



AWS Shield Advanced API Reference

AWS Shield Advanced



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AWS Shield Advanced: AWS Shield Advanced API Reference

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Welcome

This is the *AWS Shield Advanced API Reference*. This guide is for developers who need detailed information about the AWS Shield Advanced API actions, data types, and errors. For detailed information about AWS WAF and AWS Shield Advanced features and an overview of how to use the AWS WAF and AWS Shield Advanced APIs, see the [AWS WAF and AWS Shield Developer Guide](#).

This document was last published on June 22, 2026.

Actions

The following actions are supported:

- [AssociateDRTLogBucket](#)
- [AssociateDRTRole](#)
- [AssociateHealthCheck](#)
- [AssociateProactiveEngagementDetails](#)
- [CreateProtection](#)
- [CreateProtectionGroup](#)
- [CreateSubscription](#)
- [DeleteProtection](#)
- [DeleteProtectionGroup](#)
- [DeleteSubscription](#)
- [DescribeAttack](#)
- [DescribeAttackStatistics](#)
- [DescribeDRTAccess](#)
- [DescribeEmergencyContactSettings](#)
- [DescribeProtection](#)
- [DescribeProtectionGroup](#)
- [DescribeSubscription](#)
- [DisableApplicationLayerAutomaticResponse](#)
- [DisableProactiveEngagement](#)
- [DisassociateDRTLogBucket](#)
- [DisassociateDRTRole](#)
- [DisassociateHealthCheck](#)
- [EnableApplicationLayerAutomaticResponse](#)
- [EnableProactiveEngagement](#)
- [GetSubscriptionState](#)
- [ListAttacks](#)
- [ListProtectionGroups](#)

- [ListProtections](#)
- [ListResourcesInProtectionGroup](#)
- [ListTagsForResource](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateApplicationLayerAutomaticResponse](#)
- [UpdateEmergencyContactSettings](#)
- [UpdateProtectionGroup](#)
- [UpdateSubscription](#)

AssociateDRTLogBucket

Authorizes the Shield Response Team (SRT) to access the specified Amazon S3 bucket containing log data such as Application Load Balancer access logs, CloudFront logs, or logs from third party sources. You can associate up to 10 Amazon S3 buckets with your subscription.

Use this to share information with the SRT that's not available in AWS WAF logs.

To use the services of the SRT, you must be subscribed to the [Business Support plan](#) or the [Enterprise Support plan](#).

Request Syntax

```
{  
  "LogBucket": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

[LogBucket](#)

The Amazon S3 bucket that contains the logs that you want to share.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `^([a-z]|(\d{0,2}\.\d{1,3}\.\d{1,3}\.\d{1,3}))|([a-z\d]|(\.?!(\.|-)))|(-?!\.))\{1,61}[a-z\d]$`

Required: Yes

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](#).

AccessDeniedForDependencyException

In order to grant the necessary access to the Shield Response Team (SRT) the user submitting the request must have the `iam:PassRole` permission. This error indicates the user did not have the appropriate permissions. For more information, see [Granting a User Permissions to Pass a Role to an AWS Service](#).

HTTP Status Code: 400

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidOperationException

Exception that indicates that the operation would not cause any change to occur.

HTTP Status Code: 400

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

LimitsExceededException

Exception that indicates that the operation would exceed a limit.

Limit

The threshold that would be exceeded.

Type

The type of limit that would be exceeded.

HTTP Status Code: 400

NoAssociatedRoleException

The ARN of the role that you specified does not exist.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

AssociateDRTRole

Authorizes the Shield Response Team (SRT) using the specified role, to access your AWS account to assist with DDoS attack mitigation during potential attacks. This enables the SRT to inspect your AWS WAF configuration and logs and to create or update AWS WAF rules and web ACLs.

You can associate only one RoleArn with your subscription. If you submit this update for an account that already has an associated role, the new RoleArn will replace the existing RoleArn.

This change requires the following:

- You must be subscribed to the [Business Support plan](#) or the [Enterprise Support plan](#).
- The AWSShieldDRTRoleAccessPolicy managed policy must be attached to the role that you specify in the request. You can access this policy in the IAM console at [AWSShieldDRTRoleAccessPolicy](#). For information, see [Adding and removing IAM identity permissions](#).
- The role must trust the service principal `drt.shield.amazonaws.com`. For information, see [IAM JSON policy elements: Principal](#).

The SRT will have access only to your AWS WAF and Shield resources. By submitting this request, you provide permissions to the SRT to inspect your AWS WAF and Shield configuration and logs, and to create and update AWS WAF rules and web ACLs on your behalf. The SRT takes these actions only if explicitly authorized by you.

Request Syntax

```
{  
  "RoleArn": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

[RoleArn](#)

The Amazon Resource Name (ARN) of the role the SRT will use to access your AWS account.

Prior to making the `AssociateDRTRole` request, you must attach the [AWSShieldDRTAccessPolicy](#) managed policy to this role. For more information see [Attaching and Detaching IAM Policies](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws:iam::\d{12}:role/?[a-zA-Z_0-9+=,.\@\-_/\]+`

Required: Yes

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](#).

AccessDeniedForDependencyException

In order to grant the necessary access to the Shield Response Team (SRT) the user submitting the request must have the `iam:PassRole` permission. This error indicates the user did not have the appropriate permissions. For more information, see [Granting a User Permissions to Pass a Role to an AWS Service](#).

HTTP Status Code: 400

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidOperationException

Exception that indicates that the operation would not cause any change to occur.

HTTP Status Code: 400

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

AssociateHealthCheck

Adds health-based detection to the Shield Advanced protection for a resource. Shield Advanced health-based detection uses the health of your AWS resource to improve responsiveness and accuracy in attack detection and response.

You define the health check in Route 53 and then associate it with your Shield Advanced protection. For more information, see [Configuring health-based detection using health checks](#) in the *AWS WAF Developer Guide* and [Creating, updating, and deleting health checks](#) in the *Amazon Route 53 Developer Guide*.

Request Syntax

```
{
  "HealthCheckArn": "string",
  "ProtectionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

HealthCheckArn

The Amazon Resource Name (ARN) of the health check to associate with the protection.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws:route53:::healthcheck/\S{36}$`

Required: Yes

ProtectionId

The unique identifier (ID) for the [Protection](#) object to add the health check association to.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [a-zA-Z0-9\\-]*

Required: Yes

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

InvalidResourceException

Exception that indicates that the resource is invalid. You might not have access to the resource, or the resource might not exist.

HTTP Status Code: 400

LimitsExceededException

Exception that indicates that the operation would exceed a limit.

Limit

The threshold that would be exceeded.

Type

The type of limit that would be exceeded.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

AssociateProactiveEngagementDetails

Initializes proactive engagement and sets the list of contacts for the Shield Response Team (SRT) to use. You must provide at least one phone number in the emergency contact list.

After you have initialized proactive engagement using this call, to disable or enable proactive engagement, use the calls `DisableProactiveEngagement` and `EnableProactiveEngagement`.

Note

This call defines the list of email addresses and phone numbers that the SRT can use to contact you for escalations to the SRT and to initiate proactive customer support. The contacts that you provide in the request replace any contacts that were already defined. If you already have contacts defined and want to use them, retrieve the list using `DescribeEmergencyContactSettings` and then provide it to this call.

Request Syntax

```
{
  "EmergencyContactList": [
    {
      "ContactNotes": "string",
      "EmailAddress": "string",
      "PhoneNumber": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

EmergencyContactList

A list of email addresses and phone numbers that the Shield Response Team (SRT) can use to contact you for escalations to the SRT and to initiate proactive customer support.

To enable proactive engagement, the contact list must include at least one phone number.

Note

The contacts that you provide here replace any contacts that were already defined. If you already have contacts defined and want to use them, retrieve the list using `DescribeEmergencyContactSettings` and then provide it here.

Type: Array of [EmergencyContact](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: Yes

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidOperationException

Exception that indicates that the operation would not cause any change to occur.

HTTP Status Code: 400

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

CreateProtection

Enables AWS Shield Advanced for a specific AWS resource. The resource can be an Amazon CloudFront distribution, Amazon Route 53 hosted zone, AWS Global Accelerator standard accelerator, Elastic IP Address, Application Load Balancer, or a Classic Load Balancer. You can protect Amazon EC2 instances and Network Load Balancers by association with protected Amazon EC2 Elastic IP addresses.

