required status of the dependent container before the current container can start. Valid values are as follows:

- `COMPLETE`
- `HEALTHY`
- `SUCCESS`
- `START`

Type: String

Pattern: `.*\S.*`

Required: No

ContainerName

The name of the dependent container.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsDetails

A container definition that describes a container in the task.

Contents

Command

The command that is passed to the container.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Cpu

The number of CPU units reserved for the container.

Type: Integer

Required: No

DependsOn

The dependencies that are defined for container startup and shutdown.

Type: Array of AwsEcsTaskDefinitionContainerDefinitionsDependsOnDetails objects

Required: No

DisableNetworking

Whether to disable networking within the container.

Type: Boolean

Required: No

DnsSearchDomains

A list of DNS search domains that are presented to the container.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

DnsServers

A list of DNS servers that are presented to the container.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

DockerLabels

A key-value map of labels to add to the container.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

DockerSecurityOptions

A list of strings to provide custom labels for SELinux and AppArmor multi-level security systems.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

EntryPoint

The entry point that is passed to the container.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Environment

The environment variables to pass to a container.

Type: Array of AwsEcsTaskDefinitionContainerDefinitionsEnvironmentDetails objects

Required: No

EnvironmentFiles

A list of files containing the environment variables to pass to a container.

Type: Array of AwsEcsTaskDefinitionContainerDefinitionsEnvironmentFilesDetails objects

Required: No

Essential

Whether the container is essential. All tasks must have at least one essential container.

Type: Boolean

Required: No

ExtraHosts

A list of hostnames and IP address mappings to append to the **/etc/hosts** file on the container.

Type: Array of AwsEcsTaskDefinitionContainerDefinitionsExtraHostsDetails objects

Required: No

FirelensConfiguration

The FireLens configuration for the container. Specifies and configures a log router for container logs.

Type: AwsEcsTaskDefinitionContainerDefinitionsFirelensConfigurationDetails object

Required: No

HealthCheck

The container health check command and associated configuration parameters for the container.

Type: AwsEcsTaskDefinitionContainerDefinitionsHealthCheckDetails object

Required: No

Hostname

The hostname to use for the container.

Type: String

Pattern: `.*\S.*`

Required: No

Image

The image used to start the container.

Type: String

Pattern: `.*\S.*`

Required: No

Interactive

If set to true, then containerized applications can be deployed that require `stdin` or a `tty` to be allocated.

Type: Boolean

Required: No

Links

A list of links for the container in the form *`container_name`*`:`*`alias`* . Allows containers to communicate with each other without the need for port mappings.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

LinuxParameters

Linux-specific modifications that are applied to the container, such as Linux kernel capabilities.

Type: AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersDetails object

Required: No

LogConfiguration

The log configuration specification for the container.

Type: AwsEcsTaskDefinitionContainerDefinitionsLogConfigurationDetails object

Required: No

Memory

The amount (in MiB) of memory to present to the container. If the container attempts to exceed the memory specified here, the container is shut down. The total amount of memory reserved for all containers within a task must be lower than the task memory value, if one is specified.

Type: Integer

Required: No

MemoryReservation

The soft limit (in MiB) of memory to reserve for the container.

Type: Integer

Required: No

MountPoints

The mount points for the data volumes in the container.

Type: Array of AwsEcsTaskDefinitionContainerDefinitionsMountPointsDetails objects

Required: No

Name

The name of the container.

Type: String

Pattern: `.*\S.*`

Required: No

PortMappings

The list of port mappings for the container.

Type: Array of AwsEcsTaskDefinitionContainerDefinitionsPortMappingsDetails objects

Required: No

Privileged

Whether the container is given elevated privileges on the host container instance. The elevated privileges are similar to the root user.

Type: Boolean

Required: No

PseudoTerminal

Whether to allocate a TTY to the container.

Type: Boolean

Required: No

ReadonlyRootFilesystem

Whether the container is given read-only access to its root file system.

Type: Boolean

Required: No

RepositoryCredentials

The private repository authentication credentials to use.

Type: AwsEcsTaskDefinitionContainerDefinitionsRepositoryCredentialsDetails object

Required: No

ResourceRequirements

The type and amount of a resource to assign to a container. The only supported resource is a GPU.

Type: Array of AwsEcsTaskDefinitionContainerDefinitionsResourceRequirementsDetails objects

Required: No

Secrets

The secrets to pass to the container.

Type: Array of AwsEcsTaskDefinitionContainerDefinitionsSecretsDetails objects

Required: No

StartTimeout

The number of seconds to wait before giving up on resolving dependencies for a container.

Type: Integer

Required: No

StopTimeout

The number of seconds to wait before the container is stopped if it doesn't shut down normally on its own.

Type: Integer

Required: No

SystemControls

A list of namespaced kernel parameters to set in the container.

Type: Array of AwsEcsTaskDefinitionContainerDefinitionsSystemControlsDetails objects

Required: No

Ulimits

A list of ulimits to set in the container.

Type: Array of AwsEcsTaskDefinitionContainerDefinitionsUlimitsDetails objects

Required: No

User

The user to use inside the container.

The value can use one of the following formats.

- *user*
- *user* : *group*
- *uid*
- *uid* : *gid*
- *user* : *gid*
- *uid* : *group*

Type: String

Pattern: `.*\S.*`

Required: No

VolumesFrom

Data volumes to mount from another container.

Type: Array of AwsEcsTaskDefinitionContainerDefinitionsVolumesFromDetails objects

Required: No

WorkingDirectory

The working directory in which to run commands inside the container.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsEnvironmentDetails

An environment variable to pass to the container.

Contents

Name

The name of the environment variable.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The value of the environment variable.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsEnvironmentFilesDetails

A file that contain environment variables to pass to a container.

Contents

Type

The type of environment file. The valid value is `s3`.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The ARN of the S3 object that contains the environment variable file.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsExtraHostsDetails

A hostname and IP address mapping to append to the **/etc/hosts** file on the container.

Contents

Hostname

The hostname to use in the **/etc/hosts** entry.

Type: String

Pattern: `.*\S.*`

Required: No

IpAddress

The IP address to use in the **/etc/hosts** entry.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsFirelensConfigurationDetails

The FireLens configuration for the container. The configuration specifies and configures a log router for container logs.

Contents

Options

The options to use to configure the log router.

The valid option keys are as follows:

- `enable-ecs-log-metadata`. The value can be `true` or `false`.
- `config-file-type`. The value can be `s3` or `file`.
- `config-file-value`. The value is either an S3 ARN or a file path.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

Type

The log router to use. Valid values are `fluentbit` or `fluentd`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsHealthCheckDetails

The container health check command and associated configuration parameters for the container.

Contents

Command

The command that the container runs to determine whether it is healthy.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Interval

The time period in seconds between each health check execution. The default value is 30 seconds.

Type: Integer

Required: No

Retries

The number of times to retry a failed health check before the container is considered unhealthy. The default value is 3.

Type: Integer

Required: No

StartPeriod

The optional grace period in seconds that allows containers time to bootstrap before failed health checks count towards the maximum number of retries.

Type: Integer

Required: No

Timeout

The time period in seconds to wait for a health check to succeed before it is considered a failure. The default value is 5.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersCapabilitiesDetails

The Linux capabilities for the container that are added to or dropped from the default configuration provided by Docker.

Contents

Add

The Linux capabilities for the container that are added to the default configuration provided by Docker. Valid values are as follows:

Valid values: `"ALL" | "AUDIT_CONTROL" | "AUDIT_WRITE" | "BLOCK_SUSPEND" | "CHOWN" | "DAC_OVERRIDE" | "DAC_READ_SEARCH" | "FOWNER" | "FSETID" | "IPC_LOCK" | "IPC_OWNER" | "KILL" | "LEASE" | "LINUX_IMMUTABLE" | "MAC_ADMIN" | "MAC_OVERRIDE" | "MKNOD" | "NET_ADMIN" | "NET_BIND_SERVICE" | "NET_BROADCAST" | "NET_RAW" | "SETFCAP" | "SETGID" | "SETPCAP" | "SETUID" | "SYS_ADMIN" | "SYS_BOOT" | "SYS_CHROOT" | "SYS_MODULE" | "SYS_NICE" | "SYS_PACCT" | "SYS_PTRACE" | "SYS_RAWIO" | "SYS_RESOURCE" | "SYS_TIME" | "SYS_TTY_CONFIG" | "SYSLOG" | "WAKE_ALARM"`

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Drop

The Linux capabilities for the container that are dropped from the default configuration provided by Docker.

Valid values: `"ALL" | "AUDIT_CONTROL" | "AUDIT_WRITE" | "BLOCK_SUSPEND" | "CHOWN" | "DAC_OVERRIDE" | "DAC_READ_SEARCH" | "FOWNER" | "FSETID" | "IPC_LOCK" | "IPC_OWNER" | "KILL" | "LEASE" | "LINUX_IMMUTABLE" | "MAC_ADMIN" | "MAC_OVERRIDE" | "MKNOD" | "NET_ADMIN" | "NET_BIND_SERVICE" | "NET_BROADCAST" | "NET_RAW" | "SETFCAP" | "SETGID" | "SETPCAP" | "SETUID" | "SYS_ADMIN" | "SYS_BOOT" | "SYS_CHROOT" | "SYS_MODULE" | "SYS_NICE" | "SYS_PACCT" | "SYS_PTRACE" | "SYS_RAWIO" | "SYS_RESOURCE" | "SYS_TIME" | "SYS_TTY_CONFIG" | "SYSLOG" | "WAKE_ALARM"`

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersDetails

>Linux-specific modifications that are applied to the container, such as Linux kernel capabilities.

Contents

Capabilities

The Linux capabilities for the container that are added to or dropped from the default configuration provided by Docker.

Type: AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersCapabilitiesDetails object

Required: No

Devices

The host devices to expose to the container.

Type: Array of AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersDevicesDetails objects

Required: No

InitProcessEnabled

Whether to run an `init` process inside the container that forwards signals and reaps processes.

Type: Boolean

Required: No

MaxSwap

The total amount of swap memory (in MiB) that a container can use.

Type: Integer

Required: No

SharedMemorySize

The value for the size (in MiB) of the **/dev/shm** volume.

Type: Integer

Required: No

Swappiness

Configures the container's memory swappiness behavior. Determines how aggressively pages are swapped. The higher the value, the more aggressive the swappiness. The default is 60.

Type: Integer

Required: No

Tmpfs

The container path, mount options, and size (in MiB) of the tmpfs mount.

Type: Array of AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersTmpfsDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersDevicesDetails

A host device to expose to the container.

Contents

ContainerPath

The path inside the container at which to expose the host device.

Type: String

Pattern: `.*\S.*`

Required: No

HostPath

The path for the device on the host container instance.

Type: String

Pattern: `.*\S.*`

Required: No

Permissions

The explicit permissions to provide to the container for the device. By default, the container has permissions for read, write, and `mknod` for the device.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsLinuxParametersTmpfsDetails

The container path, mount options, and size (in MiB) of a tmpfs mount.

Contents

ContainerPath

The absolute file path where the tmpfs volume is to be mounted.

Type: String

Pattern: `.*\S.*`

Required: No

MountOptions

The list of tmpfs volume mount options.

Valid values: `"defaults"` | `"ro"` | `"rw"` | `"suid"` | `"nosuid"` | `"dev"` | `"nodev"` | `"exec"` | `"noexec"` | `"sync"` | `"async"` | `"dirsync"` | `"remount"` | `"mand"` | `"nomand"` | `"atime"` | `"noatime"` | `"diratime"` | `"nodiratime"` | `"bind"` | `"rbind"` | `"unbindable"` | `"runbindable"` | `"private"` | `"rprivate"` | `"shared"` | `"rshared"` | `"slave"` | `"rslave"` | `"relatime"` | `"norelatime"` | `"strictatime"` | `"nostrictatime"` | `"mode"` | `"uid"` | `"gid"` | `"nr_inodes"` | `"nr_blocks"` | `"mpol"`

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Size

The maximum size (in MiB) of the tmpfs volume.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsLogConfigurationDetails

The log configuration specification for the container.

Contents

LogDriver

The log driver to use for the container.

Valid values on AWS Fargate are as follows:

- `awsfirelens`
- `awslogs`
- `splunk`

Valid values on Amazon EC2 are as follows:

- `awsfirelens`
- `awslogs`
- `fluentd`
- `gelf`
- `journald`
- `json-file`
- `logentries`
- `splunk`
- `syslog`

Type: String

Pattern: `.*\S.*`

Required: No

Options

The configuration options to send to the log driver. Requires version 1.19 of the Docker Remote API or greater on your container instance.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

SecretOptions

The secrets to pass to the log configuration.

Type: Array of AwsEcsTaskDefinitionContainerDefinitionsLogConfigurationSecretOptionsDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsLogConfigurationSecretOptionsDetails

A secret to pass to the log configuration.

Contents

Name

The name of the secret.

Type: String

Pattern: `.*\S.*`

Required: No

ValueFrom

The secret to expose to the container.

The value is either the full ARN of the Secrets Manager secret or the full ARN of the parameter in the Systems Manager Parameter Store.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsMountPointsDetails

A mount point for the data volumes in the container.

Contents

ContainerPath

The path on the container to mount the host volume at.

Type: String

Pattern: `.*\S.*`

Required: No

ReadOnly

Whether the container has read-only access to the volume.

Type: Boolean

Required: No

SourceVolume

The name of the volume to mount. Must match the name of a volume listed in `VolumeDetails` for the task definition.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsPortMappingsDetails

A port mapping for the container.

Contents

ContainerPort

The port number on the container that is bound to the user-specified or automatically assigned host port.

Type: Integer

Required: No

HostPort

The port number on the container instance to reserve for the container.

Type: Integer

Required: No

Protocol

The protocol used for the port mapping. The default is `tcp`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsRepositoryCredentialsDetails

The private repository authentication credentials to use.

Contents

CredentialsParameter

The ARN of the secret that contains the private repository credentials.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsResourceRequirementsDetails

A resource to assign to a container.

Contents

Type

The type of resource to assign to a container. Valid values are `GPU` or `InferenceAccelerator`.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The value for the specified resource type.

For `GPU`, the value is the number of physical GPUs the Amazon ECS container agent reserves for the container.

For `InferenceAccelerator`, the value should match the `DeviceName` attribute of an entry in `InferenceAccelerators`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsSecretsDetails

A secret to pass to the container.

Contents

Name

The name of the secret.

Type: String

Pattern: `.*\S.*`

Required: No

ValueFrom

The secret to expose to the container. The value is either the full ARN of the Secrets Manager secret or the full ARN of the parameter in the Systems Manager Parameter Store.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsSystemControlsDetails

A namespaced kernel parameter to set in the container.

Contents

Namespace

The namespaced kernel parameter for which to set a value.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The value of the parameter.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsUlimitsDetails

A ulimit to set in the container.

Contents

HardLimit

The hard limit for the ulimit type.

Type: Integer

Required: No

Name

The type of the ulimit. Valid values are as follows:

- `core`
- `cpu`
- `data`
- `fsize`
- `locks`
- `memlock`
- `msgqueue`
- `nice`
- `nofile`
- `nproc`
- `rss`
- `rtprio`
- `rttime`
- `sigpending`
- `stack`

Type: String

Pattern: `.*\S.*`

Required: No

SoftLimit

The soft limit for the ulimit type.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionContainerDefinitionsVolumesFromDetails

A data volume to mount from another container.

Contents

ReadOnly

Whether the container has read-only access to the volume.

Type: Boolean

Required: No

SourceContainer

The name of another container within the same task definition from which to mount volumes.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionDetails

Details about a task definition. A task definition describes the container and volume definitions of an Amazon Elastic Container Service task.

Contents

ContainerDefinitions

The container definitions that describe the containers that make up the task.

Type: Array of AwsEcsTaskDefinitionContainerDefinitionsDetails objects

Required: No

Cpu

The number of CPU units used by the task.Valid values are as follows:

- `256 (.25 vCPU)`
- `512 (.5 vCPU)`
- `1024 (1 vCPU)`
- `2048 (2 vCPU)`
- `4096 (4 vCPU)`

Type: String

Pattern: `.*\S.*`

Required: No

ExecutionRoleArn

The ARN of the task execution role that grants the container agent permission to make API calls on behalf of the container user.

Type: String

Pattern: `.*\S.*`

Required: No

Family

The name of a family that this task definition is registered to.

Type: String

Pattern: `.*\S.*`

Required: No

InferenceAccelerators

The Elastic Inference accelerators to use for the containers in the task.

Type: Array of AwsEcsTaskDefinitionInferenceAcceleratorsDetails objects

Required: No

IpcMode

The inter-process communication (IPC) resource namespace to use for the containers in the task. Valid values are as follows:

- `host`
- `none`
- `task`

Type: String

Pattern: `.*\S.*`

Required: No

Memory

The amount (in MiB) of memory used by the task.

For tasks that are hosted on Amazon EC2, you can provide a task-level memory value or a container-level memory value. For tasks that are hosted on AWS Fargate, you must use one of the specified values in the Amazon Elastic Container Service Developer Guide , which determines your range of supported values for the `Cpu` and `Memory` parameters.

Type: String

Pattern: `.*\S.*`

Required: No

NetworkMode

The Docker networking mode to use for the containers in the task. Valid values are as follows:

- `awsvpc`
- `bridge`
- `host`
- `none`

Type: String

Pattern: `.*\S.*`

Required: No

PidMode

The process namespace to use for the containers in the task. Valid values are `host` or `task`.

Type: String

Pattern: `.*\S.*`

Required: No

PlacementConstraints

The placement constraint objects to use for tasks.

Type: Array of AwsEcsTaskDefinitionPlacementConstraintsDetails objects

Required: No

ProxyConfiguration

The configuration details for the App Mesh proxy.

Type: AwsEcsTaskDefinitionProxyConfigurationDetails object

Required: No

RequiresCompatibilities

The task launch types that the task definition was validated against.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Status

The status of the task definition.

Type: String

Pattern: `.*\S.*`

Required: No

TaskRoleArn

The short name or ARN of the IAM role that grants containers in the task permission to call AWS API operations on your behalf.

Type: String

Pattern: `.*\S.*`

Required: No

Volumes

The data volume definitions for the task.

Type: Array of AwsEcsTaskDefinitionVolumesDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionInferenceAcceleratorsDetails

An Elastic Inference accelerator to use for the containers in the task.

Contents

DeviceName

The Elastic Inference accelerator device name.

Type: String

Pattern: `.*\S.*`

Required: No

DeviceType

The Elastic Inference accelerator type to use.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionPlacementConstraintsDetails

A placement constraint object to use for tasks.

Contents

Expression

A cluster query language expression to apply to the constraint.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of constraint.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionProxyConfigurationDetails

The configuration details for the App Mesh proxy.

Contents

ContainerName

The name of the container that will serve as the App Mesh proxy.

Type: String

Pattern: `.*\S.*`

Required: No

ProxyConfigurationProperties

The set of network configuration parameters to provide to the Container Network Interface (CNI) plugin, specified as key-value pairs.

Type: Array of AwsEcsTaskDefinitionProxyConfigurationProxyConfigurationPropertiesDetails objects

Required: No

Type

The proxy type.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsEcsTaskDefinitionProxyConfigurationProxyConfigurationPropertiesDetails

A network configuration parameter to provide to the Container Network Interface (CNI) plugin.

Contents

Name

The name of the property.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The value of the property.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionVolumesDetails

A data volume to mount from another container.

Contents

DockerVolumeConfiguration

Information about a Docker volume.

Type: AwsEcsTaskDefinitionVolumesDockerVolumeConfigurationDetails object

Required: No

EfsVolumeConfiguration

Information about the Amazon Elastic File System file system that is used for task storage.

Type: AwsEcsTaskDefinitionVolumesEfsVolumeConfigurationDetails object

Required: No

Host

Information about a bind mount host volume.

Type: AwsEcsTaskDefinitionVolumesHostDetails object

Required: No

Name

The name of the data volume.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionVolumesDockerVolumeConfigurationDetails

Information about a Docker volume.

Contents

Autoprovision

Whether to create the Docker volume automatically if it does not already exist.

Type: Boolean

Required: No

Driver

The Docker volume driver to use.

Type: String

Pattern: `.*\S.*`

Required: No

DriverOpts

A map of Docker driver-specific options that are passed through.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

Labels

Custom metadata to add to the Docker volume.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

Scope

The scope for the Docker volume that determines its lifecycle. Docker volumes that are scoped to a task are provisioned automatically when the task starts and destroyed when the task stops. Docker volumes that are shared persist after the task stops. Valid values are `shared` or `task`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionVolumesEfsVolumeConfigurationAuthorizationConfigDetails

Contents

AccessPointId

The Amazon EFS access point identifier to use.

Type: String

Pattern: `.*\S.*`

Required: No

Iam

Whether to use the Amazon ECS task IAM role defined in a task definition when mounting the Amazon EFS file system.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionVolumesEfsVolumeConfigurationDetails

Information about the Amazon Elastic File System file system that is used for task storage.

Contents

AuthorizationConfig

The authorization configuration details for the Amazon EFS file system.

Type: AwsEcsTaskDefinitionVolumesEfsVolumeConfigurationAuthorizationConfigDetails object

Required: No

FilesystemId

The Amazon EFS file system identifier to use.

Type: String

Pattern: `.*\S.*`

Required: No

RootDirectory

The directory within the Amazon EFS file system to mount as the root directory inside the host.

Type: String

Pattern: `.*\S.*`

Required: No

TransitEncryption

Whether to enable encryption for Amazon EFS data in transit between the Amazon ECS host and the Amazon EFS server.

Type: String

Pattern: `.*\S.*`

Required: No

TransitEncryptionPort

The port to use when sending encrypted data between the Amazon ECS host and the Amazon EFS server.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDefinitionVolumesHostDetails

Information about a bind mount host volume.

Contents

SourcePath

The path on the host container instance that is presented to the container.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskDetails

Provides details about a task in a cluster.

Contents

ClusterArn

The Amazon Resource Name (ARN) of the cluster that hosts the task.

Type: String

Pattern: `.*\S.*`

Required: No

Containers

The containers that are associated with the task.

Type: Array of AwsEcsContainerDetails objects

Required: No

CreatedAt

The Unix timestamp for the time when the task was created. More specifically, it's for the time when the task entered the `PENDING` state.

Type: String

Pattern: `.*\S.*`

Required: No

Group

The name of the task group that's associated with the task.

Type: String

Pattern: `.*\S.*`

Required: No

StartedAt

The Unix timestamp for the time when the task started. More specifically, it's for the time when the task transitioned from the `PENDING` state to the `RUNNING` state.

Type: String

Pattern: `.*\S.*`

Required: No

StartedBy

The tag specified when a task is started. If an Amazon ECS service started the task, the `startedBy` parameter contains the deployment ID of that service.

Type: String

Pattern: `.*\S.*`

Required: No

TaskDefinitionArn

The ARN of the task definition that creates the task.

Type: String

Pattern: `.*\S.*`

Required: No

Version

The version counter for the task.

Type: String

Pattern: `.*\S.*`

Required: No

Volumes

Details about the data volume that is used in a task definition.

Type: Array of AwsEcsTaskVolumeDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskVolumeDetails

Provides information about a data volume that's used in a task definition.

Contents

Host

This parameter is specified when you use bind mount host volumes. The contents of the `host` parameter determine whether your bind mount host volume persists on the host container instance and where it's stored.

Type: AwsEcsTaskVolumeHostDetails object

Required: No

Name

The name of the volume. Up to 255 letters (uppercase and lowercase), numbers, underscores, and hyphens are allowed. This name is referenced in the `sourceVolume` parameter of container definition `mountPoints`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEcsTaskVolumeHostDetails

Provides details on a container instance bind mount host volume.

Contents

SourcePath

When the `host` parameter is used, specify a `sourcePath` to declare the path on the host container instance that's presented to the container.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsMountPoint

Details for a volume mount point that's used in a container definition.

Contents

ContainerPath

The path on the container to mount the host volume at.

Type: String

Pattern: `.*\S.*`

Required: No

SourceVolume

The name of the volume to mount. Must be a volume name referenced in the `name` parameter of task definition `volume`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon Elastic File System (EFS) objects

Amazon Elastic File System (EFS) objects

- AwsEfsAccessPointDetails

- AwsEfsAccessPointPosixUserDetails
- AwsEfsAccessPointRootDirectoryCreationInfoDetails
- AwsEfsAccessPointRootDirectoryDetails

AwsEfsAccessPointDetails

Provides information about an Amazon EFS access point.

Contents

AccessPointId

The ID of the Amazon EFS access point.

Type: String

Pattern: `.*\S.*`

Required: No

Arn

The Amazon Resource Name (ARN) of the Amazon EFS access point.

Type: String

Pattern: `.*\S.*`

Required: No

ClientToken

The opaque string specified in the request to ensure idempotent creation.

Type: String

Pattern: `.*\S.*`

Required: No

FileSystemId

The ID of the Amazon EFS file system that the access point applies to.

Type: String

Pattern: `.*\S.*`

Required: No

PosixUser

The full POSIX identity, including the user ID, group ID, and secondary group IDs on the access point, that is used for all file operations by NFS clients using the access point.

Type: AwsEfsAccessPointPosixUserDetails object

Required: No

RootDirectory

The directory on the Amazon EFS file system that the access point exposes as the root directory to NFS clients using the access point.

Type: AwsEfsAccessPointRootDirectoryDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEfsAccessPointPosixUserDetails

Provides details for all file system operations using this Amazon EFS access point.

Contents

Gid

The POSIX group ID used for all file system operations using this access point.

Type: String

Pattern: `.*\S.*`

Required: No

SecondaryGids

Secondary POSIX group IDs used for all file system operations using this access point.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Uid

The POSIX user ID used for all file system operations using this access point.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsEfsAccessPointRootDirectoryCreationInfoDetails

Provides information about the settings that Amazon EFS uses to create the root directory when a client connects to an access point.

Contents

OwnerGid

Specifies the POSIX group ID to apply to the root directory.

Type: String

Pattern: `.*\S.*`

Required: No

OwnerUid

Specifies the POSIX user ID to apply to the root directory.

Type: String

Pattern: `.*\S.*`

Required: No

Permissions

Specifies the POSIX permissions to apply to the root directory, in the format of an octal number representing the file's mode bits.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEfsAccessPointRootDirectoryDetails

Provides information about the directory on the Amazon EFS file system that the access point exposes as the root directory to NFS clients using the access point.

Contents

CreationInfo

Specifies the POSIX IDs and permissions to apply to the access point's root directory.

Type: AwsEfsAccessPointRootDirectoryCreationInfoDetails object

Required: No

Path

Specifies the path on the Amazon EFS file system to expose as the root directory to NFS clients using the access point to access the EFS file system. A path can have up to four subdirectories. If the specified path does not exist, you are required to provide `CreationInfo`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon Elastic Kubernetes Service (EKS) objects

Amazon Elastic Kubernetes Service objects

- AwsEksClusterDetails

- AwsEksClusterLoggingClusterLoggingDetails
- AwsEksClusterLoggingDetails
- AwsEksClusterResourcesVpcConfigDetails

AwsEksClusterDetails

Provides details about an Amazon EKS cluster.

