



API Reference Guide

# AWS Systems Manager for SAP



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# AWS Systems Manager for SAP: API Reference Guide

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# Table of Contents

<b>Welcome</b> .....	<b>1</b>
<b>Actions</b> .....	<b>2</b>
DeleteResourcePermission .....	4
Request Syntax .....	4
URI Request Parameters .....	4
Request Body .....	4
Response Syntax .....	5
Response Elements .....	5
Errors .....	5
See Also .....	6
DeregisterApplication .....	7
Request Syntax .....	7
URI Request Parameters .....	7
Request Body .....	7
Response Syntax .....	7
Response Elements .....	7
Errors .....	8
See Also .....	8
GetApplication .....	9
Request Syntax .....	9
URI Request Parameters .....	9
Request Body .....	9
Response Syntax .....	10
Response Elements .....	10
Errors .....	11
See Also .....	11
GetComponent .....	13
Request Syntax .....	13
URI Request Parameters .....	13
Request Body .....	13
Response Syntax .....	14
Response Elements .....	15
Errors .....	16
See Also .....	16

GetConfigurationCheckOperation .....	18
Request Syntax .....	18
URI Request Parameters .....	18
Request Body .....	18
Response Syntax .....	18
Response Elements .....	19
Errors .....	19
See Also .....	20
GetDatabase .....	21
Request Syntax .....	21
URI Request Parameters .....	21
Request Body .....	21
Response Syntax .....	22
Response Elements .....	23
Errors .....	23
See Also .....	24
GetOperation .....	25
Request Syntax .....	25
URI Request Parameters .....	25
Request Body .....	25
Response Syntax .....	25
Response Elements .....	26
Errors .....	26
See Also .....	27
GetResourcePermission .....	28
Request Syntax .....	28
URI Request Parameters .....	28
Request Body .....	28
Response Syntax .....	29
Response Elements .....	29
Errors .....	29
See Also .....	30
ListApplications .....	31
Request Syntax .....	31
URI Request Parameters .....	31
Request Body .....	31

Response Syntax .....	32
Response Elements .....	32
Errors .....	33
See Also .....	33
ListComponents .....	35
Request Syntax .....	35
URI Request Parameters .....	35
Request Body .....	35
Response Syntax .....	36
Response Elements .....	36
Errors .....	37
See Also .....	37
ListConfigurationCheckDefinitions .....	39
Request Syntax .....	39
URI Request Parameters .....	39
Request Body .....	39
Response Syntax .....	40
Response Elements .....	40
Errors .....	40
See Also .....	41
ListConfigurationCheckOperations .....	42
Request Syntax .....	42
URI Request Parameters .....	42
Request Body .....	42
Response Syntax .....	43
Response Elements .....	44
Errors .....	45
See Also .....	45
ListDatabases .....	47
Request Syntax .....	47
URI Request Parameters .....	47
Request Body .....	47
Response Syntax .....	48
Response Elements .....	49
Errors .....	49
See Also .....	50

ListOperationEvents .....	51
Request Syntax .....	51
URI Request Parameters .....	51
Request Body .....	51
Response Syntax .....	52
Response Elements .....	53
Errors .....	53
See Also .....	54
ListOperations .....	55
Request Syntax .....	55
URI Request Parameters .....	55
Request Body .....	55
Response Syntax .....	56
Response Elements .....	57
Errors .....	57
See Also .....	58
ListSubCheckResults .....	59
Request Syntax .....	59
URI Request Parameters .....	59
Request Body .....	59
Response Syntax .....	60
Response Elements .....	60
Errors .....	61
See Also .....	61
ListSubCheckRuleResults .....	62
Request Syntax .....	62
URI Request Parameters .....	62
Request Body .....	62
Response Syntax .....	63
Response Elements .....	63
Errors .....	64
See Also .....	64
ListTagsForResource .....	66
Request Syntax .....	66
URI Request Parameters .....	66
Request Body .....	66

Response Syntax .....	66
Response Elements .....	66
Errors .....	67
See Also .....	67
<b>PutResourcePermission .....</b>	<b>69</b>
Request Syntax .....	69
URI Request Parameters .....	69
Request Body .....	69
Response Syntax .....	70
Response Elements .....	70
Errors .....	70
See Also .....	71
<b>RegisterApplication .....</b>	<b>72</b>
Request Syntax .....	72
URI Request Parameters .....	73
Request Body .....	73
Response Syntax .....	75
Response Elements .....	75
Errors .....	76
See Also .....	77
<b>StartApplication .....</b>	<b>78</b>
Request Syntax .....	78
URI Request Parameters .....	78
Request Body .....	78
Response Syntax .....	78
Response Elements .....	79
Errors .....	79
See Also .....	80
<b>StartApplicationRefresh .....</b>	<b>81</b>
Request Syntax .....	81
URI Request Parameters .....	81
Request Body .....	81
Response Syntax .....	81
Response Elements .....	82
Errors .....	82
See Also .....	83

StartConfigurationChecks .....	84
Request Syntax .....	84
URI Request Parameters .....	84
Request Body .....	84
Response Syntax .....	85
Response Elements .....	85
Errors .....	86
See Also .....	86
StopApplication .....	88
Request Syntax .....	88
URI Request Parameters .....	88
Request Body .....	88
Response Syntax .....	89
Response Elements .....	89
Errors .....	89
See Also .....	90
TagResource .....	91
Request Syntax .....	91
URI Request Parameters .....	91
Request Body .....	91
Response Syntax .....	92
Response Elements .....	92
Errors .....	92
See Also .....	92
UntagResource .....	94
Request Syntax .....	94
URI Request Parameters .....	94
Request Body .....	94
Response Syntax .....	94
Response Elements .....	94
Errors .....	95
See Also .....	95
UpdateApplicationSettings .....	96
Request Syntax .....	96
URI Request Parameters .....	96
Request Body .....	96

Response Syntax .....	98
Response Elements .....	98
Errors .....	98
See Also .....	99
<b>Data Types .....</b>	<b>100</b>
Application .....	102
Contents .....	102
See Also .....	104
ApplicationCredential .....	105
Contents .....	105
See Also .....	105
ApplicationSummary .....	107
Contents .....	107
See Also .....	108
AssociatedHost .....	109
Contents .....	109
See Also .....	109
BackintConfig .....	111
Contents .....	111
See Also .....	111
Component .....	112
Contents .....	112
See Also .....	116
ComponentInfo .....	117
Contents .....	117
See Also .....	118
ComponentSummary .....	119
Contents .....	119
See Also .....	120
ConfigurationCheckDefinition .....	121
Contents .....	121
See Also .....	121
ConfigurationCheckOperation .....	123
Contents .....	123
See Also .....	125
Database .....	126