You can add protection to only a single resource with each CreateProtection request. You can add protection to multiple resources at once through the [Shield Advanced console](#). For more information see [Getting Started with AWS Shield Advanced](#) and [Managing resource protections in AWS Shield Advanced](#).

Request Syntax

```
{
  "Name": "string",
  "ResourceArn": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

Name

Friendly name for the Protection you are creating.

Type: String

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

Pattern: [a-zA-Z0-9_\\.\\-]*

Required: Yes

ResourceArn

The ARN (Amazon Resource Name) of the resource to be protected.

The ARN should be in one of the following formats:

- For an Application Load Balancer: `arn:aws:elasticloadbalancing:region:account-id:loadbalancer/app/load-balancer-name/load-balancer-id`
- For an Elastic Load Balancer (Classic Load Balancer):
`arn:aws:elasticloadbalancing:region:account-id:loadbalancer/load-balancer-name`
- For an Amazon CloudFront distribution: `arn:aws:cloudfront::account-id:distribution/distribution-id`
- For an AWS Global Accelerator standard accelerator:
`arn:aws:globalaccelerator::account-id:accelerator/accelerator-id`
- For Amazon Route 53: `arn:aws:route53::hostedzone/hosted-zone-id`
- For an Elastic IP address: `arn:aws:ec2:region:account-id:eip-allocation/allocation-id`

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Required: Yes

Tags

One or more tag key-value pairs for the [Protection](#) object that is created.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

Response Syntax

```
{
```

```
"ProtectionId": "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.

ProtectionId

The unique identifier (ID) for the [Protection](#) object that is created.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [a-zA-Z0-9\\-]*

Errors

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

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidOperationException

Exception that indicates that the operation would not cause any change to occur.

HTTP Status Code: 400

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

InvalidResourceException

Exception that indicates that the resource is invalid. You might not have access to the resource, or the resource might not exist.

HTTP Status Code: 400

LimitsExceededException

Exception that indicates that the operation would exceed a limit.

Limit

The threshold that would be exceeded.

Type

The type of limit that would be exceeded.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceAlreadyExistsException

Exception indicating the specified resource already exists. If available, this exception includes details in additional properties.

resourceType

The type of resource that already exists.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

CreateProtectionGroup

Creates a grouping of protected resources so they can be handled as a collective. This resource grouping improves the accuracy of detection and reduces false positives.

Request Syntax

```
{
  "Aggregation": "string",
  "Members": [ "string" ],
  "Pattern": "string",
  "ProtectionGroupId": "string",
  "ResourceType": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

Aggregation

Defines how AWS Shield combines resource data for the group in order to detect, mitigate, and report events.

- **Sum** - Use the total traffic across the group. This is a good choice for most cases. Examples include Elastic IP addresses for EC2 instances that scale manually or automatically.
- **Mean** - Use the average of the traffic across the group. This is a good choice for resources that share traffic uniformly. Examples include accelerators and load balancers.
- **Max** - Use the highest traffic from each resource. This is useful for resources that don't share traffic and for resources that share that traffic in a non-uniform way. Examples include Amazon CloudFront and origin resources for CloudFront distributions.

Type: String

Valid Values: SUM | MEAN | MAX

Required: Yes

Members

The Amazon Resource Names (ARNs) of the resources to include in the protection group. You must set this when you set `Pattern` to `ARBITRARY` and you must not set it for any other `Pattern` setting.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10000 items.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Required: No

Pattern

The criteria to use to choose the protected resources for inclusion in the group. You can include all resources that have protections, provide a list of resource Amazon Resource Names (ARNs), or include all resources of a specified resource type.

Type: String

Valid Values: ALL | ARBITRARY | BY_RESOURCE_TYPE

Required: Yes

ProtectionGroupId

The name of the protection group. You use this to identify the protection group in lists and to manage the protection group, for example to update, delete, or describe it.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `[a-zA-Z0-9\\-]*`

Required: Yes

ResourceType

The resource type to include in the protection group. All protected resources of this type are included in the protection group. Newly protected resources of this type are automatically added to the group. You must set this when you set `Pattern` to `BY_RESOURCE_TYPE` and you must not set it for any other `Pattern` setting.

Type: String

Valid Values: `CLOUDFRONT_DISTRIBUTION` | `ROUTE_53_HOSTED_ZONE`
| `ELASTIC_IP_ALLOCATION` | `CLASSIC_LOAD_BALANCER` |
`APPLICATION_LOAD_BALANCER` | `GLOBAL_ACCELERATOR`

Required: No

Tags

One or more tag key-value pairs for the protection group.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

LimitsExceededException

Exception that indicates that the operation would exceed a limit.

Limit

The threshold that would be exceeded.

Type

The type of limit that would be exceeded.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceAlreadyExistsException

Exception indicating the specified resource already exists. If available, this exception includes details in additional properties.

resourceType

The type of resource that already exists.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

CreateSubscription

Activates AWS Shield Advanced for an account.

Note

For accounts that are members of an AWS Organizations organization, Shield Advanced subscriptions are billed against the organization's payer account, regardless of whether the payer account itself is subscribed.

When you initially create a subscription, your subscription is set to be automatically renewed at the end of the existing subscription period. You can change this by submitting an `UpdateSubscription` request.

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

ResourceAlreadyExistsException

Exception indicating the specified resource already exists. If available, this exception includes details in additional properties.

resourceType

The type of resource that already exists.

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](#)

DeleteProtection

Deletes an AWS Shield Advanced [Protection](#).

Request Syntax

```
{  
  "ProtectionId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

[ProtectionId](#)

The unique identifier (ID) for the [Protection](#) object to be deleted.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [a-zA-Z0-9\\-]*

Required: Yes

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

DeleteProtectionGroup

Removes the specified protection group.

Request Syntax

```
{  
  "ProtectionGroupId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

[ProtectionGroupId](#)

The name of the protection group. You use this to identify the protection group in lists and to manage the protection group, for example to update, delete, or describe it.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: [a-zA-Z0-9\\-]*

Required: Yes

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

DeleteSubscription

This action has been deprecated.

Removes AWS Shield Advanced from an account. AWS Shield Advanced requires a 1-year subscription commitment. You cannot delete a subscription prior to the completion of that commitment.

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

LockedSubscriptionException

You are trying to update a subscription that has not yet completed the 1-year commitment. You can change the `AutoRenew` parameter during the last 30 days of your subscription. This exception indicates that you are attempting to change `AutoRenew` prior to that period.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

DescribeAttack

Describes the details of a DDoS attack.

Request Syntax

```
{  
  "AttackId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

AttackId

The unique identifier (ID) for the attack.

Type: String

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

Pattern: [a-zA-Z0-9\-\]*

Required: Yes

Response Syntax

```
{  
  "Attack": {  
    "AttackCounters": [  
      {  
        "Average": number,  
        "Max": number,  
        "N": number,  
        "Name": "string",  
        "Sum": number,  
        "Unit": "string"  
      }  
    ],  
  },  
}
```

```
"AttackId": "string",
"AttackProperties": [
  {
    "AttackLayer": "string",
    "AttackPropertyIdentifier": "string",
    "TopContributors": [
      {
        "Name": "string",
        "Value": number
      }
    ],
    "Total": number,
    "Unit": "string"
  }
],
"EndTime": number,
"Mitigations": [
  {
    "MitigationName": "string"
  }
],
"ResourceArn": "string",
"StartTime": number,
"SubResources": [
  {
    "AttackVectors": [
      {
        "VectorCounters": [
          {
            "Average": number,
            "Max": number,
            "N": number,
            "Name": "string",
            "Sum": number,
            "Unit": "string"
          }
        ],
        "VectorType": "string"
      }
    ],
    "Counters": [
      {
        "Average": number,
        "Max": number,
```

```
        "N": number,  
        "Name": "string",  
        "Sum": number,  
        "Unit": "string"  
    }  
],  
  "Id": "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.

Attack

The attack that you requested.

Type: [AttackDetail](#) object

Errors

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

AccessDeniedException

Exception that indicates the specified `AttackId` does not exist, or the requester does not have the appropriate permissions to access the `AttackId`.

HTTP Status Code: 400

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

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](#)

DescribeAttackStatistics

Provides information about the number and type of attacks AWS Shield has detected in the last year for all resources that belong to your account, regardless of whether you've defined Shield protections for them. This operation is available to Shield customers as well as to Shield Advanced customers.

The operation returns data for the time range of midnight UTC, one year ago, to midnight UTC, today. For example, if the current time is 2020-10-26 15:39:32 PDT, equal to 2020-10-26 22:39:32 UTC, then the time range for the attack data returned is from 2019-10-26 00:00:00 UTC to 2020-10-26 00:00:00 UTC.

The time range indicates the period covered by the attack statistics data items.

Response Syntax

```
{
  "DataItems": [
    {
      "AttackCount": number,
      "AttackVolume": {
        "BitsPerSecond": {
          "Max": number
        },
        "PacketsPerSecond": {
          "Max": number
        },
        "RequestsPerSecond": {
          "Max": number
        }
      }
    }
  ],
  "TimeRange": {
    "FromInclusive": number,
    "ToExclusive": 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.