Contents

Arn

The ARN of the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

CertificateAuthorityData

The certificate authority data for the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

ClusterStatus

The status of the cluster. Valid values are as follows:

- `ACTIVE`
- `CREATING`
- `DELETING`
- `FAILED`
- `PENDING`
- `UPDATING`

Type: String

Pattern: `.*\S.*`

Required: No

Endpoint

The endpoint for the Amazon EKS API server.

Type: String

Pattern: `.*\S.*`

Required: No

Logging

The logging configuration for the cluster.

Type: AwsEksClusterLoggingDetails object

Required: No

Name

The name of the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

ResourcesVpcConfig

The VPC configuration used by the cluster control plane.

Type: AwsEksClusterResourcesVpcConfigDetails object

Required: No

RoleArn

The ARN of the IAM role that provides permissions for the Amazon EKS control plane to make calls to AWS API operations on your behalf.

Type: String

Pattern: `.*\S.*`

Required: No

Version

The Amazon EKS server version for the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEksClusterLoggingClusterLoggingDetails

Details for a cluster logging configuration.

Contents

Enabled

Whether the logging types that are listed in `Types` are enabled.

Type: Boolean

Required: No

Types

A list of logging types. Valid values are as follows:

- `api`
- `audit`
- `authenticator`
- `controllerManager`
- `scheduler`

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEksClusterLoggingDetails

The logging configuration for an Amazon EKS cluster.

Contents

ClusterLogging

Cluster logging configurations.

Type: Array of AwsEksClusterLoggingClusterLoggingDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEksClusterResourcesVpcConfigDetails

Information about the VPC configuration used by the cluster control plane.

Contents

EndpointPublicAccess

Indicates whether the Amazon EKS public API server endpoint is turned on. If the Amazon EKS public API server endpoint is turned off, your cluster's Kubernetes API server can only receive requests that originate from within the cluster VPC.

Type: Boolean

Required: No

SecurityGroupIds

The security groups that are associated with the cross-account elastic network interfaces that are used to allow communication between your nodes and the Amazon EKS control plane.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SubnetIds

The subnets that are associated with the cluster.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

AWS Elastic Beanstalk

AWS Elastic Beanstalk objects

- AwsElasticBeanstalkEnvironmentDetails
- AwsElasticBeanstalkEnvironmentEnvironmentLink
- AwsElasticBeanstalkEnvironmentOptionSetting
- AwsElasticBeanstalkEnvironmentTier

AwsElasticBeanstalkEnvironmentDetails

Contains details about an Elastic Beanstalk environment.

Contents

ApplicationName

The name of the application that is associated with the environment.

Type: String

Pattern: `.*\S.*`

Required: No

Cname

The URL to the CNAME for this environment.

Type: String

Pattern: `.*\S.*`

Required: No

DateCreated

The creation date for this environment.

Type: String

Pattern: `.*\S.*`

Required: No

DateUpdated

The date when this environment was last modified.

Type: String

Pattern: `.*\S.*`

Required: No

Description

A description of the environment.

Type: String

Pattern: `.*\S.*`

Required: No

EndpointUrl

For load-balanced, autoscaling environments, the URL to the load balancer. For single-instance environments, the IP address of the instance.

Type: String

Pattern: `.*\S.*`

Required: No

EnvironmentArn

The ARN of the environment.

Type: String

Pattern: `.*\S.*`

Required: No

EnvironmentId

The identifier of the environment.

Type: String

Pattern: `.*\S.*`

Required: No

EnvironmentLinks

Links to other environments in the same group.

Type: Array of AwsElasticBeanstalkEnvironmentEnvironmentLink objects

Required: No

EnvironmentName

The name of the environment.

Type: String

Pattern: `.*\S.*`

Required: No

OptionSettings

The configuration setting for the environment.

Type: Array of AwsElasticBeanstalkEnvironmentOptionSetting objects

Required: No

PlatformArn

The ARN of the platform version for the environment.

Type: String

Pattern: `.*\S.*`

Required: No

SolutionStackName

The name of the solution stack that is deployed with the environment.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The current operational status of the environment. Valid values are as follows:

- `Aborting`
- `Launching`
- `LinkingFrom`

- `LinkingTo`
- `Ready`
- `Terminated`
- `Terminating`
- `Updating`

Type: String

Pattern: `.*\S.*`

Required: No

Tier

The tier of the environment.

Type: AwsElasticBeanstalkEnvironmentTier object

Required: No

VersionLabel

The application version of the environment.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElasticBeanstalkEnvironmentEnvironmentLink

Contains information about a link to another environment that is in the same group.

Contents

EnvironmentName

The name of the linked environment.

Type: String

Pattern: `.*\S.*`

Required: No

LinkName

The name of the environment link.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElasticBeanstalkEnvironmentOptionSetting

A configuration option setting for the environment.

Contents

Namespace

The type of resource that the configuration option is associated with.

Type: String

Pattern: `.*\S.*`

Required: No

OptionName

The name of the option.

Type: String

Pattern: `.*\S.*`

Required: No

ResourceName

The name of the resource.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The value of the configuration setting.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElasticBeanstalkEnvironmentTier

Contains information about the tier of the environment.

Contents

Name

The name of the environment tier. Valid values are `WebServer` or `Worker`.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of environment tier. Valid values are `Standard` or `SQS/HTTP`.

Type: String

Pattern: `.*\S.*`

Required: No

Version

The version of the environment tier.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

Amazon ElasticSearch objects

ElasticSearch objects

- AwsElasticsearchDomainDetails
- AwsElasticsearchDomainDomainEndpointOptions
- AwsElasticsearchDomainElasticsearchClusterConfigDetails
- AwsElasticsearchDomainElasticsearchClusterConfigZoneAwarenessConfigDetails
- AwsElasticsearchDomainEncryptionAtRestOptions
- AwsElasticsearchDomainLogPublishingOptions
- AwsElasticsearchDomainLogPublishingOptionsLogConfig
- AwsElasticsearchDomainNodeToNodeEncryptionOptions
- AwsElasticsearchDomainServiceSoftwareOptions
- AwsElasticsearchDomainVPCOptions

AwsElasticsearchDomainDetails

Information about an Elasticsearch domain.

Contents

AccessPolicies

IAM policy document specifying the access policies for the new Elasticsearch domain.

Type: String

Pattern: `.*\S.*`

Required: No

DomainEndpointOptions

Additional options for the domain endpoint.

Type: AwsElasticsearchDomainDomainEndpointOptions object

Required: No

DomainId

Unique identifier for an Elasticsearch domain.

Type: String

Pattern: `.*\S.*`

Required: No

DomainName

Name of an Elasticsearch domain.

Domain names are unique across all domains owned by the same account within an AWS Region.

Domain names must start with a lowercase letter and must be between 3 and 28 characters.

Valid characters are a-z (lowercase only), 0-9, and – (hyphen).

Type: String

Pattern: `.*\S.*`

Required: No

ElasticsearchClusterConfig

Information about an OpenSearch cluster configuration.

Type: AwsElasticsearchDomainElasticsearchClusterConfigDetails object

Required: No

ElasticsearchVersion

OpenSearch version.

Type: String

Pattern: `.*\S.*`

Required: No

EncryptionAtRestOptions

Details about the configuration for encryption at rest.

Type: AwsElasticsearchDomainEncryptionAtRestOptions object

Required: No

Endpoint

Domain-specific endpoint used to submit index, search, and data upload requests to an Elasticsearch domain.

The endpoint is a service URL.

Type: String

Pattern: `.*\S.*`

Required: No

Endpoints

The key-value pair that exists if the Elasticsearch domain uses VPC endpoints.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

LogPublishingOptions

Configures the CloudWatch Logs to publish for the Elasticsearch domain.

Type: AwsElasticsearchDomainLogPublishingOptions object

Required: No

NodeToNodeEncryptionOptions

Details about the configuration for node-to-node encryption.

Type: AwsElasticsearchDomainNodeToNodeEncryptionOptions object

Required: No

ServiceSoftwareOptions

Information about the status of a domain relative to the latest service software.

Type: AwsElasticsearchDomainServiceSoftwareOptions object

Required: No

VPCOptions

Information that OpenSearch derives based on `VPCOptions` for the domain.

Type: AwsElasticsearchDomainVPCOptions object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElasticsearchDomainDomainEndpointOptions

Additional options for the domain endpoint, such as whether to require HTTPS for all traffic.

Contents

EnforceHTTPS

Whether to require that all traffic to the domain arrive over HTTPS.

Type: Boolean

Required: No

TLSSecurityPolicy

The TLS security policy to apply to the HTTPS endpoint of the OpenSearch domain.

Valid values:

- `Policy-Min-TLS-1-0-2019-07`, which supports TLSv1.0 and higher
- `Policy-Min-TLS-1-2-2019-07`, which only supports TLSv1.2

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElasticsearchDomainElasticsearchClusterConfigDetails

details about the configuration of an OpenSearch cluster.

Contents

DedicatedMasterCount

The number of instances to use for the master node. If this attribute is specified, then `DedicatedMasterEnabled` must be `true`.

Type: Integer

Required: No

DedicatedMasterEnabled

Whether to use a dedicated master node for the Elasticsearch domain. A dedicated master node performs cluster management tasks, but doesn't hold data or respond to data upload requests.

Type: Boolean

Required: No

DedicatedMasterType

The hardware configuration of the computer that hosts the dedicated master node. A sample value is `m3.medium.elasticsearch`. If this attribute is specified, then `DedicatedMasterEnabled` must be `true`.

For a list of valid values, see Supported instance types in Amazon OpenSearch Service in the *Amazon OpenSearch Service Developer Guide*.

Type: String

Pattern: `.*\S.*`

Required: No

InstanceCount

The number of data nodes to use in the Elasticsearch domain.

Type: Integer

Required: No

InstanceType

The instance type for your data nodes. For example, `m3.medium.elasticsearch`.

For a list of valid values, see Supported instance types in Amazon OpenSearch Service in the *Amazon OpenSearch Service Developer Guide*.

Type: String

Pattern: `.*\S.*`

Required: No

ZoneAwarenessConfig

Configuration options for zone awareness. Provided if `ZoneAwarenessEnabled` is `true`.

Type: AwsElasticsearchDomainElasticsearchClusterConfigZoneAwarenessConfigDetails object

Required: No

ZoneAwarenessEnabled

Whether to enable zone awareness for the Elasticsearch domain. When zone awareness is enabled, OpenSearch allocates the cluster's nodes and replica index shards across Availability Zones in the same Region. This prevents data loss and minimizes downtime if a node or data center fails.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElasticsearchDomainElasticsearchClusterConfigZoneAwarenessConfigDetails

Configuration options for zone awareness.

Contents

AvailabilityZoneCount

he number of Availability Zones that the domain uses. Valid values are 2 and 3. The default is 2.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElasticsearchDomainEncryptionAtRestOptions

Details about the configuration for encryption at rest.

Contents

Enabled

Whether encryption at rest is enabled.

Type: Boolean

Required: No

KmsKeyId

The AWS KMS key ID. Takes the form `1a2a3a4-1a2a-3a4a-5a6a-1a2a3a4a5a6a`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElasticsearchDomainLogPublishingOptions

configures the CloudWatch Logs to publish for the Elasticsearch domain.

Contents

AuditLogs

The log configuration.

Type: AwsElasticsearchDomainLogPublishingOptionsLogConfig object

Required: No

IndexSlowLogs

Configures the OpenSearch index logs publishing.

Type: AwsElasticsearchDomainLogPublishingOptionsLogConfig object

Required: No

SearchSlowLogs

Configures the OpenSearch search slow log publishing.

Type: AwsElasticsearchDomainLogPublishingOptionsLogConfig object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElasticsearchDomainLogPublishingOptionsLogConfig

The log configuration.

Contents

CloudWatchLogsLogGroupArn

The ARN of the CloudWatch Logs group to publish the logs to.

Type: String

Pattern: `.*\S.*`

Required: No

Enabled

Whether the log publishing is enabled.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElasticsearchDomainNodeToNodeEncryptionOptions

Details about the configuration for node-to-node encryption.

Contents

Enabled

Whether node-to-node encryption is enabled.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElasticsearchDomainServiceSoftwareOptions

Information about the state of the domain relative to the latest service software.

Contents

AutomatedUpdateDate

The epoch time when the deployment window closes for required updates. After this time, Amazon OpenSearch Service schedules the software upgrade automatically.

Type: String

Pattern: `.*\S.*`

Required: No

Cancellable

Whether a request to update the domain can be canceled.

Type: Boolean

Required: No

CurrentVersion

The version of the service software that is currently installed on the domain.

Type: String

Pattern: `.*\S.*`

Required: No

Description

A more detailed description of the service software status.

Type: String

Pattern: `.*\S.*`

Required: No

NewVersion

The most recent version of the service software.

Type: String

Pattern: `.*\S.*`

Required: No

UpdateAvailable

Whether a service software update is available for the domain.

Type: Boolean

Required: No

UpdateStatus

The status of the service software update. Valid values are as follows:

- `COMPLETED`
- `ELIGIBLE`
- `IN_PROGRESS`
- `NOT_ELIGIBLE`
- `PENDING_UPDATE`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElasticsearchDomainVPCOptions

Information that OpenSearch derives based on `VPCOptions` for the domain.

Contents

AvailabilityZones

The list of Availability Zones associated with the VPC subnets.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SecurityGroupIds

The list of security group IDs associated with the VPC endpoints for the domain.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SubnetIds

A list of subnet IDs associated with the VPC endpoints for the domain.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

VPCId

ID for the VPC.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Elastic Load Balancing objects

Elastic Load Balancing objects

- AwsElbAppCookieStickinessPolicy
- AwsElbLbCookieStickinessPolicy
- AwsElbLoadBalancerAccessLog
- AwsElbLoadBalancerAdditionalAttribute
- AwsElbLoadBalancerAttributes
- AwsElbLoadBalancerBackendServerDescription
- AwsElbLoadBalancerConnectionDraining
- AwsElbLoadBalancerConnectionSettings
- AwsElbLoadBalancerCrossZoneLoadBalancing
- AwsElbLoadBalancerDetails
- AwsElbLoadBalancerHealthCheck
- AwsElbLoadBalancerInstance
- AwsElbLoadBalancerListener
- AwsElbLoadBalancerListenerDescription
- AwsElbLoadBalancerPolicies
- AwsElbLoadBalancerSourceSecurityGroup
- AwsElbv2LoadBalancerAttribute
- AwsElbv2LoadBalancerDetails
- LoadBalancerState

AwsElbAppCookieStickinessPolicy

Contains information about a stickiness policy that was created using `CreateAppCookieStickinessPolicy`.

Contents

CookieName

The name of the application cookie used for stickiness.

Type: String

Pattern: `.*\S.*`

Required: No

PolicyName

The mnemonic name for the policy being created. The name must be unique within the set of policies for the load balancer.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbLbCookieStickinessPolicy

Contains information about a stickiness policy that was created using `CreateLBCookieStickinessPolicy`.

Contents

CookieExpirationPeriod

The amount of time, in seconds, after which the cookie is considered stale. If an expiration period is not specified, the stickiness session lasts for the duration of the browser session.

Type: Long

Required: No

PolicyName

The name of the policy. The name must be unique within the set of policies for the load balancer.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbLoadBalancerAccessLog

Contains information about the access log configuration for the load balancer.

Contents

EmitInterval

The interval in minutes for publishing the access logs.

You can publish access logs either every 5 minutes or every 60 minutes.

Type: Integer

Required: No

Enabled

Indicates whether access logs are enabled for the load balancer.

Type: Boolean

Required: No

S3BucketName

The name of the S3 bucket where the access logs are stored.

Type: String

Pattern: `.*\S.*`

Required: No

S3BucketPrefix

The logical hierarchy that was created for the S3 bucket.

If a prefix is not provided, the log is placed at the root level of the bucket.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbLoadBalancerAdditionalAttribute

Provides information about additional attributes for the load balancer.

Contents

Key

The name of the attribute.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The value of the attribute.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbLoadBalancerAttributes

Contains attributes for the load balancer.

Contents

AccessLog

Information about the access log configuration for the load balancer.

If the access log is enabled, the load balancer captures detailed information about all requests. It delivers the information to a specified S3 bucket.

Type: AwsElbLoadBalancerAccessLog object

Required: No

AdditionalAttributes

Any additional attributes for a load balancer.

Type: Array of AwsElbLoadBalancerAdditionalAttribute objects

Required: No

ConnectionDraining

Information about the connection draining configuration for the load balancer.

If connection draining is enabled, the load balancer allows existing requests to complete before it shifts traffic away from a deregistered or unhealthy instance.

Type: AwsElbLoadBalancerConnectionDraining object

Required: No

ConnectionSettings

Connection settings for the load balancer.

If an idle timeout is configured, the load balancer allows connections to remain idle for the specified duration. When a connection is idle, no data is sent over the connection.

Type: AwsElbLoadBalancerConnectionSettings object

Required: No

CrossZoneLoadBalancing

Cross-zone load balancing settings for the load balancer.

If cross-zone load balancing is enabled, the load balancer routes the request traffic evenly across all instances regardless of the Availability Zones.

Type: AwsElbLoadBalancerCrossZoneLoadBalancing object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbLoadBalancerBackendServerDescription

Provides information about the configuration of an EC2 instance for the load balancer.

Contents

InstancePort

The port on which the EC2 instance is listening.

Type: Integer

Required: No

PolicyNames

The names of the policies that are enabled for the EC2 instance.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbLoadBalancerConnectionDraining

Contains information about the connection draining configuration for the load balancer.

Contents

Enabled

Indicates whether connection draining is enabled for the load balancer.

Type: Boolean

Required: No

Timeout

The maximum time, in seconds, to keep the existing connections open before deregistering the instances.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbLoadBalancerConnectionSettings

Contains connection settings for the load balancer.

Contents

IdleTimeout

The time, in seconds, that the connection can be idle (no data is sent over the connection) before it is closed by the load balancer.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbLoadBalancerCrossZoneLoadBalancing

Contains cross-zone load balancing settings for the load balancer.

Contents

Enabled

Indicates whether cross-zone load balancing is enabled for the load balancer.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbLoadBalancerDetails

Contains details about a Classic Load Balancer.

Contents

AvailabilityZones

The list of Availability Zones for the load balancer.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

BackendServerDescriptions

Information about the configuration of the EC2 instances.

Type: Array of AwsElbLoadBalancerBackendServerDescription objects

Required: No

CanonicalHostedZoneName

The name of the Amazon Route 53 hosted zone for the load balancer.

Type: String

Pattern: `.*\S.*`

Required: No

CanonicalHostedZoneNameID

The ID of the Amazon Route 53 hosted zone for the load balancer.

Type: String

Pattern: `.*\S.*`

Required: No

CreatedTime

Indicates when the load balancer was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

DnsName

The DNS name of the load balancer.

Type: String

Pattern: `.*\S.*`

Required: No

HealthCheck

Information about the health checks that are conducted on the load balancer.

Type: AwsElbLoadBalancerHealthCheck object

Required: No

Instances

List of EC2 instances for the load balancer.

Type: Array of AwsElbLoadBalancerInstance objects

Required: No

ListenerDescriptions

The policies that are enabled for the load balancer listeners.

Type: Array of AwsElbLoadBalancerListenerDescription objects

Required: No

LoadBalancerAttributes

The attributes for a load balancer.

Type: AwsElbLoadBalancerAttributes object

Required: No

LoadBalancerName

The name of the load balancer.

Type: String

Pattern: `.*\S.*`

Required: No

Policies

The policies for a load balancer.

Type: AwsElbLoadBalancerPolicies object

Required: No

Scheme

The type of load balancer. Only provided if the load balancer is in a VPC.

If `Scheme` is `internet-facing`, the load balancer has a public DNS name that resolves to a public IP address.

If `Scheme` is `internal`, the load balancer has a public DNS name that resolves to a private IP address.

Type: String

Pattern: `.*\S.*`

Required: No

SecurityGroups

The security groups for the load balancer. Only provided if the load balancer is in a VPC.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SourceSecurityGroup

Information about the security group for the load balancer. This is the security group that is used for inbound rules.

Type: AwsElbLoadBalancerSourceSecurityGroup object

Required: No

Subnets

The list of subnet identifiers for the load balancer.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

VpcId

The identifier of the VPC for the load balancer.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbLoadBalancerHealthCheck

Contains information about the health checks that are conducted on the load balancer.

Contents

HealthyThreshold

The number of consecutive health check successes required before the instance is moved to the Healthy state.

Type: Integer

Required: No

Interval

The approximate interval, in seconds, between health checks of an individual instance.

Type: Integer

Required: No

Target

The instance that is being checked. The target specifies the protocol and port. The available protocols are TCP, SSL, HTTP, and HTTPS. The range of valid ports is 1 through 65535.

For the HTTP and HTTPS protocols, the target also specifies the ping path.

For the TCP protocol, the target is specified as `TCP: <port>` .

For the SSL protocol, the target is specified as `SSL.<port>` .

For the HTTP and HTTPS protocols, the target is specified as `<protocol>:<port>/<path to ping>` .

Type: String

Pattern: `.*\S.*`

Required: No

Timeout

The amount of time, in seconds, during which no response means a failed health check.

Type: Integer

Required: No

UnhealthyThreshold

The number of consecutive health check failures that must occur before the instance is moved to the Unhealthy state.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbLoadBalancerInstance

Provides information about an EC2 instance for a load balancer.

Contents

InstanceId

The instance identifier.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbLoadBalancerListener

Information about a load balancer listener.

Contents

InstancePort

The port on which the instance is listening.

Type: Integer

Required: No

InstanceProtocol

The protocol to use to route traffic to instances.

Valid values: `HTTP | HTTPS | TCP | SSL`

Type: String

Pattern: `.*\S.*`

Required: No

LoadBalancerPort

The port on which the load balancer is listening.

On EC2-VPC, you can specify any port from the range 1-65535.

On EC2-Classic, you can specify any port from the following list: 25, 80, 443, 465, 587, 1024-65535.

Type: Integer

Required: No

Protocol

The load balancer transport protocol to use for routing.

Valid values: `HTTP | HTTPS | TCP | SSL`

Type: String

Pattern: `.*\S.*`

Required: No

SslCertificateId

The ARN of the server certificate.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbLoadBalancerListenerDescription

Lists the policies that are enabled for a load balancer listener.

Contents

Listener

Information about the listener.

Type: AwsElbLoadBalancerListener object

Required: No

PolicyNames

The policies enabled for the listener.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbLoadBalancerPolicies

Contains information about the policies for a load balancer.

Contents

AppCookieStickinessPolicies

The stickiness policies that are created using `CreateAppCookieStickinessPolicy`.

Type: Array of AwsElbAppCookieStickinessPolicy objects

Required: No

LbCookieStickinessPolicies

The stickiness policies that are created using `CreateLBCookieStickinessPolicy`.

Type: Array of AwsElbLbCookieStickinessPolicy objects

Required: No

OtherPolicies

The policies other than the stickiness policies.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbLoadBalancerSourceSecurityGroup

Contains information about the security group for the load balancer.

Contents

GroupName

The name of the security group.

Type: String

Pattern: `.*\S.*`

Required: No

OwnerAlias

The owner of the security group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbv2LoadBalancerAttribute

A load balancer attribute.

Contents

Key

The name of the load balancer attribute.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The value of the load balancer attribute.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsElbv2LoadBalancerDetails

Information about a load balancer.

Contents

AvailabilityZones

The Availability Zones for the load balancer.

Type: Array of AvailabilityZone objects

Required: No

CanonicalHostedZoneId

The ID of the Amazon Route 53 hosted zone associated with the load balancer.

Type: String

Pattern: `.*\S.*`

Required: No

CreatedTime

Indicates when the load balancer was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

DNSName

The public DNS name of the load balancer.

Type: String

Pattern: `.*\S.*`

Required: No

IpAddressType

The type of IP addresses used by the subnets for your load balancer. The possible values are `ipv4` (for IPv4 addresses) and `dualstack` (for IPv4 and IPv6 addresses).

Type: String

Pattern: `.*\S.*`

Required: No

LoadBalancerAttributes

Attributes of the load balancer.

Type: Array of AwsElbv2LoadBalancerAttribute objects

Required: No

Scheme

The nodes of an Internet-facing load balancer have public IP addresses.

Type: String

Pattern: `.*\S.*`

Required: No

SecurityGroups

The IDs of the security groups for the load balancer.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

State

The state of the load balancer.

Type: LoadBalancerState object

Required: No

Type

The type of load balancer.

Type: String

Pattern: `.*\S.*`

Required: No

VpcId

The ID of the VPC for the load balancer.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LoadBalancerState

Information about the state of the load balancer.

Contents

Code

The state code. The initial state of the load balancer is provisioning.

After the load balancer is fully set up and ready to route traffic, its state is active.

If the load balancer could not be set up, its state is failed.

Type: String

Pattern: `.*\S.*`

Required: No

Reason

A description of the state.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon EventBridge objects

Amazon EventBridge objects

- AwsEventSchemasRegistryDetails
- AwsEventsEndpointDetails
- AwsEventsEndpointEventBusesDetails
- AwsEventsEndpointReplicationConfigDetails
- AwsEventsEndpointRoutingConfigDetails
- AwsEventsEndpointRoutingConfigFailoverConfigDetails
- AwsEventsEndpointRoutingConfigFailoverConfigPrimaryDetails
- AwsEventsEndpointRoutingConfigFailoverConfigSecondaryDetails
- AwsEventsEventbusDetails

AwsEventSchemasRegistryDetails

A schema defines the structure of events that are sent to Amazon EventBridge. Schema registries are containers for schemas. They collect and organize schemas so that your schemas are in logical groups.

Contents

Description

A description of the registry to be created.

Type: String

Pattern: `.*\S.*`

Required: No

RegistryArn

The Amazon Resource Name (ARN) of the registry.

Type: String

Pattern: `.*\S.*`

Required: No

RegistryName

The name of the schema registry.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEventsEndpointDetails

Provides details about an Amazon EventBridge global endpoint. The endpoint can improve your application's availability by making it Regional-fault tolerant.

Contents

Arn

The Amazon Resource Name (ARN) of the endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

Description

A description of the endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

EndpointId

The URL subdomain of the endpoint. For example, if `EndpointUrl` is `https://abcde.veo.endpoints.event.amazonaws.com`, then the `EndpointId` is `abcde.veo`.

Type: String

Pattern: `.*\S.*`

Required: No

EndpointUrl

The URL of the endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

EventBuses

The event buses being used by the endpoint.

Type: Array of AwsEventsEndpointEventBusesDetails objects

Required: No

Name

The name of the endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

ReplicationConfig

Whether event replication was enabled or disabled for this endpoint. The default state is `ENABLED`, which means you must supply a `RoleArn`. If you don't have a `RoleArn` or you don't want event replication enabled, set the state to `DISABLED`.

