Amazon Inspector

API Reference

API Version 2016-02-16

aws

Amazon Inspector: API Reference

Table of Contents

Welcome

Amazon Inspector enables you to analyze the behavior of your AWS resources and to identify potential security issues. For more information, see Amazon Inspector User Guide.

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Actions

The following actions are supported:

AddAttributesToFindings

Assigns attributes (key and value pairs) to the findings that are specified by the ARNs of the findings.

Request Syntax

```
{
    "attributes": [
        {
            "key": "string",
            "value": "string"
        }
    ],
    "findingArns": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

attributes (p. 3)

The array of attributes that you want to assign to specified findings.

Type: Array of Attribute (p. 150) objects

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

Required: Yes

findingArns (p. 3)

The ARNs that specify the findings that you want to assign attributes to.

Type: Array of strings

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

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

Required: Yes

Response Syntax

```
{
    "failedItems": {
        "string" : {
            "failureCode": "string",
            "retryable": boolean
        }
    }
}
```

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.

failedItems (p. 3)

> Attribute details that cannot be described. An error code is provided for each failed item.
>
> Type: String to FailedItemDetails (p. 157) object map
>
> Key Length Constraints: Minimum length of 1. Maximum length of 300.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

> Internal server error.
>
> HTTP Status Code: 500

InvalidInputException

> The request was rejected because an invalid or out-of-range value was supplied for an input parameter.
>
> HTTP Status Code: 400

NoSuchEntityException

> The request was rejected because it referenced an entity that does not exist. The error code describes the entity.
>
> HTTP Status Code: 400

ServiceTemporarilyUnavailableException

> The serice is temporary unavailable.
>
> HTTP Status Code: 400

Examples

Example

This example illustrates one usage of AddAttributesToFindings.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 189
```

```
          X-Amz-Target: InspectorService.AddAttributesToFindings
          X-Amz-Date: 20160329T233810Z
          User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
          Content-Type: application/x-amz-json-1.1
          Authorization: AUTHPARAMS
          {
            "attributes": [
              {
                "key": "Example",
                "value": "example"
              }
            ],
            "findingArns": [
              "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-8l1VIE0D/run/0-Z02cjjug/finding/0-T8yM9mEU"
            ]
          }
```

Sample Response

```
          HTTP/1.1 200 OK
          x-amzn-RequestId: 4c8b9c50-f607-11e5-9380-d76f0924b6d7
          Content-Type: application/x-amz-json-1.1
          Content-Length: 18
          Date: Tue, 29 Mar 2016 23:38:11 GMT
          {
            "failedItems": {}
          }
```

See Also

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

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

CreateAssessmentTarget

Creates a new assessment target using the ARN of the resource group that is generated by
CreateResourceGroup (p. 15). If resourceGroupArn is not specified, all EC2 instances in the current
AWS account and region are included in the assessment target. If the service-linked role isn't already
registered, this action also creates and registers a service-linked role to grant Amazon Inspector access
to AWS Services needed to perform security assessments. You can create up to 50 assessment targets
per AWS account. You can run up to 500 concurrent agents per AWS account. For more information, see
Amazon Inspector Assessment Targets.

Request Syntax

```
{
    "assessmentTargetName": "string",
    "resourceGroupArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common
Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentTargetName (p. 6)

The user-defined name that identifies the assessment target that you want to create. The name
must be unique within the AWS account.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Required: Yes

resourceGroupArn (p. 6)

The ARN that specifies the resource group that is used to create the assessment target. If
resourceGroupArn is not specified, all EC2 instances in the current AWS account and region are
included in the assessment target.

Type: String

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

Required: No

Response Syntax

```
{
    "assessmentTargetArn": "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.

assessmentTargetArn (p. 6)

The ARN that specifies the assessment target that is created.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidCrossAccountRoleException

Amazon Inspector cannot assume the cross-account role that it needs to list your EC2 instances during the assessment run.

HTTP Status Code: 400

InvalidInputException

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

HTTP Status Code: 400

LimitExceededException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

ServiceTemporarilyUnavailableException

The serice is temporary unavailable.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of CreateAssessmentTarget.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 129
X-Amz-Target: InspectorService.CreateAssessmentTarget
X-Amz-Date: 20160331T174054Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
   "assessmentTargetName": "ExampleAssessmentTarget",
   "resourceGroupArn": "arn:aws:inspector:us-
west-2:123456789012:resourcegroup/0-AB6DMKnv"
           }
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: b87f981e-f767-11e5-82d7-bb83264505be
Content-Type: application/x-amz-json-1.1
Content-Length: 84
Date: Thu, 31 Mar 2016 17:40:55 GMT
{
   "assessmentTargetArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-nvgVhaxX"
           }
```

See Also

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

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

CreateAssessmentTemplate

Creates an assessment template for the assessment target that is specified by the ARN of the assessment target. If the service-linked role isn't already registered, this action also creates and registers a service-linked role to grant Amazon Inspector access to AWS Services needed to perform security assessments.

Request Syntax

```
{
    "assessmentTargetArn": "string",
    "assessmentTemplateName": "string",
    "durationInSeconds": number,
    "rulesPackageArns": [ "string" ],
    "userAttributesForFindings": [
        {
            "key": "string",
            "value": "string"
        }
    ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentTargetArn (p. 9)

The ARN that specifies the assessment target for which you want to create the assessment template.

Type: String

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

Required: Yes

assessmentTemplateName (p. 9)

The user-defined name that identifies the assessment template that you want to create. You can create several assessment templates for an assessment target. The names of the assessment templates that correspond to a particular assessment target must be unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Required: Yes

durationInSeconds (p. 9)

The duration of the assessment run in seconds.

Type: Integer

Valid Range: Minimum value of 180. Maximum value of 86400.

Required: Yes

rulesPackageArns (p. 9)

>   The ARNs that specify the rules packages that you want to attach to the assessment template.

>   Type: Array of strings

>   Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

>   Required: Yes

userAttributesForFindings (p. 9)

>   The user-defined attributes that are assigned to every finding that is generated by the assessment run that uses this assessment template. An attribute is a key and value pair (an Attribute (p. 150) object). Within an assessment template, each key must be unique.

>   Type: Array of Attribute (p. 150) objects

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

>   Required: No

Response Syntax

```
{
    "assessmentTemplateArn": "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.

assessmentTemplateArn (p. 10)

>   The ARN that specifies the assessment template that is created.

>   Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

>   Internal server error.

>   HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

LimitExceededException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

ServiceTemporarilyUnavailableException

The serice is temporary unavailable.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of CreateAssessmentTemplate.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 335
X-Amz-Target: InspectorService.CreateAssessmentTemplate
X-Amz-Date: 20160331T175559Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "assessmentTargetArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-nvgVhaxX",
    "assessmentTemplateName": "ExampleAssessmentTemplate",
    "userAttributesForFindings": [
      {
        "key": "Example",
        "value": "example"
      }
    ],
    "durationInSeconds": 180,
    "rulesPackageArns": [
      "arn:aws:inspector:us-west-2:758058086616:rulespackage/0-11B9DBXp"
    ]
}
```

Sample Response

```
                         HTTP/1.1 200 OK
                         x-amzn-RequestId: d3d3d58e-f769-11e5-9da0-9bde5220d15c
                         Content-Type: application/x-amz-json-1.1
                         Content-Length: 106
                         Date: Thu, 31 Mar 2016 17:56:00 GMT
                         {
                            "assessmentTemplateArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-nvgVhaxX/template/0-it5r2S4T"
                         }
```

See Also

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

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

CreateExclusionsPreview

Starts the generation of an exclusions preview for the specified assessment template. The exclusions preview lists the potential exclusions (ExclusionPreview) that Inspector can detect before it runs the assessment.

Request Syntax

```
{
    "assessmentTemplateArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentTemplateArn (p. 13)

The ARN that specifies the assessment template for which you want to create an exclusions preview.

Type: String

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

Required: Yes

Response Syntax

```
{
    "previewToken": "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.

previewToken (p. 13)

Specifies the unique identifier of the requested exclusions preview. You can use the unique identifier to retrieve the exclusions preview when running the GetExclusionsPreview API.

Type: String

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

PreviewGenerationInProgressException

The request is rejected. The specified assessment template is currently generating an exclusions preview.

HTTP Status Code: 400

ServiceTemporarilyUnavailableException

The serice is temporary unavailable.

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

CreateResourceGroup

Creates a resource group using the specified set of tags (key and value pairs) that are used to select the EC2 instances to be included in an Amazon Inspector assessment target. The created resource group is then used to create an Amazon Inspector assessment target. For more information, see CreateAssessmentTarget (p. 6).

Request Syntax

```
{
    "resourceGroupTags": [
        {
            "key": "string",
            "value": "string"
        }
    ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

resourceGroupTags (p. 15)

A collection of keys and an array of possible values, '[{"key":"key1","values":["Value1","Value2"]}, {"key":"Key2","values":["Value3"]}]'.

For example,'[{"key":"Name","values":["TestEC2Instance"]}]'.

Type: Array of ResourceGroupTag (p. 168) objects

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

Required: Yes

Response Syntax

```
{
    "resourceGroupArn": "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.

resourceGroupArn (p. 15)

The ARN that specifies the resource group that is created.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

LimitExceededException

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

HTTP Status Code: 400

ServiceTemporarilyUnavailableException

The serice is temporary unavailable.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of CreateResourceGroup.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 67
X-Amz-Target: InspectorService.CreateResourceGroup
X-Amz-Date: 20160331T171757Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "resourceGroupTags": [
    {
      "key": "Name",
      "value": "example"
    }
  ]
}
```

Sample Response

```
                HTTP/1.1 200 OK
                x-amzn-RequestId: 8416dfb4-f764-11e5-872a-fde3682789d5
                Content-Type: application/x-amz-json-1.1
                Content-Length: 88
                Date: Thu, 31 Mar 2016 17:17:58 GMT
                {
                    "resourceGroupArn": "arn:aws:inspector:us-
west-2:123456789012:resourcegroup/0-AB6DMKnv"
                }
```

See Also

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

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

DeleteAssessmentRun

Deletes the assessment run that is specified by the ARN of the assessment run.

Request Syntax

```
{
    "assessmentRunArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentRunArn (p. 18)

The ARN that specifies the assessment run that you want to delete.

Type: String

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

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 Errors (p. 179).

AssessmentRunInProgressException

You cannot perform a specified action if an assessment run is currently in progress.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

ServiceTemporarilyUnavailableException

The serice is temporary unavailable.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DeleteAssessmentRun.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 117
X-Amz-Target: InspectorService.DeleteAssessmentRun
X-Amz-Date: 20160331T183810Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
   "assessmentRunArn": "arn:aws:inspector:us-west-2:123456789012:target/0-
nvgVhaxX/template/0-it5r2S4T/run/0-11LMTAVe"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: b8494bff-f76f-11e5-9d49-6dd670a2a95d
Content-Type: application/x-amz-json-1.1
Content-Length: 0
Date: Thu, 31 Mar 2016 18:38:11 GMT
```

See Also

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

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

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

DeleteAssessmentTarget

Deletes the assessment target that is specified by the ARN of the assessment target.

Request Syntax

```
{
    "assessmentTargetArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common
Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentTargetArn (p. 21)

The ARN that specifies the assessment target that you want to delete.