Contents .....	126
See Also .....	128
DatabaseConnection .....	129
Contents .....	129
See Also .....	129
DatabaseSummary .....	131
Contents .....	131
See Also .....	132
Filter .....	133
Contents .....	133
See Also .....	133
Host .....	135
Contents .....	135
See Also .....	136
IpAddressMember .....	137
Contents .....	137
See Also .....	137
Operation .....	138
Contents .....	138
See Also .....	140
OperationEvent .....	141
Contents .....	141
See Also .....	142
Resilience .....	143
Contents .....	143
See Also .....	144
Resource .....	145
Contents .....	145
See Also .....	145
RuleResult .....	146
Contents .....	146
See Also .....	147
RuleStatusCounts .....	148
Contents .....	148
See Also .....	149
SubCheckResult .....	150

---

Contents .....	150
See Also .....	150
<b>Common Parameters .....</b>	<b>152</b>
<b>Common Error Types .....</b>	<b>155</b>

# Welcome

This API reference provides descriptions, syntax, and other details about each of the actions and data types for AWS Systems Manager for SAP. The topic for each action shows the API request parameters and responses.

This document was last published on June 19, 2026.

# Actions

The following actions are supported:

- [DeleteResourcePermission](#)
- [DeregisterApplication](#)
- [GetApplication](#)
- [GetComponent](#)
- [GetConfigurationCheckOperation](#)
- [GetDatabase](#)
- [GetOperation](#)
- [GetResourcePermission](#)
- [ListApplications](#)
- [ListComponents](#)
- [ListConfigurationCheckDefinitions](#)
- [ListConfigurationCheckOperations](#)
- [ListDatabases](#)
- [ListOperationEvents](#)
- [ListOperations](#)
- [ListSubCheckResults](#)
- [ListSubCheckRuleResults](#)
- [ListTagsForResource](#)
- [PutResourcePermission](#)
- [RegisterApplication](#)
- [StartApplication](#)
- [StartApplicationRefresh](#)
- [StartConfigurationChecks](#)
- [StopApplication](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateApplicationSettings](#)



# DeleteResourcePermission

Removes permissions associated with the target database.

## Request Syntax

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

{
  "ActionType": "string",
  "ResourceArn": "string",
  "SourceResourceArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ActionType

Delete or restore the permissions on the target database.

Type: String

Valid Values: RESTORE

Required: No

### ResourceArn

The Amazon Resource Name (ARN) of the resource.

Type: String

Pattern: `arn:(.+){2,4}.*$|^arn:(.+){1,3}.*\./.*`

Required: Yes

## SourceResourceArn

The Amazon Resource Name (ARN) of the source resource.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

## Response Syntax

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

{
  "Policy": "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.

### Policy

The policy that removes permissions on the target database.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

## ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# DeregisterApplication

Deregister an SAP application with AWS Systems Manager for SAP. This action does not affect the existing setup of your SAP workloads on Amazon EC2.

## Request Syntax

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

{
  "ApplicationId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [ApplicationId](#)

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

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 Error Types](#).

### InternalServerErrorException

An internal error has occurred.

HTTP Status Code: 500

### UnauthorizedException

The request is not authorized.

HTTP Status Code: 401

### ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# GetApplication

Gets an application registered with AWS Systems Manager for SAP. It also returns the components of the application.

## Request Syntax

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

```
{
  "ApplicationArn": "string",
  "ApplicationId": "string",
  "AppRegistryArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationArn

The Amazon Resource Name (ARN) of the application.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: No

### AppRegistryArn

The Amazon Resource Name (ARN) of the application registry.

Type: String

Pattern: `arn:aws:servicecatalog:[a-z0-9:\-]+`

Required: No

## Response Syntax

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

{
  "Application": {
    "AppRegistryArn": "string",
    "Arn": "string",
    "AssociatedApplicationArns": [ "string" ],
    "Components": [ "string" ],
    "DiscoveryStatus": "string",
    "Id": "string",
    "LastUpdated": number,
    "Status": "string",
    "StatusMessage": "string",
    "Type": "string"
  },
  "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.

## Application

Returns all of the metadata of an application registered with AWS Systems Manager for SAP.

Type: [Application](#) object

## Tags

The tags of a registered application.

Type: String to string map

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

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# GetComponent

Gets the component of an application registered with AWS Systems Manager for SAP.

## Request Syntax

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

{
  "ApplicationId": "string",
  "ComponentId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: Yes

### ComponentId

The ID of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[\w\d-]+`

Required: Yes

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "Component": {
    "ApplicationId": "string",
    "Arn": "string",
    "AssociatedHost": {
      "Ec2InstanceId": "string",
      "Hostname": "string",
      "IpAddresses": [
        {
          "AllocationType": "string",
          "IpAddress": "string",
          "Primary": boolean
        }
      ],
      "OsVersion": "string"
    },
    "ChildComponents": [ "string" ],
    "ComponentId": "string",
    "ComponentType": "string",
    "DatabaseConnection": {
      "ConnectionIp": "string",
      "DatabaseArn": "string",
      "DatabaseConnectionMethod": "string"
    },
    "Databases": [ "string" ],
    "HdbVersion": "string",
    "Hosts": [
      {
        "EC2InstanceId": "string",
        "HostIp": "string",
        "HostName": "string",
        "HostRole": "string",
        "InstanceId": "string",
        "OsVersion": "string"
      }
    ]
  }
}
```

```

    }
  ],
  "LastUpdated": number,
  "ParentComponent": "string",
  "PrimaryHost": "string",
  "Resilience": {
    "ClusterStatus": "string",
    "EnqueueReplication": boolean,
    "HsrOperationMode": "string",
    "HsrReplicationMode": "string",
    "HsrTier": "string"
  },
  "SapFeature": "string",
  "SapHostname": "string",
  "SapKernelVersion": "string",
  "Sid": "string",
  "Status": "string",
  "SystemNumber": "string"
},
"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.

### Component

The component of an application registered with AWS Systems Manager for SAP.

Type: [Component](#) object

### Tags

The tags of a component.

Type: String to string map

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

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred.

HTTP Status Code: 500

### UnauthorizedException

The request is not authorized.

HTTP Status Code: 401

### ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)
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- [AWS SDK for PHP V3](#)
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- [AWS SDK for Ruby V3](#)



# GetConfigurationCheckOperation

Gets the details of a configuration check operation by specifying the operation ID.

## Request Syntax

```
POST /get-configuration-check-operation HTTP/1.1
Content-type: application/json
```

```
{
  "OperationId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### OperationId

The ID of the configuration check operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]]?`

Required: Yes

## Response Syntax

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

```
{
  "ConfigurationCheckOperation": {
    "ApplicationId": "string",
    "ConfigurationCheckDescription": "string",
    "ConfigurationCheckId": "string",
```

```
"ConfigurationCheckName": "string",
"EndTime": number,
"Id": "string",
"RuleStatusCounts": {
  "Failed": number,
  "Info": number,
  "Passed": number,
  "Unknown": number,
  "Warning": number
},
"StartTime": number,
"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.

### [ConfigurationCheckOperation](#)

Returns the details of a configuration check operation.

Type: [ConfigurationCheckOperation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerError

An internal error has occurred.

HTTP Status Code: 500

### ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# GetDatabase

Gets the SAP HANA database of an application registered with AWS Systems Manager for SAP.

## Request Syntax

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

```
{
  "ApplicationId": "string",
  "ComponentId": "string",
  "DatabaseArn": "string",
  "DatabaseId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: No

### ComponentId

The ID of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[\w\d-]+`

Required: No

### DatabaseArn

The Amazon Resource Name (ARN) of the database.