Type: AwsEventsEndpointReplicationConfigDetails object

Required: No

RoleArn

The ARN of the role used by event replication for the endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

RoutingConfig

The routing configuration of the endpoint.

Type: AwsEventsEndpointRoutingConfigDetails object

Required: No

State

The current state of the endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

StateReason

The reason the endpoint is in its current state.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEventsEndpointEventBusesDetails

Provides details about the Amazon EventBridge event buses that the endpoint is associated with.

Contents

EventBusArn

The Amazon Resource Name (ARN) of the event bus that the endpoint is associated with.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEventsEndpointReplicationConfigDetails

Indicates whether replication is enabled or disabled for the endpoint. If enabled, the endpoint can replicate all events to a secondary AWS Region.

Contents

State

The state of event replication.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEventsEndpointRoutingConfigDetails

Provides details about the routing configuration of the endpoint.

Contents

FailoverConfig

The failover configuration for an endpoint. This includes what triggers failover and what happens when it's triggered.

Type: AwsEventsEndpointRoutingConfigFailoverConfigDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEventsEndpointRoutingConfigFailoverConfigDetails

The failover configuration for an endpoint. This includes what triggers failover and what happens when it's triggered.

Contents

Primary

The main Region of the endpoint.

Type: AwsEventsEndpointRoutingConfigFailoverConfigPrimaryDetails object

Required: No

Secondary

The Region that events are routed to when failover is triggered or event replication is enabled.

Type: AwsEventsEndpointRoutingConfigFailoverConfigSecondaryDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEventsEndpointRoutingConfigFailoverConfigPrimaryDetails

Provides details about the primary AWS Region of the endpoint.

Contents

HealthCheck

The Amazon Resource Name (ARN) of the health check used by the endpoint to determine whether failover is triggered.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEventsEndpointRoutingConfigFailoverConfigSecondaryDetails

The AWS Region that events are routed to when failover is triggered or event replication is enabled.

Contents

Route

Defines the secondary Region.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsEventsEventbusDetails

Provides details about Amazon EventBridge event bus. An event bus is a router that receives events and delivers them to zero or more destinations, or targets. This can be a custom event bus which you can use to receive events from your custom applications and services, or it can be a partner event bus which can be matched to a partner event source.

Contents

Arn

The Amazon Resource Name (ARN) of the account permitted to write events to the current account.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the event bus.

Type: String

Pattern: `.*\S.*`

Required: No

Policy

The policy that enables the external account to send events to your account.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon GuardDuty objects

Amazon GuardDuty objects

- AwsGuardDutyDetectorDetails
- AwsGuardDutyDetectorFeaturesDetails
- AwsGuardDutyDetectorDataSourcesCloudTrailDetails
- AwsGuardDutyDetectorDataSourcesDetails
- AwsGuardDutyDetectorDataSourcesDnsLogsDetails
- AwsGuardDutyDetectorDataSourcesFlowLogsDetails
- AwsGuardDutyDetectorDataSourcesKubernetesAuditLogsDetails
- AwsGuardDutyDetectorDataSourcesKubernetesDetails
- AwsGuardDutyDetectorDataSourcesMalwareProtectionDetails
- AwsGuardDutyDetectorDataSourcesMalwareProtectionScanEc2InstanceWithFindingsDetails
- AwsGuardDutyDetectorDataSourcesMalwareProtectionScanEc2InstanceWithFindingsEbsVolumesDetails
- AwsGuardDutyDetectorDataSourcesS3LogsDetails

AwsGuardDutyDetectorDetails

Provides details about an Amazon GuardDuty detector. A detector is an object that represents the GuardDuty service. A detector is required for GuardDuty to become operational.

Contents

DataSources

Describes which data sources are activated for the detector.

Type: AwsGuardDutyDetectorDataSourcesDetails object

Required: No

Features

Describes which features are activated for the detector.

Type: Array of AwsGuardDutyDetectorFeaturesDetails objects

Required: No

FindingPublishingFrequency

The publishing frequency of the finding.

Type: String

Pattern: `.*\S.*`

Required: No

ServiceRole

The GuardDuty service role.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The activation status of the detector.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsGuardDutyDetectorFeaturesDetails

Describes which features are activated for the detector.

Contents

Name

Indicates the name of the feature that is activated for the detector.

Type: String

Pattern: `.*\S.*`

Required: No

Status

Indicates the status of the feature that is activated for the detector.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsGuardDutyDetectorDataSourcesCloudTrailDetails

An object that contains information on the status of AWS CloudTrail as a data source for the detector.

Contents

Status

Specifies whether CloudTrail is activated as a data source for the detector.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsGuardDutyDetectorDataSourcesDetails

Describes which data sources are activated for the detector.

Contents

CloudTrail

An object that contains information on the status of CloudTrail as a data source for the detector.

Type: AwsGuardDutyDetectorDataSourcesCloudTrailDetails object

Required: No

DnsLogs

An object that contains information on the status of DNS logs as a data source for the detector.

Type: AwsGuardDutyDetectorDataSourcesDnsLogsDetails object

Required: No

FlowLogs

An object that contains information on the status of VPC Flow Logs as a data source for the detector.

Type: AwsGuardDutyDetectorDataSourcesFlowLogsDetails object

Required: No

Kubernetes

An object that contains information on the status of Kubernetes data sources for the detector.

Type: AwsGuardDutyDetectorDataSourcesKubernetesDetails object

Required: No

MalwareProtection

An object that contains information on the status of Malware Protection as a data source for the detector.

Type: AwsGuardDutyDetectorDataSourcesMalwareProtectionDetails object

Required: No

S3Logs

An object that contains information on the status of S3 Data event logs as a data source for the detector.

Type: AwsGuardDutyDetectorDataSourcesS3LogsDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsGuardDutyDetectorDataSourcesDnsLogsDetails

An object that contains information on the status of DNS logs as a data source for the detector.

Contents

Status

Describes whether DNS logs is enabled as a data source for the detector.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsGuardDutyDetectorDataSourcesFlowLogsDetails

An object that contains information on the status of VPC Flow Logs as a data source for the detector.

Contents

Status

Describes whether VPC Flow Logs are activated as a data source for the detector.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsGuardDutyDetectorDataSourcesKubernetesAuditLogsDetails

An object that contains information on the status of Kubernetes audit logs as a data source for the detector.

Contents

Status

Describes whether Kubernetes audit logs are activated as a data source for the detector.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsGuardDutyDetectorDataSourcesKubernetesDetails

An object that contains information on the status of Kubernetes data sources for the detector.

Contents

AuditLogs

Describes whether Kubernetes audit logs are activated as a data source for the detector.

Type: AwsGuardDutyDetectorDataSourcesKubernetesAuditLogsDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsGuardDutyDetectorDataSourcesMalwareProtectionDetails

An object that contains information on the status of Malware Protection as a data source for the detector.

Contents

ScanEc2InstanceWithFindings

Describes the configuration of Malware Protection for EC2 instances with findings.

Type: AwsGuardDutyDetectorDataSourcesMalwareProtectionScanEc2InstanceWithFindingsDetails object

Required: No

ServiceRole

The GuardDuty Malware Protection service role.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsGuardDutyDetectorDataSourcesMalwareProtectionScanEc2InstanceWithFindingsDe

Describes the configuration of Malware Protection for EC2 instances with findings.

Contents

EbsVolumes

Describes the configuration of scanning EBS volumes (Malware Protection) as a data source.

Type: AwsGuardDutyDetectorDataSourcesMalwareProtectionScanEc2InstanceWithFindingsEbsVolumesDetail object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsGuardDutyDetectorDataSourcesMalwareProtectionScanEc2InstanceWithFindingsEb

Describes the configuration of scanning EBS volumes (Malware Protection) as a data source.

Contents

Reason

Specifies the reason why scanning EBS volumes (Malware Protection) isn't activated as a data source.

Type: String

Pattern: `.*\S.*`

Required: No

Status

Describes whether scanning EBS volumes is activated as a data source for the detector.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsGuardDutyDetectorDataSourcesS3LogsDetails

An object that contains information on the status of S3 data event logs as a data source for the detector.

Contents

Status

A value that describes whether S3 data event logs are automatically enabled for new members of an organization.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AWS Identity and Access Management (IAM) objects

AWS Identity and Access Management (IAM) objects

- AwsIamAccessKeyDetails
- AwsIamAccessKeySessionContext
- AwsIamAccessKeySessionContextAttributes
- AwsIamAccessKeySessionContextSessionIssuer
- AwsIamAttachedManagedPolicy
- AwsIamGroupDetails
- AwsIamGroupPolicy

- AwsIamInstanceProfile
- AwsIamInstanceProfileRole
- AwsIamPermissionsBoundary
- AwsIamPolicyDetails
- AwsIamPolicyVersion
- AwsIamRoleDetails
- AwsIamRolePolicy
- AwsIamUserDetails
- AwsIamUserPolicy

AwsIamAccessKeyDetails

IAM access key details related to a finding.

Contents

AccessKeyId

The identifier of the access key.

Type: String

Pattern: `.*\S.*`

Required: No

AccountId

The AWS account ID of the account for the key.

Type: String

Pattern: `.*\S.*`

Required: No

CreatedAt

Indicates when the IAM access key was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

PrincipalId

The ID of the principal associated with an access key.

Type: String

Pattern: `.*\S.*`

Required: No

PrincipalName

The name of the principal.

Type: String

Pattern: `.*\S.*`

Required: No

PrincipalType

The type of principal associated with an access key.

Type: String

Pattern: `.*\S.*`

Required: No

SessionContext

Information about the session that the key was used for.

Type: AwsIamAccessKeySessionContext object

Required: No

Status

The status of the IAM access key related to a finding.

Type: String

Valid Values: `Active | Inactive`

Required: No

UserName

This member has been deprecated.

The user associated with the IAM access key related to a finding.

The `UserName` parameter has been replaced with the `PrincipalName` parameter because access keys can also be assigned to principals that are not IAM users.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsIamAccessKeySessionContext

Provides information about the session that the key was used for.

Contents

Attributes

Attributes of the session that the key was used for.

Type: AwsIamAccessKeySessionContextAttributes object

Required: No

SessionIssuer

Information about the entity that created the session.

Type: AwsIamAccessKeySessionContextSessionIssuer object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsIamAccessKeySessionContextAttributes

Attributes of the session that the key was used for.

Contents

CreationDate

Indicates when the session was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

MfaAuthenticated

Indicates whether the session used multi-factor authentication (MFA).

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsIamAccessKeySessionContextSessionIssuer

Information about the entity that created the session.

Contents

AccountId

The identifier of the AWS account that created the session.

Type: String

Pattern: `.*\S.*`

Required: No

Arn

The ARN of the session.

Type: String

Pattern: `.*\S.*`

Required: No

PrincipalId

The principal ID of the principal (user, role, or group) that created the session.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of principal (user, role, or group) that created the session.

Type: String

Pattern: `.*\S.*`

Required: No

UserName

The name of the principal that created the session.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsIamAttachedManagedPolicy

A managed policy that is attached to an IAM principal.

Contents

PolicyArn

The ARN of the policy.

Type: String

Pattern: `.*\S.*`

Required: No

PolicyName

The name of the policy.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsIamGroupDetails

Contains details about an IAM group.

Contents

AttachedManagedPolicies

A list of the managed policies that are attached to the IAM group.

Type: Array of AwsIamAttachedManagedPolicy objects

Required: No

CreateDate

Indicates when the IAM group was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

GroupId

The identifier of the IAM group.

Type: String

Pattern: `.*\S.*`

Required: No

GroupName

The name of the IAM group.

Type: String

Pattern: `.*\S.*`

Required: No

GroupPolicyList

The list of inline policies that are embedded in the group.

Type: Array of AwsIamGroupPolicy objects

Required: No

Path

The path to the group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsIamGroupPolicy

A managed policy that is attached to the IAM group.

Contents

PolicyName

The name of the policy.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsIamInstanceProfile

Information about an instance profile.

Contents

Arn

The ARN of the instance profile.

Type: String

Pattern: `.*\S.*`

Required: No

CreateDate

Indicates when the instance profile was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

InstanceProfileId

The identifier of the instance profile.

Type: String

Pattern: `.*\S.*`

Required: No

InstanceProfileName

The name of the instance profile.

Type: String

Pattern: `.*\S.*`

Required: No

Path

The path to the instance profile.

Type: String

Pattern: `.*\S.*`

Required: No

Roles

The roles associated with the instance profile.

Type: Array of AwsIamInstanceProfileRole objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsIamInstanceProfileRole

Information about a role associated with an instance profile.

Contents

Arn

The ARN of the role.

Type: String

Pattern: `.*\S.*`

Required: No

AssumeRolePolicyDocument

The policy that grants an entity permission to assume the role.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u00A1-\u00FF]+`

Required: No

CreateDate

Indicates when the role was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Path

The path to the role.

Type: String

Pattern: `.*\S.*`

Required: No

RoleId

The identifier of the role.

Type: String

Pattern: `.*\S.*`

Required: No

RoleName

The name of the role.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsIamPermissionsBoundary

Information about the policy used to set the permissions boundary for an IAM principal.

Contents

PermissionsBoundaryArn

The ARN of the policy used to set the permissions boundary.

Type: String

Pattern: `.*\S.*`

Required: No

PermissionsBoundaryType

The usage type for the permissions boundary.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsIamPolicyDetails

Represents an IAM permissions policy.

Contents

AttachmentCount

The number of users, groups, and roles that the policy is attached to.

Type: Integer

Required: No

CreateDate

When the policy was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

DefaultVersionId

The identifier of the default version of the policy.

Type: String

Pattern: `.*\S.*`

Required: No

Description

A description of the policy.

Type: String

Pattern: `.*\S.*`

Required: No

IsAttachable

Whether the policy can be attached to a user, group, or role.

Type: Boolean

Required: No

Path

The path to the policy.

Type: String

Pattern: `.*\S.*`

Required: No

PermissionsBoundaryUsageCount

The number of users and roles that use the policy to set the permissions boundary.

Type: Integer

Required: No

PolicyId

The unique identifier of the policy.

Type: String

Pattern: `.*\S.*`

Required: No

PolicyName

The name of the policy.

Type: String

Pattern: `.*\S.*`

Required: No

PolicyVersionList

List of versions of the policy.

Type: Array of AwsIamPolicyVersion objects

Required: No

UpdateDate

When the policy was most recently updated.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsIamPolicyVersion

A version of an IAM policy.

Contents

CreateDate

Indicates when the version was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

IsDefaultVersion

Whether the version is the default version.

Type: Boolean

Required: No

VersionId

The identifier of the policy version.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsIamRoleDetails

Contains information about an IAM role, including all of the role's policies.

Contents

AssumeRolePolicyDocument

The trust policy that grants permission to assume the role.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 131072.

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u00A1-\u00FF]+`

Required: No

AttachedManagedPolicies

The list of the managed policies that are attached to the role.

Type: Array of AwsIamAttachedManagedPolicy objects

Required: No

CreateDate

Indicates when the role was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

InstanceProfileList

The list of instance profiles that contain this role.

Type: Array of AwsIamInstanceProfile objects

Required: No

MaxSessionDuration

The maximum session duration (in seconds) that you want to set for the specified role.

Type: Integer

Required: No

Path

The path to the role.

Type: String

Pattern: `.*\S.*`

Required: No

PermissionsBoundary

Information about the policy used to set the permissions boundary for an IAM principal.

Type: AwsIamPermissionsBoundary object

Required: No

RoleId

The stable and unique string identifying the role.

Type: String

Pattern: `.*\S.*`

Required: No

RoleName

The friendly name that identifies the role.

Type: String

Pattern: `.*\S.*`

Required: No

RolePolicyList

The list of inline policies that are embedded in the role.

Type: Array of AwsIamRolePolicy objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsIamRolePolicy

An inline policy that is embedded in the role.

Contents

PolicyName

The name of the policy.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsIamUserDetails

Information about an IAM user.

Contents

AttachedManagedPolicies

A list of the managed policies that are attached to the user.

Type: Array of AwsIamAttachedManagedPolicy objects

Required: No

CreateDate

Indicates when the user was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

GroupList

A list of IAM groups that the user belongs to.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Path

The path to the user.

Type: String

Pattern: `.*\S.*`

Required: No

PermissionsBoundary

The permissions boundary for the user.

Type: AwsIamPermissionsBoundary object

Required: No

UserId

The unique identifier for the user.

Type: String

Pattern: `.*\S.*`

Required: No

UserName

The name of the user.

Type: String

Pattern: `.*\S.*`

Required: No

UserPolicyList

The list of inline policies that are embedded in the user.

Type: Array of AwsIamUserPolicy objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsIamUserPolicy

Information about an inline policy that is embedded in the user.

Contents

PolicyName

The name of the policy.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon Kinesis objects

Amazon Kinesis objects

- AwsKinesisStreamDetails
- AwsKinesisStreamStreamEncryptionDetails

AwsKinesisStreamDetails

Provides information about an Amazon Kinesis data stream.

Contents

Arn

The Amazon Resource Name (ARN) of the Kinesis data stream.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the Kinesis stream. If you don't specify a name, CloudFront generates a unique physical ID and uses that ID for the stream name.

Type: String

Pattern: `.*\S.*`

Required: No

RetentionPeriodHours

The number of hours for the data records that are stored in shards to remain accessible.

Type: Integer

Required: No

ShardCount

The number of shards that the stream uses.

Type: Integer

Required: No

StreamEncryption

When specified, enables or updates server-side encryption using an AWS KMS key for a specified stream. Removing this property from your stack template and updating your stack disables encryption.

Type: AwsKinesisStreamStreamEncryptionDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsKinesisStreamStreamEncryptionDetails

Provides information about stream encryption.

Contents

EncryptionType

The encryption type to use.

Type: String

Pattern: `.*\S.*`

Required: No

KeyId

The globally unique identifier for the customer-managed AWS KMS key to use for encryption.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AWS Key Management Service (AWS KMS) objects

objects

- AwsKmsKeyDetails

AwsKmsKeyDetails

Contains metadata about an AWS KMS key.

Contents

AWSAccountId

The twelve-digit account ID of the AWS account that owns the KMS key.

Type: String

Pattern: `.*\S.*`

Required: No

CreationDate

Indicates when the KMS key was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: Double

Required: No

Description

A description of the KMS key.

Type: String

Pattern: `.*\S.*`

Required: No

KeyId

The globally unique identifier for the KMS key.

Type: String

Pattern: `.*\S.*`

Required: No

KeyManager

The manager of the KMS key. KMS keys in your AWS account are either customer managed or AWS managed.

Type: String

Pattern: `.*\S.*`

Required: No

KeyRotationStatus

Whether the key has key rotation enabled.

Type: Boolean

Required: No

KeyState

The state of the KMS key. Valid values are as follows:

- `Disabled`
- `Enabled`
- `PendingDeletion`
- `PendingImport`
- `Unavailable`

Type: String

Pattern: `.*\S.*`

Required: No

Origin

The source of the KMS key material.

When this value is `AWS_KMS`, AWS KMS created the key material.

When this value is `EXTERNAL`, the key material was imported from your existing key management infrastructure or the KMS key lacks key material.

When this value is `AWS_CLOUDHSM`, the key material was created in the AWS CloudHSM cluster associated with a custom key store.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AWS Lambda objects

AWS Lambda objects

- AwsLambdaFunctionDetails
- AwsLambdaFunctionCode
- AwsLambdaFunctionDeadLetterConfig
- AwsLambdaFunctionEnvironment
- AwsLambdaFunctionEnvironmentError
- AwsLambdaFunctionLayer
- AwsLambdaFunctionTracingConfig
- AwsLambdaFunctionVpcConfig
- AwsLambdaLayerVersionDetails

AwsLambdaFunctionDetails

Details about an AWS Lambda function's configuration.

Contents

Architectures

The instruction set architecture that the function uses. Valid values are `x86_64` or `arm64`.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Code

An `AwsLambdaFunctionCode` object.

Type: AwsLambdaFunctionCode object

Required: No

CodeSha256

The SHA256 hash of the function's deployment package.

Type: String

Pattern: `.*\S.*`

Required: No

DeadLetterConfig

The function's dead letter queue.

Type: AwsLambdaFunctionDeadLetterConfig object

Required: No

Environment

The function's environment variables.

Type: AwsLambdaFunctionEnvironment object

Required: No

FunctionName

The name of the function.

Type: String

Pattern: `.*\S.*`

Required: No

Handler

The function that Lambda calls to begin executing your function.

Type: String

Pattern: `.*\S.*`

Required: No

KmsKeyArn

The AWS KMS key that is used to encrypt the function's environment variables. This key is only returned if you've configured a customer managed customer managed key.

Type: String

Pattern: `.*\S.*`

Required: No

LastModified

Indicates when the function was last updated.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Layers

The function's layers.

Type: Array of AwsLambdaFunctionLayer objects

Required: No

MasterArn

For Lambda@Edge functions, the ARN of the master function.

Type: String

Pattern: `.*\S.*`

Required: No

MemorySize

The memory that is allocated to the function.

Type: Integer

Required: No

PackageType

The type of deployment package that's used to deploy the function code to Lambda. Set to `Image` for a container image and `Zip` for a .zip file archive.

Type: String

Pattern: `.*\S.*`

Required: No

RevisionId

The latest updated revision of the function or alias.

Type: String

Pattern: `.*\S.*`

Required: No

Role

The function's execution role.

Type: String

Pattern: `.*\S.*`

Required: No

Runtime

The runtime environment for the Lambda function.

Type: String

Pattern: `.*\S.*`

Required: No

Timeout

The amount of time that Lambda allows a function to run before stopping it.

Type: Integer

Required: No

TracingConfig

The function's AWS X-Ray tracing configuration.

Type: AwsLambdaFunctionTracingConfig object

Required: No

Version

The version of the Lambda function.

Type: String

Pattern: `.*\S.*`

Required: No

VpcConfig

The function's networking configuration.

Type: AwsLambdaFunctionVpcConfig object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsLambdaFunctionCode

The code for the Lambda function. You can specify either an object in Amazon S3, or upload a deployment package directly.

Contents

S3Bucket

An Amazon S3 bucket in the same AWS Region as your function. The bucket can be in a different AWS account.

Type: String

Pattern: `.*\S.*`

Required: No

S3Key

The Amazon S3 key of the deployment package.

Type: String

Pattern: `.*\S.*`

Required: No

S3ObjectVersion

For versioned objects, the version of the deployment package object to use.

Type: String

Pattern: `.*\S.*`

Required: No

ZipFile

The base64-encoded contents of the deployment package. AWS SDK and AWS CLI clients handle the encoding for you.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsLambdaFunctionDeadLetterConfig

The dead-letter queue for failed asynchronous invocations.

Contents

TargetArn

The ARN of an SQS queue or SNS topic.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsLambdaFunctionEnvironment

A function's environment variable settings.

Contents

Error

An `AwsLambdaFunctionEnvironmentError` object.

Type: AwsLambdaFunctionEnvironmentError object

Required: No

Variables

Environment variable key-value pairs.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsLambdaFunctionEnvironmentError

Error messages for environment variables that could not be applied.

Contents

ErrorCode

The error code.

Type: String

Pattern: `.*\S.*`

Required: No

Message

The error message.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsLambdaFunctionLayer

An AWS Lambda layer.

Contents

Arn

The ARN of the function layer.

Type: String

Pattern: `.*\S.*`

Required: No

CodeSize

The size of the layer archive in bytes.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsLambdaFunctionTracingConfig

The function's AWS X-Ray tracing configuration.

Contents

Mode

The tracing mode.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsLambdaFunctionVpcConfig

The VPC security groups and subnets that are attached to a Lambda function.

Contents

SecurityGroupIds

A list of VPC security groups IDs.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SubnetIds

A list of VPC subnet IDs.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

VpcId

The ID of the VPC.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsLambdaLayerVersionDetails

Details about a Lambda layer version.

Contents

CompatibleRuntimes

The layer's compatible function runtimes.

The following list includes deprecated runtimes. For more information, see Runtime deprecation policy in the *AWS Lambda Developer Guide*.

Array Members: Maximum number of 5 items.

Valid Values: `nodejs | nodejs4.3 | nodejs6.10 | nodejs8.10 | nodejs10.x | nodejs12.x | nodejs14.x | nodejs16.x | java8 | java8.al2 | java11 | python2.7 | python3.6 | python3.7 | python3.8 | python3.9 | dotnetcore1.0 | dotnetcore2.0 | dotnetcore2.1 | dotnetcore3.1 | dotnet6 | nodejs4.3-edge | go1.x | ruby2.5 | ruby2.7 | provided | provided.al2 | nodejs18.x | python3.10 | java17 | ruby3.2 | python3.11 | nodejs20.x | provided.al2023 | python3.12 | java21`

Type: Array of strings

Pattern: `.*\S.*`

Required: No

CreatedDate

Indicates when the version was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Version

The version number.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon MSK objects

Amazon MSK objects

- AwsMskClusterDetails
- AwsMskClusterClusterInfoClientAuthenticationDetails
- AwsMskClusterClusterInfoClientAuthenticationSaslDetails
- AwsMskClusterClusterInfoClientAuthenticationSaslIamDetails
- AwsMskClusterClusterInfoClientAuthenticationSaslScramDetails
- AwsMskClusterClusterInfoClientAuthenticationTlsDetails
- AwsMskClusterClusterInfoClientAuthenticationUnauthenticatedDetails
- AwsMskClusterClusterInfoDetails
- AwsMskClusterClusterInfoEncryptionInfoDetails
- AwsMskClusterClusterInfoEncryptionInfoEncryptionAtRestDetails
- AwsMskClusterClusterInfoEncryptionInfoEncryptionInTransitDetails

AwsMskClusterDetails

Provides details about an Amazon Managed Streaming for Apache Kafka (Amazon MSK) cluster.

Contents

ClusterInfo

Provides information about a cluster.

Type: AwsMskClusterClusterInfoDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsMskClusterClusterInfoClientAuthenticationDetails

Provides details about different modes of client authentication.

Contents

Sasl

Provides details for client authentication using SASL.

Type: AwsMskClusterClusterInfoClientAuthenticationSaslDetails object

Required: No

Tls

Provides details for client authentication using TLS.

Type: AwsMskClusterClusterInfoClientAuthenticationTlsDetails object

Required: No

Unauthenticated

Provides details for allowing no client authentication.

Type: AwsMskClusterClusterInfoClientAuthenticationUnauthenticatedDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsMskClusterClusterInfoClientAuthenticationSaslDetails

Provides details for client authentication using SASL.

Contents

Iam

Provides details for SASL client authentication using IAM.

Type: AwsMskClusterClusterInfoClientAuthenticationSaslIamDetails object

Required: No

Scram

Details for SASL client authentication using SCRAM.

Type: AwsMskClusterClusterInfoClientAuthenticationSaslScramDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsMskClusterClusterInfoClientAuthenticationSaslIamDetails

Details for SASL/IAM client authentication.