Type: String

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

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 Errors (p. 179).

AssessmentRunInProgressException

You cannot perform a specified action if an assessment run is currently in progress.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code
describes the entity.

HTTP Status Code: 400

ServiceTemporarilyUnavailableException

The serice is temporary unavailable.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DeleteAssessmentTarget.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 85
X-Amz-Target: InspectorService.DeleteAssessmentTarget
X-Amz-Date: 20160331T184144Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "assessmentTargetArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-0kFIPusq"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 37dee3da-f770-11e5-b61e-e163adb0c30c
Content-Type: application/x-amz-json-1.1
Content-Length: 0
Date: Thu, 31 Mar 2016 18:41:45 GMT
```

See Also

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

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

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

DeleteAssessmentTemplate

Deletes the assessment template that is specified by the ARN of the assessment template.

Request Syntax

```
{
    "assessmentTemplateArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common
Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentTemplateArn (p. 24)

The ARN that specifies the assessment template that you want to delete.

Type: String

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

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 Errors (p. 179).

AssessmentRunInProgressException

You cannot perform a specified action if an assessment run is currently in progress.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code
describes the entity.

HTTP Status Code: 400

ServiceTemporarilyUnavailableException

The serice is temporary unavailable.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DeleteAssessmentTemplate.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 107
X-Amz-Target: InspectorService.DeleteAssessmentTemplate
X-Amz-Date: 20160331T184505Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
   "assessmentTemplateArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-nvgVhaxX/template/0-it5r2S4T"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: afcc2e7e-f770-11e5-8f9c-054cd1296cf6
Content-Type: application/x-amz-json-1.1
Content-Length: 0
Date: Thu, 31 Mar 2016 18:45:06 GMT
```

See Also

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

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

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

DescribeAssessmentRuns

Describes the assessment runs that are specified by the ARNs of the assessment runs.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentRunArns (p. 27)

The ARN that specifies the assessment run that you want to describe.

Type: Array of strings

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

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

Required: Yes

Response Syntax

```
{
    "assessmentRuns": [
        {
            "arn": "string",
            "assessmentTemplateArn": "string",
            "completedAt": number,
            "createdAt": number,
            "dataCollected": boolean,
            "durationInSeconds": number,
            "findingCounts": {
                "string" : number
            },
            "name": "string",
            "notifications": [
                {
                    "date": number,
                    "error": boolean,
                    "event": "string",
                    "message": "string",
                    "snsPublishStatusCode": "string",
                    "snsTopicArn": "string"
                }
            ],
            "rulesPackageArns": [ "string" ],
            "startedAt": number,
            "state": "string",
```

```
            "stateChangedAt": number,
            "stateChanges": [
                {
                    "state": "string",
                    "stateChangedAt": number
                }
            ],
            "userAttributesForFindings": [
                {
                    "key": "string",
                    "value": "string"
                }
            ]
        }
    ],
    "failedItems": {
        "string" : {
            "failureCode": "string",
            "retryable": boolean
        }
    }
}
```

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.

assessmentRuns (p. 27)

Information about the assessment run.

Type: Array of AssessmentRun (p. 132) objects

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

failedItems (p. 27)

Assessment run details that cannot be described. An error code is provided for each failed item.

Type: String to FailedItemDetails (p. 157) object map

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeAssessmentRuns.

Sample Request

```
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 120
X-Amz-Target: InspectorService.DescribeAssessmentRuns
X-Amz-Date: 20160323T213431Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "assessmentRunArns": [
      "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-4r1V2mAw/run/0-MKkpXXPE"
      ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0834f495-f13f-11e5-8a9a-395a36305628
Content-Type: application/x-amz-json-1.1
Content-Length: 1156
Date: Wed, 23 Mar 2016 21:34:32 GMT
{
  "assessmentRuns": [
    {
      "arn": "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-4r1V2mAw/run/0-MKkpXXPE",
      "assessmentTemplateArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-0kFIPusq/template/0-4r1V2mAw",
      "completedAt": 1458680301.4,
      "createdAt": 1458680170.035,
      "dataCollected": true,
      "durationInSeconds": 3600,
      "name": "Run 1 for ExampleAssessmentTemplate",
      "notifications": [],
      "rulesPackageArns": [
        "arn:aws:inspector:us-west-2:758058086616:rulespackage/0-X1KXtawP"
      ],
      "startedAt": 1458680170.161,
      "state": "COMPLETED",
      "stateChangedAt": 1458680301.4,
      "stateChanges": [
        {
          "state": "CREATED",
          "stateChangedAt": 1458680170.035
        },
        {
```

```
                    "state": "START_DATA_COLLECTION_PENDING",
                    "stateChangedAt": 1458680170.065
                },
                {
                    "state": "START_DATA_COLLECTION_IN_PROGRESS",
                    "stateChangedAt": 1458680170.096
                },
                {
                    "state": "COLLECTING_DATA",
                    "stateChangedAt": 1458680170.161
                },
                {
                    "state": "STOP_DATA_COLLECTION_PENDING",
                    "stateChangedAt": 1458680239.883
                },
                {
                    "state": "DATA_COLLECTED",
                    "stateChangedAt": 1458680299.847
                },
                {
                    "state": "EVALUATING_RULES",
                    "stateChangedAt": 1458680300.099
                },
                {
                    "state": "COMPLETED",
                    "stateChangedAt": 1458680301.4
                }
            ],
            "userAttributesForFindings": []
        }
    ],
    "failedItems": {}
}
```

See Also

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

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

DescribeAssessmentTargets

Describes the assessment targets that are specified by the ARNs of the assessment targets.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common
Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentTargetArns (p. 31)

> The ARNs that specifies the assessment targets that you want to describe.
>
> Type: Array of strings
>
> Array Members: Minimum number of 1 item. Maximum number of 10 items.
>
> Length Constraints: Minimum length of 1. Maximum length of 300.
>
> Required: Yes

Response Syntax

```
{
    "assessmentTargets": [
        {
            "arn": "string",
            "createdAt": number,
            "name": "string",
            "resourceGroupArn": "string",
            "updatedAt": number
        }
    ],
    "failedItems": {
        "string" : {
            "failureCode": "string",
            "retryable": boolean
        }
    }
}
```

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.

assessmentTargets (p. 31)

Information about the assessment targets.

Type: Array of AssessmentTarget (p. 142) objects

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

failedItems (p. 31)

Assessment target details that cannot be described. An error code is provided for each failed item.

Type: String to FailedItemDetails (p. 157) object map

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeAssessmentTargets.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 88
X-Amz-Target: InspectorService.DescribeAssessmentTargets
X-Amz-Date: 20160323T214315Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "assessmentTargetArns": [
    "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 407ddf01-f140-11e5-823c-bd257ba1495d
Content-Type: application/x-amz-json-1.1
Content-Length: 287
Date: Wed, 23 Mar 2016 21:43:16 GMT
{
  "assessmentTargets": [
    {
      "arn": "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq",
      "createdAt": 1458074191.459,
      "name": "ExampleAssessmentTarget",
      "resourceGroupArn": "arn:aws:inspector:us-
west-2:123456789012:resourcegroup/0-PyGXopAI",
      "updatedAt": 1458074191.459
    }
  ],
  "failedItems": {}
}
```

See Also

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

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

DescribeAssessmentTemplates

Describes the assessment templates that are specified by the ARNs of the assessment templates.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentTemplateArns (p. 34)

> Type: Array of strings
>
> Array Members: Minimum number of 1 item. Maximum number of 10 items.
>
> Length Constraints: Minimum length of 1. Maximum length of 300.
>
> Required: Yes

Response Syntax

```
{
   "assessmentTemplates": [
      {
         "arn": "string",
         "assessmentRunCount": number,
         "assessmentTargetArn": "string",
         "createdAt": number,
         "durationInSeconds": number,
         "lastAssessmentRunArn": "string",
         "name": "string",
         "rulesPackageArns": [ "string" ],
         "userAttributesForFindings": [
            {
               "key": "string",
               "value": "string"
            }
         ]
      }
   ],
   "failedItems": {
      "string" : {
         "failureCode": "string",
         "retryable": boolean
      }
   }
}
```

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.

assessmentTemplates (p. 34)

>   Information about the assessment templates.
>
>   Type: Array of AssessmentTemplate (p. 145) objects
>
>   Array Members: Minimum number of 0 items. Maximum number of 10 items.

failedItems (p. 34)

>   Assessment template details that cannot be described. An error code is provided for each failed item.
>
>   Type: String to FailedItemDetails (p. 157) object map
>
>   Key Length Constraints: Minimum length of 1. Maximum length of 300.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

>   Internal server error.
>
>   HTTP Status Code: 500

InvalidInputException

>   The request was rejected because an invalid or out-of-range value was supplied for an input parameter.
>
>   HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeAssessmentTemplates.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 110
X-Amz-Target: InspectorService.DescribeAssessmentTemplates
X-Amz-Date: 20160323T214822Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
```

```
                {
                  "assessmentTemplateArns": [
                    "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-4r1V2mAw"
                  ]
                }
```

Sample Response

```
            HTTP/1.1 200 OK
            x-amzn-RequestId: f73a449b-f140-11e5-b473-ed8493878c40
            Content-Type: application/x-amz-json-1.1
            Content-Length: 422
            Date: Wed, 23 Mar 2016 21:48:23 GMT
            {
              "assessmentTemplates": [
                {
                  "arn": "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-4r1V2mAw",
                  "assessmentTargetArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-0kFIPusq",
                  "createdAt": 1458074191.844,
                  "durationInSeconds": 3600,
                  "name": "ExampleAssessmentTemplate",
                  "rulesPackageArns": [
                    "arn:aws:inspector:us-west-2:758058086616:rulespackage/0-X1KXtawP"
                  ],
                  "userAttributesForFindings": []
                }
              ],
              "failedItems": {}
            }
```

See Also

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

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

DescribeCrossAccountAccessRole

Describes the IAM role that enables Amazon Inspector to access your AWS account.

Response Syntax

```
{
    "registeredAt": number,
    "roleArn": "string",
    "valid": boolean
}
```

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.

registeredAt (p. 37)

> The date when the cross-account access role was registered.
>
> Type: Timestamp

roleArn (p. 37)

> The ARN that specifies the IAM role that Amazon Inspector uses to access your AWS account.
>
> Type: String
>
> Length Constraints: Minimum length of 1. Maximum length of 300.

valid (p. 37)

> A Boolean value that specifies whether the IAM role has the necessary policies attached to enable Amazon Inspector to access your AWS account.
>
> Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

> Internal server error.
>
> HTTP Status Code: 500

Examples

Example

This example illustrates one usage of DescribeCrossAccountAccessRole.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: InspectorService.DescribeCrossAccountAccessRole
X-Amz-Date: 20160323T215330Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: aef491a7-f141-11e5-bf1e-bbcaffe8bf2e
Content-Type: application/x-amz-json-1.1
Content-Length: 99
Date: Wed, 23 Mar 2016 21:53:32 GMT
{
  "registeredAt": 1458069182.826,
  "roleArn": "arn:aws:iam::123456789012:role/inspector",
  "valid": true
}
```

See Also

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

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

DescribeExclusions

Describes the exclusions that are specified by the exclusions' ARNs.