Type: String

Pattern: `arn:(.+){2,4}.$|^arn:(.+){1,3}.\./.$`

Required: No

### DatabaseId

The ID of the database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `.*[\w\d]+`

Required: No

## Response Syntax

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

{
  "Database": {
    "ApplicationId": "string",
    "Arn": "string",
    "ComponentId": "string",
    "ConnectedComponentArns": [ "string" ],
    "Credentials": [
      {
        "CredentialType": "string",
        "DatabaseName": "string",
        "SecretId": "string"
      }
    ],
  },
}
```

```
"DatabaseId": "string",
"DatabaseName": "string",
"DatabaseType": "string",
"LastUpdated": number,
"PrimaryHost": "string",
"SQLPort": number,
"Status": "string"
},
"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.

### Database

The SAP HANA database of an application registered with AWS Systems Manager for SAP.

Type: [Database](#) object

### Tags

The tags of a database.

Type: String to string map

Key Pattern: (?!aws:)[a-zA-Z+-.\_:/>+]

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# GetOperation

Gets the details of an operation by specifying the operation ID.

## Request Syntax

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

{
  "OperationId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### OperationId

The ID of the operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]`?

Required: Yes

## Response Syntax

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

{
  "Operation": {
    "EndTime": number,
```

```
"Id": "string",
"LastUpdatedTime": number,
"Properties": {
  "string" : "string"
},
"ResourceArn": "string",
"ResourceId": "string",
"ResourceType": "string",
"StartTime": number,
"Status": "string",
"StatusMessage": "string",
"Type": "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.

### Operation

Returns the details of an operation.

Type: [Operation](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# GetResourcePermission

Gets permissions associated with the target database.

## Request Syntax

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

```
{
  "ActionType": "string",
  "ResourceArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ActionType

Type: String

Valid Values: RESTORE

Required: No

### ResourceArn

The Amazon Resource Name (ARN) of the resource.

Type: String

Pattern: `arn:(.+){2,4}.$|^arn:(.+){1,3}.\./.+`

Required: Yes

## Response Syntax

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

{
  "Policy": "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.

### Policy

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerErrorException**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# ListApplications

Lists all the applications registered with AWS Systems Manager for SAP.

## Request Syntax

```
POST /list-applications HTTP/1.1
Content-type: application/json
```

```
{
  "Filters": [
    {
      "Name": "string",
      "Operator": "string",
      "Value": "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

The filter of name, value, and operator.

Type: Array of [Filter](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned nextToken value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

### NextToken

The token for the next page of results.

Type: String

Pattern: .{16,2048}

Required: No

## Response Syntax

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

{
  "Applications": [
    {
      "Arn": "string",
      "DiscoveryStatus": "string",
      "Id": "string",
      "Tags": {
        "string" : "string"
      },
      "Type": "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.

## Applications

The applications registered with AWS Systems Manager for SAP.

Type: Array of [ApplicationSummary](#) objects

## NextToken

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: `.{16,2048}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerErrorException**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# ListComponents

Lists all the components registered with AWS Systems Manager for SAP.

## Request Syntax

```
POST /list-components HTTP/1.1
Content-type: application/json
```

```
{
  "ApplicationId": "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.

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: No

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

If you do not specify a value for `MaxResults`, the request returns 50 items per page by default.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

### NextToken

The token for the next page of results.

Type: String

Pattern: .{16,2048}

Required: No

## Response Syntax

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

{
  "Components": [
    {
      "ApplicationId": "string",
      "Arn": "string",
      "ComponentId": "string",
      "ComponentType": "string",
      "Tags": {
        "string" : "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.

### Components

List of components registered with AWS System Manager for SAP.

Type: Array of [ComponentSummary](#) objects

### [NextToken](#)

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: . {16,2048}

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **UnauthorizedException**

The request is not authorized.

HTTP Status Code: 401

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# ListConfigurationCheckDefinitions

Lists all configuration check types supported by AWS Systems Manager for SAP.

## Request Syntax

```
POST /list-configuration-check-definitions HTTP/1.1
Content-type: application/json

{
  "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.

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned nextToken value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

### NextToken

The token for the next page of results.

Type: String

Pattern: .{16,2048}

Required: No

## Response Syntax

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

{
  "ConfigurationChecks": [
    {
      "ApplicableApplicationTypes": [ "string" ],
      "Description": "string",
      "Id": "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.

### ConfigurationChecks

The configuration check types supported by AWS Systems Manager for SAP.

Type: Array of [ConfigurationCheckDefinition](#) objects

### NextToken

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: `.{16,2048}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## InternalServerErrorException

An internal error has occurred.

HTTP Status Code: 500

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# ListConfigurationCheckOperations

Lists the configuration check operations performed by AWS Systems Manager for SAP.

## Request Syntax

```
POST /list-configuration-check-operations HTTP/1.1
Content-type: application/json
```

```
{
  "ApplicationId": "string",
  "Filters": [
    {
      "Name": "string",
      "Operator": "string",
      "Value": "string"
    }
  ],
  "ListMode": "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.

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: Yes

## Filters

The filters of an operation.

Type: Array of [Filter](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

## ListMode

The mode for listing configuration check operations. Defaults to "LATEST\_PER\_CHECK".

- LATEST\_PER\_CHECK - Will list the latest configuration check operation per check type.
- ALL\_OPERATIONS - Will list all configuration check operations performed on the application.

Type: String

Valid Values: ALL\_OPERATIONS | LATEST\_PER\_CHECK

Required: No

## MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned nextToken value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

## NextToken

The token for the next page of results.

Type: String

Pattern: . {16,2048}

Required: No

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "ConfigurationCheckOperations": [
    {
      "ApplicationId": "string",
      "ConfigurationCheckDescription": "string",
      "ConfigurationCheckId": "string",
      "ConfigurationCheckName": "string",
      "EndTime": number,
      "Id": "string",
      "RuleStatusCounts": {
        "Failed": number,
        "Info": number,
        "Passed": number,
        "Unknown": number,
        "Warning": number
      },
      "StartTime": number,
      "Status": "string",
      "StatusMessage": "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.

### ConfigurationCheckOperations

The configuration check operations performed by AWS Systems Manager for SAP.

Type: Array of [ConfigurationCheckOperation](#) objects

### NextToken

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: `. {16,2048}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerErrorException

An internal error has occurred.

HTTP Status Code: 500

### ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

### ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)



# ListDatabases

Lists the SAP HANA databases of an application registered with AWS Systems Manager for SAP.

## Request Syntax

```
POST /list-databases HTTP/1.1
Content-type: application/json
```

```
{
  "ApplicationId": "string",
  "ComponentId": "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.