DataItems

The data that describes the attacks detected during the time period.

Type: Array of [AttackStatisticsDataItem](#) objects

TimeRange

The time range of the attack.

Type: [TimeRange](#) object

Errors

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

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

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](#)

DescribeDRTAccess

Returns the current role and list of Amazon S3 log buckets used by the Shield Response Team (SRT) to access your AWS account while assisting with attack mitigation.

Response Syntax

```
{
  "LogBucketList": [ "string" ],
  "RoleArn": "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.

LogBucketList

The list of Amazon S3 buckets accessed by the SRT.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `^([a-z]|(\d{0,2}\.\d{1,3}\.\d{1,3}\.\d{1,3}))([a-z\d]|(\.(!\.\|-)))|(-(!\.\.))){1,61}[a-z\d]$`

RoleArn

The Amazon Resource Name (ARN) of the role the SRT used to access your AWS account.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws:iam::\d{12}:role/?[a-zA-Z_0-9+=,.\@\-_/\]+`

Errors

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

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

DescribeEmergencyContactSettings

A list of email addresses and phone numbers that the Shield Response Team (SRT) can use to contact you if you have proactive engagement enabled, for escalations to the SRT and to initiate proactive customer support.

Response Syntax

```
{
  "EmergencyContactList": [
    {
      "ContactNotes": "string",
      "EmailAddress": "string",
      "PhoneNumber": "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.

EmergencyContactList

A list of email addresses and phone numbers that the Shield Response Team (SRT) can use to contact you if you have proactive engagement enabled, for escalations to the SRT and to initiate proactive customer support.

Type: Array of [EmergencyContact](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Errors

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

InternalServerErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

DescribeProtection

Lists the details of a [Protection](#) object.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

[ProtectionId](#)

The unique identifier (ID) for the [Protection](#) object to describe. You must provide either the ResourceArn of the protected resource or the ProtectionID of the protection, but not both.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [a-zA-Z0-9\\-]*

Required: No

[ResourceArn](#)

The ARN (Amazon Resource Name) of the protected AWS resource. You must provide either the ResourceArn of the protected resource or the ProtectionID of the protection, but not both.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: ^arn:aws.*

Required: No

Response Syntax

```
{
  "Protection": {
    "ApplicationLayerAutomaticResponseConfiguration": {
      "Action": {
        "Block": {
        },
        "Count": {
        }
      },
      "Status": "string"
    },
    "HealthCheckIds": [ "string" ],
    "Id": "string",
    "Name": "string",
    "ProtectionArn": "string",
    "ResourceArn": "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.

Protection

The [Protection](#) that you requested.

Type: [Protection](#) object

Errors

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

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

DescribeProtectionGroup

Returns the specification for the specified protection group.

Request Syntax

```
{
  "ProtectionGroupId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

ProtectionGroupId

The name of the protection group. You use this to identify the protection group in lists and to manage the protection group, for example to update, delete, or describe it.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: [a-zA-Z0-9\\-]*

Required: Yes

Response Syntax

```
{
  "ProtectionGroup": {
    "Aggregation": "string",
    "Members": [ "string" ],
    "Pattern": "string",
    "ProtectionGroupArn": "string",
    "ProtectionGroupId": "string",
    "ResourceType": "string"
  }
}
```

```
}
```

Response Elements

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

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

ProtectionGroup

A grouping of protected resources that you and AWS Shield Advanced can monitor as a collective. This resource grouping improves the accuracy of detection and reduces false positives.

Type: [ProtectionGroup](#) object

Errors

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

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

DescribeSubscription

Provides details about the AWS Shield Advanced subscription for an account.

Response Syntax

```
{
  "Subscription": {
    "AutoRenew": "string",
    "EndTime": number,
    "Limits": [
      {
        "Max": number,
        "Type": "string"
      }
    ],
    "ProactiveEngagementStatus": "string",
    "StartTime": number,
    "SubscriptionArn": "string",
    "SubscriptionLimits": {
      "ProtectionGroupLimits": {
        "MaxProtectionGroups": number,
        "PatternTypeLimits": {
          "ArbitraryPatternLimits": {
            "MaxMembers": number
          }
        }
      }
    },
    "ProtectionLimits": {
      "ProtectedResourceTypeLimits": [
        {
          "Max": number,
          "Type": "string"
        }
      ]
    }
  },
  "TimeCommitmentInSeconds": 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.

Subscription

The AWS Shield Advanced subscription details for an account.

Type: [Subscription](#) object

Errors

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

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

DisableApplicationLayerAutomaticResponse

Disable the Shield Advanced automatic application layer DDoS mitigation feature for the protected resource. This stops Shield Advanced from creating, verifying, and applying AWS WAF rules for attacks that it detects for the resource.

Request Syntax

```
{
  "ResourceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

ResourceArn

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

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Required: Yes

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidOperationException

Exception that indicates that the operation would not cause any change to occur.

HTTP Status Code: 400

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

DisableProactiveEngagement

Removes authorization from the Shield Response Team (SRT) to notify contacts about escalations to the SRT and to initiate proactive customer support.

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidOperationException

Exception that indicates that the operation would not cause any change to occur.

HTTP Status Code: 400

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

DisassociateDRTLogBucket

Removes the Shield Response Team's (SRT) access to the specified Amazon S3 bucket containing the logs that you shared previously.

Request Syntax

```
{  
  "LogBucket": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

LogBucket

The Amazon S3 bucket that contains the logs that you want to share.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `^[a-z]|(\d{0,2}\.\d{1,3}\.\d{1,3}\.\d{1,3}))([a-z\d]|(\.(!\.\.|\-)))|(-(!\.\.))]{1,61}[a-z\d]$`

Required: Yes

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](#).

AccessDeniedForDependencyException

In order to grant the necessary access to the Shield Response Team (SRT) the user submitting the request must have the `iam:PassRole` permission. This error indicates the user did not have

the appropriate permissions. For more information, see [Granting a User Permissions to Pass a Role to an AWS Service](#).

HTTP Status Code: 400

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidOperationException

Exception that indicates that the operation would not cause any change to occur.

HTTP Status Code: 400

NoAssociatedRoleException

The ARN of the role that you specified does not exist.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

DisassociateDRTRole

Removes the Shield Response Team's (SRT) access to your AWS account.

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidOperationException

Exception that indicates that the operation would not cause any change to occur.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

DisassociateHealthCheck

Removes health-based detection from the Shield Advanced protection for a resource. Shield Advanced health-based detection uses the health of your AWS resource to improve responsiveness and accuracy in attack detection and response.

You define the health check in Route 53 and then associate or disassociate it with your Shield Advanced protection. For more information, see [Configuring health-based detection using health checks](#) in the *AWS WAF Developer Guide* and [Creating, updating, and deleting health checks](#) in the *Amazon Route 53 Developer Guide*.

Request Syntax

```
{
  "HealthCheckArn": "string",
  "ProtectionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

[HealthCheckArn](#)

The Amazon Resource Name (ARN) of the health check that is associated with the protection.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws:route53:::healthcheck/\S{36}$`

Required: Yes

[ProtectionId](#)

The unique identifier (ID) for the [Protection](#) object to remove the health check association from.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [a-zA-Z0-9\\-]*

Required: Yes

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

InvalidResourceException

Exception that indicates that the resource is invalid. You might not have access to the resource, or the resource might not exist.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

EnableApplicationLayerAutomaticResponse

Enable the Shield Advanced automatic application layer DDoS mitigation for the protected resource.