Request Syntax

```
{
   "exclusionArns": [ "string" ],
   "locale": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

exclusionArns (p. 39)

The list of ARNs that specify the exclusions that you want to describe.

Type: Array of strings

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

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

Required: Yes

locale (p. 39)

The locale into which you want to translate the exclusion's title, description, and recommendation.

Type: String

Valid Values: EN_US

Required: No

Response Syntax

```
{
   "exclusions": {
      "string" : {
         "arn": "string",
         "attributes": [
            {
               "key": "string",
               "value": "string"
            }
         ],
         "description": "string",
         "recommendation": "string",
         "scopes": [
            {
               "key": "string",
```

```
            "value": "string"
          }
        ],
        "title": "string"
      }
    },
    "failedItems": {
      "string" : {
        "failureCode": "string",
        "retryable": boolean
      }
    }
}
```

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.

exclusions (p. 39)

> Information about the exclusions.
>
> Type: String to Exclusion (p. 153) object map
>
> Map Entries: Maximum number of 100 items.
>
> Key Length Constraints: Minimum length of 1. Maximum length of 300.

failedItems (p. 39)

> Exclusion details that cannot be described. An error code is provided for each failed item.
>
> Type: String to FailedItemDetails (p. 157) object map
>
> Key Length Constraints: Minimum length of 1. Maximum length of 300.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

> Internal server error.
>
> HTTP Status Code: 500

InvalidInputException

> The request was rejected because an invalid or out-of-range value was supplied for an input parameter.
>
> HTTP Status Code: 400

See Also

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

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

DescribeFindings

Describes the findings that are specified by the ARNs of the findings.

Request Syntax

```
{
    "findingArns": [ "string" ],
    "locale": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common
Parameters (p. 177).

The request accepts the following data in JSON format.

findingArns (p. 42)

The ARN that specifies the finding that you want to describe.

Type: Array of strings

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

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

Required: Yes

locale (p. 42)

The locale into which you want to translate a finding description, recommendation, and the short
description that identifies the finding.

Type: String

Valid Values: `EN_US`

Required: No

Response Syntax

```
{
    "failedItems": {
        "string" : {
            "failureCode": "string",
            "retryable": boolean
        }
    },
    "findings": [
        {
            "arn": "string",
            "assetAttributes": {
                "agentId": "string",
                "amiId": "string",
                "autoScalingGroup": "string",
```

```
            "hostname": "string",
            "ipv4Addresses": [ "string" ],
            "networkInterfaces": [
                {
                    "ipv6Addresses": [ "string" ],
                    "networkInterfaceId": "string",
                    "privateDnsName": "string",
                    "privateIpAddress": "string",
                    "privateIpAddresses": [
                        {
                            "privateDnsName": "string",
                            "privateIpAddress": "string"
                        }
                    ],
                    "publicDnsName": "string",
                    "publicIp": "string",
                    "securityGroups": [
                        {
                            "groupId": "string",
                            "groupName": "string"
                        }
                    ],
                    "subnetId": "string",
                    "vpcId": "string"
                }
            ],
            "schemaVersion": number,
            "tags": [
                {
                    "key": "string",
                    "value": "string"
                }
            ]
        },
        "assetType": "string",
        "attributes": [
            {
                "key": "string",
                "value": "string"
            }
        ],
        "confidence": number,
        "createdAt": number,
        "description": "string",
        "id": "string",
        "indicatorOfCompromise": boolean,
        "numericSeverity": number,
        "recommendation": "string",
        "schemaVersion": number,
        "service": "string",
        "serviceAttributes": {
            "assessmentRunArn": "string",
            "rulesPackageArn": "string",
            "schemaVersion": number
        },
        "severity": "string",
        "title": "string",
        "updatedAt": number,
        "userAttributes": [
            {
                "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.

failedItems (p. 42)

Finding details that cannot be described. An error code is provided for each failed item.

Type: String to FailedItemDetails (p. 157) object map

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

findings (p. 42)

Information about the finding.

Type: Array of Finding (p. 158) objects

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeFindings.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 133
X-Amz-Target: InspectorService.DescribeFindings
X-Amz-Date: 20160323T215809Z
```

```
            User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
            Content-Type: application/x-amz-json-1.1
            Authorization: AUTHPARAMS
            {
              "findingArns": [
                "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-4r1V2mAw/run/0-MKkpXXPE/finding/0-HwPnsDm4"
              ]
            }
```

Sample Response

```
            HTTP/1.1 200 OK
            x-amzn-RequestId: 555dbc27-f142-11e5-9dc2-6746fe4b2002
            Content-Type: application/x-amz-json-1.1
            Content-Length: 892
            Date: Wed, 23 Mar 2016 21:58:10 GMT
            {
              "failedItems": {},
              "findings": [
                {
                  "arn": "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-4r1V2mAw/run/0-MKkpXXPE/finding/0-HwPnsDm4",
                  "assetAttributes": {
                    "agentId": "i-092e1184e67721f24",
                    "amiId": "ami-0ad99772",
                    "autoScalingGroup": "auto scaling group",
                    "hostname": "ec2-54-202-242-173.us-west-2.compute.amazonaws.com",
                    "ipv4Addresses": [],
                    "networkInterfaces": [
                      {
                        "ipv6Addresses": [],
                        "networkInterfaceId": "eni-09b5ad02",
                        "privateDnsName": "ip-172-31-36-75.us-west-2.compute.internal",
                        "privateIpAddress": "172.31.36.75",
                        "privateIpAddresses": [
                          {
                            "privateDnsName": "ip-172-31-36-75.us-
west-2.compute.internal",
                            "privateIpAddress": "172.31.36.75"
                          }
                        ],
                        "publicDnsName": "ec2-54-202-242-173.us-
west-2.compute.amazonaws.com",
                        "publicIp": "54.202.242.173",
                        "securityGroups": [
                          {
                            "groupId": "sg-48578931",
                            "groupName": "default"
                          }
                        ],
                        "subnetId": "subnet-8aeebbfc",
                        "vpcId": "vpc-05515b61"
                      }
                    ],
                    "schemaVersion": 1,
                    "tags": [
                      {
                        "key": "scaling",
                        "value": "yes"
```

```
                },
                {
                  "key": "aws:autoscaling:groupName",
                  "value": "auto scaling group"
                },
                {
                  "key": "Name",
                  "value": "beta_amazon_linux_201803_scaling"
                },
                {
                  "key": "beta",
                  "value": "true"
                }
              ]
            },
            "assetType": "ec2-instance",
            "attributes": [],
            "confidence": 10,
            "createdAt": 1458680301.37,
            "description": "Amazon Inspector did not find any potential security
 issues during this assessment.",
            "indicatorOfCompromise": false,
            "numericSeverity": 0,
            "recommendation": "No remediation needed.",
            "schemaVersion": 1,
            "service": "Inspector",
            "serviceAttributes": {
                "assessmentRunArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-0kFIPusq/template/0-4r1V2mAw/run/0-MKkpXXPE",
                "rulesPackageArn": "arn:aws:inspector:us-
west-2:758058086616:rulespackage/0-X1KXtawP",
                "schemaVersion": 1
            },
            "severity": "Informational",
            "title": "No potential security issues found",
            "updatedAt": 1458680301.37,
            "userAttributes": []
        }
      ]
    }
```

See Also

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

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

DescribeResourceGroups

Describes the resource groups that are specified by the ARNs of the resource groups.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

resourceGroupArns (p. 47)

> The ARN that specifies the resource group that you want to describe.
>
> Type: Array of strings
>
> Array Members: Minimum number of 1 item. Maximum number of 10 items.
>
> Length Constraints: Minimum length of 1. Maximum length of 300.
>
> Required: Yes

Response Syntax

```
{
    "failedItems": {
        "string" : {
            "failureCode": "string",
            "retryable": boolean
        }
    },
    "resourceGroups": [
        {
            "arn": "string",
            "createdAt": number,
            "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.

failedItems (p. 47)

> Resource group details that cannot be described. An error code is provided for each failed item.

> Type: String to FailedItemDetails (p. 157) object map

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

resourceGroups (p. 47)

> Information about a resource group.

> Type: Array of ResourceGroup (p. 167) 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 Errors (p. 179).

InternalException

> Internal server error.

> HTTP Status Code: 500

InvalidInputException

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

> HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeResourceGroups.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 92
X-Amz-Target: InspectorService.DescribeResourceGroups
X-Amz-Date: 20160323T220453Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "resourceGroupArns": [
    "arn:aws:inspector:us-west-2:123456789012:resourcegroup/0-PyGXopAI"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 4636d6a9-f143-11e5-9f03-eb6e194efa59
Content-Type: application/x-amz-json-1.1
Content-Length: 191
Date: Wed, 23 Mar 2016 22:04:54 GMT
{
  "failedItems": {},
  "resourceGroups": [
    {
      "arn": "arn:aws:inspector:us-west-2:123456789012:resourcegroup/0-
PyGXopAI",
      "createdAt": 1458074191.098,
      "tags": [
        {
          "key": "Name",
          "value": "example"
        }
      ]
    }
  ]
}
```

See Also

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

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

DescribeRulesPackages

Describes the rules packages that are specified by the ARNs of the rules packages.

Request Syntax

```
{
    "locale": "string",
    "rulesPackageArns": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common
Parameters (p. 177).

The request accepts the following data in JSON format.

locale (p. 50)

The locale that you want to translate a rules package description into.

Type: String

Valid Values: EN_US

Required: No

rulesPackageArns (p. 50)

The ARN that specifies the rules package that you want to describe.

Type: Array of strings

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

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

Required: Yes

Response Syntax

```
{
    "failedItems": {
        "string" : {
            "failureCode": "string",
            "retryable": boolean
        }
    },
    "rulesPackages": [
        {
            "arn": "string",
            "description": "string",
            "name": "string",
            "provider": "string",
            "version": "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.

failedItems (p. 50)

Rules package details that cannot be described. An error code is provided for each failed item.

Type: String to FailedItemDetails (p. 157) object map

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

rulesPackages (p. 50)

Information about the rules package.

Type: Array of RulesPackage (p. 169) 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 Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of DescribeRulesPackages.