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: No

### ComponentId

The ID of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[\w\d-]+`

Required: No

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value. If you do not specify a value for `MaxResults`, the request returns 50 items per page by default.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

### NextToken

The token for the next page of results.

Type: String

Pattern: `.{16,2048}`

Required: No

## Response Syntax

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

{
  "Databases": [
    {
      "ApplicationId": "string",
      "Arn": "string",
      "ComponentId": "string",
      "DatabaseId": "string",
      "DatabaseType": "string",
      "Tags": {
        "string" : "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.

### Databases

The SAP HANA databases of an application.

Type: Array of [DatabaseSummary](#) objects

### NextToken

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: . {16,2048}

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# ListOperationEvents

Returns a list of operations events.

Available parameters include `OperationID`, as well as optional parameters `MaxResults`, `NextToken`, and `Filters`.

## Request Syntax

```
POST /list-operation-events HTTP/1.1
Content-type: application/json

{
  "Filters": [
    {
      "Name": "string",
      "Operator": "string",
      "Value": "string"
    }
  ],
  "MaxResults": number,
  "NextToken": "string",
  "OperationId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### Filters

Optionally specify filters to narrow the returned operation event items.

Valid filter names include `status`, `resourceID`, and `resourceType`. The valid operator for all three filters is `Equals`.

Type: Array of [Filter](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

If you do not specify a value for `MaxResults`, the request returns 50 items per page by default.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

### NextToken

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: `.{16,2048}`

Required: No

### OperationId

The ID of the operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[{}]?`

Required: Yes

## Response Syntax

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

{
```

```
"NextToken": "string",
"OperationEvents": [
  {
    "Description": "string",
    "Resource": {
      "ResourceArn": "string",
      "ResourceType": "string"
    },
    "Status": "string",
    "StatusMessage": "string",
    "Timestamp": 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.

### NextToken

The token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: `.{16,2048}`

### OperationEvents

A returned list of operation events that meet the filter criteria.

Type: Array of [OperationEvent](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# ListOperations

Lists the operations performed by AWS Systems Manager for SAP.

## Request Syntax

```
POST /list-operations HTTP/1.1
Content-type: application/json

{
  "ApplicationId": "string",
  "Filters": [
    {
      "Name": "string",
      "Operator": "string",
      "Value": "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.

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: Yes

## Filters

The filters of an operation.

Type: Array of [Filter](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

## MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned nextToken value. If you do not specify a value for MaxResults, the request returns 50 items per page by default.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

## NextToken

The token for the next page of results.

Type: String

Pattern: .{16,2048}

Required: No

## Response Syntax

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

```
{
  "NextToken": "string",
  "Operations": [
    {
      "EndTime": number,
      "Id": "string",
```

```
    "LastUpdatedTime": number,
    "Properties": {
      "string" : "string"
    },
    "ResourceArn": "string",
    "ResourceId": "string",
    "ResourceType": "string",
    "StartTime": number,
    "Status": "string",
    "StatusMessage": "string",
    "Type": "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 token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: `.{16,2048}`

### Operations

List of operations performed by AWS Systems Manager for SAP.

Type: Array of [Operation](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# ListSubCheckResults

Lists the sub-check results of a specified configuration check operation.

## Request Syntax

```
POST /list-sub-check-results HTTP/1.1
Content-type: application/json
```

```
{
  "MaxResults": number,
  "NextToken": "string",
  "OperationId": "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 with a single call. To retrieve the remaining results, make another call with the returned nextToken value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

### NextToken

The token for the next page of results.

Type: String

Pattern: . {16,2048}

Required: No

## OperationId

The ID of the configuration check operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]]?`

Required: Yes

## Response Syntax

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

{
  "NextToken": "string",
  "SubCheckResults": [
    {
      "Description": "string",
      "Id": "string",
      "Name": "string",
      "References": [ "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 token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: `.{16,2048}`

## [SubCheckResults](#)

The sub-check results of a configuration check operation.

Type: Array of [SubCheckResult](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerError

An internal error has occurred.

HTTP Status Code: 500

### ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# ListSubCheckRuleResults

Lists the rules of a specified sub-check belonging to a configuration check operation.

## Request Syntax

```
POST /list-sub-check-rule-results HTTP/1.1
Content-type: application/json
```

```
{
  "MaxResults": number,
  "NextToken": "string",
  "SubCheckResultId": "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 with a single call. To retrieve the remaining results, make another call with the returned nextToken value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

### NextToken

The token for the next page of results.

Type: String

Pattern: `.{16,2048}`

Required: No

### SubCheckResultId

The ID of the sub check result.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]]?`

Required: Yes

## Response Syntax

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

{
  "NextToken": "string",
  "RuleResults": [
    {
      "Description": "string",
      "Id": "string",
      "Message": "string",
      "Metadata": {
        "string" : "string"
      },
      "Status": "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 token to use to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Pattern: . {16,2048}

## RuleResults

The rule results of a sub-check belonging to a configuration check operation.

Type: Array of [RuleResult](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### InternalServerError

An internal error has occurred.

HTTP Status Code: 500

### ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# ListTagsForResource

Lists all tags on an SAP HANA application and/or database registered with AWS Systems Manager for SAP.

## Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the resource.

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\/.+`

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

Type: String to string map

Key Pattern: (?!aws:)[a-zA-Z+-.\_:/+]

Value Length Constraints: Minimum length of 1. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **ConflictException**

A conflict has occurred.

HTTP Status Code: 409

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# PutResourcePermission

Adds permissions to the target database.

## Request Syntax

```
POST /put-resource-permission HTTP/1.1
Content-type: application/json

{
  "ActionType": "string",
  "ResourceArn": "string",
  "SourceResourceArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ActionType

Type: String

Valid Values: RESTORE

Required: Yes

### ResourceArn

Type: String

Pattern: arn:(.+){2,4}.\*\$|^arn:(.+){1,3}.\*\./.\*

Required: Yes

### SourceResourceArn

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: Yes

## Response Syntax

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

{
  "Policy": "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.