Note

This feature is available for Amazon CloudFront distributions and Application Load Balancers only.

This causes Shield Advanced to create, verify, and apply AWS WAF rules for DDoS attacks that it detects for the resource. Shield Advanced applies the rules in a Shield rule group inside the web ACL that you've associated with the resource. For information about how automatic mitigation works and the requirements for using it, see [AWS Shield Advanced automatic application layer DDoS mitigation](#).

Note

Don't use this action to make changes to automatic mitigation settings when it's already enabled for a resource. Instead, use [UpdateApplicationLayerAutomaticResponse](#).

To use this feature, you must associate a web ACL with the protected resource. The web ACL must be created using the latest version of AWS WAF (v2). You can associate the web ACL through the [Shield Advanced console](#). For more information, see [Getting Started with AWS Shield Advanced](#). You can also associate the web ACL to the resource through the AWS WAF console or the AWS WAF API, but you must manage Shield Advanced automatic mitigation through Shield Advanced. For information about AWS WAF, see [AWS WAF Developer Guide](#).

Request Syntax

```
{
  "Action": {
    "Block": {
    },
    "Count": {
    }
  }
}
```

```
  },  
  "ResourceArn": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

Action

Specifies the action setting that Shield Advanced should use in the AWS WAF rules that it creates on behalf of the protected resource in response to DDoS attacks. You specify this as part of the configuration for the automatic application layer DDoS mitigation feature, when you enable or update automatic mitigation. Shield Advanced creates the AWS WAF rules in a Shield Advanced-managed rule group, inside the web ACL that you have associated with the resource.

Type: [ResponseAction](#) object

Required: Yes

ResourceArn

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

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Required: Yes

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidOperationException

Exception that indicates that the operation would not cause any change to occur.

HTTP Status Code: 400

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

LimitsExceededException

Exception that indicates that the operation would exceed a limit.

Limit

The threshold that would be exceeded.

Type

The type of limit that would be exceeded.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

EnableProactiveEngagement

Authorizes the Shield Response Team (SRT) to use email and phone to notify contacts about escalations to the SRT and to initiate proactive customer support.

To enable proactive engagement, you must be subscribed to the [Business Support plan](#) or the [Enterprise Support plan](#).

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidOperationException

Exception that indicates that the operation would not cause any change to occur.

HTTP Status Code: 400

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

GetSubscriptionState

Returns the SubscriptionState, either Active or Inactive.

Response Syntax

```
{  
  "SubscriptionState": "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.

SubscriptionState

The status of the subscription.

Type: String

Valid Values: ACTIVE | INACTIVE

Errors

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

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

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](#)

ListAttacks

Returns all ongoing DDoS attacks or all DDoS attacks during a specified time period.

Request Syntax

```
{
  "EndTime": {
    "FromInclusive": number,
    "ToExclusive": number
  },
  "MaxResults": number,
  "NextToken": "string",
  "ResourceArns": [ "string" ],
  "StartTime": {
    "FromInclusive": number,
    "ToExclusive": number
  }
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

EndTime

The end of the time period for the attacks. This is a `timestamp` type. The request syntax listing for this call indicates a `number` type, but you can provide the time in any valid [timestamp format](#) setting.

Type: [TimeRange](#) object

Required: No

MaxResults

The greatest number of objects that you want Shield Advanced to return to the list request. Shield Advanced might return fewer objects than you indicate in this setting, even if more objects are available. If there are more objects remaining, Shield Advanced will always also return a `NextToken` value in the response.

The default setting is 20.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 10000.

Required: No

NextToken

When you request a list of objects from AWS Shield Advanced, if the response does not include all of the remaining available objects, Shield Advanced includes a `NextToken` value in the response. You can retrieve the next batch of objects by requesting the list again and providing the token that was returned by the prior call in your request.

You can indicate the maximum number of objects that you want Shield Advanced to return for a single call with the `MaxResults` setting. Shield Advanced will not return more than `MaxResults` objects, but may return fewer, even if more objects are still available.

Whenever more objects remain that Shield Advanced has not yet returned to you, the response will include a `NextToken` value.

On your first call to a list operation, leave this setting empty.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `^.*$`

Required: No

ResourceArns

The ARNs (Amazon Resource Names) of the resources that were attacked. If you leave this blank, all applicable resources for this account will be included.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Required: No

StartTime

The start of the time period for the attacks. This is a `timestamp` type. The request syntax listing for this call indicates a `number` type, but you can provide the time in any valid [timestamp format](#) setting.

Type: [TimeRange](#) object

Required: No

Response Syntax

```
{
  "AttackSummaries": [
    {
      "AttackId": "string",
      "AttackVectors": [
        {
          "VectorType": "string"
        }
      ],
      "EndTime": number,
      "ResourceArn": "string",
      "StartTime": number
    }
  ],
  "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.

AttackSummaries

The attack information for the specified time range.

Type: Array of [AttackSummary](#) objects

NextToken

When you request a list of objects from AWS Shield Advanced, if the response does not include all of the remaining available objects, Shield Advanced includes a `NextToken` value in the response. You can retrieve the next batch of objects by requesting the list again and providing the token that was returned by the prior call in your request.

You can indicate the maximum number of objects that you want Shield Advanced to return for a single call with the `MaxResults` setting. Shield Advanced will not return more than `MaxResults` objects, but may return fewer, even if more objects are still available.

Whenever more objects remain that Shield Advanced has not yet returned to you, the response will include a `NextToken` value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `^.*$`

Errors

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

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidOperationException

Exception that indicates that the operation would not cause any change to occur.

HTTP Status Code: 400

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

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](#)

ListProtectionGroups

Retrieves [ProtectionGroup](#) objects for the account. You can retrieve all protection groups or you can provide filtering criteria and retrieve just the subset of protection groups that match the criteria.

Request Syntax

```
{
  "InclusionFilters": {
    "Aggregations": [ "string" ],
    "Patterns": [ "string" ],
    "ProtectionGroupIds": [ "string" ],
    "ResourceTypes": [ "string" ]
  },
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

InclusionFilters

Narrows the set of protection groups that the call retrieves. You can retrieve a single protection group by its name and you can retrieve all protection groups that are configured with specific pattern or aggregation settings. You can provide up to one criteria per filter type. Shield Advanced returns the protection groups that exactly match all of the search criteria that you provide.

Type: [InclusionProtectionGroupFilters](#) object

Required: No

MaxResults

The greatest number of objects that you want Shield Advanced to return to the list request. Shield Advanced might return fewer objects than you indicate in this setting, even if more

objects are available. If there are more objects remaining, Shield Advanced will always also return a `NextToken` value in the response.

The default setting is 20.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 10000.

Required: No

NextToken

When you request a list of objects from AWS Shield Advanced, if the response does not include all of the remaining available objects, Shield Advanced includes a `NextToken` value in the response. You can retrieve the next batch of objects by requesting the list again and providing the token that was returned by the prior call in your request.

You can indicate the maximum number of objects that you want Shield Advanced to return for a single call with the `MaxResults` setting. Shield Advanced will not return more than `MaxResults` objects, but may return fewer, even if more objects are still available.

Whenever more objects remain that Shield Advanced has not yet returned to you, the response will include a `NextToken` value.

On your first call to a list operation, leave this setting empty.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `^\.*$`

Required: No

Response Syntax

```
{
  "NextToken": "string",
  "ProtectionGroups": [
    {
      "Aggregation": "string",
      "Members": [ "string" ],
    }
  ]
}
```

```
    "Pattern": "string",
    "ProtectionGroupArn": "string",
    "ProtectionGroupId": "string",
    "ResourceType": "string"
  }
]
```

Response Elements

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

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

NextToken

When you request a list of objects from AWS Shield Advanced, if the response does not include all of the remaining available objects, Shield Advanced includes a `NextToken` value in the response. You can retrieve the next batch of objects by requesting the list again and providing the token that was returned by the prior call in your request.

You can indicate the maximum number of objects that you want Shield Advanced to return for a single call with the `MaxResults` setting. Shield Advanced will not return more than `MaxResults` objects, but may return fewer, even if more objects are still available.

Whenever more objects remain that Shield Advanced has not yet returned to you, the response will include a `NextToken` value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `^.*$`

ProtectionGroups

Type: Array of [ProtectionGroup](#) objects

Errors

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

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidPaginationTokenException

Exception that indicates that the `NextToken` specified in the request is invalid. Submit the request using the `NextToken` value that was returned in the prior response.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

ListProtections

Retrieves [Protection](#) objects for the account. You can retrieve all protections or you can provide filtering criteria and retrieve just the subset of protections that match the criteria.

Request Syntax

```
{
  "InclusionFilters": {
    "ProtectionNames": [ "string" ],
    "ResourceArns": [ "string" ],
    "ResourceTypes": [ "string" ]
  },
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

[InclusionFilters](#)

Narrows the set of protections that the call retrieves. You can retrieve a single protection by providing its name or the ARN (Amazon Resource Name) of its protected resource. You can also retrieve all protections for a specific resource type. You can provide up to one criteria per filter type. Shield Advanced returns protections that exactly match all of the filter criteria that you provide.