Sample Request

```
        POST / HTTP/1.1
        Host: inspector.us-west-2.amazonaws.com
        Accept-Encoding: identity
        Content-Length: 90
        X-Amz-Target: InspectorService.DescribeRulesPackages
        X-Amz-Date: 20160323T220919Z
```

```
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "rulesPackageArns": [
    "arn:aws:inspector:us-west-2:758058086616:rulespackage/0-9hgA516p"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: e4a6aee0-f143-11e5-a5ad-73b7f19c946c
Content-Type: application/x-amz-json-1.1
Content-Length: 387
Date: Wed, 23 Mar 2016 22:09:20 GMT
{
  "failedItems": {},
  "rulesPackages": [
    {
      "arn": "arn:aws:inspector:us-
west-2:758058086616:rulespackage/0-9hgA516p",
      "description": "The rules in this package help verify whether the EC2
 instances in your application are exposed to Common Vulnerabilities and
      Exposures (CVEs). Attacks can exploit unpatched vulnerabilities to
 compromise the confidentiality, integrity, or availability of your service
      or data. The CVE system provides a reference for publicly known
 information security vulnerabilities and exposures. For more information, see
      [https://cve.mitre.org/](https://cve.mitre.org/). If a particular CVE
 appears in one of the produced Findings at the end of a completed
      Inspector assessment, you can search [https://cve.mitre.org/](https://
cve.mitre.org/) using the CVE's ID (for example, \"CVE-2009-0021\") to
      find detailed information about this CVE, its severity, and how to
 mitigate it. ",
      "name": "Common Vulnerabilities and Exposures",
      "provider": "Amazon Web Services, Inc.",
      "version": "1.1"
    }
  ]
}
```

See Also

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

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

- AWS SDK for Ruby V3

GetAssessmentReport

Produces an assessment report that includes detailed and comprehensive results of a specified assessment run.

Request Syntax

```
{
    "assessmentRunArn": "string",
    "reportFileFormat": "string",
    "reportType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentRunArn (p. 54)

The ARN that specifies the assessment run for which you want to generate a report.

Type: String

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

Required: Yes

reportFileFormat (p. 54)

Specifies the file format (html or pdf) of the assessment report that you want to generate.

Type: String

Valid Values: `HTML | PDF`

Required: Yes

reportType (p. 54)

Specifies the type of the assessment report that you want to generate. There are two types of assessment reports: a finding report and a full report. For more information, see Assessment Reports.

Type: String

Valid Values: `FINDING | FULL`

Required: Yes

Response Syntax

```
{
    "status": "string",
```

```
    "url": "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.

status (p. 54)

Specifies the status of the request to generate an assessment report.

Type: String

Valid Values: `WORK_IN_PROGRESS` | `FAILED` | `COMPLETED`

url (p. 54)

Specifies the URL where you can find the generated assessment report. This parameter is only returned if the report is successfully generated.

Type: String

Length Constraints: Maximum length of 2048.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

AssessmentRunInProgressException

You cannot perform a specified action if an assessment run is currently in progress.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

ServiceTemporarilyUnavailableException

The serice is temporary unavailable.

HTTP Status Code: 400

UnsupportedFeatureException

Used by the GetAssessmentReport (p. 54) API. The request was rejected because you tried to generate a report for an assessment run that existed before reporting was supported in Amazon Inspector. You can only generate reports for assessment runs that took place or will take place after generating reports in Amazon Inspector became available.

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

GetExclusionsPreview

Retrieves the exclusions preview (a list of ExclusionPreview objects) specified by the preview token. You can obtain the preview token by running the CreateExclusionsPreview API.

Request Syntax

```
{
   "assessmentTemplateArn": "string",
   "locale": "string",
   "maxResults": number,
   "nextToken": "string",
   "previewToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentTemplateArn (p. 57)

The ARN that specifies the assessment template for which the exclusions preview was requested.

Type: String

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

Required: Yes

locale (p. 57)

The locale into which you want to translate the exclusion's title, description, and recommendation.

Type: String

Valid Values: `EN_US`

Required: No

maxResults (p. 57)

You can use this parameter to indicate the maximum number of items you want in the response. The default value is 100. The maximum value is 500.

Type: Integer

Required: No

nextToken (p. 57)

You can use this parameter when paginating results. Set the value of this parameter to null on your first call to the GetExclusionsPreviewRequest action. Subsequent calls to the action fill nextToken in the request with the value of nextToken from the previous response to continue listing data.

Type: String

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

Required: No

previewToken (p. 57)

The unique identifier associated of the exclusions preview.

Type: String

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Response Syntax

```
{
    "exclusionPreviews": [
        {
            "attributes": [
                {
                    "key": "string",
                    "value": "string"
                }
            ],
            "description": "string",
            "recommendation": "string",
            "scopes": [
                {
                    "key": "string",
                    "value": "string"
                }
            ],
            "title": "string"
        }
    ],
    "nextToken": "string",
    "previewStatus": "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.

exclusionPreviews (p. 58)

Information about the exclusions included in the preview.

Type: Array of ExclusionPreview (p. 155) objects

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

nextToken (p. 58)

When a response is generated, if there is more data to be listed, this parameters is present in the response and contains the value to use for the nextToken parameter in a subsequent pagination request. If there is no more data to be listed, this parameter is set to null.

Type: String

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

previewStatus (p. 58)

Specifies the status of the request to generate an exclusions preview.

Type: String

Valid Values: `WORK_IN_PROGRESS | COMPLETED`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

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

GetTelemetryMetadata

Information about the data that is collected for the specified assessment run.

Request Syntax

```
{
    "assessmentRunArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentRunArn (p. 60)

The ARN that specifies the assessment run that has the telemetry data that you want to obtain.

Type: String

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

Required: Yes

Response Syntax

```
{
    "telemetryMetadata": [
        {
            "count": number,
            "dataSize": number,
            "messageType": "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.

telemetryMetadata (p. 60)

Telemetry details.

Type: Array of TelemetryMetadata (p. 175) objects

Array Members: Minimum number of 0 items. Maximum number of 5000 items.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of GetTelemetryMetadata.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 117
X-Amz-Target: InspectorService.GetTelemetryMetadata
X-Amz-Date: 20160329T223852Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "assessmentRunArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-0kFIPusq/template/0-4r1V2mAw/run/0-MKkpXXPE"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 03ffa82f-f5ff-11e5-9cf9-9fd5e2aef2f6
Content-Type: application/x-amz-json-1.1
Content-Length: 1990
Date: Tue, 29 Mar 2016 22:38:53 GMT
```

```
{
  "telemetryMetadata": [
    {
      "count": 2,
      "dataSize": 345,
      "messageType": "InspectorDuplicateProcess"
    },
    {
      "count": 3,
      "dataSize": 255,
      "messageType": "InspectorTimeEventMsg"
    },
    {
      "count": 4,
      "dataSize": 1082,
      "messageType": "InspectorNetworkInterface"
    },
    {
      "count": 2,
      "dataSize": 349,
      "messageType": "InspectorDnsEntry"
    },
    {
      "count": 11,
      "dataSize": 2514,
      "messageType": "InspectorDirectoryInfoMsg"
    },
    {
      "count": 1,
      "dataSize": 179,
      "messageType": "InspectorTcpV6ListeningPort"
    },
    {
      "count": 101,
      "dataSize": 10949,
      "messageType": "InspectorTerminal"
    },
    {
      "count": 26,
      "dataSize": 5916,
      "messageType": "InspectorUser"
    },
    {
      "count": 282,
      "dataSize": 32148,
      "messageType": "InspectorDynamicallyLoadedCodeModule"
    },
    {
      "count": 18,
      "dataSize": 10172,
      "messageType": "InspectorCreateProcess"
    },
    {
      "count": 3,
      "dataSize": 8001,
      "messageType": "InspectorProcessPerformance"
    },
    {
      "count": 1,
      "dataSize": 360,
      "messageType": "InspectorOperatingSystem"
    },
    {
      "count": 6,
      "dataSize": 546,
      "messageType": "InspectorStopProcess"
```

```
    },
    {
      "count": 1,
      "dataSize": 1553,
      "messageType": "InspectorInstanceMetaData"
    },
    {
      "count": 2,
      "dataSize": 434,
      "messageType": "InspectorTcpV4Connection"
    },
    {
      "count": 474,
      "dataSize": 2960322,
      "messageType": "InspectorPackageInfo"
    },
    {
      "count": 3,
      "dataSize": 2235,
      "messageType": "InspectorSystemPerformance"
    },
    {
      "count": 105,
      "dataSize": 46048,
      "messageType": "InspectorCodeModule"
    },
    {
      "count": 1,
      "dataSize": 182,
      "messageType": "InspectorUdpV6ListeningPort"
    },
    {
      "count": 2,
      "dataSize": 371,
      "messageType": "InspectorUdpV4ListeningPort"
    },
    {
      "count": 18,
      "dataSize": 8362,
      "messageType": "InspectorKernelModule"
    },
    {
      "count": 29,
      "dataSize": 48788,
      "messageType": "InspectorConfigurationInfo"
    },
    {
      "count": 1,
      "dataSize": 79,
      "messageType": "InspectorMonitoringStart"
    },
    {
      "count": 5,
      "dataSize": 0,
      "messageType": "InspectorSplitMsgBegin"
    },
    {
      "count": 51,
      "dataSize": 4593,
      "messageType": "InspectorGroup"
    },
    {
      "count": 1,
      "dataSize": 184,
      "messageType": "InspectorTcpV4ListeningPort"
    },
```

```
                    {
                      "count": 1159,
                      "dataSize": 3146579,
                      "messageType": "Total"
                    },
                    {
                      "count": 5,
                      "dataSize": 0,
                      "messageType": "InspectorSplitMsgEnd"
                    },
                    {
                      "count": 1,
                      "dataSize": 612,
                      "messageType": "InspectorLoadImageInProcess"
                    }
                  ]
              }
```

See Also

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

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

ListAssessmentRunAgents

Lists the agents of the assessment runs that are specified by the ARNs of the assessment runs.

Request Syntax

```
{
   "assessmentRunArn": "string",
   "filter": {
      "agentHealthCodes": [ "string" ],
      "agentHealths": [ "string" ]
   },
   "maxResults": number,
   "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentRunArn (p. 65)

The ARN that specifies the assessment run whose agents you want to list.

Type: String

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

Required: Yes

filter (p. 65)

You can use this parameter to specify a subset of data to be included in the action's response.

For a record to match a filter, all specified filter attributes must match. When multiple values are specified for a filter attribute, any of the values can match.

Type: AgentFilter (p. 129) object

Required: No

maxResults (p. 65)

You can use this parameter to indicate the maximum number of items that you want in the response. The default value is 10. The maximum value is 500.

Type: Integer

Required: No

nextToken (p. 65)

You can use this parameter when paginating results. Set the value of this parameter to null on your first call to the **ListAssessmentRunAgents** action. Subsequent calls to the action fill **nextToken** in the request with the value of **NextToken** from the previous response to continue listing data.

Type: String

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

Required: No

Response Syntax

```
{
   "assessmentRunAgents": [
      {
         "agentHealth": "string",
         "agentHealthCode": "string",
         "agentHealthDetails": "string",
         "agentId": "string",
         "assessmentRunArn": "string",
         "autoScalingGroup": "string",
         "telemetryMetadata": [
            {
               "count": number,
               "dataSize": number,
               "messageType": "string"
            }
         ]
      }
   ],
   "nextToken": "string"
}
```

Response Elements

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

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

assessmentRunAgents (p. 66)

A list of ARNs that specifies the agents returned by the action.