### Policy

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerErrorException**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# RegisterApplication

Register an SAP application with AWS Systems Manager for SAP. You must meet the following requirements before registering.

The SAP application you want to register with AWS Systems Manager for SAP is running on Amazon EC2.

AWS Systems Manager Agent must be setup on an Amazon EC2 instance along with the required IAM permissions.

Amazon EC2 instance(s) must have access to the secrets created in AWS Secrets Manager to manage SAP applications and components.

## Request Syntax

```
POST /register-application HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "ApplicationId": "string",
  "ApplicationType": "string",
  "ComponentsInfo": [
    {
      "ComponentType": "string",
      "Ec2InstanceId": "string",
      "Sid": "string"
    }
  ],
  "Credentials": [
    {
      "CredentialType": "string",
      "DatabaseName": "string",
      "SecretId": "string"
    }
  ],
  "DatabaseArn": "string",
  "Instances": [ "string" ],
  "SapInstanceNumber": "string",
  "Sid": "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.

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: Yes

### ApplicationType

The type of the application.

Type: String

Valid Values: HANA | SAP\_ABAP

Required: Yes

### ComponentsInfo

This is an optional parameter for component details to which the SAP ABAP application is attached, such as Web Dispatcher.

This is an array of `ApplicationComponent` objects. You may input 0 to 5 items.

Type: Array of [ComponentInfo](#) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

### Credentials

The credentials of the SAP application.

Type: Array of [ApplicationCredential](#) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

### DatabaseArn

The Amazon Resource Name of the SAP HANA database.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

### Instances

The Amazon EC2 instances on which your SAP application is running.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `i-[\w\d]{8}$|^i-[\w\d]{17}`

Required: Yes

### SapInstanceNumber

The SAP instance number of the application.

Type: String

Pattern: `[0-9]{2}`

Required: No

### Sid

The System ID of the application.

Type: String

Pattern: [A-Z][A-Z0-9]{2}

Required: No

## Tags

The tags to be attached to the SAP application.

Type: String to string map

Key Pattern: (?!aws:)[a-zA-Z+-.\_: / ]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## Response Syntax

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

{
  "Application": {
    "AppRegistryArn": "string",
    "Arn": "string",
    "AssociatedApplicationArns": [ "string" ],
    "Components": [ "string" ],
    "DiscoveryStatus": "string",
    "Id": "string",
    "LastUpdated": number,
    "Status": "string",
    "StatusMessage": "string",
    "Type": "string"
  },
  "OperationId": "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.

### Application

The application registered with AWS Systems Manager for SAP.

Type: [Application](#) object

### OperationId

The ID of the operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]]?`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **ConflictException**

A conflict has occurred.

HTTP Status Code: 409

### **InternalServerErrorException**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# StartApplication

Request is an operation which starts an application.

Parameter `ApplicationId` is required.

## Request Syntax

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

{
  "ApplicationId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: Yes

## Response Syntax

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

```
{  
  "OperationId": "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.

### OperationId

The ID of the operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]]?`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **ConflictException**

A conflict has occurred.

HTTP Status Code: 409

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# StartApplicationRefresh

Refreshes a registered application.

## Request Syntax

```
POST /start-application-refresh HTTP/1.1
Content-type: application/json

{
  "ApplicationId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [ApplicationId](#)

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: Yes

## Response Syntax

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

{
  "OperationId": "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.

### OperationId

The ID of the operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]`?

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **ConflictException**

A conflict has occurred.

HTTP Status Code: 409

### **InternalServerError**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **UnauthorizedException**

The request is not authorized.

HTTP Status Code: 401

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# StartConfigurationChecks

Initiates configuration check operations against a specified application.

## Request Syntax

```
POST /start-configuration-checks HTTP/1.1
Content-type: application/json

{
  "ApplicationId": "string",
  "ConfigurationCheckIds": [ "string" ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: Yes

### ConfigurationCheckIds

The list of configuration checks to perform.

Type: Array of strings

Valid Values: `SAP_CHECK_01` | `SAP_CHECK_02` | `SAP_CHECK_03`

Required: No

## Response Syntax

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

{
  "ConfigurationCheckOperations": [
    {
      "ApplicationId": "string",
      "ConfigurationCheckDescription": "string",
      "ConfigurationCheckId": "string",
      "ConfigurationCheckName": "string",
      "EndTime": number,
      "Id": "string",
      "RuleStatusCounts": {
        "Failed": number,
        "Info": number,
        "Passed": number,
        "Unknown": number,
        "Warning": number
      },
      "StartTime": number,
      "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.

### ConfigurationCheckOperations

The configuration check operations that were started.

Type: Array of [ConfigurationCheckOperation](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### ConflictException

A conflict has occurred.

HTTP Status Code: 409

### InternalServerErrorException

An internal error has occurred.

HTTP Status Code: 500

### ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

### ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# StopApplication

Request is an operation to stop an application.

Parameter `ApplicationId` is required. Parameters `StopConnectedEntity` and `IncludeEc2InstanceShutdown` are optional.

## Request Syntax

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

{
  "ApplicationId": "string",
  "IncludeEc2InstanceShutdown": boolean,
  "StopConnectedEntity": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: Yes

### IncludeEc2InstanceShutdown

Boolean. If included and if set to `True`, the `StopApplication` operation will shut down the associated Amazon EC2 instance in addition to the application.

Type: Boolean

Required: No

### StopConnectedEntity

Specify the `ConnectedEntityType`. Accepted type is DBMS.

If this parameter is included, the connected DBMS (Database Management System) will be stopped.

Type: String

Valid Values: DBMS

Required: No

## Response Syntax

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

{
  "OperationId": "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.

### OperationId

The ID of the operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[])?`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## ConflictException

A conflict has occurred.

HTTP Status Code: 409

## InternalServerErrorException

An internal error has occurred.

HTTP Status Code: 500

## ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

## ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# TagResource

Creates tag for a resource by specifying the ARN.

## 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 Amazon Resource Name (ARN) of the resource.

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

The tags on a resource.

Type: String to string map

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

Value Length Constraints: Minimum length of 1. 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 Error Types](#).

### ConflictException

A conflict has occurred.

HTTP Status Code: 409

### ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

### ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# UntagResource

Delete the tags for a resource.

## Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [resourceArn](#)

The Amazon Resource Name (ARN) of the resource.

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: Yes

### [tagKeys](#)

Adds/updates or removes credentials for applications registered with AWS Systems Manager for SAP.