Contents

Enabled

Indicates whether SASL/IAM authentication is enabled or not.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsMskClusterClusterInfoClientAuthenticationSaslScramDetails

Details for SASL/SCRAM client authentication.

Contents

Enabled

Indicates whether SASL/SCRAM authentication is enabled or not.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsMskClusterClusterInfoClientAuthenticationTlsDetails

Provides details for client authentication using TLS.

Contents

CertificateAuthorityArnList

List of AWS Private CA Amazon Resource Names (ARNs). AWS Private CA enables creation of private certificate authority (CA) hierarchies, including root and subordinate CAs, without the investment and maintenance costs of operating an on-premises CA.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Enabled

Indicates whether TLS authentication is enabled or not.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsMskClusterClusterInfoClientAuthenticationUnauthenticatedDetails

Provides details for allowing no client authentication.

Contents

Enabled

Indicates whether unauthenticated is allowed or not.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsMskClusterClusterInfoDetails

Provide details about an Amazon Managed Streaming for Apache Kafka (Amazon MSK) cluster.

Contents

ClientAuthentication

Provides information for different modes of client authentication.

Type: AwsMskClusterClusterInfoClientAuthenticationDetails object

Required: No

ClusterName

The name of the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

CurrentVersion

The current version of the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

EncryptionInfo

Includes encryption-related information, such as the AWS KMS key used for encrypting data at rest and whether you want Amazon MSK to encrypt your data in transit.

Type: AwsMskClusterClusterInfoEncryptionInfoDetails object

Required: No

EnhancedMonitoring

Specifies the level of monitoring for the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

NumberOfBrokerNodes

The number of broker nodes in the cluster.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsMskClusterClusterInfoEncryptionInfoDetails

Includes encryption-related information, such as the AWS KMS key used for encrypting data at rest and whether you want MSK to encrypt your data in transit.

Contents

EncryptionAtRest

The data-volume encryption details. You can't update encryption at rest settings for existing clusters.

Type: AwsMskClusterClusterInfoEncryptionInfoEncryptionAtRestDetails object

Required: No

EncryptionInTransit

The settings for encrypting data in transit.

Type: AwsMskClusterClusterInfoEncryptionInfoEncryptionInTransitDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsMskClusterClusterInfoEncryptionInfoEncryptionAtRestDetails

The data-volume encryption details. You can't update encryption at rest settings for existing clusters.

Contents

DataVolumeKMSKeyId

The Amazon Resource Name (ARN) of the AWS KMS key for encrypting data at rest. If you don't specify a KMS key, MSK creates one for you and uses it.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsMskClusterClusterInfoEncryptionInfoEncryptionInTransitDetails

The settings for encrypting data in transit.

Contents

ClientBroker

Indicates the encryption setting for data in transit between clients and brokers.

Type: String

Pattern: `.*\S.*`

Required: No

InCluster

When set to `true`, it indicates that data communication among the broker nodes of the cluster is encrypted. When set to `false`, the communication happens in plain text. The default value is `true`.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AWS Network Firewall objects

AWS Network Firewall objects

- AwsNetworkFirewallFirewallDetails
- AwsNetworkFirewallFirewallPolicyDetails

- FirewallPolicyDetails
- FirewallPolicyStatelessCustomActionsDetails
- StatelessCustomActionDefinition
- StatelessCustomPublishMetricAction
- StatelessCustomPublishMetricActionDimension
- AwsNetworkFirewallFirewallSubnetMappingsDetails
- AwsNetworkFirewallRuleGroupDetails
- RuleGroupDetails
- RuleGroupSource
- RuleGroupSourceCustomActionsDetails
- RuleGroupSourceListDetails
- RuleGroupSourceStatefulRulesDetails
- RuleGroupSourceStatefulRulesHeaderDetails
- RuleGroupSourceStatefulRulesOptionsDetails
- RuleGroupSourceStatelessRuleDefinition
- RuleGroupSourceStatelessRuleMatchAttributes
- RuleGroupSourceStatelessRuleMatchAttributesDestinationPorts
- RuleGroupSourceStatelessRuleMatchAttributesDestinations
- RuleGroupSourceStatelessRuleMatchAttributesSourcePorts
- RuleGroupSourceStatelessRuleMatchAttributesSources
- RuleGroupSourceStatelessRuleMatchAttributesTcpFlags
- RuleGroupSourceStatelessRulesAndCustomActionsDetails
- RuleGroupSourceStatelessRulesDetails
- RuleGroupVariables
- RuleGroupVariablesIpSetsDetails
- RuleGroupVariablesPortSetsDetails
- NetworkHeader
- FirewallPolicyStatefulRuleGroupReferencesDetails
- FirewallPolicyStatelessRuleGroupReferencesDetails

AwsNetworkFirewallFirewallDetails

Details about an AWS Network Firewall firewall.

Contents

DeleteProtection

Whether the firewall is protected from deletion. If set to `true`, then the firewall cannot be deleted.

Type: Boolean

Required: No

Description

A description of the firewall.

Type: String

Pattern: `.*\S.*`

Required: No

FirewallArn

The ARN of the firewall.

Type: String

Pattern: `.*\S.*`

Required: No

FirewallId

The identifier of the firewall.

Type: String

Pattern: `.*\S.*`

Required: No

FirewallName

A descriptive name of the firewall.

Type: String

Pattern: `.*\S.*`

Required: No

FirewallPolicyArn

The ARN of the firewall policy.

Type: String

Pattern: `.*\S.*`

Required: No

FirewallPolicyChangeProtection

Whether the firewall is protected from a change to the firewall policy. If set to `true`, you cannot associate a different policy with the firewall.

Type: Boolean

Required: No

SubnetChangeProtection

Whether the firewall is protected from a change to the subnet associations. If set to `true`, you cannot map different subnets to the firewall.

Type: Boolean

Required: No

SubnetMappings

The public subnets that Network Firewall uses for the firewall. Each subnet must belong to a different Availability Zone.

Type: Array of AwsNetworkFirewallFirewallSubnetMappingsDetails objects

Required: No

VpcId

The identifier of the VPC where the firewall is used.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsNetworkFirewallFirewallPolicyDetails

Details about a firewall policy. A firewall policy defines the behavior of a network firewall.

Contents

Description

A description of the firewall policy.

Type: String

Pattern: `.*\S.*`

Required: No

FirewallPolicy

The firewall policy configuration.

Type: FirewallPolicyDetails object

Required: No

FirewallPolicyArn

The ARN of the firewall policy.

Type: String

Pattern: `.*\S.*`

Required: No

FirewallPolicyId

The identifier of the firewall policy.

Type: String

Pattern: `.*\S.*`

Required: No

FirewallPolicyName

The name of the firewall policy.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FirewallPolicyDetails

Defines the behavior of the firewall.

Contents

StatefulRuleGroupReferences

The stateful rule groups that are used in the firewall policy.

Type: Array of FirewallPolicyStatefulRuleGroupReferencesDetails objects

Required: No

StatelessCustomActions

The custom action definitions that are available to use in the firewall policy's `StatelessDefaultActions` setting.

Type: Array of FirewallPolicyStatelessCustomActionsDetails objects

Required: No

StatelessDefaultActions

The actions to take on a packet if it doesn't match any of the stateless rules in the policy.

You must specify a standard action (`aws:pass`, `aws:drop`, `aws:forward_to_sfe`), and can optionally include a custom action from `StatelessCustomActions`.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

StatelessFragmentDefaultActions

The actions to take on a fragmented UDP packet if it doesn't match any of the stateless rules in the policy.

You must specify a standard action (`aws:pass`, `aws:drop`, `aws:forward_to_sfe`), and can optionally include a custom action from `StatelessCustomActions`.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

StatelessRuleGroupReferences

The stateless rule groups that are used in the firewall policy.

Type: Array of FirewallPolicyStatelessRuleGroupReferencesDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FirewallPolicyStatelessCustomActionsDetails

A custom action that can be used for stateless packet handling.

Contents

ActionDefinition

The definition of the custom action.

Type: StatelessCustomActionDefinition object

Required: No

ActionName

The name of the custom action.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StatelessCustomActionDefinition

The definition of a custom action that can be used for stateless packet handling.

Contents

PublishMetricAction

Information about metrics to publish to CloudWatch.

Type: StatelessCustomPublishMetricAction object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StatelessCustomPublishMetricAction

Information about metrics to publish to CloudWatch.

Contents

Dimensions

Defines CloudWatch dimension values to publish.

Type: Array of StatelessCustomPublishMetricActionDimension objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

StatelessCustomPublishMetricActionDimension

Defines a CloudWatch dimension value to publish.

Contents

Value

The value to use for the custom metric dimension.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsNetworkFirewallFirewallSubnetMappingsDetails

A public subnet that Network Firewall uses for the firewall.

Contents

SubnetId

The identifier of the subnet

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsNetworkFirewallRuleGroupDetails

Details about an AWS Network Firewall rule group. Rule groups are used to inspect and control network traffic. Stateless rule groups apply to individual packets. Stateful rule groups apply to packets in the context of their traffic flow.

Rule groups are referenced in firewall policies.

Contents

Capacity

The maximum number of operating resources that this rule group can use.

Type: Integer

Required: No

Description

A description of the rule group.

Type: String

Pattern: `.*\S.*`

Required: No

RuleGroup

Details about the rule group.

Type: RuleGroupDetails object

Required: No

RuleGroupArn

The ARN of the rule group.

Type: String

Pattern: `.*\S.*`

Required: No

RuleGroupId

The identifier of the rule group.

Type: String

Pattern: `.*\S.*`

Required: No

RuleGroupName

The descriptive name of the rule group.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of rule group. A rule group can be stateful or stateless.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupDetails

Details about the rule group.

Contents

RulesSource

The rules and actions for the rule group.

For stateful rule groups, can contain `RulesString`, `RulesSourceList`, or `StatefulRules`.

For stateless rule groups, contains `StatelessRulesAndCustomActions`.

Type: RuleGroupSource object

Required: No

RuleVariables

Additional settings to use in the specified rules.

Type: RuleGroupVariables object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupSource

The rules and actions for the rule group.

Contents

RulesSourceList

Stateful inspection criteria for a domain list rule group. A domain list rule group determines access by specific protocols to specific domains.

Type: RuleGroupSourceListDetails object

Required: No

RulesString

Stateful inspection criteria, provided in Suricata compatible intrusion prevention system (IPS) rules.

Type: String

Pattern: `.*\S.*`

Required: No

StatefulRules

Suricata rule specifications.

Type: Array of RuleGroupSourceStatefulRulesDetails objects

Required: No

StatelessRulesAndCustomActions

The stateless rules and custom actions used by a stateless rule group.

Type: RuleGroupSourceStatelessRulesAndCustomActionsDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupSourceCustomActionsDetails

A custom action definition. A custom action is an optional, non-standard action to use for stateless packet handling.

Contents

ActionDefinition

The definition of a custom action.

Type: StatelessCustomActionDefinition object

Required: No

ActionName

A descriptive name of the custom action.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupSourceListDetails

Stateful inspection criteria for a domain list rule group.

Contents

GeneratedRulesType

Indicates whether to allow or deny access to the domains listed in `Targets`.

Type: String

Pattern: `.*\S.*`

Required: No

Targets

The domains that you want to inspect for in your traffic flows. You can provide full domain names, or use the '.' prefix as a wildcard. For example, `.example.com` matches all domains that end with `example.com`.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

TargetTypes

The protocols that you want to inspect. Specify `LS_SNI` for HTTPS. Specify `HTTP_HOST` for HTTP. You can specify either or both.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupSourceStatefulRulesDetails

A Suricata rule specification.

Contents

Action

Defines what Network Firewall should do with the packets in a traffic flow when the flow matches the stateful rule criteria.

Type: String

Pattern: `.*\S.*`

Required: No

Header

The stateful inspection criteria for the rule.

Type: RuleGroupSourceStatefulRulesHeaderDetails object

Required: No

RuleOptions

Additional options for the rule.

Type: Array of RuleGroupSourceStatefulRulesOptionsDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupSourceStatefulRulesHeaderDetails

The inspection criteria for a stateful rule.

Contents

Destination

The destination IP address or address range to inspect for, in CIDR notation. To match with any address, specify `ANY`.

Type: String

Pattern: `.*\S.*`

Required: No

DestinationPort

The destination port to inspect for. You can specify an individual port, such as `1994`. You also can specify a port range, such as `1990:1994`. To match with any port, specify `ANY`.

Type: String

Pattern: `.*\S.*`

Required: No

Direction

The direction of traffic flow to inspect. If set to `ANY`, the inspection matches bidirectional traffic, both from the source to the destination and from the destination to the source. If set to `FORWARD`, the inspection only matches traffic going from the source to the destination.

Type: String

Pattern: `.*\S.*`

Required: No

Protocol

The protocol to inspect for. To inspector for all protocols, use `IP`.

Type: String

Pattern: `.*\S.*`

Required: No

Source

The source IP address or address range to inspect for, in CIDR notation. To match with any address, specify `ANY`.

Type: String

Pattern: `.*\S.*`

Required: No

SourcePort

The source port to inspect for. You can specify an individual port, such as `1994`. You also can specify a port range, such as `1990:1994`. To match with any port, specify `ANY`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupSourceStatefulRulesOptionsDetails

A rule option for a stateful rule.

Contents

Keyword

A keyword to look for.

Type: String

Pattern: `.*\S.*`

Required: No

Settings

A list of settings.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupSourceStatelessRuleDefinition

The definition of the stateless rule.

Contents

Actions

The actions to take on a packet that matches one of the stateless rule definition's match attributes. You must specify a standard action (`aws:pass`, `aws:drop`, or `aws:forward_to_sfe`). You can then add custom actions.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

MatchAttributes

The criteria for Network Firewall to use to inspect an individual packet in a stateless rule inspection.

Type: RuleGroupSourceStatelessRuleMatchAttributes object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupSourceStatelessRuleMatchAttributes

Criteria for the stateless rule.

Contents

DestinationPorts

A list of port ranges to specify the destination ports to inspect for.

Type: Array of RuleGroupSourceStatelessRuleMatchAttributesDestinationPorts objects

Required: No

Destinations

The destination IP addresses and address ranges to inspect for, in CIDR notation.

Type: Array of RuleGroupSourceStatelessRuleMatchAttributesDestinations objects

Required: No

Protocols

The protocols to inspect for.

Type: Array of integers

Required: No

SourcePorts

A list of port ranges to specify the source ports to inspect for.

Type: Array of RuleGroupSourceStatelessRuleMatchAttributesSourcePorts objects

Required: No

Sources

The source IP addresses and address ranges to inspect for, in CIDR notation.

Type: Array of RuleGroupSourceStatelessRuleMatchAttributesSources objects

Required: No

TcpFlags

The TCP flags and masks to inspect for.

Type: Array of RuleGroupSourceStatelessRuleMatchAttributesTcpFlags objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupSourceStatelessRuleMatchAttributesDestinationPorts

A port range to specify the destination ports to inspect for.

Contents

FromPort

The starting port value for the port range.

Type: Integer

Required: No

ToPort

The ending port value for the port range.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupSourceStatelessRuleMatchAttributesDestinations

A destination IP address or range.

Contents

AddressDefinition

An IP address or a block of IP addresses.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupSourceStatelessRuleMatchAttributesSourcePorts

A port range to specify the source ports to inspect for.

Contents

FromPort

The starting port value for the port range.

Type: Integer

Required: No

ToPort

The ending port value for the port range.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupSourceStatelessRuleMatchAttributesSources

A source IP addresses and address range to inspect for.

Contents

AddressDefinition

An IP address or a block of IP addresses.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupSourceStatelessRuleMatchAttributesTcpFlags

A set of TCP flags and masks to inspect for.

Contents

Flags

Defines the flags from the `Masks` setting that must be set in order for the packet to match. Flags that are listed must be set. Flags that are not listed must not be set.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Masks

The set of flags to consider in the inspection. If not specified, then all flags are inspected.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupSourceStatelessRulesAndCustomActionsDetails

Stateless rules and custom actions for a stateless rule group.

Contents

CustomActions

Custom actions for the rule group.

Type: Array of RuleGroupSourceCustomActionsDetails objects

Required: No

StatelessRules

Stateless rules for the rule group.

Type: Array of RuleGroupSourceStatelessRulesDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupSourceStatelessRulesDetails

A stateless rule in the rule group.

Contents

Priority

Indicates the order in which to run this rule relative to all of the rules in the stateless rule group.

Type: Integer

Required: No

RuleDefinition

Provides the definition of the stateless rule.

Type: RuleGroupSourceStatelessRuleDefinition object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupVariables

Additional settings to use in the specified rules.

Contents

IpSets

A list of IP addresses and address ranges, in CIDR notation.

Type: RuleGroupVariablesIpSetsDetails object

Required: No

PortSets

A list of port ranges.

Type: RuleGroupVariablesPortSetsDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupVariablesIpSetsDetails

A list of IP addresses and address ranges, in CIDR notation.

Contents

Definition

The list of IP addresses and ranges.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RuleGroupVariablesPortSetsDetails

A list of port ranges.

Contents

Definition

The list of port ranges.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NetworkHeader

Details about a network path component that occurs before or after the current component.

Contents

Destination

Information about the destination of the component.

Type: NetworkPathComponentDetails object

Required: No

Protocol

The protocol used for the component.

Length Constraints: Minimum of 1. Maximum of 16.

Type: String

Pattern: `.*\S.*`

Required: No

Source

Information about the origin of the component.

Type: NetworkPathComponentDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FirewallPolicyStatefulRuleGroupReferencesDetails

A stateful rule group that is used by the firewall policy.

Contents

ResourceArn

The ARN of the stateful rule group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FirewallPolicyStatelessRuleGroupReferencesDetails

A stateless rule group that is used by the firewall policy.

Contents

Priority

The order in which to run the stateless rule group.

Type: Integer

Required: No

ResourceArn

The ARN of the stateless rule group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon OpenSearch Service

Amazon OpenSearch Service objects

- AwsOpenSearchServiceDomainAdvancedSecurityOptionsDetails
- AwsOpenSearchServiceDomainClusterConfigDetails
- AwsOpenSearchServiceDomainClusterConfigZoneAwarenessConfigDetails
- AwsOpenSearchServiceDomainDetails

- AwsOpenSearchServiceDomainDomainEndpointOptionsDetails
- AwsOpenSearchServiceDomainEncryptionAtRestOptionsDetails
- AwsOpenSearchServiceDomainLogPublishingOption
- AwsOpenSearchServiceDomainLogPublishingOptionsDetails
- AwsOpenSearchServiceDomainMasterUserOptionsDetails
- AwsOpenSearchServiceDomainNodeToNodeEncryptionOptionsDetails
- AwsOpenSearchServiceDomainServiceSoftwareOptionsDetails
- AwsOpenSearchServiceDomainVpcOptionsDetails

AwsOpenSearchServiceDomainAdvancedSecurityOptionsDetails

Provides information about domain access control options.

Contents

Enabled

Enables fine-grained access control.

Type: Boolean

Required: No

InternalUserDatabaseEnabled

Enables the internal user database.

Type: Boolean

Required: No

MasterUserOptions

Specifies information about the master user of the domain.

Type: AwsOpenSearchServiceDomainMasterUserOptionsDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsOpenSearchServiceDomainClusterConfigDetails

Details about the configuration of an OpenSearch cluster.

Contents

DedicatedMasterCount

The number of instances to use for the master node. If this attribute is specified, then `DedicatedMasterEnabled` must be `true`.

Type: Integer

Required: No

DedicatedMasterEnabled

Whether to use a dedicated master node for the OpenSearch domain. A dedicated master node performs cluster management tasks, but does not hold data or respond to data upload requests.

Type: Boolean

Required: No

DedicatedMasterType

The hardware configuration of the computer that hosts the dedicated master node.

If this attribute is specified, then `DedicatedMasterEnabled` must be `true`.

Type: String

Pattern: `.*\S.*`

Required: No

InstanceCount

The number of data nodes to use in the OpenSearch domain.

Type: Integer

Required: No

InstanceType

The instance type for your data nodes.

For a list of valid values, see Supported instance types in Amazon OpenSearch Service in the *Amazon OpenSearch Service Developer Guide*.

Type: String

Pattern: `.*\S.*`

Required: No

WarmCount

The number of UltraWarm instances.

Type: Integer

Required: No

WarmEnabled

Whether UltraWarm is enabled.

Type: Boolean

Required: No

WarmType

The type of UltraWarm instance.

Type: String

Pattern: `.*\S.*`

Required: No

ZoneAwarenessConfig

Configuration options for zone awareness. Provided if `ZoneAwarenessEnabled` is `true`.

Type: AwsOpenSearchServiceDomainClusterConfigZoneAwarenessConfigDetails object

Required: No

ZoneAwarenessEnabled

Whether to enable zone awareness for the OpenSearch domain. When zone awareness is enabled, OpenSearch Service allocates the cluster's nodes and replica index shards across Availability Zones (AZs) in the same Region. This prevents data loss and minimizes downtime if a node or data center fails.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsOpenSearchServiceDomainClusterConfigZoneAwarenessConfigDetails

Configuration options for zone awareness.

Contents

AvailabilityZoneCount

The number of Availability Zones that the domain uses. Valid values are 2 or 3. The default is 2.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsOpenSearchServiceDomainDetails

Information about an Amazon OpenSearch Service domain.

Contents

AccessPolicies

IAM policy document that specifies the access policies for the OpenSearch Service domain.

Type: String

Pattern: `.*\S.*`

Required: No

AdvancedSecurityOptions

Specifies options for fine-grained access control.

Type: AwsOpenSearchServiceDomainAdvancedSecurityOptionsDetails object

Required: No

Arn

The ARN of the OpenSearch Service domain.

Type: String

Pattern: `.*\S.*`

Required: No

ClusterConfig

Details about the configuration of an OpenSearch cluster.

Type: AwsOpenSearchServiceDomainClusterConfigDetails object

Required: No

DomainEndpoint

The domain endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

DomainEndpointOptions

Additional options for the domain endpoint.

Type: AwsOpenSearchServiceDomainDomainEndpointOptionsDetails object

Required: No

DomainEndpoints

The domain endpoints. Used if the OpenSearch domain resides in a VPC.

This is a map of key-value pairs. The key is always `vpc`. The value is the endpoint.

Type: String to string map

Key Pattern: `.*\S.*`

Value Pattern: `.*\S.*`

Required: No

DomainName

The name of the endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

EncryptionAtRestOptions

Details about the configuration for encryption at rest.

Type: AwsOpenSearchServiceDomainEncryptionAtRestOptionsDetails object

Required: No

EngineVersion

The version of the domain engine.

Type: String

Pattern: `.*\S.*`

Required: No

Id

The identifier of the domain.

Type: String

Pattern: `.*\S.*`

Required: No

LogPublishingOptions

Configures the CloudWatch Logs to publish for the OpenSearch domain.

Type: AwsOpenSearchServiceDomainLogPublishingOptionsDetails object

Required: No

NodeToNodeEncryptionOptions

Details about the configuration for node-to-node encryption.

Type: AwsOpenSearchServiceDomainNodeToNodeEncryptionOptionsDetails object

Required: No

ServiceSoftwareOptions

Information about the status of a domain relative to the latest service software.

Type: AwsOpenSearchServiceDomainServiceSoftwareOptionsDetails object

Required: No

VpcOptions

Information that OpenSearch Service derives based on `VPCOptions` for the domain.

Type: AwsOpenSearchServiceDomainVpcOptionsDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsOpenSearchServiceDomainDomainEndpointOptionsDetails

Information about additional options for the domain endpoint.

Contents

CustomEndpoint

The fully qualified URL for the custom endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

CustomEndpointCertificateArn

The ARN for the security certificate. The certificate is managed in ACM.

Type: String

Pattern: `.*\S.*`

Required: No

CustomEndpointEnabled

Whether to enable a custom endpoint for the domain.

Type: Boolean

Required: No

EnforceHTTPS

Whether to require that all traffic to the domain arrive over HTTPS.

Type: Boolean

Required: No

TLSSecurityPolicy

The TLS security policy to apply to the HTTPS endpoint of the OpenSearch domain.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsOpenSearchServiceDomainEncryptionAtRestOptionsDetails

Details about the configuration for encryption at rest for the OpenSearch domain.

Contents

Enabled

Whether encryption at rest is enabled.

Type: Boolean

Required: No

KmsKeyId

The KMS key ID.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsOpenSearchServiceDomainLogPublishingOption

Configuration details for a log publishing option.

Contents

CloudWatchLogsLogGroupArn

The ARN of the CloudWatch Logs group to publish the logs to.

Type: String

Pattern: `.*\S.*`

Required: No

Enabled

Whether the log publishing is enabled.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsOpenSearchServiceDomainLogPublishingOptionsDetails

Configures the CloudWatch Logs to publish for the OpenSearch domain.

Contents

AuditLogs

Configures the OpenSearch audit logs publishing.

Type: AwsOpenSearchServiceDomainLogPublishingOption object

Required: No

IndexSlowLogs

Configures the OpenSearch index logs publishing.

Type: AwsOpenSearchServiceDomainLogPublishingOption object

Required: No

SearchSlowLogs

Configures the OpenSearch search slow log publishing.

Type: AwsOpenSearchServiceDomainLogPublishingOption object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsOpenSearchServiceDomainMasterUserOptionsDetails

Specifies information about the master user of the domain.

Contents

MasterUserArn

The Amazon Resource Name (ARN) for the master user.

Type: String

Pattern: `.*\S.*`

Required: No

MasterUserName

The username for the master user.

Type: String

Pattern: `.*\S.*`

Required: No

MasterUserPassword

The password for the master user.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsOpenSearchServiceDomainNodeToNodeEncryptionOptionsDetails

Provides details about the configuration for node-to-node encryption.

Contents

Enabled

Whether node-to-node encryption is enabled.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsOpenSearchServiceDomainServiceSoftwareOptionsDetails

Provides information about the state of the domain relative to the latest service software.

Contents

AutomatedUpdateDate

The epoch time when the deployment window closes for required updates. After this time, OpenSearch Service schedules the software upgrade automatically.

Type: String

Pattern: `.*\S.*`

Required: No

Cancellable

Whether a request to update the domain can be canceled.

Type: Boolean

Required: No

CurrentVersion

The version of the service software that is currently installed on the domain.

Type: String

Pattern: `.*\S.*`

Required: No

Description

A more detailed description of the service software status.

Type: String

Pattern: `.*\S.*`

Required: No

NewVersion

The most recent version of the service software.

Type: String

Pattern: `.*\S.*`

Required: No

OptionalDeployment

Whether the service software update is optional.

Type: Boolean

Required: No

UpdateAvailable

Whether a service software update is available for the domain.

Type: Boolean

Required: No

UpdateStatus

The status of the service software update. Valid values are as follows:

- `COMPLETED`
- `ELIGIBLE`
- `IN_PROGRESS`
- `NOT_ELIGIBLE`
- `PENDING_UPDATE`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsOpenSearchServiceDomainVpcOptionsDetails

Contains information that OpenSearch Service derives based on the `VPCOptions` for the domain.