Type: Array of AssessmentRunAgent (p. 135) objects

Array Members: Minimum number of 0 items. Maximum number of 500 items.

nextToken (p. 66)

When a response is generated, if there is more data to be listed, this parameter is present in the response and contains the value to use for the **nextToken** parameter in a subsequent pagination request. If there is no more data to be listed, this parameter is set to null.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListAssessmentRunAgents.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 117
X-Amz-Target: InspectorService.ListAssessmentRunAgents
X-Amz-Date: 20160323T212138Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
    "assessmentRunArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-0kFIPusq/template/0-4r1V2mAw/run/0-MKkpXXPE"
    }
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 3b752481-f13d-11e5-9f2a-87dc3189b81c
Content-Type: application/x-amz-json-1.1
Content-Length: 2206
Date: Wed, 23 Mar 2016 21:21:39 GMT
{
  "assessmentRunAgents": [
    {
      "agentHealth": "HEALTHY",
      "agentHealthCode": "HEALTHY",
      "agentId": "i-49113b93",
      "assessmentRunArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-0kFIPusq/template/0-4r1V2mAw/run/0-MKkpXXPE",
        "telemetryMetadata": [
```

```
               {
                 "count": 2,
                 "dataSize": 345,
                 "messageType": "InspectorDuplicateProcess"
               },
               {
                 "count": 3,
                 "dataSize": 255,
                 "messageType": "InspectorTimeEventMsg"
               },
               {
                 "count": 4,
                 "dataSize": 1082,
                 "messageType": "InspectorNetworkInterface"
               },
               {
                 "count": 2,
                 "dataSize": 349,
                 "messageType": "InspectorDnsEntry"
               },
               {
                 "count": 11,
                 "dataSize": 2514,
                 "messageType": "InspectorDirectoryInfoMsg"
               },
               {
                 "count": 1,
                 "dataSize": 179,
                 "messageType": "InspectorTcpV6ListeningPort"
               },
               {
                 "count": 101,
                 "dataSize": 10949,
                 "messageType": "InspectorTerminal"
               },
               {
                 "count": 26,
                 "dataSize": 5916,
                 "messageType": "InspectorUser"
               },
               {
                 "count": 282,
                 "dataSize": 32148,
                 "messageType": "InspectorDynamicallyLoadedCodeModule"
               },
               {
                 "count": 18,
                 "dataSize": 10172,
                 "messageType": "InspectorCreateProcess"
               },
               {
                 "count": 3,
                 "dataSize": 8001,
                 "messageType": "InspectorProcessPerformance"
               },
               {
                 "count": 1,
                 "dataSize": 360,
                 "messageType": "InspectorOperatingSystem"
               },
               {
                 "count": 6,
                 "dataSize": 546,
                 "messageType": "InspectorStopProcess"
               },
               {
```

```
      "count": 1,
      "dataSize": 1553,
      "messageType": "InspectorInstanceMetaData"
    },
    {
      "count": 2,
      "dataSize": 434,
      "messageType": "InspectorTcpV4Connection"
    },
    {
      "count": 474,
      "dataSize": 2960322,
      "messageType": "InspectorPackageInfo"
    },
    {
      "count": 3,
      "dataSize": 2235,
      "messageType": "InspectorSystemPerformance"
    },
    {
      "count": 105,
      "dataSize": 46048,
      "messageType": "InspectorCodeModule"
    },
    {
      "count": 1,
      "dataSize": 182,
      "messageType": "InspectorUdpV6ListeningPort"
    },
    {
      "count": 2,
      "dataSize": 371,
      "messageType": "InspectorUdpV4ListeningPort"
    },
    {
      "count": 18,
      "dataSize": 8362,
      "messageType": "InspectorKernelModule"
    },
    {
      "count": 29,
      "dataSize": 48788,
      "messageType": "InspectorConfigurationInfo"
    },
    {
      "count": 1,
      "dataSize": 79,
      "messageType": "InspectorMonitoringStart"
    },
    {
      "count": 5,
      "dataSize": 0,
      "messageType": "InspectorSplitMsgBegin"
    },
    {
      "count": 51,
      "dataSize": 4593,
      "messageType": "InspectorGroup"
    },
    {
      "count": 1,
      "dataSize": 184,
      "messageType": "InspectorTcpV4ListeningPort"
    },
    {
      "count": 1159,
```

```
                    "dataSize": 3146579,
                    "messageType": "Total"
                },
                {
                    "count": 5,
                    "dataSize": 0,
                    "messageType": "InspectorSplitMsgEnd"
                },
                {
                    "count": 1,
                    "dataSize": 612,
                    "messageType": "InspectorLoadImageInProcess"
                }
            ]
        }
    ]
}
```

See Also

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

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

ListAssessmentRuns

Lists the assessment runs that correspond to the assessment templates that are specified by the ARNs of the assessment templates.

Request Syntax

```
{
   "assessmentTemplateArns": [ "string" ],
   "filter": {
      "completionTimeRange": {
         "beginDate": number,
         "endDate": number
      },
      "durationRange": {
         "maxSeconds": number,
         "minSeconds": number
      },
      "namePattern": "string",
      "rulesPackageArns": [ "string" ],
      "startTimeRange": {
         "beginDate": number,
         "endDate": number
      },
      "stateChangeTimeRange": {
         "beginDate": number,
         "endDate": number
      },
      "states": [ "string" ]
   },
   "maxResults": number,
   "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentTemplateArns (p. 71)

The ARNs that specify the assessment templates whose assessment runs you want to list.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Required: No

filter (p. 71)

You can use this parameter to specify a subset of data to be included in the action's response.

For a record to match a filter, all specified filter attributes must match. When multiple values are specified for a filter attribute, any of the values can match.

Type: AssessmentRunFilter (p. 137) object

Required: No

maxResults (p. 71)

You can use this parameter to indicate the maximum number of items that you want in the response. The default value is 10. The maximum value is 500.

Type: Integer

Required: No

nextToken (p. 71)

You can use this parameter when paginating results. Set the value of this parameter to null on your first call to the **ListAssessmentRuns** action. Subsequent calls to the action fill **nextToken** in the request with the value of **NextToken** from the previous response to continue listing data.

Type: String

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

Required: No

Response Syntax

```
{
    "assessmentRunArns": [ "string" ],
    "nextToken": "string"
}
```

Response Elements

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

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

assessmentRunArns (p. 72)

A list of ARNs that specifies the assessment runs that are returned by the action.

Type: Array of strings

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

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

nextToken (p. 72)

When a response is generated, if there is more data to be listed, this parameter is present in the response and contains the value to use for the **nextToken** parameter in a subsequent pagination request. If there is no more data to be listed, this parameter is set to null.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListAssessmentRuns.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: InspectorService.ListAssessmentRuns
X-Amz-Date: 20160323T194135Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 410dabf6-f12f-11e5-8b5a-810259c0c3ae
Content-Type: application/x-amz-json-1.1
Content-Length: 215
Date: Wed, 23 Mar 2016 19:41:36 GMT
{
    "assessmentRunArns":
    [
    "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-4r1V2mAw/run/0-MKkpXXPE",
        "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-4r1V2mAw/run/0-v5D6fI3v"
        ]
```

```
        }
```

See Also

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

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

ListAssessmentTargets

Lists the ARNs of the assessment targets within this AWS account. For more information about assessment targets, see Amazon Inspector Assessment Targets.

Request Syntax

```
{
   "filter": {
      "assessmentTargetNamePattern": "string"
   },
   "maxResults": number,
   "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

filter (p. 75)

You can use this parameter to specify a subset of data to be included in the action's response.

For a record to match a filter, all specified filter attributes must match. When multiple values are specified for a filter attribute, any of the values can match.

Type: AssessmentTargetFilter (p. 144) object

Required: No

maxResults (p. 75)

You can use this parameter to indicate the maximum number of items you want in the response. The default value is 10. The maximum value is 500.

Type: Integer

Required: No

nextToken (p. 75)

You can use this parameter when paginating results. Set the value of this parameter to null on your first call to the **ListAssessmentTargets** action. Subsequent calls to the action fill **nextToken** in the request with the value of **NextToken** from the previous response to continue listing data.

Type: String

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

Required: No

Response Syntax

```
{
```

```
    "assessmentTargetArns": [ "string" ],
    "nextToken": "string"
}
```

Response Elements

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

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

assessmentTargetArns (p. 75)

A list of ARNs that specifies the assessment targets that are returned by the action.

Type: Array of strings

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

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

nextToken (p. 75)

When a response is generated, if there is more data to be listed, this parameter is present in the response and contains the value to use for the **nextToken** parameter in a subsequent pagination request. If there is no more data to be listed, this parameter is set to null.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListAssessmentTargets.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: InspectorService.ListAssessmentTargets
X-Amz-Date: 20160323T201018Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 445f71f6-f133-11e5-932b-dd9c937d073a
Content-Type: application/x-amz-json-1.1
Content-Length: 87
Date: Wed, 23 Mar 2016 20:10:19 GMT
{
    "assessmentTargetArns": [
    "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq"
    ]
}
```

See Also

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

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

ListAssessmentTemplates

Lists the assessment templates that correspond to the assessment targets that are specified by the ARNs of the assessment targets.

Request Syntax

```
{
    "assessmentTargetArns": [ "string" ],
    "filter": {
        "durationRange": {
            "maxSeconds": number,
            "minSeconds": number
        },
        "namePattern": "string",
        "rulesPackageArns": [ "string" ]
    },
    "maxResults": number,
    "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentTargetArns (p. 78)

A list of ARNs that specifies the assessment targets whose assessment templates you want to list.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Required: No

filter (p. 78)

You can use this parameter to specify a subset of data to be included in the action's response.

For a record to match a filter, all specified filter attributes must match. When multiple values are specified for a filter attribute, any of the values can match.

Type: AssessmentTemplateFilter (p. 147) object

Required: No

maxResults (p. 78)

You can use this parameter to indicate the maximum number of items you want in the response. The default value is 10. The maximum value is 500.

Type: Integer

Required: No

nextToken (p. 78)

You can use this parameter when paginating results. Set the value of this parameter to null on your first call to the **ListAssessmentTemplates** action. Subsequent calls to the action fill **nextToken** in the request with the value of **NextToken** from the previous response to continue listing data.

Type: String

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

Required: No

Response Syntax

```
{
   "assessmentTemplateArns": [ "string" ],
   "nextToken": "string"
}
```

Response Elements

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

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

assessmentTemplateArns (p. 79)

A list of ARNs that specifies the assessment templates returned by the action.

Type: Array of strings

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

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

nextToken (p. 79)

When a response is generated, if there is more data to be listed, this parameter is present in the response and contains the value to use for the **nextToken** parameter in a subsequent pagination request. If there is no more data to be listed, this parameter is set to null.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListAssessmentTemplates.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: InspectorService.ListAssessmentTemplates
X-Amz-Date: 20160323T202549Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 6f406528-f135-11e5-aa71-8de73166bfa9
Content-Type: application/x-amz-json-1.1
Content-Length: 190
Date: Wed, 23 Mar 2016 20:25:50 GMT
{
    "assessmentTemplateArns": [
    "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-4r1V2mAw",
    "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/template/0-
Uza6ihLh"
    ]
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET

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

ListEventSubscriptions

Lists all the event subscriptions for the assessment template that is specified by the ARN of the assessment template. For more information, see SubscribeToEvent (p. 118) and UnsubscribeFromEvent (p. 121).