Type: [InclusionProtectionFilters](#) object

Required: No

[MaxResults](#)

The greatest number of objects that you want Shield Advanced to return to the list request. Shield Advanced might return fewer objects than you indicate in this setting, even if more objects are available. If there are more objects remaining, Shield Advanced will always also return a NextToken value in the response.

The default setting is 20.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 10000.

Required: No

NextToken

When you request a list of objects from AWS Shield Advanced, if the response does not include all of the remaining available objects, Shield Advanced includes a `NextToken` value in the response. You can retrieve the next batch of objects by requesting the list again and providing the token that was returned by the prior call in your request.

You can indicate the maximum number of objects that you want Shield Advanced to return for a single call with the `MaxResults` setting. Shield Advanced will not return more than `MaxResults` objects, but may return fewer, even if more objects are still available.

Whenever more objects remain that Shield Advanced has not yet returned to you, the response will include a `NextToken` value.

On your first call to a list operation, leave this setting empty.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `^\.*$`

Required: No

Response Syntax

```
{
  "NextToken": "string",
  "Protections": [
    {
      "ApplicationLayerAutomaticResponseConfiguration": {
        "Action": {
          "Block": {
            },
          },
        }
      }
    }
  ]
}
```

```
        "Count": {
          }
        },
        "Status": "string"
      },
      "HealthCheckIds": [ "string" ],
      "Id": "string",
      "Name": "string",
      "ProtectionArn": "string",
      "ResourceArn": "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

When you request a list of objects from AWS Shield Advanced, if the response does not include all of the remaining available objects, Shield Advanced includes a `NextToken` value in the response. You can retrieve the next batch of objects by requesting the list again and providing the token that was returned by the prior call in your request.

You can indicate the maximum number of objects that you want Shield Advanced to return for a single call with the `MaxResults` setting. Shield Advanced will not return more than `MaxResults` objects, but may return fewer, even if more objects are still available.

Whenever more objects remain that Shield Advanced has not yet returned to you, the response will include a `NextToken` value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `^.*$`

Protections

The array of enabled [Protection](#) objects.

Type: Array of [Protection](#) objects

Errors

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

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidPaginationTokenException

Exception that indicates that the `NextToken` specified in the request is invalid. Submit the request using the `NextToken` value that was returned in the prior response.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

ListResourcesInProtectionGroup

Retrieves the resources that are included in the protection group.

Request Syntax

```
{
  "MaxResults": number,
  "NextToken": "string",
  "ProtectionGroupId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

MaxResults

The greatest number of objects that you want Shield Advanced to return to the list request. Shield Advanced might return fewer objects than you indicate in this setting, even if more objects are available. If there are more objects remaining, Shield Advanced will always also return a NextToken value in the response.

The default setting is 20.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 10000.

Required: No

NextToken

When you request a list of objects from AWS Shield Advanced, if the response does not include all of the remaining available objects, Shield Advanced includes a NextToken value in the response. You can retrieve the next batch of objects by requesting the list again and providing the token that was returned by the prior call in your request.

You can indicate the maximum number of objects that you want Shield Advanced to return for a single call with the `MaxResults` setting. Shield Advanced will not return more than `MaxResults` objects, but may return fewer, even if more objects are still available.

Whenever more objects remain that Shield Advanced has not yet returned to you, the response will include a `NextToken` value.

On your first call to a list operation, leave this setting empty.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `^.*$`

Required: No

ProtectionGroupId

The name of the protection group. You use this to identify the protection group in lists and to manage the protection group, for example to update, delete, or describe it.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `[a-zA-Z0-9\\-]*`

Required: Yes

Response Syntax

```
{
  "NextToken": "string",
  "ResourceArns": [ "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

When you request a list of objects from AWS Shield Advanced, if the response does not include all of the remaining available objects, Shield Advanced includes a `NextToken` value in the response. You can retrieve the next batch of objects by requesting the list again and providing the token that was returned by the prior call in your request.

You can indicate the maximum number of objects that you want Shield Advanced to return for a single call with the `MaxResults` setting. Shield Advanced will not return more than `MaxResults` objects, but may return fewer, even if more objects are still available.

Whenever more objects remain that Shield Advanced has not yet returned to you, the response will include a `NextToken` value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `^\.*$`

ResourceArns

The Amazon Resource Names (ARNs) of the resources that are included in the protection group.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Errors

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

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidPaginationTokenException

Exception that indicates that the NextToken specified in the request is invalid. Submit the request using the NextToken value that was returned in the prior response.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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

Gets information about AWS tags for a specified Amazon Resource Name (ARN) in AWS Shield.

Request Syntax

```
{  
  "ResourceARN": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

ResourceARN

The Amazon Resource Name (ARN) of the resource to get tags for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Required: Yes

Response Syntax

```
{  
  "Tags": [  
    {  
      "Key": "string",  
      "Value": "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

A list of tag key and value pairs associated with the specified resource.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Errors

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

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidResourceException

Exception that indicates that the resource is invalid. You might not have access to the resource, or the resource might not exist.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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

Adds or updates tags for a resource in AWS Shield.

Request Syntax

```
{
  "ResourceARN": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

ResourceARN

The Amazon Resource Name (ARN) of the resource that you want to add or update tags for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Required: Yes

Tags

The tags that you want to modify or add to the resource.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: Yes

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

InvalidResourceException

Exception that indicates that the resource is invalid. You might not have access to the resource, or the resource might not exist.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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

Removes tags from a resource in AWS Shield.

Request Syntax

```
{  
  "ResourceARN": "string",  
  "TagKeys": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

ResourceARN

The Amazon Resource Name (ARN) of the resource that you want to remove tags from.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Required: Yes

TagKeys

The tag key for each tag that you want to remove from the resource.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 200 items.

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

Required: Yes

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

InvalidResourceException

Exception that indicates that the resource is invalid. You might not have access to the resource, or the resource might not exist.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

UpdateApplicationLayerAutomaticResponse

Updates an existing Shield Advanced automatic application layer DDoS mitigation configuration for the specified resource.

Request Syntax

```
{
  "Action": {
    "Block": {
    },
    "Count": {
    }
  },
  "ResourceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

Action

Specifies the action setting that Shield Advanced should use in the AWS WAF rules that it creates on behalf of the protected resource in response to DDoS attacks. You specify this as part of the configuration for the automatic application layer DDoS mitigation feature, when you enable or update automatic mitigation. Shield Advanced creates the AWS WAF rules in a Shield Advanced-managed rule group, inside the web ACL that you have associated with the resource.

Type: [ResponseAction](#) object

Required: Yes

ResourceArn

The ARN (Amazon Resource Name) of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Required: Yes

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidOperationException

Exception that indicates that the operation would not cause any change to occur.

HTTP Status Code: 400

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

UpdateEmergencyContactSettings

Updates the details of the list of email addresses and phone numbers that the Shield Response Team (SRT) can use to contact you if you have proactive engagement enabled, for escalations to the SRT and to initiate proactive customer support.