Contents

SecurityGroupIds

The list of security group IDs that are associated with the VPC endpoints for the domain.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SubnetIds

A list of subnet IDs that are associated with the VPC endpoints for the domain.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon Relational Database Service (RDS) objects

Amazon Relational Database Service (RDS) objects

- AwsRdsDbClusterAssociatedRole
- AwsRdsDbClusterDetails

- AwsRdsDbClusterMember
- AwsRdsDbClusterOptionGroupMembership
- AwsRdsDbClusterSnapshotDbClusterSnapshotAttribute
- AwsRdsDbClusterSnapshotDetails
- AwsRdsDbDomainMembership
- AwsRdsDbInstanceAssociatedRole
- AwsRdsDbInstanceDetails
- AwsRdsDbInstanceEndpoint
- AwsRdsDbInstanceVpcSecurityGroup
- AwsRdsDbOptionGroupMembership
- AwsRdsDbParameterGroup
- AwsRdsDbPendingModifiedValues
- AwsRdsDbProcessorFeature
- AwsRdsDbSecurityGroupDetails
- AwsRdsDbSecurityGroupEc2SecurityGroup
- AwsRdsDbSecurityGroupIpRange
- AwsRdsDbSnapshotDetails
- AwsRdsDbStatusInfo
- AwsRdsDbSubnetGroup
- AwsRdsDbSubnetGroupSubnet
- AwsRdsDbSubnetGroupSubnetAvailabilityZone
- AwsRdsEventSubscriptionDetails
- AwsRdsPendingCloudWatchLogsExports

AwsRdsDbClusterAssociatedRole

An IAM role that is associated with the Amazon RDS DB cluster.

Contents

RoleArn

The ARN of the IAM role.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The status of the association between the IAM role and the DB cluster. Valid values are as follows:

- `ACTIVE`
- `INVALID`
- `PENDING`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbClusterDetails

Information about an Amazon RDS DB cluster.

Contents

ActivityStreamStatus

The status of the database activity stream. Valid values are as follows:

- `started`
- `starting`
- `stopped`
- `stopping`

Type: String

Pattern: `.*\S.*`

Required: No

AllocatedStorage

For all database engines except Aurora, specifies the allocated storage size in gibibytes (GiB).

Type: Integer

Required: No

AssociatedRoles

A list of the IAM roles that are associated with the DB cluster.

Type: Array of AwsRdsDbClusterAssociatedRole objects

Required: No

AutoMinorVersionUpgrade

Indicates if minor version upgrades are automatically applied to the cluster.

Type: Boolean

Required: No

AvailabilityZones

A list of Availability Zones (AZs) where instances in the DB cluster can be created.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

BackupRetentionPeriod

The number of days for which automated backups are retained.

Type: Integer

Required: No

ClusterCreateTime

Indicates when the DB cluster was created, in Universal Coordinated Time (UTC).

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

CopyTagsToSnapshot

Whether tags are copied from the DB cluster to snapshots of the DB cluster.

Type: Boolean

Required: No

CrossAccountClone

Whether the DB cluster is a clone of a DB cluster owned by a different AWS account.

Type: Boolean

Required: No

CustomEndpoints

A list of custom endpoints for the DB cluster.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

DatabaseName

The name of the database.

Type: String

Pattern: `.*\S.*`

Required: No

DbClusterIdentifier

The DB cluster identifier that the user assigned to the cluster. This identifier is the unique key that identifies a DB cluster.

Type: String

Pattern: `.*\S.*`

Required: No

DbClusterMembers

The list of instances that make up the DB cluster.

Type: Array of AwsRdsDbClusterMember objects

Required: No

DbClusterOptionGroupMemberships

The list of option group memberships for this DB cluster.

Type: Array of AwsRdsDbClusterOptionGroupMembership objects

Required: No

DbClusterParameterGroup

The name of the DB cluster parameter group for the DB cluster.

Type: String

Pattern: `.*\S.*`

Required: No

DbClusterResourceId

The identifier of the DB cluster. The identifier must be unique within each AWS Region and is immutable.

Type: String

Pattern: `.*\S.*`

Required: No

DbSubnetGroup

The subnet group that is associated with the DB cluster, including the name, description, and subnets in the subnet group.

Type: String

Pattern: `.*\S.*`

Required: No

DeletionProtection

Whether the DB cluster has deletion protection enabled.

Type: Boolean

Required: No

DomainMemberships

The Active Directory domain membership records that are associated with the DB cluster.

Type: Array of AwsRdsDbDomainMembership objects

Required: No

EnabledCloudWatchLogsExports

A list of log types that this DB cluster is configured to export to CloudWatch Logs.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Endpoint

The connection endpoint for the primary instance of the DB cluster.

Type: String

Pattern: `.*\S.*`

Required: No

Engine

The name of the database engine to use for this DB cluster. Valid values are as follows:

- `aurora`
- `aurora-mysql`
- `aurora-postgresql`

Type: String

Pattern: `.*\S.*`

Required: No

EngineMode

The database engine mode of the DB cluster.Valid values are as follows:

- `global`
- `multimaster`
- `parallelquery`
- `provisioned`
- `serverless`

Type: String

Pattern: `.*\S.*`

Required: No

EngineVersion

The version number of the database engine to use.

Type: String

Pattern: `.*\S.*`

Required: No

HostedZoneId

Specifies the identifier that Amazon Route 53 assigns when you create a hosted zone.

Type: String

Pattern: `.*\S.*`

Required: No

HttpEndpointEnabled

Whether the HTTP endpoint for an Aurora Serverless DB cluster is enabled.

Type: Boolean

Required: No

IamDatabaseAuthenticationEnabled

Whether the mapping of IAM accounts to database accounts is enabled.

Type: Boolean

Required: No

KmsKeyId

The ARN of the AWS KMS master key that is used to encrypt the database instances in the DB cluster.

Type: String

Pattern: `.*\S.*`

Required: No

MasterUsername

The name of the master user for the DB cluster.

Type: String

Pattern: `.*\S.*`

Required: No

MultiAz

Whether the DB cluster has instances in multiple Availability Zones.

Type: Boolean

Required: No

Port

The port number on which the DB instances in the DB cluster accept connections.

Type: Integer

Required: No

PreferredBackupWindow

The range of time each day when automated backups are created, if automated backups are enabled.

Uses the format `HH:MM-HH:MM`. For example, `04:52-05:22`.

Type: String

Pattern: `.*\S.*`

Required: No

PreferredMaintenanceWindow

The weekly time range during which system maintenance can occur, in Universal Coordinated Time (UTC).

Uses the format `<day>:HH:MM-<day>:HH:MM`.

For the day values, use `mon|tue|wed|thu|fri|sat|sun`.

For example, `sun:09:32-sun:10:02`.

Type: String

Pattern: `.*\S.*`

Required: No

ReaderEndpoint

The reader endpoint for the DB cluster.

Type: String

Pattern: `.*\S.*`

Required: No

ReadReplicaIdentifiers

The identifiers of the read replicas that are associated with this DB cluster.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Status

The current status of this DB cluster.

Type: String

Pattern: `.*\S.*`

Required: No

StorageEncrypted

Whether the DB cluster is encrypted.

Type: Boolean

Required: No

VpcSecurityGroups

A list of VPC security groups that the DB cluster belongs to.

Type: Array of AwsRdsDbInstanceVpcSecurityGroup objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbClusterMember

Information about an instance in the DB cluster.

Contents

DbClusterParameterGroupStatus

The status of the DB cluster parameter group for this member of the DB cluster.

Type: String

Pattern: `.*\S.*`

Required: No

DbInstanceIdentifier

The instance identifier for this member of the DB cluster.

Type: String

Pattern: `.*\S.*`

Required: No

IsClusterWriter

Whether the cluster member is the primary instance for the DB cluster.

Type: Boolean

Required: No

PromotionTier

Specifies the order in which an Aurora replica is promoted to the primary instance when the existing primary instance fails.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbClusterOptionGroupMembership

Information about an option group membership for a DB cluster.

Contents

DbClusterOptionGroupName

The name of the DB cluster option group.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The status of the DB cluster option group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbClusterSnapshotDbClusterSnapshotAttribute

Contains the name and values of a manual Amazon Relational Database Service (RDS) DB cluster snapshot attribute.

Contents

AttributeName

The name of the manual DB cluster snapshot attribute. The attribute named `restore` refers to the list of AWS accounts that have permission to copy or restore the manual DB cluster snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

AttributeValues

The value(s) for the manual DB cluster snapshot attribute. If the `AttributeName` field is set to `restore`, then this element returns a list of IDs of the AWS accounts that are authorized to copy or restore the manual DB cluster snapshot. If a value of `all` is in the list, then the manual DB cluster snapshot is public and available for any AWS account to copy or restore.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbClusterSnapshotDetails

Information about an Amazon RDS DB cluster snapshot.

Contents

AllocatedStorage

Specifies the allocated storage size in gibibytes (GiB).

Type: Integer

Required: No

AvailabilityZones

A list of Availability Zones where instances in the DB cluster can be created.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

ClusterCreateTime

Indicates when the DB cluster was created, in Universal Coordinated Time (UTC).

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

DbClusterIdentifier

The DB cluster identifier.

Type: String

Pattern: `.*\S.*`

Required: No

DbClusterSnapshotAttributes

Contains the name and values of a manual DB cluster snapshot attribute.

Type: Array of AwsRdsDbClusterSnapshotDbClusterSnapshotAttribute objects

Required: No

DbClusterSnapshotIdentifier

The identifier of the DB cluster snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

Engine

The name of the database engine that you want to use for this DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

EngineVersion

The version of the database engine to use.

Type: String

Pattern: `.*\S.*`

Required: No

IamDatabaseAuthenticationEnabled

Whether mapping of IAM accounts to database accounts is enabled.

Type: Boolean

Required: No

KmsKeyId

The ARN of the AWS KMS master key that is used to encrypt the database instances in the DB cluster.

Type: String

Pattern: `.*\S.*`

Required: No

LicenseModel

The license model information for this DB cluster snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

MasterUsername

The name of the master user for the DB cluster.

Type: String

Pattern: `.*\S.*`

Required: No

PercentProgress

Specifies the percentage of the estimated data that has been transferred.

Type: Integer

Required: No

Port

The port number on which the DB instances in the DB cluster accept connections.

Type: Integer

Required: No

SnapshotCreateTime

Indicates when the snapshot was taken.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

SnapshotType

The type of DB cluster snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The status of this DB cluster snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

StorageEncrypted

Whether the DB cluster is encrypted.

Type: Boolean

Required: No

VpcId

The VPC ID that is associated with the DB cluster snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbDomainMembership

Information about an Active Directory domain membership record associated with the DB instance.

Contents

Domain

The identifier of the Active Directory domain.

Type: String

Pattern: `.*\S.*`

Required: No

Fqdn

The fully qualified domain name of the Active Directory domain.

Type: String

Pattern: `.*\S.*`

Required: No

IamRoleName

The name of the IAM role to use when making API calls to the Directory Service.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The status of the Active Directory Domain membership for the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbInstanceAssociatedRole

An IAM role associated with the DB instance.

Contents

FeatureName

The name of the feature associated with the IAM role.

Type: String

Pattern: `.*\S.*`

Required: No

RoleArn

The ARN of the IAM role that is associated with the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

Status

Describes the state of the association between the IAM role and the DB instance. The `Status` property returns one of the following values:

- `ACTIVE` - The IAM role ARN is associated with the DB instance and can be used to access other AWS services on your behalf.
- `PENDING` - The IAM role ARN is being associated with the DB instance.
- `INVALID` - The IAM role ARN is associated with the DB instance. But the DB instance is unable to assume the IAM role in order to access other AWS services on your behalf.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbInstanceDetails

Contains the details of an Amazon RDS DB instance.

Contents

AllocatedStorage

The amount of storage (in gigabytes) to initially allocate for the DB instance.

Type: Integer

Required: No

AssociatedRoles

The IAM roles associated with the DB instance.

Type: Array of AwsRdsDbInstanceAssociatedRole objects

Required: No

AutoMinorVersionUpgrade

Indicates whether minor version patches are applied automatically.

Type: Boolean

Required: No

AvailabilityZone

The Availability Zone where the DB instance will be created.

Type: String

Pattern: `.*\S.*`

Required: No

BackupRetentionPeriod

The number of days for which to retain automated backups.

Type: Integer

Required: No

CACertificateIdentifier

The identifier of the CA certificate for this DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

CharacterSetName

The name of the character set that this DB instance is associated with.

Type: String

Pattern: `.*\S.*`

Required: No

CopyTagsToSnapshot

Whether to copy resource tags to snapshots of the DB instance.

Type: Boolean

Required: No

DBClusterIdentifier

If the DB instance is a member of a DB cluster, contains the name of the DB cluster that the DB instance is a member of.

Type: String

Pattern: `.*\S.*`

Required: No

DBInstanceClass

Contains the name of the compute and memory capacity class of the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

DBInstanceIdentifier

Contains a user-supplied database identifier. This identifier is the unique key that identifies a DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

DbInstancePort

Specifies the port that the DB instance listens on. If the DB instance is part of a DB cluster, this can be a different port than the DB cluster port.

Type: Integer

Required: No

DbInstanceStatus

The current status of the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

DbiResourceId

The AWS Region-unique, immutable identifier for the DB instance. This identifier is found in CloudTrail log entries whenever the AWS KMS key for the DB instance is accessed.

Type: String

Pattern: `.*\S.*`

Required: No

DBName

The meaning of this parameter differs according to the database engine you use.

MySQL, MariaDB, SQL Server, PostgreSQL

Contains the name of the initial database of this instance that was provided at create time, if one was specified when the DB instance was created. This same name is returned for the life of the DB instance.

Oracle

Contains the Oracle System ID (SID) of the created DB instance. Not shown when the returned parameters don't apply to an Oracle DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

DbParameterGroups

A list of the DB parameter groups to assign to the DB instance.

Type: Array of AwsRdsDbParameterGroup objects

Required: No

DbSecurityGroups

A list of the DB security groups to assign to the DB instance.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

DbSubnetGroup

Information about the subnet group that is associated with the DB instance.

Type: AwsRdsDbSubnetGroup object

Required: No

DeletionProtection

Indicates whether the DB instance has deletion protection enabled.

When deletion protection is enabled, the database cannot be deleted.

Type: Boolean

Required: No

DomainMemberships

The Active Directory domain membership records associated with the DB instance.

Type: Array of AwsRdsDbDomainMembership objects

Required: No

EnabledCloudWatchLogsExports

A list of log types that this DB instance is configured to export to CloudWatch Logs.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Endpoint

Specifies the connection endpoint.

Type: AwsRdsDbInstanceEndpoint object

Required: No

Engine

Provides the name of the database engine to use for this DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

EngineVersion

Indicates the database engine version.

Type: String

Pattern: `.*\S.*`

Required: No

EnhancedMonitoringResourceArn

The ARN of the CloudWatch Logs log stream that receives the enhanced monitoring metrics data for the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

IAMDatabaseAuthenticationEnabled

True if mapping of IAM accounts to database accounts is enabled, and otherwise false.

IAM database authentication can be enabled for the following database engines.

- For MySQL 5.6, minor version 5.6.34 or higher
- For MySQL 5.7, minor version 5.7.16 or higher
- Aurora 5.6 or higher

Type: Boolean

Required: No

InstanceCreateTime

Indicates when the DB instance was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Iops

Specifies the provisioned IOPS (I/O operations per second) for this DB instance.

Type: Integer

Required: No

KmsKeyId

If `StorageEncrypted` is true, the AWS KMS key identifier for the encrypted DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

LatestRestorableTime

Specifies the latest time to which a database can be restored with point-in-time restore.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

LicenseModel

License model information for this DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

ListenerEndpoint

Specifies the connection endpoint.

Type: AwsRdsDbInstanceEndpoint object

Required: No

MasterUsername

The master user name of the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

MaxAllocatedStorage

The upper limit to which Amazon RDS can automatically scale the storage of the DB instance.

Type: Integer

Required: No

MonitoringInterval

The interval, in seconds, between points when enhanced monitoring metrics are collected for the DB instance.

Type: Integer

Required: No

MonitoringRoleArn

The ARN for the IAM role that permits Amazon RDS to send enhanced monitoring metrics to CloudWatch Logs.

Type: String

Pattern: `.*\S.*`

Required: No

MultiAz

Whether the DB instance is a multiple Availability Zone deployment.

Type: Boolean

Required: No

OptionGroupMemberships

The list of option group memberships for this DB instance.

Type: Array of AwsRdsDbOptionGroupMembership objects

Required: No

PendingModifiedValues

Changes to the DB instance that are currently pending.

Type: AwsRdsDbPendingModifiedValues object

Required: No

PerformanceInsightsEnabled

Indicates whether Performance Insights is enabled for the DB instance.

Type: Boolean

Required: No

PerformanceInsightsKmsKeyId

The identifier of the AWS KMS key used to encrypt the Performance Insights data.

Type: String

Pattern: `.*\S.*`

Required: No

PerformanceInsightsRetentionPeriod

The number of days to retain Performance Insights data.

Type: Integer

Required: No

PreferredBackupWindow

The range of time each day when automated backups are created, if automated backups are enabled.

Uses the format `HH:MM-HH:MM`. For example, `04:52-05:22`.

Type: String

Pattern: `.*\S.*`

Required: No

PreferredMaintenanceWindow

The weekly time range during which system maintenance can occur, in Universal Coordinated Time (UTC).

Uses the format `<day>:HH:MM-<day>:HH:MM`.

For the day values, use `mon|tue|wed|thu|fri|sat|sun`.

For example, `sun:09:32-sun:10:02`.

Type: String

Pattern: `.*\S.*`

Required: No

ProcessorFeatures

The number of CPU cores and the number of threads per core for the DB instance class of the DB instance.

Type: Array of AwsRdsDbProcessorFeature objects

Required: No

PromotionTier

The order in which to promote an Aurora replica to the primary instance after a failure of the existing primary instance.

Type: Integer

Required: No

PubliclyAccessible

Specifies the accessibility options for the DB instance.

A value of true specifies an Internet-facing instance with a publicly resolvable DNS name, which resolves to a public IP address.

A value of false specifies an internal instance with a DNS name that resolves to a private IP address.

Type: Boolean

Required: No

ReadReplicaDBClusterIdentifiers

List of identifiers of Aurora DB clusters to which the RDS DB instance is replicated as a read replica.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

ReadReplicaDBInstanceIdentifiers

List of identifiers of the read replicas associated with this DB instance.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

ReadReplicaSourceDBInstanceIdentifier

If this DB instance is a read replica, contains the identifier of the source DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

SecondaryAvailabilityZone

For a DB instance with multi-Availability Zone support, the name of the secondary Availability Zone.

Type: String

Pattern: `.*\S.*`

Required: No

StatusInfos

The status of a read replica. If the instance isn't a read replica, this is empty.

Type: Array of AwsRdsDbStatusInfo objects

Required: No

StorageEncrypted

Specifies whether the DB instance is encrypted.

Type: Boolean

Required: No

StorageType

The storage type for the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

TdeCredentialArn

The ARN from the key store with which the instance is associated for TDE encryption.

Type: String

Pattern: `.*\S.*`

Required: No

Timezone

The time zone of the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

VpcSecurityGroups

A list of VPC security groups that the DB instance belongs to.

Type: Array of AwsRdsDbInstanceVpcSecurityGroup objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbInstanceEndpoint

Specifies the connection endpoint.

Contents

Address

Specifies the DNS address of the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

HostedZoneId

Specifies the ID that Amazon Route 53 assigns when you create a hosted zone.

Type: String

Pattern: `.*\S.*`

Required: No

Port

Specifies the port that the database engine is listening on.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbInstanceVpcSecurityGroup

A VPC security groups that the DB instance belongs to.

Contents

Status

The status of the VPC security group.

Type: String

Pattern: `.*\S.*`

Required: No

VpcSecurityGroupId

The name of the VPC security group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbOptionGroupMembership

An option group membership.

Contents

OptionGroupName

The name of the option group.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The status of the option group membership.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbParameterGroup

Provides information about a parameter group for a DB instance.

Contents

DbParameterGroupName

The name of the parameter group.

Type: String

Pattern: `.*\S.*`

Required: No

ParameterApplyStatus

The status of parameter updates.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbPendingModifiedValues

Changes to a DB instance that are currently pending.

Contents

AllocatedStorage

The new value of the allocated storage for the DB instance.

Type: Integer

Required: No

BackupRetentionPeriod

The new backup retention period for the DB instance.

Type: Integer

Required: No

CaCertificateIdentifier

The new CA certificate identifier for the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

DbInstanceClass

The new DB instance class for the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

DbInstanceIdentifier

The new DB instance identifier for the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

DbSubnetGroupName

The name of the new subnet group for the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

EngineVersion

The new engine version for the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

Iops

The new provisioned IOPS value for the DB instance.

Type: Integer

Required: No

LicenseModel

The new license model value for the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

MasterUserPassword

The new master user password for the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

MultiAZ

Indicates that a single Availability Zone DB instance is changing to a multiple Availability Zone deployment.

Type: Boolean

Required: No

PendingCloudWatchLogsExports

A list of log types that are being enabled or disabled.

Type: AwsRdsPendingCloudWatchLogsExports object

Required: No

Port

The new port for the DB instance.

Type: Integer

Required: No

ProcessorFeatures

Processor features that are being updated.

Type: Array of AwsRdsDbProcessorFeature objects

Required: No

StorageType

The new storage type for the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbProcessorFeature

A processor feature.

Contents

Name

The name of the processor feature. Valid values are `coreCount` or `threadsPerCore`.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The value of the processor feature.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbSecurityGroupDetails

Provides information about an Amazon RDS DB security group.

Contents

DbSecurityGroupArn

The ARN for the DB security group.

Type: String

Pattern: `.*\S.*`

Required: No

DbSecurityGroupDescription

Provides the description of the DB security group.

Type: String

Pattern: `.*\S.*`

Required: No

DbSecurityGroupName

Specifies the name of the DB security group.

Type: String

Pattern: `.*\S.*`

Required: No

Ec2SecurityGroups

Contains a list of EC2 security groups.

Type: Array of AwsRdsDbSecurityGroupEc2SecurityGroup objects

Required: No

IpRanges

Contains a list of IP ranges.

Type: Array of AwsRdsDbSecurityGroupIpRange objects

Required: No

OwnerId

Provides the AWS ID of the owner of a specific DB security group.

Type: String

Pattern: `.*\S.*`

Required: No

VpcId

Provides VPC ID associated with the DB security group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbSecurityGroupEc2SecurityGroup

EC2 security group information for an RDS DB security group.

Contents

Ec2SecurityGroupId

Specifies the ID for the EC2 security group.

Type: String

Pattern: `.*\S.*`

Required: No

Ec2SecurityGroupName

Specifies the name of the EC2 security group.

Type: String

Pattern: `.*\S.*`

Required: No

Ec2SecurityGroupOwnerId

Provides the AWS ID of the owner of the EC2 security group.

Type: String

Pattern: `.*\S.*`

Required: No

Status

Provides the status of the EC2 security group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbSecurityGroupIpRange

IP range information for an RDS DB security group.

Contents

CidrIp

Specifies the IP range.

Type: String

Pattern: `.*\S.*`

Required: No

Status

Specifies the status of the IP range.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbSnapshotDetails

Provides details about an Amazon RDS DB cluster snapshot.

Contents

AllocatedStorage

The amount of storage (in gigabytes) to be initially allocated for the database instance.

Type: Integer

Required: No

AvailabilityZone

Specifies the name of the Availability Zone in which the DB instance was located at the time of the DB snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

DbInstanceIdentifier

A name for the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

DbiResourceId

The identifier for the source DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

DbSnapshotIdentifier

The name or ARN of the DB snapshot that is used to restore the DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

Encrypted

Whether the DB snapshot is encrypted.

Type: Boolean

Required: No

Engine

The name of the database engine to use for this DB instance. Valid values are as follows:

- `aurora`
- `aurora-mysql`
- `aurora-postgresql`
- `c`
- `mariadb`
- `mysql`
- `oracle-ee`
- `oracle-se`
- `oracle-se1`
- `oracle-se2`
- `sqlserver-ee`
- `sqlserver-ex`
- `sqlserver-se`
- `sqlserver-web`

Type: String

Pattern: `.*\S.*`

Required: No

EngineVersion

The version of the database engine.

Type: String

Pattern: `.*\S.*`

Required: No

IamDatabaseAuthenticationEnabled

Whether mapping of IAM accounts to database accounts is enabled.

Type: Boolean

Required: No

InstanceCreateTime

Specifies the time in Coordinated Universal Time (UTC) when the DB instance, from which the snapshot was taken, was created.

Type: String

Pattern: `.*\S.*`

Required: No

Iops

The provisioned IOPS (I/O operations per second) value of the DB instance at the time of the snapshot.

Type: Integer

Required: No

KmsKeyId

If `Encrypted` is `true`, the AWS KMS key identifier for the encrypted DB snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

LicenseModel

License model information for the restored DB instance.

Type: String

Pattern: `.*\S.*`

Required: No

MasterUsername

The master user name for the DB snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

OptionGroupName

The option group name for the DB snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

PercentProgress

The percentage of the estimated data that has been transferred.

Type: Integer

Required: No

Port

The port that the database engine was listening on at the time of the snapshot.

Type: Integer

Required: No

ProcessorFeatures

The number of CPU cores and the number of threads per core for the DB instance class of the DB instance.

Type: Array of AwsRdsDbProcessorFeature objects

Required: No

SnapshotCreateTime

When the snapshot was taken in Coordinated Universal Time (UTC).

Type: String

Pattern: `.*\S.*`

Required: No

SnapshotType

The type of the DB snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

SourceDbSnapshotIdentifier

The DB snapshot ARN that the DB snapshot was copied from.

Type: String

Pattern: `.*\S.*`

Required: No

SourceRegion

The AWS Region that the DB snapshot was created in or copied from.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The status of this DB snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

StorageType

The storage type associated with the DB snapshot. Valid values are as follows:

- `gp2`
- `io1`
- `standard`

Type: String

Pattern: `.*\S.*`

Required: No

TdeCredentialArn

The ARN from the key store with which to associate the instance for TDE encryption.

Type: String

Pattern: `.*\S.*`

Required: No

Timezone

The time zone of the DB snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

VpcId

The VPC ID associated with the DB snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbStatusInfo

Information about the status of a read replica.

Contents

Message

If the read replica is currently in an error state, provides the error details.

Type: String

Pattern: `.*\S.*`

Required: No

Normal

Whether the read replica instance is operating normally.

Type: Boolean

Required: No

Status

The status of the read replica instance.

Type: String

Pattern: `.*\S.*`

Required: No

StatusType

The type of status. For a read replica, the status type is read replication.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbSubnetGroup

Information about the subnet group for the database instance.