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 Error Types](#).

### ConflictException

A conflict has occurred.

HTTP Status Code: 409

### ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

### ValidationException

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# UpdateApplicationSettings

Updates the settings of an application registered with AWS Systems Manager for SAP.

## Request Syntax

```
POST /update-application-settings HTTP/1.1
Content-type: application/json
```

```
{
  "ApplicationId": "string",
  "Backint": {
    "BackintMode": "string",
    "EnsureNoBackupInProgress": boolean
  },
  "CredentialsToAddOrUpdate": [
    {
      "CredentialType": "string",
      "DatabaseName": "string",
      "SecretId": "string"
    }
  ],
  "CredentialsToRemove": [
    {
      "CredentialType": "string",
      "DatabaseName": "string",
      "SecretId": "string"
    }
  ],
  "DatabaseArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

## ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: Yes

## Backint

Installation of AWS Backint Agent for SAP HANA.

Type: [BackintConfig](#) object

Required: No

## CredentialsToAddOrUpdate

The credentials to be added or updated.

Type: Array of [ApplicationCredential](#) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

## CredentialsToRemove

The credentials to be removed.

Type: Array of [ApplicationCredential](#) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

## DatabaseArn

The Amazon Resource Name of the SAP HANA database that replaces the current SAP HANA connection with the SAP\_ABAP application.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

## Response Syntax

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

{
  "Message": "string",
  "OperationIds": [ "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.

### Message

The update message.

Type: String

### OperationIds

The IDs of the operations.

Type: Array of strings

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[{}]?`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **ConflictException**

A conflict has occurred.

HTTP Status Code: 409

### **InternalServerErrorException**

An internal error has occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource is not available.

HTTP Status Code: 404

### **UnauthorizedException**

The request is not authorized.

HTTP Status Code: 401

### **ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

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](#)

# Data Types

The AWS Systems Manager for SAP API contains several data types that 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.

The following data types are supported:

- [Application](#)
- [ApplicationCredential](#)
- [ApplicationSummary](#)
- [AssociatedHost](#)
- [BackintConfig](#)
- [Component](#)
- [ComponentInfo](#)
- [ComponentSummary](#)
- [ConfigurationCheckDefinition](#)
- [ConfigurationCheckOperation](#)
- [Database](#)
- [DatabaseConnection](#)
- [DatabaseSummary](#)
- [Filter](#)
- [Host](#)
- [IpAddressMember](#)
- [Operation](#)
- [OperationEvent](#)
- [Resilience](#)
- [Resource](#)

- [RuleResult](#)
- [RuleStatusCounts](#)
- [SubCheckResult](#)

# Application

An SAP application registered with AWS Systems Manager for SAP.

## Contents

### AppRegistryArn

The Amazon Resource Name (ARN) of the Application Registry.

Type: String

Pattern: `arn:aws:servicecatalog:[a-z0-9:\-]+`

Required: No

### Arn

The Amazon Resource Name (ARN) of the application.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

### AssociatedApplicationArns

The Amazon Resource Names of the associated AWS Systems Manager for SAP applications.

Type: Array of strings

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

### Components

The components of the application.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[\w\d-]+`

Required: No

### **DiscoveryStatus**

The latest discovery result for the application.

Type: String

Valid Values: SUCCESS | REGISTRATION\_FAILED | REFRESH\_FAILED | REGISTERING | DELETING

Required: No

### **Id**

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: No

### **LastUpdated**

The time at which the application was last updated.

Type: Timestamp

Required: No

### **Status**

The status of the application.

Type: String

Valid Values: ACTIVATED | STARTING | STOPPED | STOPPING | FAILED | REGISTERING | DELETING | UNKNOWN

Required: No

### **StatusMessage**

The status message.

Type: String

Required: No

## Type

The type of the application.

Type: String

Valid Values: HANA | SAP\_ABAP

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ApplicationCredential

The credentials of your SAP application.

## Contents

### CredentialType

The type of the application credentials.

Type: String

Valid Values: ADMIN

Required: Yes

### DatabaseName

The name of the SAP HANA database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: Yes

### SecretId

The secret ID created in AWS Secrets Manager to store the credentials of the SAP application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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](#)

# ApplicationSummary

The summary of the SAP application registered with AWS Systems Manager for SAP.

## Contents

### Arn

The Amazon Resource Name (ARN) of the application.

Type: String

Pattern: `arn:(.+){2,4}.*$|^arn:(.+){1,3}.*\./.*`

Required: No

### DiscoveryStatus

The status of the latest discovery.

Type: String

Valid Values: SUCCESS | REGISTRATION\_FAILED | REFRESH\_FAILED | REGISTERING | DELETING

Required: No

### Id

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: No

### Tags

The tags on the application.

Type: String to string map

Key Pattern: (?!aws:)[a-zA-Z+-.\_: /]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## Type

The type of the application.

Type: String

Valid Values: HANA | SAP\_ABAP

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AssociatedHost

Describes the properties of the associated host.

## Contents

### Ec2InstanceId

The ID of the Amazon EC2 instance.

Type: String

Required: No

### Hostname

The name of the host.

Type: String

Required: No

### IpAddresses

The IP addresses of the associated host.

Type: Array of [IpAddressMember](#) objects

Required: No

### OsVersion

The version of the operating system.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# BackintConfig

Configuration parameters for AWS Backint Agent for SAP HANA. You can backup your SAP HANA database with AWS Backup or Amazon S3.

## Contents

### BackintMode

AWS service for your database backup.

Type: String

Valid Values: AWSBackup

Required: Yes

### EnsureNoBackupInProgress

Type: Boolean

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](#)

# Component

The SAP component of your application.

## Contents

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: No

### Arn

The Amazon Resource Name (ARN) of the component.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

### AssociatedHost

The associated host of the component.

Type: [AssociatedHost](#) object

Required: No

### ChildComponents

The child components of a highly available environment. For example, in a highly available SAP on AWS workload, the child component consists of the primary and secondary instances.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[\w\d-]+`

Required: No

### **ComponentId**

The ID of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[\w\d-]+`

Required: No

### **ComponentType**

The type of the component.

Type: String

Valid Values: HANA | HANA\_NODE | ABAP | ASCS | DIALOG | WEBDISP | WD | ERS

Required: No

### **DatabaseConnection**

The connection specifications for the database of the component.

Type: [DatabaseConnection](#) object

Required: No

### **Databases**

The SAP HANA databases of the component.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `.*[\w\d]+`

Required: No

## HdbVersion

The SAP HANA version of the component.

Type: String

Required: No

## Hosts

*This member has been deprecated.*

The hosts of the component.

Type: Array of [Host](#) objects

Required: No

## LastUpdated

The time at which the component was last updated.

Type: Timestamp

Required: No