Request Syntax

```
{
  "EmergencyContactList": [
    {
      "ContactNotes": "string",
      "EmailAddress": "string",
      "PhoneNumber": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

[EmergencyContactList](#)

A list of email addresses and phone numbers that the Shield Response Team (SRT) can use to contact you if you have proactive engagement enabled, for escalations to the SRT and to initiate proactive customer support.

If you have proactive engagement enabled, the contact list must include at least one phone number.

Type: Array of [EmergencyContact](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: No

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

UpdateProtectionGroup

Updates an existing protection group. A protection group is a grouping of protected resources so they can be handled as a collective. This resource grouping improves the accuracy of detection and reduces false positives.

Request Syntax

```
{
  "Aggregation": "string",
  "Members": [ "string" ],
  "Pattern": "string",
  "ProtectionGroupId": "string",
  "ResourceType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

Aggregation

Defines how AWS Shield combines resource data for the group in order to detect, mitigate, and report events.

- **Sum** - Use the total traffic across the group. This is a good choice for most cases. Examples include Elastic IP addresses for EC2 instances that scale manually or automatically.
- **Mean** - Use the average of the traffic across the group. This is a good choice for resources that share traffic uniformly. Examples include accelerators and load balancers.
- **Max** - Use the highest traffic from each resource. This is useful for resources that don't share traffic and for resources that share that traffic in a non-uniform way. Examples include Amazon CloudFront distributions and origin resources for CloudFront distributions.

Type: String

Valid Values: SUM | MEAN | MAX

Required: Yes

Members

The Amazon Resource Names (ARNs) of the resources to include in the protection group. You must set this when you set `Pattern` to `ARBITRARY` and you must not set it for any other `Pattern` setting.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10000 items.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Required: No

Pattern

The criteria to use to choose the protected resources for inclusion in the group. You can include all resources that have protections, provide a list of resource Amazon Resource Names (ARNs), or include all resources of a specified resource type.

Type: String

Valid Values: `ALL` | `ARBITRARY` | `BY_RESOURCE_TYPE`

Required: Yes

ProtectionGroupId

The name of the protection group. You use this to identify the protection group in lists and to manage the protection group, for example to update, delete, or describe it.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `[a-zA-Z0-9\\-]*`

Required: Yes

ResourceType

The resource type to include in the protection group. All protected resources of this type are included in the protection group. You must set this when you set `Pattern` to `BY_RESOURCE_TYPE` and you must not set it for any other `Pattern` setting.

Type: String

Valid Values: CLOUDFRONT_DISTRIBUTION | ROUTE_53_HOSTED_ZONE
| ELASTIC_IP_ALLOCATION | CLASSIC_LOAD_BALANCER |
APPLICATION_LOAD_BALANCER | GLOBAL_ACCELERATOR

Required: No

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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](#)

UpdateSubscription

Updates the details of an existing subscription. Only enter values for parameters you want to change. Empty parameters are not updated.

Note

For accounts that are members of an AWS Organizations organization, Shield Advanced subscriptions are billed against the organization's payer account, regardless of whether the payer account itself is subscribed.