Contents

DbSubnetGroupArn

The ARN of the subnet group.

Type: String

Pattern: `.*\S.*`

Required: No

DbSubnetGroupDescription

The description of the subnet group.

Type: String

Pattern: `.*\S.*`

Required: No

DbSubnetGroupName

The name of the subnet group.

Type: String

Pattern: `.*\S.*`

Required: No

SubnetGroupStatus

The status of the subnet group.

Type: String

Pattern: `.*\S.*`

Required: No

Subnets

A list of subnets in the subnet group.

Type: Array of AwsRdsDbSubnetGroupSubnet objects

Required: No

VpcId

The VPC ID of the subnet group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbSubnetGroupSubnet

Information about a subnet in a subnet group.

Contents

SubnetAvailabilityZone

Information about the Availability Zone for a subnet in the subnet group.

Type: AwsRdsDbSubnetGroupSubnetAvailabilityZone object

Required: No

SubnetIdentifier

The identifier of a subnet in the subnet group.

Type: String

Pattern: `.*\S.*`

Required: No

SubnetStatus

The status of a subnet in the subnet group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsDbSubnetGroupSubnetAvailabilityZone

An Availability Zone for a subnet in a subnet group.

Contents

Name

The name of the Availability Zone for a subnet in the subnet group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsEventSubscriptionDetails

Details about an Amazon RDS event notification subscription. The subscription allows Amazon RDS to post events to an SNS topic.

Contents

CustomerAwsId

The identifier of the event notification subscription.

Type: String

Pattern: `.*\S.*`

Required: No

CustSubscriptionId

The identifier of the account that is associated with the event notification subscription.

Type: String

Pattern: `.*\S.*`

Required: No

Enabled

Whether the event notification subscription is enabled.

Type: Boolean

Required: No

EventCategoriesList

The list of event categories for the event notification subscription.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

EventSubscriptionArn

The ARN of the event notification subscription.

Type: String

Pattern: `.*\S.*`

Required: No

SnsTopicArn

The ARN of the SNS topic to post the event notifications to.

Type: String

Pattern: `.*\S.*`

Required: No

SourceIdsList

A list of source identifiers for the event notification subscription.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SourceType

The source type for the event notification subscription.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The status of the event notification subscription.

Valid values: `creating` | `modifying` | `deleting` | `active` | `no-permission` | `topic-not-exist`

Type: String

Pattern: `.*\S.*`

Required: No

SubscriptionCreationTime

The datetime when the event notification subscription was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRdsPendingCloudWatchLogsExports

Identifies the log types to enable and disable.

Contents

LogTypesToDisable

A list of log types that are being disabled.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

LogTypesToEnable

A list of log types that are being enabled.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon Redshift objects

Amazon Redshift objects

- AwsRedshiftClusterClusterNode
- AwsRedshiftClusterClusterParameterGroup

- AwsRedshiftClusterClusterParameterStatus
- AwsRedshiftClusterClusterSecurityGroup
- AwsRedshiftClusterClusterSnapshotCopyStatus
- AwsRedshiftClusterDeferredMaintenanceWindow
- AwsRedshiftClusterDetails
- AwsRedshiftClusterElasticIpStatus
- AwsRedshiftClusterEndpoint
- AwsRedshiftClusterHsmStatus
- AwsRedshiftClusterIamRole
- AwsRedshiftClusterLoggingStatus
- AwsRedshiftClusterPendingModifiedValues
- AwsRedshiftClusterResizeInfo
- AwsRedshiftClusterRestoreStatus
- AwsRedshiftClusterVpcSecurityGroup

AwsRedshiftClusterClusterNode

A node in an Amazon Redshift cluster.

Contents

NodeRole

The role of the node. A node might be a leader node or a compute node.

Type: String

Pattern: `.*\S.*`

Required: No

PrivateIpAddress

The private IP address of the node.

Type: String

Pattern: `.*\S.*`

Required: No

PublicIpAddress

The public IP address of the node.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsRedshiftClusterClusterParameterGroup

A cluster parameter group that is associated with an Amazon Redshift cluster.

Contents

ClusterParameterStatusList

The list of parameter statuses.

Type: Array of AwsRedshiftClusterClusterParameterStatus objects

Required: No

ParameterApplyStatus

The status of updates to the parameters.

Type: String

Pattern: `.*\S.*`

Required: No

ParameterGroupName

The name of the parameter group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRedshiftClusterClusterParameterStatus

The status of a parameter in a cluster parameter group for an Amazon Redshift cluster.

Contents

ParameterApplyErrorDescription

The error that prevented the parameter from being applied to the database.

Type: String

Pattern: `.*\S.*`

Required: No

ParameterApplyStatus

The status of the parameter. Indicates whether the parameter is in sync with the database, waiting for a cluster reboot, or encountered an error when it was applied.

Valid values: `in-sync` | `pending-reboot` | `applying` | `invalid-parameter` | `apply-deferred` | `apply-error` | `unknown-error`

Type: String

Pattern: `.*\S.*`

Required: No

ParameterName

The name of the parameter.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRedshiftClusterClusterSecurityGroup

A security group that is associated with the cluster.

Contents

ClusterSecurityGroupName

The name of the cluster security group.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The status of the cluster security group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRedshiftClusterClusterSnapshotCopyStatus

You can configure Amazon Redshift to copy snapshots for a cluster to another AWS Region. This parameter provides information about a cross-Region snapshot copy.

Contents

DestinationRegion

The destination Region that snapshots are automatically copied to when cross-Region snapshot copy is enabled.

Type: String

Pattern: `.*\S.*`

Required: No

ManualSnapshotRetentionPeriod

The number of days that manual snapshots are retained in the destination Region after they are copied from a source Region.

If the value is `-1`, then the manual snapshot is retained indefinitely.

Valid values: Either `-1` or an integer between 1 and 3,653

Type: Integer

Required: No

RetentionPeriod

The number of days to retain automated snapshots in the destination Region after they are copied from a source Region.

Type: Integer

Required: No

SnapshotCopyGrantName

The name of the snapshot copy grant.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRedshiftClusterDeferredMaintenanceWindow

A time windows during which maintenance was deferred for an Amazon Redshift cluster.

Contents

DeferMaintenanceEndTime

The end of the time window for which maintenance was deferred.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

DeferMaintenanceIdentifier

The identifier of the maintenance window.

Type: String

Pattern: `.*\S.*`

Required: No

DeferMaintenanceStartTime

The start of the time window for which maintenance was deferred.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRedshiftClusterDetails

Details about an Amazon Redshift cluster.

Contents

AllowVersionUpgrade

Indicates whether major version upgrades are applied automatically to the cluster during the maintenance window.

Type: Boolean

Required: No

AutomatedSnapshotRetentionPeriod

The number of days that automatic cluster snapshots are retained.

Type: Integer

Required: No

AvailabilityZone

The name of the Availability Zone in which the cluster is located.

Type: String

Pattern: `.*\S.*`

Required: No

ClusterAvailabilityStatus

The availability status of the cluster for queries. Possible values are the following:

- `Available` - The cluster is available for queries.
- `Unavailable` - The cluster is not available for queries.
- `Maintenance` - The cluster is intermittently available for queries due to maintenance activities.
- `Modifying` -The cluster is intermittently available for queries due to changes that modify the cluster.
- `Failed` - The cluster failed and is not available for queries.

Type: String

Pattern: `.*\S.*`

Required: No

ClusterCreateTime

Indicates when the cluster was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

ClusterIdentifier

The unique identifier of the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

ClusterNodes

The nodes in the cluster.

Type: Array of AwsRedshiftClusterClusterNode objects

Required: No

ClusterParameterGroups

The list of cluster parameter groups that are associated with this cluster.

Type: Array of AwsRedshiftClusterClusterParameterGroup objects

Required: No

ClusterPublicKey

The public key for the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

ClusterRevisionNumber

The specific revision number of the database in the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

ClusterSecurityGroups

A list of cluster security groups that are associated with the cluster.

Type: Array of AwsRedshiftClusterClusterSecurityGroup objects

Required: No

ClusterSnapshotCopyStatus

Information about the destination Region and retention period for the cross-Region snapshot copy.

Type: AwsRedshiftClusterClusterSnapshotCopyStatus object

Required: No

ClusterStatus

The current status of the cluster.

Valid values: `available` | `available, prep-for-resize` | `available, resize-cleanup` | `cancelling-resize` | `creating` | `deleting` | `final-snapshot` | `hardware-failure` | `incompatible-hsm` | `incompatible-network` | `incompatible-parameters` | `incompatible-restore` | `modifying` | `paused` | `rebooting` | `renaming` | `resizing` | `rotating-keys` | `storage-full` | `updating-hsm`

Type: String

Pattern: `.*\S.*`

Required: No

ClusterSubnetGroupName

The name of the subnet group that is associated with the cluster. This parameter is valid only when the cluster is in a VPC.

Type: String

Pattern: `.*\S.*`

Required: No

ClusterVersion

The version ID of the Amazon Redshift engine that runs on the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

DBName

The name of the initial database that was created when the cluster was created.

The same name is returned for the life of the cluster.

If an initial database is not specified, a database named `devdev` is created by default.

Type: String

Pattern: `.*\S.*`

Required: No

DeferredMaintenanceWindows

List of time windows during which maintenance was deferred.

Type: Array of AwsRedshiftClusterDeferredMaintenanceWindow objects

Required: No

ElasticIpStatus

Information about the status of the Elastic IP (EIP) address.

Type: AwsRedshiftClusterElasticIpStatus object

Required: No

ElasticResizeNumberOfNodeOptions

The number of nodes that you can use the elastic resize method to resize the cluster to.

Type: String

Pattern: `.*\S.*`

Required: No

Encrypted

Indicates whether the data in the cluster is encrypted at rest.

Type: Boolean

Required: No

Endpoint

The connection endpoint.

Type: AwsRedshiftClusterEndpoint object

Required: No

EnhancedVpcRouting

Indicates whether to create the cluster with enhanced VPC routing enabled.

Type: Boolean

Required: No

ExpectedNextSnapshotScheduleTime

Indicates when the next snapshot is expected to be taken. The cluster must have a valid snapshot schedule and have backups enabled.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

ExpectedNextSnapshotScheduleTimeStatus

The status of the next expected snapshot.

Valid values: `OnTrack` | `Pending`

Type: String

Pattern: `.*\S.*`

Required: No

HsmStatus

Information about whether the Amazon Redshift cluster finished applying any changes to hardware security module (HSM) settings that were specified in a modify cluster command.

Type: AwsRedshiftClusterHsmStatus object

Required: No

IamRoles

A list of IAM roles that the cluster can use to access other AWS services.

Type: Array of AwsRedshiftClusterIamRole objects

Required: No

KmsKeyId

The identifier of the AWS KMS encryption key that is used to encrypt data in the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

LoggingStatus

Information about the logging status of the cluster.

Type: AwsRedshiftClusterLoggingStatus object

Required: No

MaintenanceTrackName

The name of the maintenance track for the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

ManualSnapshotRetentionPeriod

The default number of days to retain a manual snapshot.

If the value is `-1`, the snapshot is retained indefinitely.

This setting doesn't change the retention period of existing snapshots.

Valid values: Either `-1` or an integer between 1 and 3,653

Type: Integer

Required: No

MasterUsername

The master user name for the cluster. This name is used to connect to the database that is specified in as the value of `DBName`.

Type: String

Pattern: `.*\S.*`

Required: No

NextMaintenanceWindowStartTime

Indicates the start of the next maintenance window.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

NodeType

The node type for the nodes in the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

NumberOfNodes

The number of compute nodes in the cluster.

Type: Integer

Required: No

PendingActions

A list of cluster operations that are waiting to start.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

PendingModifiedValues

A list of changes to the cluster that are currently pending.

Type: AwsRedshiftClusterPendingModifiedValues object

Required: No

PreferredMaintenanceWindow

The weekly time range, in Universal Coordinated Time (UTC), during which system maintenance can occur.

Format: `<day>:HH:MM-<day>:HH:MM`

For the day values, use `mon` | `tue` | `wed` | `thu` | `fri` | `sat` | `sun`

For example, `sun:09:32-sun:10:02`

Type: String

Pattern: `.*\S.*`

Required: No

PubliclyAccessible

Whether the cluster can be accessed from a public network.

Type: Boolean

Required: No

ResizeInfo

Information about the resize operation for the cluster.

Type: AwsRedshiftClusterResizeInfo object

Required: No

RestoreStatus

Information about the status of a cluster restore action. Only applies to a cluster that was created by restoring a snapshot.

Type: AwsRedshiftClusterRestoreStatus object

Required: No

SnapshotScheduleIdentifier

A unique identifier for the cluster snapshot schedule.

Type: String

Pattern: `.*\S.*`

Required: No

SnapshotScheduleState

The current state of the cluster snapshot schedule.

Valid values: `MODIFYING` | `ACTIVE` | `FAILED`

Type: String

Pattern: `.*\S.*`

Required: No

VpcId

The identifier of the VPC that the cluster is in, if the cluster is in a VPC.

Type: String

Pattern: `.*\S.*`

Required: No

VpcSecurityGroups

The list of VPC security groups that the cluster belongs to, if the cluster is in a VPC.

Type: Array of AwsRedshiftClusterVpcSecurityGroup objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRedshiftClusterElasticIpStatus

The status of the elastic IP (EIP) address for an Amazon Redshift cluster.

Contents

ElasticIp

The elastic IP address for the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The status of the elastic IP address.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRedshiftClusterEndpoint

The connection endpoint for an Amazon Redshift cluster.

Contents

Address

The DNS address of the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

Port

The port that the database engine listens on.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRedshiftClusterHsmStatus

Information about whether an Amazon Redshift cluster finished applying any hardware changes to security module (HSM) settings that were specified in a modify cluster command.

Contents

HsmClientCertificateIdentifier

The name of the HSM client certificate that the Amazon Redshift cluster uses to retrieve the data encryption keys that are stored in an HSM.

Type: String

Pattern: `.*\S.*`

Required: No

HsmConfigurationIdentifier

The name of the HSM configuration that contains the information that the Amazon Redshift cluster can use to retrieve and store keys in an HSM.

Type: String

Pattern: `.*\S.*`

Required: No

Status

Indicates whether the Amazon Redshift cluster has finished applying any HSM settings changes specified in a modify cluster command.

Type: String

Valid values: `active` | `applying`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRedshiftClusterIamRole

An IAM role that the cluster can use to access other AWS services.

Contents

ApplyStatus

The status of the IAM role's association with the cluster.

Valid values: `in-sync` | `adding` | `removing`

Type: String

Pattern: `.*\S.*`

Required: No

IamRoleArn

The ARN of the IAM role.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRedshiftClusterLoggingStatus

Provides information about the logging status of the cluster.

Contents

BucketName

The name of the S3 bucket where the log files are stored.

Type: String

Pattern: `.*\S.*`

Required: No

LastFailureMessage

The message indicating that the logs failed to be delivered.

Type: String

Pattern: `.*\S.*`

Required: No

LastFailureTime

The last time when logs failed to be delivered.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

LastSuccessfulDeliveryTime

The last time that logs were delivered successfully.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

LoggingEnabled

Indicates whether logging is enabled.

Type: Boolean

Required: No

S3KeyPrefix

Provides the prefix applied to the log file names.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRedshiftClusterPendingModifiedValues

Changes to the Amazon Redshift cluster that are currently pending.

Contents

AutomatedSnapshotRetentionPeriod

The pending or in-progress change to the automated snapshot retention period.

Type: Integer

Required: No

ClusterIdentifier

The pending or in-progress change to the identifier for the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

ClusterType

The pending or in-progress change to the cluster type.

Type: String

Pattern: `.*\S.*`

Required: No

ClusterVersion

The pending or in-progress change to the service version.

Type: String

Pattern: `.*\S.*`

Required: No

EncryptionType

The encryption type for a cluster.

Type: String

Pattern: `.*\S.*`

Required: No

EnhancedVpcRouting

Indicates whether to create the cluster with enhanced VPC routing enabled.

Type: Boolean

Required: No

MaintenanceTrackName

The name of the maintenance track that the cluster changes to during the next maintenance window.

Type: String

Pattern: `.*\S.*`

Required: No

MasterUserPassword

The pending or in-progress change to the master user password for the cluster.

Type: String

Pattern: `.*\S.*`

Required: No

NodeType

The pending or in-progress change to the cluster's node type.

Type: String

Pattern: `.*\S.*`

Required: No

NumberOfNodes

The pending or in-progress change to the number of nodes in the cluster.

Type: Integer

Required: No

PubliclyAccessible

The pending or in-progress change to whether the cluster can be connected to from the public network.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRedshiftClusterResizeInfo

Information about the resize operation for the cluster.

Contents

AllowCancelResize

Indicates whether the resize operation can be canceled.

Type: Boolean

Required: No

ResizeType

The type of resize operation.

Valid values: `ClassicResize`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRedshiftClusterRestoreStatus

Information about the status of a cluster restore action. It only applies if the cluster was created by restoring a snapshot.

Contents

CurrentRestoreRateInMegaBytesPerSecond

The number of megabytes per second being transferred from the backup storage. Returns the average rate for a completed backup.

This field is only updated when you restore to DC2 and DS2 node types.

Type: Double

Required: No

ElapsedTimeInSeconds

The amount of time an in-progress restore has been running, or the amount of time it took a completed restore to finish.

This field is only updated when you restore to DC2 and DS2 node types.

Type: Long

Required: No

EstimatedTimeToCompletionInSeconds

The estimate of the time remaining before the restore is complete. Returns 0 for a completed restore.

This field is only updated when you restore to DC2 and DS2 node types.

Type: Long

Required: No

ProgressInMegaBytes

The number of megabytes that were transferred from snapshot storage.

This field is only updated when you restore to DC2 and DS2 node types.

Type: Long

Required: No

SnapshotSizeInMegaBytes

The size of the set of snapshot data that was used to restore the cluster.

This field is only updated when you restore to DC2 and DS2 node types.

Type: Long

Required: No

Status

The status of the restore action.

Valid values: `starting` | `restoring` | `completed` | `failed`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRedshiftClusterVpcSecurityGroup

A VPC security group that the cluster belongs to, if the cluster is in a VPC.

Contents

Status

The status of the VPC security group.

Type: String

Pattern: `.*\S.*`

Required: No

VpcSecurityGroupId

The identifier of the VPC security group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon Route 53

Amazon Route 53 objects

- AwsRoute53HostedZoneConfigDetails
- AwsRoute53HostedZoneDetails

- AwsRoute53HostedZoneObjectDetails
- AwsRoute53HostedZoneVpcDetails
- AwsRoute53QueryLoggingConfigDetails
- CloudWatchLogsLogGroupArnConfigDetails

AwsRoute53HostedZoneConfigDetails

An object that contains an optional comment about your Amazon Route 53 hosted zone.

Contents

Comment

Any comments that you include about the hosted zone.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRoute53HostedZoneDetails

Provides details about a specified Amazon Route 53 hosted zone, including the four name servers assigned to the hosted zone. A hosted zone represents a collection of records that can be managed together, belonging to a single parent domain name.

Contents

HostedZone

An object that contains information about the specified hosted zone.

Type: AwsRoute53HostedZoneObjectDetails object

Required: No

NameServers

An object that contains a list of the authoritative name servers for a hosted zone or for a reusable delegation set.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

QueryLoggingConfig

An array that contains one `QueryLoggingConfig` element for each DNS query logging configuration that is associated with the current AWS account.

Type: AwsRoute53QueryLoggingConfigDetails object

Required: No

Vpcs

An object that contains information about the Amazon Virtual Private Clouds (Amazon VPCs) that are associated with the specified hosted zone.

Type: Array of AwsRoute53HostedZoneVpcDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRoute53HostedZoneObjectDetails

An object that contains information about an Amazon Route 53 hosted zone.

Contents

Config

An object that includes the `Comment` element.

Type: AwsRoute53HostedZoneConfigDetails object

Required: No

Id

The ID that Route 53 assigns to the hosted zone when you create it.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the domain. For public hosted zones, this is the name that you have registered with your DNS registrar.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRoute53HostedZoneVpcDetails

For private hosted zones, this is a complex type that contains information about an Amazon VPC.

Contents

Id

The identifier of an Amazon VPC.

Type: String

Pattern: `.*\S.*`

Required: No

Region

The AWS Region that an Amazon VPC was created in.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsRoute53QueryLoggingConfigDetails

Provides details about a specified Amazon Route 53 configuration for DNS query logging.

Contents

CloudWatchLogsLogGroupArn

The Amazon Resource Name (ARN) of the Amazon CloudWatch Logs log group that Route 53 is publishing logs to.

Type: CloudWatchLogsLogGroupArnConfigDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CloudWatchLogsLogGroupArnConfigDetails

The Amazon Resource Name (ARN) and other details of the Amazon CloudWatch Logs log group that Amazon Route 53 is publishing logs to.

Contents

CloudWatchLogsLogGroupArn

The ARN of the CloudWatch Logs log group that Route 53 is publishing logs to.

Type: String

Pattern: `.*\S.*`

Required: No

HostedZoneId

The ID of the hosted zone that CloudWatch Logs is logging queries for.

Type: String

Pattern: `.*\S.*`

Required: No

Id

The ID for a DNS query logging configuration.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

Amazon Simple Storage Service (S3) objects

Amazon Simple Storage Service (S3) objects

- AwsS3AccessPointDetails
- AwsS3AccessPointVpcConfigurationDetails
- AwsS3AccountPublicAccessBlockDetails
- AwsS3BucketBucketLifecycleConfigurationDetails
- AwsS3BucketBucketLifecycleConfigurationRulesAbortIncompleteMultipartUploadDetails
- AwsS3BucketBucketLifecycleConfigurationRulesDetails
- AwsS3BucketBucketLifecycleConfigurationRulesFilterDetails
- AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateDetails
- AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateOperandsDetails
- AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateOperandsTagDetails
- AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateTagDetails
- AwsS3BucketBucketLifecycleConfigurationRulesNoncurrentVersionTransitionsDetails
- AwsS3BucketBucketLifecycleConfigurationRulesTransitionsDetails
- AwsS3BucketBucketVersioningConfiguration
- AwsS3BucketDetails
- AwsS3BucketLoggingConfiguration
- AwsS3BucketNotificationConfiguration
- AwsS3BucketNotificationConfigurationDetail
- AwsS3BucketNotificationConfigurationFilter
- AwsS3BucketNotificationConfigurationS3KeyFilter
- AwsS3BucketNotificationConfigurationS3KeyFilterRule
- AwsS3BucketObjectLockConfiguration
- AwsS3BucketObjectLockConfigurationRuleDefaultRetentionDetails
- AwsS3BucketObjectLockConfigurationRuleDetails
- AwsS3BucketServerSideEncryptionByDefault
- AwsS3BucketServerSideEncryptionConfiguration

- AwsS3BucketServerSideEncryptionRule
- AwsS3BucketWebsiteConfiguration
- AwsS3BucketWebsiteConfigurationRedirectTo
- AwsS3BucketWebsiteConfigurationRoutingRule
- AwsS3BucketWebsiteConfigurationRoutingRuleCondition
- AwsS3BucketWebsiteConfigurationRoutingRuleRedirect
- AwsS3ObjectDetails

AwsS3AccessPointDetails

Returns configuration information about the specified Amazon S3 access point. S3 access points are named network endpoints that are attached to buckets that you can use to perform S3 object operations.

Contents

AccessPointArn

The Amazon Resource Name (ARN) of the access point.

Type: String

Pattern: `.*\S.*`

Required: No

Alias

The name or alias of the access point.

Type: String

Pattern: `.*\S.*`

Required: No

Bucket

The name of the S3 bucket associated with the specified access point.

Type: String

Pattern: `.*\S.*`

Required: No

BucketAccountId

The AWS account ID associated with the S3 bucket associated with this access point.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the specified access point.

Type: String

Pattern: `.*\S.*`

Required: No

NetworkOrigin

Indicates whether this access point allows access from the public internet.

Type: String

Pattern: `.*\S.*`

Required: No

PublicAccessBlockConfiguration

provides information about the Amazon S3 Public Access Block configuration for accounts.

Type: AwsS3AccountPublicAccessBlockDetails object

Required: No

VpcConfiguration

Contains the virtual private cloud (VPC) configuration for the specified access point.

Type: AwsS3AccessPointVpcConfigurationDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsS3AccessPointVpcConfigurationDetails

The virtual private cloud (VPC) configuration for an Amazon S3 access point.

Contents

VpcId

If this field is specified, this access point will only allow connections from the specified VPC ID.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3AccountPublicAccessBlockDetails

provides information about the Amazon S3 Public Access Block configuration for accounts.

Contents

BlockPublicAcls

Indicates whether to reject calls to update an S3 bucket if the calls include a public access control list (ACL).

Type: Boolean

Required: No

BlockPublicPolicy

Indicates whether to reject calls to update the access policy for an S3 bucket or access point if the policy allows public access.

Type: Boolean

Required: No

IgnorePublicAcls

Indicates whether Amazon S3 ignores public ACLs that are associated with an S3 bucket.

Type: Boolean

Required: No

RestrictPublicBuckets

Indicates whether to restrict access to an access point or S3 bucket that has a public policy to only AWS service principals and authorized users within the S3 bucket owner's account.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketBucketLifecycleConfigurationDetails

The lifecycle configuration for the objects in the S3 bucket.

Contents

Rules

The lifecycle rules.

Type: Array of AwsS3BucketBucketLifecycleConfigurationRulesDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketBucketLifecycleConfigurationRulesAbortIncompleteMultipartUploadDetail

Information about what Amazon S3 does when a multipart upload is incomplete.

Contents

DaysAfterInitiation

The number of days after which Amazon S3 cancels an incomplete multipart upload.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketBucketLifecycleConfigurationRulesDetails

Configuration for a lifecycle rule.

Contents

AbortIncompleteMultipartUpload

How Amazon S3 responds when a multipart upload is incomplete. Specifically, provides a number of days before Amazon S3 cancels the entire upload.

Type: AwsS3BucketBucketLifecycleConfigurationRulesAbortIncompleteMultipartUploadDetails object

Required: No

ExpirationDate

The date when objects are moved or deleted.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

ExpirationInDays

The length in days of the lifetime for objects that are subject to the rule.

Type: Integer

Required: No

ExpiredObjectDeleteMarker

Whether Amazon S3 removes a delete marker that has no noncurrent versions. If set to `true`, the delete marker is expired. If set to `false`, the policy takes no action.

If you provide `ExpiredObjectDeleteMarker`, you cannot provide `ExpirationInDays` or `ExpirationDate`.

Type: Boolean

Required: No

Filter

Identifies the objects that a rule applies to.

Type: AwsS3BucketBucketLifecycleConfigurationRulesFilterDetails object

Required: No

ID

The unique identifier of the rule.

Type: String

Pattern: `.*\S.*`

Required: No

NoncurrentVersionExpirationInDays

The number of days that an object is noncurrent before Amazon S3 can perform the associated action.