## ParentComponent

The parent component of a highly available environment. For example, in a highly available SAP on AWS workload, the parent component consists of the entire setup, including the child components.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[\w\d-]+`

Required: No

## PrimaryHost

*This member has been deprecated.*

The primary host of the component.

Type: String

Required: No

## Resilience

Details of the SAP HANA system replication for the component.

Type: [Resilience](#) object

Required: No

## SapFeature

The SAP feature of the component.

Type: String

Required: No

## SapHostname

The hostname of the component.

Type: String

Required: No

## SapKernelVersion

The kernel version of the component.

Type: String

Required: No

## Sid

The SAP System Identifier of the application component.

Type: String

Pattern: `[A-Z][A-Z0-9]{2}`

Required: No

## Status

The status of the component.

- **ACTIVATED** - this status has been deprecated.
- **STARTING** - the component is in the process of being started.
- **STOPPED** - the component is not running.
- **STOPPING** - the component is in the process of being stopped.
- **RUNNING** - the component is running.
- **RUNNING\_WITH\_ERROR** - one or more child component(s) of the parent component is not running. Call [GetComponent](#) to review the status of each child component.
- **UNDEFINED** - AWS Systems Manager for SAP cannot provide the component status based on the discovered information. Verify your SAP application.

Type: String

Valid Values: ACTIVATED | STARTING | STOPPED | STOPPING | RUNNING | RUNNING\_WITH\_ERROR | UNDEFINED

Required: No

## SystemNumber

The SAP system number of the application component.

Type: String

Pattern: [0-9]{2}

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ComponentInfo

This is information about the component of your SAP application, such as Web Dispatcher.

## Contents

### ComponentType

This string is the type of the component.

Accepted value is WD.

Type: String

Valid Values: HANA | HANA\_NODE | ABAP | ASCS | DIALOG | WEBDISP | WD | ERS

Required: Yes

### Ec2InstanceId

This is the Amazon EC2 instance on which your SAP component is running.

Accepted values are alphanumeric.

Type: String

Pattern: `i-[\w\d]{8}$|^i-[\w\d]{17}`

Required: Yes

### Sid

This string is the SAP System ID of the component.

Accepted values are alphanumeric.

Type: String

Pattern: `[A-Z][A-Z0-9]{2}`

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](#)

# ComponentSummary

The summary of the component.

## Contents

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: No

### Arn

The Amazon Resource Name (ARN) of the component summary.

Type: String

Pattern: `arn:(.+){2,4}.*$|^arn:(.+){1,3}.*\./.*`

Required: No

### ComponentId

The ID of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[\w\d-]+`

Required: No

### ComponentType

The type of the component.

Type: String

Valid Values: HANA | HANA\_NODE | ABAP | ASCS | DIALOG | WEBDISP | WD | ERS

Required: No

## Tags

The tags of the component.

Type: String to string map

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

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfigurationCheckDefinition

Represents a configuration check definition supported by AWS Systems Manager for SAP.

## Contents

### ApplicableApplicationTypes

The list of SSMSAP application types that this configuration check can be evaluated against.

Type: Array of strings

Valid Values: HANA | SAP\_ABAP

Required: No

### Description

A description of what the configuration check validates.

Type: String

Required: No

### Id

The unique identifier of the configuration check.

Type: String

Valid Values: SAP\_CHECK\_01 | SAP\_CHECK\_02 | SAP\_CHECK\_03

Required: No

### Name

The name of the configuration check.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfigurationCheckOperation

Represents a configuration check operation that has been executed against an application.

## Contents

### ApplicationId

The ID of the application against which the configuration check was performed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: No

### ConfigurationCheckDescription

A description of the configuration check that was performed.

Type: String

Required: No

### ConfigurationCheckId

The unique identifier of the configuration check that was performed.

Type: String

Valid Values: `SAP_CHECK_01` | `SAP_CHECK_02` | `SAP_CHECK_03`

Required: No

### ConfigurationCheckName

The name of the configuration check that was performed.

Type: String

Required: No

### EndTime

The time at which the configuration check operation completed.

Type: Timestamp

Required: No

## Id

The unique identifier of the configuration check operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]]?`

Required: No

## RuleStatusCounts

A summary of all the rule results, showing counts for each status type.

Type: [RuleStatusCounts](#) object

Required: No

## StartTime

The time at which the configuration check operation started.

Type: Timestamp

Required: No

## Status

The current status of the configuration check operation.

Type: String

Valid Values: INPROGRESS | SUCCESS | ERROR

Required: No

## StatusMessage

A message providing additional details about the status of the configuration check operation.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Database

The SAP HANA database of the application registered with AWS Systems Manager for SAP.

## Contents

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: No

### Arn

The Amazon Resource Name (ARN) of the database.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

### ComponentId

The ID of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[\w\d-]+`

Required: No

### ConnectedComponentArns

The Amazon Resource Names of the connected AWS Systems Manager for SAP components.

Type: Array of strings

Pattern: `arn:(.+){2,4}.$|^arn:(.+){1,3}.\|/.$`

Required: No

### Credentials

The credentials of the database.

Type: Array of [ApplicationCredential](#) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

### DatabaseId

The ID of the SAP HANA database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `.*[\w\d]+`

Required: No

### DatabaseName

The name of the database.

Type: String

Required: No

### DatabaseType

The type of the database.

Type: String

Valid Values: SYSTEM | TENANT

Required: No

### LastUpdated

The time at which the database was last updated.

Type: Timestamp

Required: No

### **PrimaryHost**

The primary host of the database.

Type: String

Required: No

### **SQLPort**

The SQL port of the database.

Type: Integer

Required: No

### **Status**

The status of the database.

Type: String

Valid Values: RUNNING | STARTING | STOPPED | WARNING | UNKNOWN | ERROR

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DatabaseConnection

The connection specifications for the database.

## Contents

### ConnectionIp

The IP address for connection.

Type: String

Required: No

### DatabaseArn

The Amazon Resource Name of the connected SAP HANA database.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\./.*`

Required: No

### DatabaseConnectionMethod

The method of connection.

Type: String

Valid Values: DIRECT | OVERLAY

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# DatabaseSummary

The summary of the database.

## Contents

### ApplicationId

The ID of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `[\w\d\.-]+`

Required: No

### Arn

The Amazon Resource Name (ARN) of the database.

Type: String

Pattern: `arn:(.+:){2,4}.*$|^arn:(.+:){1,3}.*\/.+`

Required: No

### ComponentId

The ID of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[\w\d-]+`

Required: No

### DatabaseId

The ID of the database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `.*[\w\d]+`

Required: No

## DatabaseType

The type of the database.

Type: String

Valid Values: SYSTEM | TENANT

Required: No

## Tags

The tags of the database.

Type: String to string map

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

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Filter

A specific result obtained by specifying the name, value, and operator.

## Contents

### Name

The name of the filter. Filter names are case-sensitive.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: Yes

### Operator

The operator for the filter.