Request Syntax

```
{  
  "AutoRenew": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

AutoRenew

When you initially create a subscription, AutoRenew is set to ENABLED. If ENABLED, the subscription will be automatically renewed at the end of the existing subscription period. You can change this by submitting an UpdateSubscription request. If the UpdateSubscription request does not include a value for AutoRenew, the existing value for AutoRenew remains unchanged.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

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](#).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

InvalidParameterException

Exception that indicates that the parameters passed to the API are invalid. If available, this exception includes details in additional properties.

fields

Fields that caused the exception.

reason

Additional information about the exception.

HTTP Status Code: 400

LockedSubscriptionException

You are trying to update a subscription that has not yet completed the 1-year commitment. You can change the `AutoRenew` parameter during the last 30 days of your subscription. This exception indicates that you are attempting to change `AutoRenew` prior to that period.

HTTP Status Code: 400

OptimisticLockException

Exception that indicates that the resource state has been modified by another client. Retrieve the resource and then retry your request.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist. If available, this exception includes details in additional properties.

resourceType

Type of resource.

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 Shield Advanced 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:

- [ApplicationLayerAutomaticResponseConfiguration](#)
- [AttackDetail](#)
- [AttackProperty](#)
- [AttackStatisticsDataItem](#)
- [AttackSummary](#)
- [AttackVectorDescription](#)
- [AttackVolume](#)
- [AttackVolumeStatistics](#)
- [BlockAction](#)
- [Contributor](#)
- [CountAction](#)
- [EmergencyContact](#)
- [InclusionProtectionFilters](#)
- [InclusionProtectionGroupFilters](#)
- [Limit](#)
- [Mitigation](#)
- [Protection](#)
- [ProtectionGroup](#)
- [ProtectionGroupArbitraryPatternLimits](#)
- [ProtectionGroupLimits](#)

- [ProtectionGroupPatternTypeLimits](#)
- [ProtectionLimits](#)
- [ResponseAction](#)
- [SubResourceSummary](#)
- [Subscription](#)
- [SubscriptionLimits](#)
- [SummarizedAttackVector](#)
- [SummarizedCounter](#)
- [Tag](#)
- [TimeRange](#)
- [ValidationExceptionField](#)

ApplicationLayerAutomaticResponseConfiguration

The automatic application layer DDoS mitigation settings for a [Protection](#). This configuration determines whether Shield Advanced automatically manages rules in the web ACL in order to respond to application layer events that Shield Advanced determines to be DDoS attacks.

Contents

Action

Specifies the action setting that Shield Advanced should use in the AWS WAF rules that it creates on behalf of the protected resource in response to DDoS attacks. You specify this as part of the configuration for the automatic application layer DDoS mitigation feature, when you enable or update automatic mitigation. Shield Advanced creates the AWS WAF rules in a Shield Advanced-managed rule group, inside the web ACL that you have associated with the resource.

Type: [ResponseAction](#) object

Required: Yes

Status

Indicates whether automatic application layer DDoS mitigation is enabled for the protection.

Type: String

Valid Values: ENABLED | DISABLED

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](#)

AttackDetail

The details of a DDoS attack.

Contents

AttackCounters

List of counters that describe the attack for the specified time period.

Type: Array of [SummarizedCounter](#) objects

Required: No

AttackId

The unique identifier (ID) of the attack.

Type: String

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

Pattern: `[a-zA-Z0-9\\-]*`

Required: No

AttackProperties

The array of objects that provide details of the AWS Shield event.

For infrastructure layer events (L3 and L4 events), you can view metrics for top contributors in Amazon CloudWatch metrics. For more information, see [AWS Shield metrics and alarms](#) in the *AWS WAF Developer Guide*.

Type: Array of [AttackProperty](#) objects

Required: No

EndTime

The time the attack ended, in Unix time in seconds.

Type: Timestamp

Required: No

Mitigations

List of mitigation actions taken for the attack.

Type: Array of [Mitigation](#) objects

Required: No

ResourceArn

The ARN (Amazon Resource Name) of the resource that was attacked.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Required: No

StartTime

The time the attack started, in Unix time in seconds.

Type: Timestamp

Required: No

SubResources

If applicable, additional detail about the resource being attacked, for example, IP address or URL.

Type: Array of [SubResourceSummary](#) objects

Required: No

See Also

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

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

- [AWS SDK for Ruby V3](#)

AttackProperty

Details of a AWS Shield event. This is provided as part of an [AttackDetail](#).

Contents

AttackLayer

The type of AWS Shield event that was observed. NETWORK indicates layer 3 and layer 4 events and APPLICATION indicates layer 7 events.

For infrastructure layer events (L3 and L4 events), you can view metrics for top contributors in Amazon CloudWatch metrics. For more information, see [AWS Shield metrics and alarms](#) in the *AWS WAF Developer Guide*.

Type: String

Valid Values: NETWORK | APPLICATION

Required: No

AttackPropertyIdentifier

Defines the AWS Shield event property information that is provided. The WORDPRESS_PINGBACK_REFLECTOR and WORDPRESS_PINGBACK_SOURCE values are valid only for WordPress reflective pingback events.

Type: String

Valid Values: DESTINATION_URL | REFERRER | SOURCE_ASN | SOURCE_COUNTRY | SOURCE_IP_ADDRESS | SOURCE_USER_AGENT | WORDPRESS_PINGBACK_REFLECTOR | WORDPRESS_PINGBACK_SOURCE

Required: No

TopContributors

Contributor objects for the top five contributors to a Shield event. A contributor is a source of traffic that Shield Advanced identifies as responsible for some or all of an event.

Type: Array of [Contributor](#) objects

Required: No

Total

The total contributions made to this Shield event by all contributors.

Type: Long

Required: No

Unit

The unit used for the `Contributor Value` property.

Type: String

Valid Values: BITS | BYTES | PACKETS | REQUESTS

Required: No

See Also

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

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

AttackStatisticsDataItem

A single attack statistics data record. This is returned by [DescribeAttackStatistics](#) along with a time range indicating the time period that the attack statistics apply to.

Contents

AttackCount

The number of attacks detected during the time period. This is always present, but might be zero.

Type: Long

Required: Yes

AttackVolume

Information about the volume of attacks during the time period. If the accompanying AttackCount is zero, this setting might be empty.

Type: [AttackVolume](#) object

Required: No

See Also

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

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

AttackSummary

Summarizes all DDoS attacks for a specified time period.

Contents

AttackId

The unique identifier (ID) of the attack.

Type: String

Required: No

AttackVectors

The list of attacks for a specified time period.

Type: Array of [AttackVectorDescription](#) objects

Required: No

EndTime

The end time of the attack, in Unix time in seconds.

Type: Timestamp

Required: No

ResourceArn

The ARN (Amazon Resource Name) of the resource that was attacked.

Type: String

Required: No

StartTime

The start time of the attack, in Unix time in seconds.

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](#)

AttackVectorDescription

Describes the attack.

Contents

VectorType

The attack type. Valid values:

- UDP_TRAFFIC
- UDP_FRAGMENT
- GENERIC_UDP_REFLECTION
- DNS_REFLECTION
- NTP_REFLECTION
- CHARGEN_REFLECTION
- SSDP_REFLECTION
- PORT_MAPPER
- RIP_REFLECTION
- SNMP_REFLECTION
- MSSQL_REFLECTION
- NET_BIOS_REFLECTION
- SYN_FLOOD
- ACK_FLOOD
- REQUEST_FLOOD
- HTTP_REFLECTION
- UDS_REFLECTION
- MEMCACHED_REFLECTION

Type: String

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](#)

AttackVolume

Information about the volume of attacks during the time period, included in an [AttackStatisticsDataItem](#). If the accompanying AttackCount in the statistics object is zero, this setting might be empty.

Contents

BitsPerSecond

A statistics object that uses bits per second as the unit. This is included for network level attacks.

Type: [AttackVolumeStatistics](#) object

Required: No

PacketsPerSecond

A statistics object that uses packets per second as the unit. This is included for network level attacks.

Type: [AttackVolumeStatistics](#) object

Required: No

RequestsPerSecond

A statistics object that uses requests per second as the unit. This is included for application level attacks, and is only available for accounts that are subscribed to Shield Advanced.

Type: [AttackVolumeStatistics](#) object

Required: No

See Also

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

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

- [AWS SDK for Ruby V3](#)

AttackVolumeStatistics

Statistics objects for the various data types in [AttackVolume](#).

Contents

Max

The maximum attack volume observed for the given unit.

Type: Double

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](#)

BlockAction

Specifies that Shield Advanced should configure its AWS WAF rules with the AWS WAF Block action.

This is only used in the context of the ResponseAction setting.

JSON specification: "Block": {}

Contents

The members of this exception structure are context-dependent.

See Also

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

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

Contributor

A contributor to the attack and their contribution.

Contents

Name

The name of the contributor. The type of name that you'll find here depends on the `AttackPropertyIdentifier` setting in the `AttackProperty` where this contributor is defined. For example, if the `AttackPropertyIdentifier` is `SOURCE_COUNTRY`, the `Name` could be `United States`.

Type: String

Required: No

Value

The contribution of this contributor expressed in [Protection](#) units. For example `10,000`.

Type: Long

Required: No

See Also

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

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

CountAction

Specifies that Shield Advanced should configure its AWS WAF rules with the AWS WAF Count action.

This is only used in the context of the ResponseAction setting.

JSON specification: "Count": {}

Contents

The members of this exception structure are context-dependent.

See Also

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

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

EmergencyContact

Contact information that the SRT can use to contact you if you have proactive engagement enabled, for escalations to the SRT and to initiate proactive customer support.

Contents

EmailAddress

The email address for the contact.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 150.

Pattern: `^\S+@\S+\.\S+$`

Required: Yes

ContactNotes

Additional notes regarding the contact.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `^[\\w\\s\\.\\- , :/()+@]*$`

Required: No

PhoneNumber

The phone number for the contact.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16.

Pattern: `^\\+[1-9]\\d{1,14}$`

Required: No

See Also

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

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

InclusionProtectionFilters

Narrows the set of protections that the call retrieves. You can retrieve a single protection by providing its name or the ARN (Amazon Resource Name) of its protected resource. You can also retrieve all protections for a specific resource type. You can provide up to one criteria per filter type. Shield Advanced returns protections that exactly match all of the filter criteria that you provide.

Contents

ProtectionNames

The name of the protection that you want to retrieve.

Type: Array of strings

Array Members: Fixed number of 1 item.

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

Pattern: [a-zA-Z0-9_\\.\\-]*

Required: No

ResourceArns

The ARN (Amazon Resource Name) of the resource whose protection you want to retrieve.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: ^arn:aws.*

Required: No

ResourceTypes

The type of protected resource whose protections you want to retrieve.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: CLOUDFRONT_DISTRIBUTION | ROUTE_53_HOSTED_ZONE
| ELASTIC_IP_ALLOCATION | CLASSIC_LOAD_BALANCER |
APPLICATION_LOAD_BALANCER | GLOBAL_ACCELERATOR

Required: No

See Also

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

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

InclusionProtectionGroupFilters

Narrows the set of protection groups that the call retrieves. You can retrieve a single protection group by its name and you can retrieve all protection groups that are configured with a specific pattern, aggregation, or resource type. You can provide up to one criteria per filter type. Shield Advanced returns the protection groups that exactly match all of the search criteria that you provide.

Contents

Aggregations

The aggregation setting of the protection groups that you want to retrieve.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: SUM | MEAN | MAX

Required: No

Patterns