Type: Integer

Required: No

NoncurrentVersionTransitions

Transition rules that describe when noncurrent objects transition to a specified storage class.

Type: Array of AwsS3BucketBucketLifecycleConfigurationRulesNoncurrentVersionTransitionsDetails objects

Required: No

Prefix

A prefix that identifies one or more objects that the rule applies to.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The current status of the rule. Indicates whether the rule is currently being applied.

Type: String

Pattern: `.*\S.*`

Required: No

Transitions

Transition rules that indicate when objects transition to a specified storage class.

Type: Array of AwsS3BucketBucketLifecycleConfigurationRulesTransitionsDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketBucketLifecycleConfigurationRulesFilterDetails

Identifies the objects that a rule applies to.

Contents

Predicate

The configuration for the filter.

Type: AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateDetails

The configuration for the filter.

Contents

Operands

The values to use for the filter.

Type: Array of AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateOperandsDetails objects

Required: No

Prefix

A prefix filter.

Type: String

Pattern: `.*\S.*`

Required: No

Tag

A tag filter.

Type: AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateTagDetails object

Required: No

Type

Whether to use `AND` or `OR` to join the operands. Valid values are `LifecycleAndOperator` or `LifecycleOrOperator`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateOperandsDetails

A value to use for the filter.

Contents

Prefix

Prefix text for matching objects.

Type: String

Pattern: `.*\S.*`

Required: No

Tag

A tag that is assigned to matching objects.

Type: AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateOperandsTagDetails object

Required: No

Type

The type of filter value. Valid values are `LifecyclePrefixPredicate` or `LifecycleTagPredicate`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateOperandsTagDetails

A tag that is assigned to matching objects.

Contents

Key

The tag key.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The tag value.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketBucketLifecycleConfigurationRulesFilterPredicateTagDetails

A tag filter.

Contents

Key

The tag key.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The tag value

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketBucketLifecycleConfigurationRulesNoncurrentVersionTransitionsDetails

A transition rule that describes when noncurrent objects transition to a specified storage class.

Contents

Days

The number of days that an object is noncurrent before Amazon S3 can perform the associated action.

Type: Integer

Required: No

StorageClass

The class of storage to change the object to after the object is noncurrent for the specified number of days.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketBucketLifecycleConfigurationRulesTransitionsDetails

A rule for when objects transition to specific storage classes.

Contents

Date

A date on which to transition objects to the specified storage class. If you provide `Date`, you cannot provide `Days`.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Days

The number of days after which to transition the object to the specified storage class. If you provide `Days`, you cannot provide `Date`.

Type: Integer

Required: No

StorageClass

The storage class to transition the object to. Valid values are as follows:

- `DEEP_ARCHIVE`
- `GLACIER`
- `INTELLIGENT_TIERING`
- `ONEZONE_IA`
- `STANDARD_IA`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketBucketVersioningConfiguration

Describes the versioning state of an S3 bucket.

Contents

IsMfaDeleteEnabled

Specifies whether MFA delete is currently enabled in the S3 bucket versioning configuration. If the S3 bucket was never configured with MFA delete, then this attribute is not included.

Type: Boolean

Required: No

Status

The versioning status of the S3 bucket. Valid values are `Enabled` or `Suspended`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketDetails

The details of an Amazon Simple Storage Service (Amazon S3) bucket.

Contents

AccessControlList

The access control list for the S3 bucket.

Type: String

Pattern: `.*\S.*`

Required: No

BucketLifecycleConfiguration

The lifecycle configuration for objects in the specified bucket.

Type: AwsS3BucketBucketLifecycleConfigurationDetails object

Required: No

BucketLoggingConfiguration

The logging configuration for the S3 bucket.

Type: AwsS3BucketLoggingConfiguration object

Required: No

BucketNotificationConfiguration

The notification configuration for the S3 bucket.

Type: AwsS3BucketNotificationConfiguration object

Required: No

BucketVersioningConfiguration

The versioning state of an S3 bucket.

Type: AwsS3BucketBucketVersioningConfiguration object

Required: No

BucketWebsiteConfiguration

The website configuration parameters for the S3 bucket.

Type: AwsS3BucketWebsiteConfiguration object

Required: No

CreatedAt

Indicates when the S3 bucket was created.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the bucket.

Type: String

Pattern: `.*\S.*`

Required: No

ObjectLockConfiguration

Specifies which rule Amazon S3 applies by default to every new object placed in the bucket.

Type: AwsS3BucketObjectLockConfiguration object

Required: No

OwnerAccountId

The AWS account identifier of the account that owns the S3 bucket.

Type: String

Pattern: `.*\S.*`

Required: No

OwnerId

The canonical user ID of the owner of the S3 bucket.

Type: String

Pattern: `.*\S.*`

Required: No

OwnerName

The display name of the owner of the S3 bucket.

Type: String

Pattern: `.*\S.*`

Required: No

PublicAccessBlockConfiguration

Provides information about the Amazon S3 Public Access Block configuration for the S3 bucket.

Type: AwsS3AccountPublicAccessBlockDetails object

Required: No

ServerSideEncryptionConfiguration

The encryption rules that are applied to the S3 bucket.

Type: AwsS3BucketServerSideEncryptionConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsS3BucketLoggingConfiguration

Information about logging for the S3 bucket

Contents

DestinationBucketName

The name of the S3 bucket where log files for the S3 bucket are stored.

Type: String

Pattern: `.*\S.*`

Required: No

LogFilePrefix

The prefix added to log files for the S3 bucket.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketNotificationConfiguration

The notification configuration for the S3 bucket.

Contents

Configurations

Configurations for S3 bucket notifications.

Type: Array of AwsS3BucketNotificationConfigurationDetail objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketNotificationConfigurationDetail

Details for an S3 bucket notification configuration.

Contents

Destination

The ARN of the Lambda function, Amazon SQS queue, or Amazon SNS topic that generates the notification.

Type: String

Pattern: `.*\S.*`

Required: No

Events

The list of events that trigger a notification.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

Filter

The filters that determine which S3 buckets generate notifications.

Type: AwsS3BucketNotificationConfigurationFilter object

Required: No

Type

Indicates the type of notification. Notifications can be generated using Lambda functions, Amazon SQS queues, or Amazon SNS topics, with corresponding valid values as follows:

- `LambdaConfiguration`
- `QueueConfiguration`
- `TopicConfiguration`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketNotificationConfigurationFilter

Filtering information for the notifications. The filtering is based on Amazon S3 key names.

Contents

S3KeyFilter

Details for an Amazon S3 filter.

Type: AwsS3BucketNotificationConfigurationS3KeyFilter object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketNotificationConfigurationS3KeyFilter

Details for an Amazon S3 filter.

Contents

FilterRules

The filter rules for the filter.

Type: Array of AwsS3BucketNotificationConfigurationS3KeyFilterRule objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketNotificationConfigurationS3KeyFilterRule

Details for a filter rule.

Contents

Name

Indicates whether the filter is based on the prefix or suffix of the Amazon S3 key.

Type: String

Valid Values: `Prefix | Suffix`

Required: No

Value

The filter value.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketObjectLockConfiguration

The container element for S3 Object Lock configuration parameters. In Amazon S3, Object Lock can help prevent objects from being deleted or overwritten for a fixed amount of time or indefinitely.

Contents

ObjectLockEnabled

Indicates whether the bucket has an Object Lock configuration enabled.

Type: String

Pattern: `.*\S.*`

Required: No

Rule

Specifies the Object Lock rule for the specified object.

Type: AwsS3BucketObjectLockConfigurationRuleDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketObjectLockConfigurationRuleDefaultRetentionDetails

The default S3 Object Lock retention mode and period that you want to apply to new objects placed in the specified Amazon S3 bucket.

Contents

Days

The number of days that you want to specify for the default retention period.

Type: Integer

Required: No

Mode

The default Object Lock retention mode you want to apply to new objects placed in the specified bucket.

Type: String

Pattern: `.*\S.*`

Required: No

Years

The number of years that you want to specify for the default retention period.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketObjectLockConfigurationRuleDetails

Specifies the S3 Object Lock rule for the specified object. In Amazon S3, Object Lock can help prevent objects from being deleted or overwritten for a fixed amount of time or indefinitely.

Contents

DefaultRetention

The default Object Lock retention mode and period that you want to apply to new objects placed in the specified bucket.

Type: AwsS3BucketObjectLockConfigurationRuleDefaultRetentionDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketServerSideEncryptionByDefault

Specifies the default server-side encryption to apply to new objects in the bucket.

Contents

KMSMasterKeyID

AWS KMS key ID to use for the default encryption.

Type: String

Pattern: `.*\S.*`

Required: No

SSEAlgorithm

Server-side encryption algorithm to use for the default encryption. Valid values are `aws:kms` or `AES256`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketServerSideEncryptionConfiguration

The encryption configuration for the S3 bucket.

Contents

Rules

The encryption rules that are applied to the S3 bucket.

Type: Array of AwsS3BucketServerSideEncryptionRule objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketServerSideEncryptionRule

An encryption rule to apply to the S3 bucket.

Contents

ApplyServerSideEncryptionByDefault

Specifies the default server-side encryption to apply to new objects in the bucket. If a PUT object request doesn't specify any server-side encryption, this default encryption is applied.

Type: AwsS3BucketServerSideEncryptionByDefault object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketWebsiteConfiguration

Website parameters for the S3 bucket.

Contents

ErrorDocument

The name of the error document for the website.

Type: String

Pattern: `.*\S.*`

Required: No

IndexDocumentSuffix

The name of the index document for the website.

Type: String

Pattern: `.*\S.*`

Required: No

RedirectAllRequestsTo

The redirect behavior for requests to the website.

Type: AwsS3BucketWebsiteConfigurationRedirectTo object

Required: No

RoutingRules

The rules for applying redirects for requests to the website.

Type: Array of AwsS3BucketWebsiteConfigurationRoutingRule objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketWebsiteConfigurationRedirectTo

The redirect behavior for requests to the website.

Contents

Hostname

The name of the host to redirect requests to.

Type: String

Pattern: `.*\S.*`

Required: No

Protocol

The protocol to use when redirecting requests. By default, this field uses the same protocol as the original request. Valid values are `http` or `https`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketWebsiteConfigurationRoutingRule

A rule for redirecting requests to the website.

Contents

Condition

Provides the condition that must be met in order to apply the routing rule.

Type: AwsS3BucketWebsiteConfigurationRoutingRuleCondition object

Required: No

Redirect

Provides the rules to redirect the request if the condition in `Condition` is met.

Type: AwsS3BucketWebsiteConfigurationRoutingRuleRedirect object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketWebsiteConfigurationRoutingRuleCondition

The condition that must be met in order to apply the routing rule.

Contents

HttpErrorCodeReturnedEquals

Indicates to redirect the request if the HTTP error code matches this value.

Type: String

Pattern: `.*\S.*`

Required: No

KeyPrefixEquals

Indicates to redirect the request if the key prefix matches this value.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3BucketWebsiteConfigurationRoutingRuleRedirect

The rules to redirect the request if the condition in `Condition` is met.

Contents

Hostname

The host name to use in the redirect request.

Type: String

Pattern: `.*\S.*`

Required: No

HttpRedirectCode

The HTTP redirect code to use in the response.

Type: String

Pattern: `.*\S.*`

Required: No

Protocol

The protocol to use to redirect the request. By default, uses the protocol from the original request.

Type: String

Pattern: `.*\S.*`

Required: No

ReplaceKeyPrefixWith

The object key prefix to use in the redirect request.

Cannot be provided if `ReplaceKeyWith` is present.

Type: String

Pattern: `.*\S.*`

Required: No

ReplaceKeyWith

The specific object key to use in the redirect request.

Cannot be provided if `ReplaceKeyPrefixWith` is present.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsS3ObjectDetails

Details about an Amazon S3 object.

Contents

ContentType

A standard MIME type describing the format of the object data.

Type: String

Pattern: `.*\S.*`

Required: No

ETag

The opaque identifier assigned by a web server to a specific version of a resource found at a URL.

Type: String

Pattern: `.*\S.*`

Required: No

LastModified

Indicates when the object was last modified.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

ServerSideEncryption

If the object is stored using server-side encryption, the value of the server-side encryption algorithm used when storing this object in Amazon S3.

Type: String

Pattern: `.*\S.*`

Required: No

SSEKMSKeyId

The identifier of the AWS KMS symmetric customer managed key that was used for the object.

Type: String

Pattern: `.*\S.*`

Required: No

VersionId

The version of the object.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon SageMaker AI

Amazon SageMaker AI objects

- AwsSageMakerNotebookInstanceDetails
- AwsSageMakerNotebookInstanceMetadataServiceConfigurationDetails

AwsSageMakerNotebookInstanceDetails

Provides details about an Amazon SageMaker AI notebook instance.

Contents

AcceleratorTypes

A list of Amazon Elastic Inference instance types to associate with the notebook instance. Currently, only one instance type can be associated with a notebook instance.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

AdditionalCodeRepositories

An array of up to three Git repositories associated with the notebook instance. These can be either the names of Git repositories stored as resources in your account, or the URL of Git repositories in AWS CodeCommit or in any other Git repository. These repositories are cloned at the same level as the default repository of your notebook instance. For more information, see Associating Git repositories with SageMaker AI notebook instances in the *Amazon SageMaker AI Developer Guide*.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

DefaultCodeRepository

The Git repository associated with the notebook instance as its default code repository. This can be either the name of a Git repository stored as a resource in your account, or the URL of a Git repository in AWS CodeCommit or in any other Git repository. When you open a notebook instance, it opens in the directory that contains this repository. For more information, see Associating Git repositories with SageMaker AI notebook instances in the *Amazon SageMaker AI Developer Guide*.

Type: String

Pattern: `.*\S.*`

Required: No

DirectInternetAccess

Sets whether SageMaker AI provides internet access to the notebook instance. If you set this to `Disabled`, this notebook instance is able to access resources only in your VPC, and is not be able to connect to SageMaker AI training and endpoint services unless you configure a Network Address Translation (NAT) Gateway in your VPC.

Type: String

Pattern: `.*\S.*`

Required: No

FailureReason

If status of the instance is `Failed`, the reason it failed.

Type: String

Pattern: `.*\S.*`

Required: No

InstanceMetadataServiceConfiguration

Information on the IMDS configuration of the notebook instance.

Type: AwsSageMakerNotebookInstanceMetadataServiceConfigurationDetails object

Required: No

InstanceType

The type of machine learning (ML) compute instance to launch for the notebook instance.

Type: String

Pattern: `.*\S.*`

Required: No

KmsKeyId

The Amazon Resource Name (ARN) of an AWS Key Management Service (AWS KMS) key that SageMaker AI uses to encrypt data on the storage volume attached to your notebook instance. The KMS key you provide must be enabled. For information, see Enabling and disabling keys in the *AWS Key Management Service Developer Guide*.

Type: String

Pattern: `.*\S.*`

Required: No

NetworkInterfaceId

The network interface ID that SageMaker AI created when the instance was created.

Type: String

Pattern: `.*\S.*`

Required: No

NotebookInstanceArn

The Amazon Resource Name (ARN) of the notebook instance.

Type: String

Pattern: `.*\S.*`

Required: No

NotebookInstanceLifecycleConfigName

The name of a notebook instance lifecycle configuration.

Type: String

Pattern: `.*\S.*`

Required: No

NotebookInstanceName

The name of the new notebook instance.

Type: String

Pattern: `.*\S.*`

Required: No

NotebookInstanceStatus

The status of the notebook instance.

Type: String

Pattern: `.*\S.*`

Required: No

PlatformIdentifier

The platform identifier of the notebook instance runtime environment.

Type: String

Pattern: `.*\S.*`

Required: No

RoleArn

The Amazon Resource Name (ARN) of the IAM role associated with the instance.

Type: String

Pattern: `.*\S.*`

Required: No

RootAccess

Whether root access is enabled or disabled for users of the notebook instance.

Type: String

Pattern: `.*\S.*`

Required: No

SecurityGroups

The VPC security group IDs.

Type: Array of strings

Pattern: `.*\S.*`

Required: No

SubnetId

The ID of the VPC subnet to which you have a connectivity from your ML compute instance.

Type: String

Pattern: `.*\S.*`

Required: No

Url

The URL that you use to connect to the Jupyter notebook that is running in your notebook instance.

Type: String

Pattern: `.*\S.*`

Required: No

VolumeSizeInGB

The size, in GB, of the ML storage volume to attach to the notebook instance.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsSageMakerNotebookInstanceMetadataServiceConfigurationDetails

Information on the instance metadata service (IMDS) configuration of the notebook instance.

Contents

MinimumInstanceMetadataServiceVersion

Indicates the minimum IMDS version that the notebook instance supports.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AWS Secrets Manager objects

AWS Secrets Manager objects

- AwsSecretsManagerSecretDetails
- AwsSecretsManagerSecretRotationRules

AwsSecretsManagerSecretDetails

Details about an AWS Secrets Manager secret.

Contents

Deleted

Whether the secret is deleted.

Type: Boolean

Required: No

Description

The user-provided description of the secret.

Type: String

Pattern: `.*\S.*`

Required: No

KmsKeyId

The ARN, Key ID, or alias of the AWS KMS key used to encrypt the `SecretString` or `SecretBinary` values for versions of this secret.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the secret.

Type: String

Pattern: `.*\S.*`

Required: No

RotationEnabled

Whether rotation is enabled.

Type: Boolean

Required: No

RotationLambdaArn

The ARN of the Lambda function that rotates the secret.

Type: String

Pattern: `.*\S.*`

Required: No

RotationOccurredWithinFrequency

Whether the rotation occurred within the specified rotation frequency.

Type: Boolean

Required: No

RotationRules

Defines the rotation schedule for the secret.

Type: AwsSecretsManagerSecretRotationRules object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsSecretsManagerSecretRotationRules

Defines the rotation schedule for the secret.

Contents

AutomaticallyAfterDays

The number of days after the previous rotation to rotate the secret.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon Simple Notification Service (SNS) objects

Amazon Simple Notification Service (SNS) objects

- AwsSnsTopicDetails
- AwsSnsTopicSubscription

AwsSnsTopicDetails

Provides information about an Amazon SNS topic to which notifications can be published.

Contents

ApplicationSuccessFeedbackRoleArn

Indicates failed message delivery status for an Amazon SNS topic that is subscribed to a platform application endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

FirehoseFailureFeedbackRoleArn

Indicates failed message delivery status for an Amazon SNS topic that is subscribed to an Amazon Kinesis Data Firehose endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

FirehoseSuccessFeedbackRoleArn

Indicates successful message delivery status for an Amazon SNS topic that is subscribed to an Amazon Kinesis Data Firehose endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

HttpFailureFeedbackRoleArn

Indicates failed message delivery status for an Amazon SNS topic that is subscribed to an HTTP endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

HttpSuccessFeedbackRoleArn

Indicates successful message delivery status for an Amazon SNS topic that is subscribed to an HTTP endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

KmsMasterKeyId

The ID of an AWS managed key for Amazon SNS or a customer managed key.

Type: String

Pattern: `.*\S.*`

Required: No

Owner

The subscription's owner.

Type: String

Pattern: `.*\S.*`

Required: No

SqsFailureFeedbackRoleArn

Indicates failed message delivery status for an Amazon SNS topic that is subscribed to an Amazon SQS endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

SqsSuccessFeedbackRoleArn

Indicates successful message delivery status for an Amazon SNS topic that is subscribed to an Amazon SQS endpoint.

Type: String

Pattern: `.*\S.*`

Required: No

Subscription

Subscription is an embedded property that describes the subscription endpoints of an Amazon SNS topic.

Type: Array of AwsSnsTopicSubscription objects

Required: No

TopicName

The name of the Amazon SNS topic.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsSnsTopicSubscription

A wrapper type for the attributes of an Amazon SNS subscription.

Contents

Endpoint

The subscription's endpoint (format depends on the protocol).

Type: String

Pattern: `.*\S.*`

Required: No

Protocol

The subscription's protocol.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon Simple Queue Service (SQS) objects

Amazon SQS objects

- AwsSqsQueueDetails

AwsSqsQueueDetails

Data about a queue.

Contents

DeadLetterTargetArn

The ARN of the dead-letter queue to which Amazon SQS moves messages after the value of `maxReceiveCount` is exceeded.

Type: String

Pattern: `.*\S.*`

Required: No

KmsDataKeyReusePeriodSeconds

The length of time, in seconds, for which Amazon SQS can reuse a data key to encrypt or decrypt messages before calling AWS KMS again.

Type: Integer

Required: No

KmsMasterKeyId

The ID of an AWS managed key for Amazon SQS or a custom KMS key.

Type: String

Pattern: `.*\S.*`

Required: No

QueueName

The name of the new queue.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AWS Systems Manager objects

AWS Systems Manager objects

- AwsSsmComplianceSummary
- AwsSsmPatch
- AwsSsmPatchComplianceDetails

AwsSsmComplianceSummary

Provides the details about the compliance status for a patch.

Contents

ComplianceType

The type of resource for which the compliance was determined. For `AwsSsmPatchCompliance`, `ComplianceType` is `Patch`.

Type: String

Pattern: `.*\S.*`

Required: No

CompliantCriticalCount

For the patches that are compliant, the number that have a severity of `CRITICAL`.

Type: Integer

Required: No

CompliantHighCount

For the patches that are compliant, the number that have a severity of `HIGH`.

Type: Integer

Required: No

CompliantInformationalCount

For the patches that are compliant, the number that have a severity of `INFORMATIONAL`.

Type: Integer

Required: No

CompliantLowCount

For the patches that are compliant, the number that have a severity of `LOW`.

Type: Integer

Required: No

CompliantMediumCount

For the patches that are compliant, the number that have a severity of `MEDIUM`.

Type: Integer

Required: No

CompliantUnspecifiedCount

For the patches that are compliant, the number that have a severity of `UNSPECIFIED`.

Type: Integer

Required: No

ExecutionType

The type of execution that was used determine compliance.

Type: String

Pattern: `.*\S.*`

Required: No

NonCompliantCriticalCount

For the patch items that are noncompliant, the number of items that have a severity of `CRITICAL`.

Type: Integer

Required: No

NonCompliantHighCount

For the patches that are noncompliant, the number that have a severity of `HIGH`.

Type: Integer

Required: No

NonCompliantInformationalCount

For the patches that are noncompliant, the number that have a severity of `INFORMATIONAL`.

Type: Integer

Required: No

NonCompliantLowCount

For the patches that are noncompliant, the number that have a severity of `LOW`.

Type: Integer

Required: No

NonCompliantMediumCount

For the patches that are noncompliant, the number that have a severity of `MEDIUM`.

Type: Integer

Required: No

NonCompliantUnspecifiedCount

For the patches that are noncompliant, the number that have a severity of `UNSPECIFIED`.

Type: Integer

Required: No

OverallSeverity

The highest severity for the patches. Valid values are as follows:

- `CRITICAL`
- `HIGH`
- `MEDIUM`
- `LOW`
- `INFORMATIONAL`
- `UNSPECIFIED`

Type: String

Pattern: `.*\S.*`

Required: No

PatchBaselineId

The identifier of the patch baseline. The patch baseline lists the patches that are approved for installation.

Type: String

Pattern: `.*\S.*`

Required: No

PatchGroup

The identifier of the patch group for which compliance was determined. A patch group uses tags to group EC2 instances that should have the same patch compliance.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The current patch compliance status. Valid values are as follows:

- `COMPLIANT`
- `NON_COMPLIANT`
- `UNSPECIFIED_DATA`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsSsmPatch

Provides details about the compliance for a patch.

Contents

ComplianceSummary

The compliance status details for the patch.

Type: AwsSsmComplianceSummary object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsSsmPatchComplianceDetails

Provides information about the state of a patch on an instance based on the patch baseline that was used to patch the instance.

Contents

Patch

Information about the status of a patch.

Type: AwsSsmPatch object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AWS Step Functions objects

AWS Step Functions objects

- AwsStepFunctionStateMachineDetails
- AwsStepFunctionStateMachineLoggingConfigurationDestinationsCloudWatchLogsLogGroupDetails
- AwsStepFunctionStateMachineLoggingConfigurationDestinationsDetails
- AwsStepFunctionStateMachineLoggingConfigurationDetails
- AwsStepFunctionStateMachineTracingConfigurationDetails

AwsStepFunctionStateMachineDetails

Provides details about an AWS Step Functions state machine, which is a workflow consisting of a series of event- driven steps.

Contents

Label

A user-defined or an auto-generated string that identifies a `Map` state. This parameter is present only if the `stateMachineArn` specified in input is a qualified state machine ARN.

Type: String

Pattern: `.*\S.*`

Required: No

LoggingConfiguration

Used to set CloudWatch Logs options.

Type: AwsStepFunctionStateMachineLoggingConfigurationDetails object

Required: No

Name

The name of the state machine.

Type: String

Pattern: `.*\S.*`

Required: No

RoleArn

The Amazon Resource Name (ARN) of the IAM role used when creating this state machine.

Type: String

Pattern: `.*\S.*`

Required: No

StateMachineArn

The ARN that identifies the state machine.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The current status of the state machine.

Type: String

Pattern: `.*\S.*`

Required: No

TracingConfiguration

Specifies whether AWS X-Ray tracing is enabled.

Type: AwsStepFunctionStateMachineTracingConfigurationDetails object

Required: No

Type

The type of the state machine (STANDARD or EXPRESS).

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsStepFunctionStateMachineLoggingConfigurationDestinationsCloudWatchLogsLogG

An object describing a CloudWatch log group. For more information, see AWS::Logs::LogGroup in the *AWS CloudFormation User Guide*.

Contents

LogGroupArn

The ARN (ends with `:*`) of the CloudWatch Logs log group to which you want your logs emitted.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsStepFunctionStateMachineLoggingConfigurationDestinationsDetails

An array of objects that describes where your execution history events will be logged.

Contents

CloudWatchLogsLogGroup

An object describing a CloudWatch Logs log group. For more information, see AWS::Logs::LogGroup in the *AWS CloudFormation User Guide*.

Type: AwsStepFunctionStateMachineLoggingConfigurationDestinationsCloudWatchLogsLogGroupDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsStepFunctionStateMachineLoggingConfigurationDetails

The `LoggingConfiguration` data type is used to set CloudWatch Logs options.

Contents

Destinations

An array of objects that describes where your execution history events will be logged.

Type: Array of AwsStepFunctionStateMachineLoggingConfigurationDestinationsDetails objects

Required: No

IncludeExecutionData

Determines whether execution data is included in your log. When set to false, data is excluded.

Type: Boolean

Required: No

Level

Defines which category of execution history events are logged.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsStepFunctionStateMachineTracingConfigurationDetails

Specifies whether AWS X-Ray tracing is enabled.