Request Syntax

```
{
    "maxResults": number,
    "nextToken": "string",
    "resourceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

maxResults (p. 82)

>   You can use this parameter to indicate the maximum number of items you want in the response. The default value is 10. The maximum value is 500.

>   Type: Integer

>   Required: No

nextToken (p. 82)

>   You can use this parameter when paginating results. Set the value of this parameter to null on your first call to the **ListEventSubscriptions** action. Subsequent calls to the action fill **nextToken** in the request with the value of **NextToken** from the previous response to continue listing data.

>   Type: String

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

>   Required: No

resourceArn (p. 82)

>   The ARN of the assessment template for which you want to list the existing event subscriptions.

>   Type: String

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

>   Required: No

Response Syntax

```
{
    "nextToken": "string",
```

```
    "subscriptions": [
        {
            "eventSubscriptions": [
                {
                    "event": "string",
                    "subscribedAt": number
                }
            ],
            "resourceArn": "string",
            "topicArn": "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 (p. 82)

When a response is generated, if there is more data to be listed, this parameter is present in the response and contains the value to use for the **nextToken** parameter in a subsequent pagination request. If there is no more data to be listed, this parameter is set to null.

Type: String

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

subscriptions (p. 82)

Details of the returned event subscriptions.

Type: Array of Subscription (p. 173) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListEventSubscriptions.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 97
X-Amz-Target: InspectorService.ListEventSubscriptions
X-Amz-Date: 20160331T202943Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
    "resourceArn": "arn:aws:inspector:us-west-2:123456789012:target/0-
nvgVhaxX/template/0-7sbz2Kz0"
    }
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 4e21c005-f77f-11e5-823c-bd257ba1495d
Content-Type: application/x-amz-json-1.1
Content-Length: 272
Date: Thu, 31 Mar 2016 20:29:44 GMT
{
  "subscriptions": [
    {
      "eventSubscriptions": [
        {
          "event": "ASSESSMENT_RUN_COMPLETED",
          "subscribedAt": 1459455440.867
        }
      ],
      "resourceArn": "arn:aws:inspector:us-west-2:123456789012:target/0-
nvgVhaxX/template/0-7sbz2Kz0",
      "topicArn": "arn:aws:sns:us-west-2:123456789012:exampletopic"
    }
  ]
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET

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

ListExclusions

List exclusions that are generated by the assessment run.

Request Syntax

```
{
    "assessmentRunArn": "string",
    "maxResults": number,
    "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common
Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentRunArn (p. 86)

The ARN of the assessment run that generated the exclusions that you want to list.

Type: String

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

Required: Yes

maxResults (p. 86)

You can use this parameter to indicate the maximum number of items you want in the response. The
default value is 100. The maximum value is 500.

Type: Integer

Required: No

nextToken (p. 86)

You can use this parameter when paginating results. Set the value of this parameter to null on your
first call to the ListExclusionsRequest action. Subsequent calls to the action fill nextToken in the
request with the value of nextToken from the previous response to continue listing data.

Type: String

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

Required: No

Response Syntax

```
{
    "exclusionArns": [ "string" ],
    "nextToken": "string"
}
```

Response Elements

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

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

exclusionArns (p. 86)

A list of exclusions' ARNs returned by the action.

Type: Array of strings

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

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

nextToken (p. 86)

When a response is generated, if there is more data to be listed, this parameters is present in the response and contains the value to use for the nextToken parameter in a subsequent pagination request. If there is no more data to be listed, this parameter is set to null.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go

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

ListFindings

Lists findings that are generated by the assessment runs that are specified by the ARNs of the assessment runs.

Request Syntax

```
{
    "assessmentRunArns": [ "string" ],
    "filter": {
        "agentIds": [ "string" ],
        "attributes": [
            {
                "key": "string",
                "value": "string"
            }
        ],
        "autoScalingGroups": [ "string" ],
        "creationTimeRange": {
            "beginDate": number,
            "endDate": number
        },
        "ruleNames": [ "string" ],
        "rulesPackageArns": [ "string" ],
        "severities": [ "string" ],
        "userAttributes": [
            {
                "key": "string",
                "value": "string"
            }
        ]
    },
    "maxResults": number,
    "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentRunArns (p. 89)

The ARNs of the assessment runs that generate the findings that you want to list.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Required: No

filter (p. 89)

You can use this parameter to specify a subset of data to be included in the action's response.

For a record to match a filter, all specified filter attributes must match. When multiple values are specified for a filter attribute, any of the values can match.

Type: FindingFilter (p. 161) object

Required: No

maxResults (p. 89)

You can use this parameter to indicate the maximum number of items you want in the response. The default value is 10. The maximum value is 500.

Type: Integer

Required: No

nextToken (p. 89)

You can use this parameter when paginating results. Set the value of this parameter to null on your first call to the **ListFindings** action. Subsequent calls to the action fill **nextToken** in the request with the value of **NextToken** from the previous response to continue listing data.

Type: String

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

Required: No

Response Syntax

```
{
    "findingArns": [ "string" ],
    "nextToken": "string"
}
```

Response Elements

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

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

findingArns (p. 90)

A list of ARNs that specifies the findings returned by the action.

Type: Array of strings

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

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

nextToken (p. 90)

When a response is generated, if there is more data to be listed, this parameter is present in the response and contains the value to use for the **nextToken** parameter in a subsequent pagination request. If there is no more data to be listed, this parameter is set to null.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListFindings.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: InspectorService.ListFindings
X-Amz-Date: 20160323T203109Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 2df2e847-f136-11e5-b2c3-cd62ea256ca4
Content-Type: application/x-amz-json-1.1
Content-Length: 247
Date: Wed, 23 Mar 2016 20:31:10 GMT
{
    "findingArns": [
```

```
                 "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-4r1V2mAw/run/0-MKkpXXPE/finding/0-HwPnsDm4",
                 "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-4r1V2mAw/run/0-v5D6fI3v/finding/0-tyvmqBLy"
             ]
        }
```

See Also

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

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

ListRulesPackages

Lists all available Amazon Inspector rules packages.

Request Syntax

```
{
    "maxResults": number,
    "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common
Parameters (p. 177).

The request accepts the following data in JSON format.

maxResults (p. 93)

> You can use this parameter to indicate the maximum number of items you want in the response. The
> default value is 10. The maximum value is 500.
>
> Type: Integer
>
> Required: No

nextToken (p. 93)

> You can use this parameter when paginating results. Set the value of this parameter to null on
> your first call to the **ListRulesPackages** action. Subsequent calls to the action fill **nextToken** in the
> request with the value of **NextToken** from the previous response to continue listing data.
>
> Type: String
>
> Length Constraints: Minimum length of 1. Maximum length of 300.
>
> Required: No

Response Syntax

```
{
    "nextToken": "string",
    "rulesPackageArns": [ "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 (p. 93)

> When a response is generated, if there is more data to be listed, this parameter is present in the
> response and contains the value to use for the **nextToken** parameter in a subsequent pagination
> request. If there is no more data to be listed, this parameter is set to null.

Type: String

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

rulesPackageArns (p. 93)

The list of ARNs that specifies the rules packages returned by the action.

Type: Array of strings

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

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListRulesPackages.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: InspectorService.ListRulesPackages
X-Amz-Date: 20160323T203727Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0e3779a9-f137-11e5-be28-e130082e2a98
Content-Type: application/x-amz-json-1.1
Content-Length: 424
Date: Wed, 23 Mar 2016 20:37:26 GMT
{
  "rulesPackageArns": [
    "arn:aws:inspector:us-west-2:758058086616:rulespackage/0-9hgA516p",
    "arn:aws:inspector:us-west-2:758058086616:rulespackage/0-H5hpSawc",
    "arn:aws:inspector:us-west-2:758058086616:rulespackage/0-JJOtZiqQ",
    "arn:aws:inspector:us-west-2:758058086616:rulespackage/0-vg5GGHSD"
  ]
}
```

See Also

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

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

ListTagsForResource

Lists all tags associated with an assessment template.

Request Syntax

```
{
    "resourceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

resourceArn (p. 96)

The ARN that specifies the assessment template whose tags you want to list.

Type: String

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

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 (p. 96)

A collection of key and value pairs.

Type: Array of Tag (p. 174) 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 Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListTagsForResource.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 97
X-Amz-Target: InspectorService.ListTagsForResource
X-Amz-Date: 20160323T212838Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
    "resourceArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-0kFIPusq/template/0-gcwFliYu"
            }
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 3580d562-f13e-11e5-8a9a-395a36305628
Content-Type: application/x-amz-json-1.1
Content-Length: 50
Date: Wed, 23 Mar 2016 21:28:39 GMT
{
  "tags": [
    {
      "key": "Name",
      "value": "Example"
```

```
                }
            ]
        }
```

See Also

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

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

PreviewAgents

Previews the agents installed on the EC2 instances that are part of the specified assessment target.

Request Syntax

```
{
    "maxResults": number,
    "nextToken": "string",
    "previewAgentsArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

maxResults (p. 99)

You can use this parameter to indicate the maximum number of items you want in the response. The default value is 10. The maximum value is 500.

Type: Integer

Required: No

nextToken (p. 99)

You can use this parameter when paginating results. Set the value of this parameter to null on your first call to the **PreviewAgents** action. Subsequent calls to the action fill **nextToken** in the request with the value of **NextToken** from the previous response to continue listing data.

Type: String

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

Required: No

previewAgentsArn (p. 99)

The ARN of the assessment target whose agents you want to preview.

Type: String

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

Required: Yes

Response Syntax

```
{
    "agentPreviews": [
        {
            "agentHealth": "string",
            "agentId": "string",
            "agentVersion": "string",
            "autoScalingGroup": "string",
```

```
            "hostname": "string",
            "ipv4Address": "string",
            "kernelVersion": "string",
            "operatingSystem": "string"
        }
    ],
    "nextToken": "string"
}
```

Response Elements

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

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

agentPreviews (p. 99)

> The resulting list of agents.
>
> Type: Array of AgentPreview (p. 130) objects
>
> Array Members: Minimum number of 0 items. Maximum number of 100 items.

nextToken (p. 99)

> When a response is generated, if there is more data to be listed, this parameter is present in the response and contains the value to use for the **nextToken** parameter in a subsequent pagination request. If there is no more data to be listed, this parameter is set to null.
>
> Type: String
>
> Length Constraints: Minimum length of 1. Maximum length of 300.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

> Internal server error.
>
> HTTP Status Code: 500

InvalidCrossAccountRoleException

> Amazon Inspector cannot assume the cross-account role that it needs to list your EC2 instances during the assessment run.
>
> HTTP Status Code: 400

InvalidInputException

> The request was rejected because an invalid or out-of-range value was supplied for an input parameter.
>
> HTTP Status Code: 400

NoSuchEntityException

> The request was rejected because it referenced an entity that does not exist. The error code describes the entity.
>
> HTTP Status Code: 400

Examples

Example

This example illustrates one usage of PreviewAgents.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 82
X-Amz-Target: InspectorService.PreviewAgents
X-Amz-Date: 20160329T224634Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
    "previewAgentsArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-0kFIPusq"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 176c8915-f600-11e5-ac8a-bb6015f4022c
Content-Type: application/x-amz-json-1.1
Content-Length: 44
Date: Tue, 29 Mar 2016 22:46:36 GMT
{
  "agentPreviews": [
    {
      "hostname": "example",
      "agentId": "i-49113b93",
      "autoScalingGroup": "example",
      "agentHealth": HEALTHY,
      "agentVersion": "exampleversion",
      "operatingSystem": "exampleOS",
      "kernelVersion": "examplekernelversion",
      "ipv4Address": "example"
    }
  ]
}
```

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET

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

RegisterCrossAccountAccessRole

Registers the IAM role that grants Amazon Inspector access to AWS Services needed to perform security assessments.