The pattern specification of the protection groups that you want to retrieve.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: ALL | ARBITRARY | BY_RESOURCE_TYPE

Required: No

ProtectionGroupIds

The ID of the protection group that you want to retrieve.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: [a-zA-Z0-9\\-]*

Required: No

ResourceTypes

The resource type configuration of the protection groups that you want to retrieve. In the protection group configuration, you specify the resource type when you set the group's `Pattern` to `BY_RESOURCE_TYPE`.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: `CLOUDFRONT_DISTRIBUTION` | `ROUTE_53_HOSTED_ZONE`
| `ELASTIC_IP_ALLOCATION` | `CLASSIC_LOAD_BALANCER` |
`APPLICATION_LOAD_BALANCER` | `GLOBAL_ACCELERATOR`

Required: No

See Also

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

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

Limit

Specifies how many protections of a given type you can create.

Contents

Max

The maximum number of protections that can be created for the specified Type.

Type: Long

Required: No

Type

The type of protection.

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](#)

Mitigation

The mitigation applied to a DDoS attack.

Contents

MitigationName

The name of the mitigation taken for this attack.

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](#)

Protection

An object that represents a resource that is under DDoS protection.

Contents

ApplicationLayerAutomaticResponseConfiguration

The automatic application layer DDoS mitigation settings for the protection. This configuration determines whether Shield Advanced automatically manages rules in the web ACL in order to respond to application layer events that Shield Advanced determines to be DDoS attacks.

Type: [ApplicationLayerAutomaticResponseConfiguration](#) object

Required: No

HealthCheckIds

The unique identifier (ID) for the Route 53 health check that's associated with the protection.

Type: Array of strings

Required: No

Id

The unique identifier (ID) of the protection.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-zA-Z0-9\\-]*`

Required: No

Name

The name of the protection. For example, `My CloudFront distributions`.

Type: String

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

Pattern: `[a-zA-Z0-9_\\.\\-]*`

Required: No

ProtectionArn

The ARN (Amazon Resource Name) of the protection.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Required: No

ResourceArn

The ARN (Amazon Resource Name) of the AWS resource that is protected.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Required: No

See Also

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

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

ProtectionGroup

A grouping of protected resources that you and AWS Shield Advanced can monitor as a collective. This resource grouping improves the accuracy of detection and reduces false positives.

Contents

Aggregation

Defines how AWS Shield combines resource data for the group in order to detect, mitigate, and report events.

- **Sum** - Use the total traffic across the group. This is a good choice for most cases. Examples include Elastic IP addresses for EC2 instances that scale manually or automatically.
- **Mean** - Use the average of the traffic across the group. This is a good choice for resources that share traffic uniformly. Examples include accelerators and load balancers.
- **Max** - Use the highest traffic from each resource. This is useful for resources that don't share traffic and for resources that share that traffic in a non-uniform way. Examples include Amazon CloudFront distributions and origin resources for CloudFront distributions.

Type: String

Valid Values: SUM | MEAN | MAX

Required: Yes

Members

The ARNs (Amazon Resource Names) of the resources to include in the protection group. You must set this when you set `Pattern` to `ARBITRARY` and you must not set it for any other `Pattern` setting.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10000 items.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Required: Yes

Pattern

The criteria to use to choose the protected resources for inclusion in the group. You can include all resources that have protections, provide a list of resource ARNs (Amazon Resource Names), or include all resources of a specified resource type.

Type: String

Valid Values: ALL | ARBITRARY | BY_RESOURCE_TYPE

Required: Yes

ProtectionGroupId

The name of the protection group. You use this to identify the protection group in lists and to manage the protection group, for example to update, delete, or describe it.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: [a-zA-Z0-9\\-]*

Required: Yes

ProtectionGroupArn

The ARN (Amazon Resource Name) of the protection group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: ^arn:aws.*

Required: No

ResourceType

The resource type to include in the protection group. All protected resources of this type are included in the protection group. You must set this when you set `Pattern` to `BY_RESOURCE_TYPE` and you must not set it for any other `Pattern` setting.

Type: String

Valid Values: CLOUDFRONT_DISTRIBUTION | ROUTE_53_HOSTED_ZONE
| ELASTIC_IP_ALLOCATION | CLASSIC_LOAD_BALANCER |
APPLICATION_LOAD_BALANCER | GLOBAL_ACCELERATOR

Required: No

See Also

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

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

ProtectionGroupArbitraryPatternLimits

Limits settings on protection groups with arbitrary pattern type.

Contents

MaxMembers

The maximum number of resources you can specify for a single arbitrary pattern in a protection group.

Type: Long

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](#)

ProtectionGroupLimits

Limits settings on protection groups for your subscription.

Contents

MaxProtectionGroups

The maximum number of protection groups that you can have at one time.

Type: Long

Required: Yes

PatternTypeLimits

Limits settings by pattern type in the protection groups for your subscription.

Type: [ProtectionGroupPatternTypeLimits](#) object

Required: Yes

See Also

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

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

ProtectionGroupPatternTypeLimits

Limits settings by pattern type in the protection groups for your subscription.

Contents

ArbitraryPatternLimits

Limits settings on protection groups with arbitrary pattern type.

Type: [ProtectionGroupArbitraryPatternLimits](#) object

Required: Yes

See Also

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

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

ProtectionLimits

Limits settings on protections for your subscription.

Contents

ProtectedResourceTypeLimits

The maximum number of resource types that you can specify in a protection.

Type: Array of [Limit](#) objects

Required: Yes

See Also

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

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

ResponseAction

Specifies the action setting that Shield Advanced should use in the AWS WAF rules that it creates on behalf of the protected resource in response to DDoS attacks. You specify this as part of the configuration for the automatic application layer DDoS mitigation feature, when you enable or update automatic mitigation. Shield Advanced creates the AWS WAF rules in a Shield Advanced-managed rule group, inside the web ACL that you have associated with the resource.

Contents

Block

Specifies that Shield Advanced should configure its AWS WAF rules with the AWS WAF Block action.

You must specify exactly one action, either Block or Count.

Type: [BlockAction](#) object

Required: No

Count

Specifies that Shield Advanced should configure its AWS WAF rules with the AWS WAF Count action.

You must specify exactly one action, either Block or Count.

Type: [CountAction](#) object

Required: No

See Also

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

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

SubResourceSummary

The attack information for the specified SubResource.

Contents

AttackVectors

The list of attack types and associated counters.

Type: Array of [SummarizedAttackVector](#) objects

Required: No

Counters

The counters that describe the details of the attack.

Type: Array of [SummarizedCounter](#) objects

Required: No

Id

The unique identifier (ID) of the SubResource.

Type: String

Required: No

Type

The SubResource type.

Type: String

Valid Values: IP | URL

Required: No

See Also

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

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

Subscription

Information about the AWS Shield Advanced subscription for an account.

Contents

SubscriptionLimits

Limits settings for your subscription.

Type: [SubscriptionLimits](#) object

Required: Yes

AutoRenew

If ENABLED, the subscription will be automatically renewed at the end of the existing subscription period.

When you initially create a subscription, AutoRenew is set to ENABLED. You can change this by submitting an UpdateSubscription request. If the UpdateSubscription request does not include a value for AutoRenew, the existing value for AutoRenew remains unchanged.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

EndTime

The date and time your subscription will end.

Type: Timestamp

Required: No

Limits

Specifies how many protections of a given type you can create.

Type: Array of [Limit](#) objects

Required: No

ProactiveEngagementStatus

If ENABLED, the Shield Response Team (SRT) will use email and phone to notify contacts about escalations to the SRT and to initiate proactive customer support.

If PENDING, you have requested proactive engagement and the request is pending. The status changes to ENABLED when your request is fully processed.

If DISABLED, the SRT will not proactively notify contacts about escalations or to initiate proactive customer support.

Type: String

Valid Values: ENABLED | DISABLED | PENDING

Required: No

StartTime

The start time of the subscription, in Unix time in seconds.

Type: Timestamp

Required: No

SubscriptionArn

The ARN (Amazon Resource Name) of the subscription.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^arn:aws.*`

Required: No

TimeCommitmentInSeconds

The length, in seconds, of the AWS Shield Advanced subscription for the account.

Type: Long

Valid Range: Minimum value of 0.

Required: No

See Also

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

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

SubscriptionLimits

Limits settings for your subscription.

Contents

ProtectionGroupLimits

Limits settings on protection groups for your subscription.

Type: [ProtectionGroupLimits](#) object

Required: Yes

ProtectionLimits

Limits settings on protections for your subscription.

Type: [ProtectionLimits](#) object

Required: Yes

See Also

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

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

SummarizedAttackVector

A summary of information about the attack.

Contents

VectorType

The attack type, for example, SNMP reflection or SYN flood.

Type: String

Required: Yes

VectorCounters

The list of counters that describe the details of the attack.

Type: Array of [SummarizedCounter](#) objects

Required: No

See Also

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

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

SummarizedCounter

The counter that describes a DDoS attack.

Contents

Average

The average value of the counter for a specified time period.

Type: Double

Required: No

Max

The maximum value of the counter for a specified time period.

Type: Double

Required: No

N

The number of counters for a specified time period.

Type: Integer

Required: No

Name

The counter name.

Type: String

Required: No

Sum

The total of counter values for a specified time period.

Type: Double

Required: No

Unit

The unit of the counters.

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](#)

Tag

A tag associated with an AWS resource. Tags are key:value pairs that you can use to categorize and manage your resources, for purposes like billing or other management. Typically, the tag key represents a category, such as "environment", and the tag value represents a specific value within that category, such as "test," "development," or "production". Or you might set the tag key to "customer" and the value to the customer name or ID. You can specify one or more tags to add to each AWS resource, up to 50 tags for a resource.

Contents

Key

Part of the key:value pair that defines a tag. You can use a tag key to describe a category of information, such as "customer." Tag keys are case-sensitive.

Type: String

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

Required: No

Value

Part of the key:value pair that defines a tag. You can use a tag value to describe a specific value within a category, such as "companyA" or "companyB." Tag values are case-sensitive.

Type: String

Length Constraints: Minimum length of 0. 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](#)

TimeRange

The time range.

Contents

FromInclusive

The start time, in Unix time in seconds.

Type: Timestamp

Required: No

ToExclusive

The end time, in Unix time in seconds.

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](#)

ValidationExceptionField

Provides information about a particular parameter passed inside a request that resulted in an exception.

Contents

message

The message describing why the parameter failed validation.

Type: String

Required: Yes

name

The name of the parameter that failed validation.

Type: String

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](#)

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