Type: String

Valid Values: `Equals` | `GreaterThanOrEquals` | `LessThanOrEquals`

Required: Yes

### Value

The filter values. Filter values are case-sensitive. If you specify multiple values for a filter, the values are joined with an OR, and the request returns all results that match any of the specified values

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

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](#)

# Host

Describes the properties of the Dedicated Host.

## Contents

### EC2Instanceid

The ID of Amazon EC2 instance.

Type: String

Required: No

### HostIp

The IP address of the Dedicated Host.

Type: String

Required: No

### HostName

The name of the Dedicated Host.

Type: String

Required: No

### HostRole

The role of the Dedicated Host.

Type: String

Valid Values: LEADER | WORKER | STANDBY | UNKNOWN

Required: No

### Instanceid

The instance ID of the instance on the Dedicated Host.

Type: String

Required: No

## OsVersion

The version of the operating system.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# IpAddressMember

Provides information of the IP address.

## Contents

### AllocationType

The type of allocation for the IP address.

Type: String

Valid Values: VPC\_SUBNET | ELASTIC\_IP | OVERLAY | UNKNOWN

Required: No

### IpAddress

The IP address.

Type: String

Required: No

### Primary

The primary IP address.

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](#)

# Operation

The operations performed by AWS Systems Manager for SAP.

## Contents

### EndTime

The end time of the operation.

Type: Timestamp

Required: No

### Id

The ID of the operation.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]]?`

Required: No

### LastUpdatedTime

The time at which the operation was last updated.

Type: Timestamp

Required: No

### Properties

The properties of the operation.

Type: String to string map

Required: No

### ResourceArn

The Amazon Resource Name (ARN) of the operation.

Type: String

Pattern: `arn:(.+){2,4}.$|^arn:(.+){1,3}.\|\./.+`

Required: No

### **ResourceId**

The resource ID of the operation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

### **ResourceType**

The resource type of the operation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

### **StartTime**

The start time of the operation.

Type: Timestamp

Required: No

### **Status**

The status of the operation.

Type: String

Valid Values: INPROGRESS | SUCCESS | ERROR

Required: No

### **StatusMessage**

The status message of the operation.

Type: String

Required: No

## Type

The type of the operation.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OperationEvent

An operation event returns details for an operation, including key milestones which can be used to monitor and track operations in progress.

Operation events contain:

- Description string
- Resource, including its ARN and type
- Status
- StatusMessage string
- TimeStamp

Operation event examples include StartApplication or StopApplication.

## Contents

### Description

A description of the operation event. For example, "Stop the EC2 instance i-abcdefgh987654321".

Type: String

Required: No

### Resource

The resource involved in the operations event.

Contains ResourceArn ARN and ResourceType.

Type: [Resource](#) object

Required: No

### Status

The status of the operation event. The possible statuses are: IN\_PROGRESS, COMPLETED, and FAILED.

Type: String

Valid Values: IN\_PROGRESS | COMPLETED | FAILED

Required: No

### **StatusMessage**

The status message relating to a specific operation event.

Type: String

Required: No

### **Timestamp**

The timestamp of the specified operation event.

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](#)

# Resilience

Details of the SAP HANA system replication for the instance.

## Contents

### ClusterStatus

The cluster status of the component.

Type: String

Valid Values: ONLINE | STANDBY | MAINTENANCE | OFFLINE | NONE

Required: No

### EnqueueReplication

Indicates if or not enqueue replication is enabled for the ASCS component.

Type: Boolean

Required: No

### HsrOperationMode

The operation mode of the component.

Type: String

Valid Values: PRIMARY | LOGREPLAY | DELTA\_DATASHIPPING | LOGREPLAY\_READACCESS | NONE

Required: No

### HsrReplicationMode

The replication mode of the component.

Type: String

Valid Values: PRIMARY | NONE | SYNC | SYNCMEM | ASYNC

Required: No

## HsrTier

The tier of the component.

Type: String

Required: No

## See Also

For more information about using this API in 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

The resource contains a `ResourceArn` and the `ResourceType`.

## Contents

### ResourceArn

The Amazon Resource Name (ARN) of the source resource.

Example of `ResourceArn`: "arn:aws:ec2:us-east-1:111111111111:instance/i-abcdefgh987654321"

Type: String

Pattern: `arn:(.+){2,4}.+|^arn:(.+){1,3}.+\/.+`

Required: No

### ResourceType

The resource type.

Example of `ResourceType`: "AWS::SystemsManagerSAP::Component" or "AWS::EC2::Instance".

Type: String

Pattern: `[\w]+::[\w]+::[\w]+`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RuleResult

Represents the result of a single rule within a configuration check.

## Contents

### Description

A description of what the rule validates.

Type: String

Required: No

### Id

The unique identifier of the rule result.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]]?`

Required: No

### Message

A message providing details about the rule result.

Type: String

Required: No

### Metadata

Additional metadata associated with the rule result.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Value Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

## Status

The status of the rule result.

Type: String

Valid Values: PASSED | FAILED | WARNING | INFO | UNKNOWN

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RuleStatusCounts

A summary of rule results, providing counts for each status type.

## Contents

### Failed

The number of rules that failed.

Type: Integer

Required: No

### Info

The number of rules that returned informational results.

Type: Integer

Required: No

### Passed

The number of rules that passed.

Type: Integer

Required: No

### Unknown

The number of rules with unknown status.

Type: Integer

Required: No

### Warning

The number of rules that returned warnings.

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](#)

# SubCheckResult

Represents the result of a sub-check within a configuration check operation.

## Contents

### Description

A description of what the sub-check validates.

Type: String

Required: No

### Id

The unique identifier of the sub-check result.

Type: String

Pattern: `[{}]?[0-9a-fA-F]{8}-([0-9a-fA-F]{4}-){3}[0-9a-fA-F]{12}[]]?`

Required: No

### Name

The name of the sub-check.

Type: String

Required: No

### References

A list of references or documentation links related to the sub-check.

Type: Array of strings

Required: No

## See Also

For more information about using this API in 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*.

## 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 Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

## AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

## ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

## IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

## InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

## MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

**NotAuthorized**

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

**OptInRequired**

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

**RequestAbortedException**

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

**RequestEntityTooLargeException**

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

**RequestTimeoutException**

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

**ServiceUnavailable**

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

**ThrottlingException**

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

**UnknownOperationException**

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

**UnrecognizedClientException**

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

**ValidationError**

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400