Contents

Enabled

When set to true, AWS X-Ray tracing is enabled.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AWS WAF objects

AWS WAF objects

- AwsWafRateBasedRuleDetails
- AwsWafRateBasedRuleMatchPredicate
- AwsWafRegionalRateBasedRuleDetails
- AwsWafRegionalRateBasedRuleMatchPredicate
- AwsWafRegionalRuleDetails
- AwsWafRegionalRuleGroupDetails
- AwsWafRegionalRuleGroupRulesActionDetails
- AwsWafRegionalRuleGroupRulesDetails
- AwsWafRegionalRulePredicateListDetails
- AwsWafRegionalWebAclDetails

- AwsWafRegionalWebAclRulesListActionDetails
- AwsWafRegionalWebAclRulesListDetails
- AwsWafRegionalWebAclRulesListOverrideActionDetails
- AwsWafRuleDetails
- AwsWafRuleGroupDetails
- AwsWafRuleGroupRulesActionDetails
- AwsWafRuleGroupRulesDetails
- AwsWafRulePredicateListDetails
- AwsWafv2ActionAllowDetails
- AwsWafv2ActionBlockDetails
- AwsWafv2CustomHttpHeader
- AwsWafv2CustomRequestHandlingDetails
- AwsWafv2CustomResponseDetails
- AwsWafv2RuleGroupDetails
- AwsWafv2RulesActionCaptchaDetails
- AwsWafv2RulesActionCountDetails
- AwsWafv2RulesActionDetails
- AwsWafv2RulesDetails
- AwsWafv2VisibilityConfigDetails
- AwsWafv2WebAclActionDetails
- AwsWafv2WebAclCaptchaConfigDetails
- AwsWafv2WebAclCaptchaConfigImmunityTimePropertyDetails
- AwsWafv2WebAclDetails
- AwsWafWebAclDetails
- AwsWafWebAclRule
- WafAction
- WafExcludedRule
- WafOverrideAction

AwsWafRateBasedRuleDetails

Details about a rate-based rule for global resources. A rate-based rule provides settings to indicate when to allow, block, or count a request. Rate-based rules include the number of requests that arrive over a specified period of time.

Contents

MatchPredicates

The predicates to include in the rate-based rule.

Type: Array of AwsWafRateBasedRuleMatchPredicate objects

Required: No

MetricName

The name of the metrics for the rate-based rule.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the rate-based rule.

Type: String

Pattern: `.*\S.*`

Required: No

RateKey

The field that AWS WAF uses to determine whether requests are likely arriving from single source and are subject to rate monitoring.

Type: String

Pattern: `.*\S.*`

Required: No

RateLimit

The maximum number of requests that have an identical value for the field specified in `RateKey` that are allowed within a five-minute period. If the number of requests exceeds `RateLimit` and the other predicates specified in the rule are met, AWS WAF triggers the action for the rule.

Type: Long

Required: No

RuleId

The unique identifier for the rate-based rule.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRateBasedRuleMatchPredicate

A match predicate. A predicate might look for characteristics such as specific IP addresses, geographic locations, or sizes.

Contents

DataId

The unique identifier for the predicate.

Type: String

Pattern: `.*\S.*`

Required: No

Negated

If set to `true`, then the rule actions are performed on requests that match the predicate settings.

If set to `false`, then the rule actions are performed on all requests except those that match the predicate settings.

Type: Boolean

Required: No

Type

The type of predicate. Valid values are as follows:

- `ByteMatch`
- `GeoMatch`
- `IPMatch`
- `RegexMatch`
- `SizeConstraint`
- `SqlInjectionMatch`
- `XssMatch`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRegionalRateBasedRuleDetails

contains details about a rate-based rule for Regional resources. A rate-based rule provides settings to indicate when to allow, block, or count a request. Rate-based rules include the number of requests that arrive over a specified period of time.

Contents

MatchPredicates

The predicates to include in the rate-based rule.

Type: Array of AwsWafRegionalRateBasedRuleMatchPredicate objects

Required: No

MetricName

The name of the metrics for the rate-based rule.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the rate-based rule.

Type: String

Pattern: `.*\S.*`

Required: No

RateKey

The field that AWS WAF uses to determine whether requests are likely arriving from single source and are subject to rate monitoring.

Type: String

Pattern: `.*\S.*`

Required: No

RateLimit

The maximum number of requests that have an identical value for the field specified in `RateKey` that are allowed within a five-minute period. If the number of requests exceeds `RateLimit` and the other predicates specified in the rule are met, AWS WAF triggers the action for the rule.

Type: Long

Required: No

RuleId

The unique identifier for the rate-based rule.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRegionalRateBasedRuleMatchPredicate

Details for a match predicate. A predicate might look for characteristics such as specific IP addresses, geographic locations, or sizes.

Contents

DataId

The unique identifier for the predicate.

Type: String

Pattern: `.*\S.*`

Required: No

Negated

If set to `true`, then the rule actions are performed on requests that match the predicate settings.

If set to `false`, then the rule actions are performed on all requests except those that match the predicate settings.

Type: Boolean

Required: No

Type

The type of predicate. Valid values are as follows:

- `ByteMatch`
- `GeoMatch`
- `IPMatch`
- `RegexMatch`
- `SizeConstraint`
- `SqlInjectionMatch`
- `XssMatch`

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRegionalRuleDetails

Provides information about an AWS WAF Regional rule. This rule identifies the web requests that you want to allow, block, or count.

Contents

MetricName

A name for the metrics for the rule.

Type: String

Pattern: `.*\S.*`

Required: No

Name

A descriptive name for the rule.

Type: String

Pattern: `.*\S.*`

Required: No

PredicateList

Specifies the `ByteMatchSet`, `IPSet`, `SqlInjectionMatchSet`, `XssMatchSet`, `RegexMatchSet`, `GeoMatchSet`, and `SizeConstraintSet` objects that you want to add to a rule and, for each object, indicates whether you want to negate the settings.

Type: Array of AwsWafRegionalRulePredicateListDetails objects

Required: No

RuleId

The ID of the rule.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRegionalRuleGroupDetails

Provides information about an AWS WAF Regional rule group. The rule group is a collection of rules for inspecting and controlling web requests.

Contents

MetricName

A name for the metrics for this rule group.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The descriptive name of the rule group.

Type: String

Pattern: `.*\S.*`

Required: No

RuleGroupId

The ID of the rule group.

Type: String

Pattern: `.*\S.*`

Required: No

Rules

Provides information about the rule statements used to identify the web requests that you want to allow, block, or count.

Type: Array of AwsWafRegionalRuleGroupRulesDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRegionalRuleGroupRulesActionDetails

Describes the action that AWS WAF should take on a web request when it matches the criteria defined in the rule.

Contents

Type

Specifies the `ByteMatchSet`, `IPSet`, `SqlInjectionMatchSet`, `XssMatchSet`, `RegexMatchSet`, `GeoMatchSet`, and `SizeConstraintSet` objects that you want to add to a rule and, for each object, indicates whether you want to negate the settings.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRegionalRuleGroupRulesDetails

Provides information about the rules attached to a rule group

Contents

Action

The action that AWS WAF should take on a web request when it matches the criteria defined in the rule.

Type: AwsWafRegionalRuleGroupRulesActionDetails object

Required: No

Priority

If you define more than one rule in a web ACL, AWS WAF evaluates each request against the rules in order based on the value of `Priority`.

Type: Integer

Required: No

RuleId

The ID for a rule.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of rule in the rule group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRegionalRulePredicateListDetails

Provides details about the `ByteMatchSet`, `IPSet`, `SqlInjectionMatchSet`, `XssMatchSet`, `RegexMatchSet`, `GeoMatchSet`, and `SizeConstraintSet` objects that you want to add to a rule and, for each object, indicates whether you want to negate the settings.

Contents

DataId

A unique identifier for a predicate in a rule, such as `ByteMatchSetId` or `IPSetId`.

Type: String

Pattern: `.*\S.*`

Required: No

Negated

Specifies if you want AWS WAF to allow, block, or count requests based on the settings in the `ByteMatchSet`, `IPSet`, `SqlInjectionMatchSet`, `XssMatchSet`, `RegexMatchSet`, `GeoMatchSet`, or `SizeConstraintSet`.

Type: Boolean

Required: No

Type

The type of predicate in a rule, such as `ByteMatch` or `IPSet`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRegionalWebAclDetails

Provides information about the web access control list (web ACL). The web ACL contains the rules that identify the requests that you want to allow, block, or count.

Contents

DefaultAction

The action to perform if none of the rules contained in the web ACL match.

Type: String

Pattern: `.*\S.*`

Required: No

MetricName

A name for the metrics for this web ACL.

Type: String

Pattern: `.*\S.*`

Required: No

Name

A descriptive name for the web ACL.

Type: String

Pattern: `.*\S.*`

Required: No

RulesList

An array that contains the action for each rule in a web ACL, the priority of the rule, and the ID of the rule.

Type: Array of AwsWafRegionalWebAclRulesListDetails objects

Required: No

WebAclId

The ID of the web ACL.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRegionalWebAclRulesListActionDetails

The action that AWS WAF takes when a web request matches all conditions in the rule, such as allow, block, or count the request.

Contents

Type

For actions that are associated with a rule, the action that AWS WAF takes when a web request matches all conditions in a rule.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRegionalWebAclRulesListDetails

A combination of `ByteMatchSet`, `IPSet`, and/or `SqlInjectionMatchSet` objects that identify the web requests that you want to allow, block, or count.

Contents

Action

The action that AWS WAF takes when a web request matches all conditions in the rule, such as allow, block, or count the request.

Type: AwsWafRegionalWebAclRulesListActionDetails object

Required: No

OverrideAction

Overrides the rule evaluation result in the rule group.

Type: AwsWafRegionalWebAclRulesListOverrideActionDetails object

Required: No

Priority

The order in which AWS WAF evaluates the rules in a web ACL.

Type: Integer

Required: No

RuleId

The ID of an AWS WAF Regional rule to associate with a web ACL.

Type: String

Pattern: `.*\S.*`

Required: No

Type

For actions that are associated with a rule, the action that AWS WAF takes when a web request matches all conditions in a rule.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRegionalWebAclRulesListOverrideActionDetails

Provides details about the action to use in the place of the action that results from the rule group evaluation.

Contents

Type

Overrides the rule evaluation result in the rule group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRuleDetails

Provides information about a AWS WAF rule. This rule specifies the web requests that you want to allow, block, or count.

Contents

MetricName

The name of the metrics for this rule.

Type: String

Pattern: `.*\S.*`

Required: No

Name

A descriptive name for the rule.

Type: String

Pattern: `.*\S.*`

Required: No

PredicateList

Specifies the `ByteMatchSet`, `IPSet`, `SqlInjectionMatchSet`, `XssMatchSet`, `RegexMatchSet`, `GeoMatchSet`, and `SizeConstraintSet` objects that you want to add to a rule and, for each object, indicates whether you want to negate the settings.

Type: Array of AwsWafRulePredicateListDetails objects

Required: No

RuleId

The ID of the AWS WAF rule.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRuleGroupDetails

Provides information about an AWS WAF rule group. A rule group is a collection of rules for inspecting and controlling web requests.

Contents

MetricName

The name of the metrics for this rule group.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the rule group.

Type: String

Pattern: `.*\S.*`

Required: No

RuleGroupId

The ID of the rule group.

Type: String

Pattern: `.*\S.*`

Required: No

Rules

Provides information about the rules attached to the rule group. These rules identify the web requests that you want to allow, block, or count.

Type: Array of AwsWafRuleGroupRulesDetails objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRuleGroupRulesActionDetails

Provides information about what action AWS WAF should take on a web request when it matches the criteria defined in the rule.

Contents

Type

The action that AWS WAF should take on a web request when it matches the rule's statement.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRuleGroupRulesDetails

Provides information about the rules attached to the rule group. These rules identify the web requests that you want to allow, block, or count.

Contents

Action

Provides information about what action AWS WAF should take on a web request when it matches the criteria defined in the rule.

Type: AwsWafRuleGroupRulesActionDetails object

Required: No

Priority

If you define more than one rule in a web ACL, AWS WAF evaluates each request against the rules in order based on the value of `Priority`.

Type: Integer

Required: No

RuleId

The rule ID for a rule.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of rule.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafRulePredicateListDetails

Provides details about the `ByteMatchSet`, `IPSet`, `SqlInjectionMatchSet`, `XssMatchSet`, `RegexMatchSet`, `GeoMatchSet`, and `SizeConstraintSet` objects that you want to add to a rule and, for each object, indicates whether you want to negate the settings.

Contents

DataId

A unique identifier for a predicate in a rule, such as `ByteMatchSetId` or `IPSetId`.

Type: String

Pattern: `.*\S.*`

Required: No

Negated

Specifies if you want AWS WAF to allow, block, or count requests based on the settings in the `ByteMatchSet`, `IPSet`, `SqlInjectionMatchSet`, `XssMatchSet`, `RegexMatchSet`, `GeoMatchSet`, or `SizeConstraintSet`.

Type: Boolean

Required: No

Type

The type of predicate in a rule, such as `ByteMatch` or `IPSet`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafv2ActionAllowDetails

Specifies that AWS WAF should allow the request and optionally defines additional custom handling for the request.

Contents

CustomRequestHandling

Defines custom handling for the web request. For information about customizing web requests and responses, see Customizing web requests and responses in AWS WAF in the *AWS WAF Developer Guide.*.

Type: AwsWafv2CustomRequestHandlingDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafv2ActionBlockDetails

Specifies that AWS WAF should block the request and optionally defines additional custom handling for the response to the web request.

Contents

CustomResponse

Defines a custom response for the web request. For information, see Customizing web requests and responses in AWS WAF in the *AWS WAF Developer Guide.*.

Type: AwsWafv2CustomResponseDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafv2CustomHttpHeader

A custom header for custom request and response handling.

Contents

Name

The name of the custom header.

Type: String

Pattern: `.*\S.*`

Required: No

Value

The value of the custom header.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafv2CustomRequestHandlingDetails

Custom request handling behavior that inserts custom headers into a web request. AWS WAF uses custom request handling when the rule action doesn't block the request.

Contents

InsertHeaders

The HTTP headers to insert into the request.

Type: Array of AwsWafv2CustomHttpHeader objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafv2CustomResponseDetails

A custom response to send to the client. You can define a custom response for rule actions and default web ACL actions that are set to block.

Contents

CustomResponseBodyKey

References the response body that you want AWS WAF to return to the web request client. You can define a custom response for a rule action or a default web ACL action that is set to block.

Type: String

Pattern: `.*\S.*`

Required: No

ResponseCode

The HTTP status code to return to the client. For a list of status codes that you can use in your custom responses, see Supported status codes for custom response in the *AWS WAF Developer Guide.*

Type: Integer

Required: No

ResponseHeaders

The HTTP headers to use in the response.

Type: Array of AwsWafv2CustomHttpHeader objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsWafv2RuleGroupDetails

Details about an AWS WAFv2 rule group.

Contents

Arn

The Amazon Resource Name (ARN) of the entity.

Type: String

Pattern: `.*\S.*`

Required: No

Capacity

The web ACL capacity units (WCUs) required for this rule group.

Type: Long

Required: No

Description

A description of the rule group that helps with identification.

Type: String

Pattern: `.*\S.*`

Required: No

Id

A unique identifier for the rule group.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the rule group. You cannot change the name of a rule group after you create it.

Type: String

Pattern: `.*\S.*`

Required: No

Rules

The Rule statements used to identify the web requests that you want to allow, block, or count. Each rule includes one top-level statement that AWS WAF uses to identify matching web requests, and parameters that govern how AWS WAF handles them.

Type: Array of AwsWafv2RulesDetails objects

Required: No

Scope

Specifies whether the rule group is for an Amazon CloudFront distribution or for a regional application. A regional application can be an Application Load Balancer (ALB), an Amazon API Gateway REST API, an AWS AppSync GraphQL API, or an Amazon Cognito user pool.

Type: String

Pattern: `.*\S.*`

Required: No

VisibilityConfig

Defines and enables Amazon CloudWatch metrics and web request sample collection.

Type: AwsWafv2VisibilityConfigDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AwsWafv2RulesActionCaptchaDetails

Specifies that AWS WAF should run a CAPTCHA check against the request.

Contents

CustomRequestHandling

Defines custom handling for the web request, used when the CAPTCHA inspection determines that the request's token is valid and unexpired. For more information, see Customizing web requests and responses in AWS WAF in the *AWS WAF Developer Guide.*.

Type: AwsWafv2CustomRequestHandlingDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafv2RulesActionCountDetails

Specifies that AWS WAF should count the request.

Contents

CustomRequestHandling

Defines custom handling for the web request. For more information, see Customizing web requests and responses in AWS WAF in the *AWS WAF Developer Guide.*.

Type: AwsWafv2CustomRequestHandlingDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafv2RulesActionDetails

The action that AWS WAF should take on a web request when it matches a rule's statement. Settings at the web ACL level can override the rule action setting.

Contents

Allow

Instructs AWS WAF to allow the web request.

Type: AwsWafv2ActionAllowDetails object

Required: No

Block

Instructs AWS WAF to block the web request.

Type: AwsWafv2ActionBlockDetails object

Required: No

Captcha

Instructs AWS WAF to run a CAPTCHA check against the web request.

Type: AwsWafv2RulesActionCaptchaDetails object

Required: No

Count

Instructs AWS WAF to count the web request and then continue evaluating the request using the remaining rules in the web ACL.

Type: AwsWafv2RulesActionCountDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafv2RulesDetails

Provides details about rules in a rule group. A rule identifies web requests that you want to allow, block, or count. Each rule includes one top-level Statement that AWS WAF uses to identify matching web requests, and parameters that govern how AWS WAF handles them.

Contents

Action

The action that AWS WAF should take on a web request when it matches the rule statement. Settings at the web ACL level can override the rule action setting.

Type: AwsWafv2RulesActionDetails object

Required: No

Name

The name of the rule.

Type: String

Pattern: `.*\S.*`

Required: No

OverrideAction

The action to use in the place of the action that results from the rule group evaluation.

Type: String

Pattern: `.*\S.*`

Required: No

Priority

If you define more than one Rule in a WebACL, AWS WAF evaluates each request against the Rules in order based on the value of `Priority`. AWS WAF processes rules with lower priority first. The priorities don't need to be consecutive, but they must all be different.

Type: Integer

Required: No

VisibilityConfig

Defines and enables Amazon CloudWatch metrics and web request sample collection.

Type: AwsWafv2VisibilityConfigDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafv2VisibilityConfigDetails

Defines and enables Amazon CloudWatch metrics and web request sample collection.

Contents

CloudWatchMetricsEnabled

A boolean indicating whether the associated resource sends metrics to Amazon CloudWatch. For the list of available metrics, see AWS WAF metrics and dimensions in the *AWS WAF Developer Guide*.

Type: Boolean

Required: No

MetricName

A name of the Amazon CloudWatch metric.

Type: String

Pattern: `.*\S.*`

Required: No

SampledRequestsEnabled

A boolean indicating whether AWS WAF should store a sampling of the web requests that match the rules. You can view the sampled requests through the AWS WAF console.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafv2WebAclActionDetails

Specifies the action that Amazon CloudFront or AWS WAF takes when a web request matches the conditions in the rule.

Contents

Allow

Specifies that AWS WAF should allow requests by default.

Type: AwsWafv2ActionAllowDetails object

Required: No

Block

Specifies that AWS WAF should block requests by default.

Type: AwsWafv2ActionBlockDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafv2WebAclCaptchaConfigDetails

Specifies how AWS WAF should handle CAPTCHA evaluations for rules that don't have their own `CaptchaConfig` settings.

Contents

ImmunityTimeProperty

Determines how long a CAPTCHA timestamp in the token remains valid after the client successfully solves a CAPTCHA puzzle.

Type: AwsWafv2WebAclCaptchaConfigImmunityTimePropertyDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafv2WebAclCaptchaConfigImmunityTimePropertyDetails

Used for CAPTCHA and challenge token settings. Determines how long a CAPTCHA or challenge timestamp remains valid after AWS WAF updates it for a successful CAPTCHA or challenge response.

Contents

ImmunityTime

The amount of time, in seconds, that a CAPTCHA or challenge timestamp is considered valid by AWS WAF.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafv2WebAclDetails

Details about an AWS WAFv2 web Access Control List (ACL).

Contents

Arn

The Amazon Resource Name (ARN) of the web ACL that you want to associate with the resource.

Type: String

Pattern: `.*\S.*`

Required: No

Capacity

The web ACL capacity units (WCUs) currently being used by this web ACL.

Type: Long

Required: No

CaptchaConfig

Specifies how AWS WAF should handle CAPTCHA evaluations for rules that don't have their own `CaptchaConfig` settings.

Type: AwsWafv2WebAclCaptchaConfigDetails object

Required: No

DefaultAction

The action to perform if none of the Rules contained in the web ACL match.

Type: AwsWafv2WebAclActionDetails object

Required: No

Description

A description of the web ACL that helps with identification.

Type: String

Pattern: `.*\S.*`

Required: No

Id

A unique identifier for the web ACL.

Type: String

Pattern: `.*\S.*`

Required: No

ManagedbyFirewallManager

Indicates whether this web ACL is managed by AWS Firewall Manager.

Type: Boolean

Required: No

Name

The name of the web ACL.

Type: String

Pattern: `.*\S.*`

Required: No

Rules

The Rule statements used to identify the web requests that you want to allow, block, or count. Each rule includes one top-level statement that AWS WAF uses to identify matching web requests, and parameters that govern how AWS WAF handles them.

Type: Array of AwsWafv2RulesDetails objects

Required: No

VisibilityConfig

Defines and enables Amazon CloudWatch metrics and web request sample collection.

Type: AwsWafv2VisibilityConfigDetails object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafWebAclDetails

Provides information about an AWS WAF web access control list (web ACL).

Contents

DefaultAction

The action to perform if none of the rules contained in the web ACL match.

Type: String

Pattern: `.*\S.*`

Required: No

Name

A friendly name or description of the web ACL. You can't change the name of a web ACL after you create it.

Type: String

Pattern: `.*\S.*`

Required: No

Rules

An array that contains the action for each rule in a web ACL, the priority of the rule, and the ID of the rule.

Type: Array of AwsWafWebAclRule objects

Required: No

WebAclId

A unique identifier for a web ACL.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AwsWafWebAclRule

Details for a rule in an AWS WAF web ACL.

Contents

Action

Specifies the action that CloudFront or AWS WAF takes when a web request matches the conditions in the rule.

Type: WafAction object

Required: No

ExcludedRules

Rules to exclude from a rule group.

Type: Array of WafExcludedRule objects

Required: No

OverrideAction

Use the `OverrideAction` to test your `RuleGroup`.

Any rule in a `RuleGroup` can potentially block a request. If you set the `OverrideAction` to None, the `RuleGroup` blocks a request if any individual rule in the `RuleGroup` matches the request and is configured to block that request.

However, if you first want to test the `RuleGroup`, set the `OverrideAction` to `Count`. The `RuleGroup` then overrides any block action specified by individual rules contained within the group. Instead of blocking matching requests, those requests are counted.

`ActivatedRule`|`OverrideAction` applies only when updating or adding a `RuleGroup` to a web ACL. In this case you don't use `ActivatedRule Action`. For all other update requests, `ActivatedRule Action` is used instead of `ActivatedRule OverrideAction`.

Type: WafOverrideAction object

Required: No

Priority

Specifies the order in which the rules in a web ACL are evaluated. Rules with a lower value for `Priority` are evaluated before rules with a higher value. The value must be a unique integer. If you add multiple rules to a web ACL, the values don't need to be consecutive.

Type: Integer

Required: No

RuleId

The identifier for a rule.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The rule type.

Valid values: `REGULAR` | `RATE_BASED` | `GROUP`

The default is `REGULAR`.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

WafAction

Details about the action that CloudFront or AWS WAF takes when a web request matches the conditions in the rule.

Contents

Type

Specifies how you want AWS WAF to respond to requests that match the settings in a rule.

Valid settings include the following:

- `ALLOW` - AWS WAF allows requests
- `BLOCK` - AWS WAF blocks requests
- `COUNT` - AWS WAF increments a counter of the requests that match all of the conditions in the rule. AWS WAF then continues to inspect the web request based on the remaining rules in the web ACL. You can't specify `COUNT` for the default action for a web ACL.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

WafExcludedRule

Details about a rule to exclude from a rule group.

Contents

RuleId

The unique identifier for the rule to exclude from the rule group.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

WafOverrideAction

Details about an override action for a rule.

Contents

Type

`COUNT` overrides the action specified by the individual rule within a `RuleGroup` .

If set to `NONE`, the rule's action takes place.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AWS X-Ray objects

AWS X-Ray objects

- AwsXrayEncryptionConfigDetails

AwsXrayEncryptionConfigDetails

Information about the encryption configuration for AWS X-Ray.

Contents

KeyId

The identifier of the KMS key that is used for encryption. Provided if `Type` is `KMS`.

Type: String

Pattern: `.*\S.*`

Required: No

Status

The current status of the encryption configuration. Valid values are `ACTIVE` or `UPDATING`.

When `Status` is equal to `UPDATING`, AWS X-Ray might use both the old and new encryption.

Type: String

Pattern: `.*\S.*`

Required: No

Type

The type of encryption. `KMS` indicates that the encryption uses KMS keys. `NONE` indicates the default encryption.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Container objects

Container objects

- ContainerDetails
- VolumeMount

ContainerDetails

Container details related to a finding.

Contents

ContainerRuntime

The runtime of the container.

Type: String

Pattern: `.*\S.*`

Required: No

ImageId

The identifier of the container image related to a finding.

Type: String

Pattern: `.*\S.*`

Required: No

ImageName

The name of the container image related to a finding.

Type: String

Pattern: `.*\S.*`

Required: No

LaunchedAt

Indicates when the container started.

For more information about the validation and formatting of timestamp fields in AWS Security Hub CSPM, see Timestamps.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the container related to a finding.

Type: String

Pattern: `.*\S.*`

Required: No

Privileged

When this parameter is `true`, the container is given elevated privileges on the host container instance (similar to the root user).

Type: Boolean

Required: No

VolumeMounts

Provides information about the mounting of a volume in a container.

Type: Array of VolumeMount objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

VolumeMount

Describes the mounting of a volume in a container.

Contents

MountPath

The path in the container at which the volume should be mounted.

Type: String

Pattern: `.*\S.*`

Required: No

Name

The name of the volume.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Code repository objects

Code repository objects

- CodeRepositoryDetails

CodeRepositoryDetails

Details about an external code repository with which you can connect your AWS resources. The connection is established through Amazon Inspector.

Contents

CodeSecurityIntegrationArn

The Amazon Resource Name (ARN) of the code security integration associated with the repository.

Type: String

Pattern: `.*\S.*`

Required: No

ProjectName

The name of the project in the code repository.

Type: String

Pattern: `.*\S.*`

Required: No

ProviderType

The type of repository provider.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signing AWS API requests in the *IAM User Guide*.

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key*/*YYYYMMDD*/*region*/*service*/aws4_request.

For more information, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Elements of an AWS API request signature in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see AWS services that work with IAM in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

InvalidAction

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

InvalidClientTokenId

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400