Request Syntax

```
{
    "roleArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

roleArn (p. 103)

The ARN of the IAM role that grants Amazon Inspector access to AWS Services needed to perform security assessments.

Type: String

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

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 Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidCrossAccountRoleException

Amazon Inspector cannot assume the cross-account role that it needs to list your EC2 instances during the assessment run.

HTTP Status Code: 400

InvalidInputException

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

HTTP Status Code: 400

ServiceTemporarilyUnavailableException

The serice is temporary unavailable.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of RegisterCrossAccountAccessRole.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 55
X-Amz-Target: InspectorService.RegisterCrossAccountAccessRole
X-Amz-Date: 20160329T225544Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
  "roleArn": "arn:aws:iam::123456789012:role/inspector"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 5f553cfa-f601-11e5-a47c-b7e2de2d572c
Content-Type: application/x-amz-json-1.1
Content-Length: 0
Date: Tue, 29 Mar 2016 22:55:46 GMT
```

See Also

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

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

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

RemoveAttributesFromFindings

Removes entire attributes (key and value pairs) from the findings that are specified by the ARNs of the findings where an attribute with the specified key exists.

Request Syntax

```
{
    "attributeKeys": [ "string" ],
    "findingArns": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

attributeKeys (p. 106)

    The array of attribute keys that you want to remove from specified findings.

    Type: Array of strings

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

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

    Required: Yes

findingArns (p. 106)

    The ARNs that specify the findings that you want to remove attributes from.

    Type: Array of strings

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

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

    Required: Yes

Response Syntax

```
{
    "failedItems": {
        "string" : {
            "failureCode": "string",
            "retryable": boolean
        }
    }
}
```

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.

failedItems (p. 106)

>   Attributes details that cannot be described. An error code is provided for each failed item.

>   Type: String to FailedItemDetails (p. 157) object map

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

InternalException

>   Internal server error.

>   HTTP Status Code: 500

InvalidInputException

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

>   HTTP Status Code: 400

NoSuchEntityException

>   The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

>   HTTP Status Code: 400

ServiceTemporarilyUnavailableException

>   The serice is temporary unavailable.

>   HTTP Status Code: 400

Examples

Example

This example illustrates one usage of RemoveAttributesFromFindings.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 181
X-Amz-Target: InspectorService.RemoveAttributesFromFindings
X-Amz-Date: 20160329T234159Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
```

```
                    {
                      "attributeKeys": [
                        "key=Example,value=example"
                      ],
                      "findingArns": [
                        "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-8l1VIE0D/run/0-Z02cjjug/finding/0-T8yM9mEU"
                      ]
                    }
```

Sample Response

```
            HTTP/1.1 200 OK
            x-amzn-RequestId: d4ebb8cf-f607-11e5-94d7-d9eab7a1ae2a
            Content-Type: application/x-amz-json-1.1
            Content-Length: 18
            Date: Tue, 29 Mar 2016 23:42:00 GMT
            {
              "failedItems": {}
            }
```

See Also

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

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

SetTagsForResource

Sets tags (key and value pairs) to the assessment template that is specified by the ARN of the assessment template.

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 (p. 177).

The request accepts the following data in JSON format.

resourceArn (p. 109)

>   The ARN of the assessment template that you want to set tags to.

>   Type: String

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

>   Required: Yes

tags (p. 109)

>   A collection of key and value pairs that you want to set to the assessment template.

>   Type: Array of Tag (p. 174) 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 Errors (p. 179).

InternalException

>   Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

ServiceTemporarilyUnavailableException

The serice is temporary unavailable.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of SetTagsForResource.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 144
X-Amz-Target: InspectorService.SetTagsForResource
X-Amz-Date: 20160331T185018Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "resourceArn": "arn:aws:inspector:us-west-2:123456789012:target/0-
nvgVhaxX/template/0-7sbz2Kz0",
    "tags": [
      {
        "key": "Example",
        "value": "example"
      }
    ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 6a3f5af3-f771-11e5-8599-f1b50afafb5a
Content-Type: application/x-amz-json-1.1
```

```
            Content-Length: 0
            Date: Thu, 31 Mar 2016 18:50:18 GMT
```

See Also

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

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

StartAssessmentRun

Starts the assessment run specified by the ARN of the assessment template. For this API to function properly, you must not exceed the limit of running up to 500 concurrent agents per AWS account.

Request Syntax

```
{
    "assessmentRunName": "string",
    "assessmentTemplateArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentRunName (p. 112)

You can specify the name for the assessment run. The name must be unique for the assessment template whose ARN is used to start the assessment run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Required: No

assessmentTemplateArn (p. 112)

The ARN of the assessment template of the assessment run that you want to start.

Type: String

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

Required: Yes

Response Syntax

```
{
    "assessmentRunArn": "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.

assessmentRunArn (p. 112)

The ARN of the assessment run that has been started.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 179).

AgentsAlreadyRunningAssessmentException

You started an assessment run, but one of the instances is already participating in another assessment run.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

InvalidCrossAccountRoleException

Amazon Inspector cannot assume the cross-account role that it needs to list your EC2 instances during the assessment run.

HTTP Status Code: 400

InvalidInputException

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

HTTP Status Code: 400

LimitExceededException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

ServiceTemporarilyUnavailableException

The serice is temporary unavailable.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of StartAssessmentRun.

Sample Request

```
                POST / HTTP/1.1
                Host: inspector.us-west-2.amazonaws.com
                Accept-Encoding: identity
                Content-Length: 142
                X-Amz-Target: InspectorService.StartAssessmentRun
                X-Amz-Date: 20160331T182519Z
                User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
                Content-Type: application/x-amz-json-1.1
                Authorization: AUTHPARAMS
                {
                  "assessmentRunName": "examplerun",
                  "assessmentTemplateArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-nvgVhaxX/template/0-it5r2S4T"
                }
```

Sample Response

```
                HTTP/1.1 200 OK
                x-amzn-RequestId: ed349455-f76d-11e5-b473-ed8493878c40
                Content-Type: application/x-amz-json-1.1
                Content-Length: 116
                Date: Thu, 31 Mar 2016 18:25:22 GMT
                {
                  "assessmentRunArn": "arn:aws:inspector:us-west-2:123456789012:target/0-
nvgVhaxX/template/0-it5r2S4T/run/0-jOoroxyY"
                }
```

See Also

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

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

StopAssessmentRun

Stops the assessment run that is specified by the ARN of the assessment run.

Request Syntax

```
{
    "assessmentRunArn": "string",
    "stopAction": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common
Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentRunArn (p. 115)

> The ARN of the assessment run that you want to stop.
>
> Type: String
>
> Length Constraints: Minimum length of 1. Maximum length of 300.
>
> Required: Yes

stopAction (p. 115)

> An input option that can be set to either START_EVALUATION or SKIP_EVALUATION.
> START_EVALUATION (the default value), stops the AWS agent from collecting data and begins the
> results evaluation and the findings generation process. SKIP_EVALUATION cancels the assessment
> run immediately, after which no findings are generated.
>
> Type: String
>
> Valid Values: `START_EVALUATION | SKIP_EVALUATION`
>
> 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 Errors (p. 179).

InternalException

> Internal server error.
>
> HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

ServiceTemporarilyUnavailableException

The serice is temporary unavailable.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of StopAssessmentRun.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 117
X-Amz-Target: InspectorService.StopAssessmentRun
X-Amz-Date: 20160331T183401Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
    "assessmentRunArn": "arn:aws:inspector:us-west-2:123456789012:target/0-
nvgVhaxX/template/0-it5r2S4T/run/0-11LMTAVe"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 23e1a935-f76f-11e5-92d3-7ba54a65df23
Content-Type: application/x-amz-json-1.1
Content-Length: 0
Date: Thu, 31 Mar 2016 18:34:02 GMT
```

See Also

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

- AWS Command Line Interface

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

SubscribeToEvent

Enables the process of sending Amazon Simple Notification Service (SNS) notifications about a specified event to a specified SNS topic.

Request Syntax

```
{
    "event": "string",
    "resourceArn": "string",
    "topicArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

event (p. 118)

The event for which you want to receive SNS notifications.

Type: String

Valid Values: `ASSESSMENT_RUN_STARTED` | `ASSESSMENT_RUN_COMPLETED` | `ASSESSMENT_RUN_STATE_CHANGED` | `FINDING_REPORTED` | `OTHER`

Required: Yes

resourceArn (p. 118)

The ARN of the assessment template that is used during the event for which you want to receive SNS notifications.

Type: String

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

Required: Yes

topicArn (p. 118)

The ARN of the SNS topic to which the SNS notifications are sent.

Type: String

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

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 Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

LimitExceededException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

ServiceTemporarilyUnavailableException

The serice is temporary unavailable.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of SubscribeToEvent.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 200
X-Amz-Target: InspectorService.SubscribeToEvent
X-Amz-Date: 20160331T201719Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "resourceArn": "arn:aws:inspector:us-west-2:123456789012:target/0-
nvgVhaxX/template/0-7sbz2Kz0",
        "event": "ASSESSMENT_RUN_COMPLETED",
        "topicArn": "arn:aws:sns:us-west-2:123456789012:exampletopic"
```

```
                          }
```

Sample Response

```
                    HTTP/1.1 200 OK
                    x-amzn-RequestId: 929b6c44-f77d-11e5-bcc6-cd3a7bd10be0
                    Content-Type: application/x-amz-json-1.1
                    Content-Length: 0
                    Date: Thu, 31 Mar 2016 20:17:20 GMT
```

See Also

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

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

UnsubscribeFromEvent

Disables the process of sending Amazon Simple Notification Service (SNS) notifications about a specified event to a specified SNS topic.

Request Syntax

```
{
    "event": "string",
    "resourceArn": "string",
    "topicArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

event (p. 121)

The event for which you want to stop receiving SNS notifications.

Type: String

Valid Values: `ASSESSMENT_RUN_STARTED | ASSESSMENT_RUN_COMPLETED | ASSESSMENT_RUN_STATE_CHANGED | FINDING_REPORTED | OTHER`

Required: Yes

resourceArn (p. 121)

The ARN of the assessment template that is used during the event for which you want to stop receiving SNS notifications.

Type: String

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

Required: Yes

topicArn (p. 121)

The ARN of the SNS topic to which SNS notifications are sent.

Type: String

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

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 Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

ServiceTemporarilyUnavailableException

The serice is temporary unavailable.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of UnsubscribeFromEvent.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 200
X-Amz-Target: InspectorService.UnsubscribeFromEvent
X-Amz-Date: 20160331T203404Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "resourceArn": "arn:aws:inspector:us-west-2:123456789012:target/0-
nvgVhaxX/template/0-7sbz2Kz0",
        "event": "ASSESSMENT_RUN_COMPLETED",
        "topicArn": "arn:aws:sns:us-west-2:123456789012:exampletopic"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: e9c2e864-f77f-11e5-82d7-bb83264505be
Content-Type: application/x-amz-json-1.1
Content-Length: 0
Date: Thu, 31 Mar 2016 20:34:06 GMT
```

See Also

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

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

UpdateAssessmentTarget

Updates the assessment target that is specified by the ARN of the assessment target.

If resourceGroupArn is not specified, all EC2 instances in the current AWS account and region are included in the assessment target.

Request Syntax

```
{
    "assessmentTargetArn": "string",
    "assessmentTargetName": "string",
    "resourceGroupArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 177).

The request accepts the following data in JSON format.

assessmentTargetArn (p. 124)

The ARN of the assessment target that you want to update.

Type: String

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

Required: Yes

assessmentTargetName (p. 124)

The name of the assessment target that you want to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Required: Yes

resourceGroupArn (p. 124)

The ARN of the resource group that is used to specify the new resource group to associate with the assessment target.

Type: String

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

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 Errors (p. 179).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

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

HTTP Status Code: 400

NoSuchEntityException

The request was rejected because it referenced an entity that does not exist. The error code describes the entity.

HTTP Status Code: 400

ServiceTemporarilyUnavailableException

The serice is temporary unavailable.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of UpdateAssessmentTarget.

Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 206
X-Amz-Target: InspectorService.UpdateAssessmentTarget
X-Amz-Date: 20160331T185748Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
   "assessmentTargetArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-nvgVhaxX",
   "assessmentTargetName": "Example",
   "resourceGroupArn": "arn:aws:inspector:us-
west-2:123456789012:resourcegroup/0-yNbgL5Pt"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 76bc43e7-f772-11e5-a5f3-fb6257e71620
Content-Type: application/x-amz-json-1.1
Content-Length: 0
Date: Thu, 31 Mar 2016 18:57:49 GMT
```

See Also

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

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

Data Types

The Amazon Inspector 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:

AgentAlreadyRunningAssessment

Used in the exception error that is thrown if you start an assessment run for an assessment target that includes an EC2 instance that is already participating in another started assessment run.

Contents

agentId

ID of the agent that is running on an EC2 instance that is already participating in another started assessment run.

Type: String

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

Required: Yes

assessmentRunArn

The ARN of the assessment run that has already been started.

Type: String

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

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AgentFilter

Contains information about an Amazon Inspector agent. This data type is used as a request parameter in the ListAssessmentRunAgents (p. 65) action.

Contents

agentHealthCodes

The detailed health state of the agent. Values can be set to **IDLE**, **RUNNING**, **SHUTDOWN**, **UNHEALTHY**, **THROTTLED**, and **UNKNOWN**.

Type: Array of strings

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

Valid Values: `IDLE | RUNNING | SHUTDOWN | UNHEALTHY | THROTTLED | UNKNOWN`

Required: Yes

agentHealths

The current health state of the agent. Values can be set to **HEALTHY** or **UNHEALTHY**.

Type: Array of strings

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

Valid Values: `HEALTHY | UNHEALTHY | UNKNOWN`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AgentPreview

Used as a response element in the PreviewAgents (p. 99) action.

Contents

agentHealth

The health status of the Amazon Inspector Agent.

Type: String

Valid Values: `HEALTHY` | `UNHEALTHY` | `UNKNOWN`

Required: No

agentId

The ID of the EC2 instance where the agent is installed.

Type: String

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

Required: Yes

agentVersion

The version of the Amazon Inspector Agent.

Type: String

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

Required: No

autoScalingGroup

The Auto Scaling group for the EC2 instance where the agent is installed.

Type: String

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

Required: No

hostname

The hostname of the EC2 instance on which the Amazon Inspector Agent is installed.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

ipv4Address

The IP address of the EC2 instance on which the Amazon Inspector Agent is installed.

Type: String

Length Constraints: Minimum length of 7. Maximum length of 15.

Required: No

kernelVersion

The kernel version of the operating system running on the EC2 instance on which the Amazon Inspector Agent is installed.

Type: String

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

Required: No

operatingSystem

The operating system running on the EC2 instance on which the Amazon Inspector Agent is installed.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AssessmentRun

A snapshot of an Amazon Inspector assessment run that contains the findings of the assessment run .

Used as the response element in the DescribeAssessmentRuns (p. 27) action.

Contents

arn

The ARN of the assessment run.

Type: String

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

Required: Yes

assessmentTemplateArn

The ARN of the assessment template that is associated with the assessment run.

Type: String

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

Required: Yes

completedAt

The assessment run completion time that corresponds to the rules packages evaluation completion time or failure.

Type: Timestamp

Required: No

createdAt

The time when StartAssessmentRun (p. 112) was called.

Type: Timestamp

Required: Yes

dataCollected

A Boolean value (true or false) that specifies whether the process of collecting data from the agents is completed.

Type: Boolean

Required: Yes

durationInSeconds

The duration of the assessment run.

Type: Integer

Valid Range: Minimum value of 180. Maximum value of 86400.

Required: Yes

findingCounts

Provides a total count of generated findings per severity.

Type: String to integer map

Valid Keys: `Low | Medium | High | Informational | Undefined`

Required: Yes

name

The auto-generated name for the assessment run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Required: Yes

notifications

A list of notifications for the event subscriptions. A notification about a particular generated finding is added to this list only once.

Type: Array of AssessmentRunNotification (p. 139) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: Yes

rulesPackageArns

The rules packages selected for the assessment run.

Type: Array of strings

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

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

Required: Yes

startedAt

The time when StartAssessmentRun (p. 112) was called.

Type: Timestamp

Required: No

state

The state of the assessment run.

Type: String

Valid Values: `CREATED | START_DATA_COLLECTION_PENDING | START_DATA_COLLECTION_IN_PROGRESS | COLLECTING_DATA | STOP_DATA_COLLECTION_PENDING | DATA_COLLECTED | START_EVALUATING_RULES_PENDING | EVALUATING_RULES | FAILED | ERROR | COMPLETED | COMPLETED_WITH_ERRORS | CANCELED`

Required: Yes

stateChangedAt

The last time when the assessment run's state changed.

Type: Timestamp

Required: Yes

stateChanges

A list of the assessment run state changes.

Type: Array of AssessmentRunStateChange (p. 141) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: Yes

userAttributesForFindings

The user-defined attributes that are assigned to every generated finding.

Type: Array of Attribute (p. 150) objects

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

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AssessmentRunAgent

Contains information about an Amazon Inspector agent. This data type is used as a response element in the ListAssessmentRunAgents (p. 65) action.

Contents

agentHealth

The current health state of the agent.

Type: String

Valid Values: `HEALTHY | UNHEALTHY | UNKNOWN`

Required: Yes

agentHealthCode

The detailed health state of the agent.

Type: String

Valid Values: `IDLE | RUNNING | SHUTDOWN | UNHEALTHY | THROTTLED | UNKNOWN`

Required: Yes

agentHealthDetails

The description for the agent health code.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

agentId

The AWS account of the EC2 instance where the agent is installed.

Type: String

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

Required: Yes

assessmentRunArn

The ARN of the assessment run that is associated with the agent.

Type: String

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

Required: Yes

autoScalingGroup

The Auto Scaling group of the EC2 instance that is specified by the agent ID.

Type: String

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

Required: No

telemetryMetadata

The Amazon Inspector application data metrics that are collected by the agent.

Type: Array of TelemetryMetadata (p. 175) objects

Array Members: Minimum number of 0 items. Maximum number of 5000 items.

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AssessmentRunFilter

Used as the request parameter in the ListAssessmentRuns (p. 71) action.

Contents

completionTimeRange

For a record to match a filter, the value that is specified for this data type property must inclusively match any value between the specified minimum and maximum values of the **completedAt** property of the AssessmentRun (p. 132) data type.

Type: TimestampRange (p. 176) object

Required: No

durationRange

For a record to match a filter, the value that is specified for this data type property must inclusively match any value between the specified minimum and maximum values of the **durationInSeconds** property of the AssessmentRun (p. 132) data type.

Type: DurationRange (p. 151) object

Required: No

namePattern

For a record to match a filter, an explicit value or a string containing a wildcard that is specified for this data type property must match the value of the **assessmentRunName** property of the AssessmentRun (p. 132) data type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Required: No

rulesPackageArns

For a record to match a filter, the value that is specified for this data type property must be contained in the list of values of the **rulesPackages** property of the AssessmentRun (p. 132) data type.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Required: No

startTimeRange

For a record to match a filter, the value that is specified for this data type property must inclusively match any value between the specified minimum and maximum values of the **startTime** property of the AssessmentRun (p. 132) data type.

Type: TimestampRange (p. 176) object

Required: No

stateChangeTimeRange

For a record to match a filter, the value that is specified for this data type property must match the **stateChangedAt** property of the AssessmentRun (p. 132) data type.

Type: TimestampRange (p. 176) object

Required: No

states

For a record to match a filter, one of the values specified for this data type property must be the exact match of the value of the **assessmentRunState** property of the AssessmentRun (p. 132) data type.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Valid Values: `CREATED` | `START_DATA_COLLECTION_PENDING` | `START_DATA_COLLECTION_IN_PROGRESS` | `COLLECTING_DATA` | `STOP_DATA_COLLECTION_PENDING` | `DATA_COLLECTED` | `START_EVALUATING_RULES_PENDING` | `EVALUATING_RULES` | `FAILED` | `ERROR` | `COMPLETED` | `COMPLETED_WITH_ERRORS` | `CANCELED`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AssessmentRunNotification

Used as one of the elements of the AssessmentRun (p. 132) data type.

Contents

date

The date of the notification.

Type: Timestamp

Required: Yes

error

The Boolean value that specifies whether the notification represents an error.

Type: Boolean

Required: Yes

event

The event for which a notification is sent.

Type: String

Valid Values: `ASSESSMENT_RUN_STARTED` | `ASSESSMENT_RUN_COMPLETED` | `ASSESSMENT_RUN_STATE_CHANGED` | `FINDING_REPORTED` | `OTHER`

Required: Yes

message

The message included in the notification.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

snsPublishStatusCode

The status code of the SNS notification.

Type: String

Valid Values: `SUCCESS` | `TOPIC_DOES_NOT_EXIST` | `ACCESS_DENIED` | `INTERNAL_ERROR`

Required: No

snsTopicArn

The SNS topic to which the SNS notification is sent.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AssessmentRunStateChange

Used as one of the elements of the AssessmentRun (p. 132) data type.

Contents

state

The assessment run state.

Type: String

Valid Values: `CREATED | START_DATA_COLLECTION_PENDING | START_DATA_COLLECTION_IN_PROGRESS | COLLECTING_DATA | STOP_DATA_COLLECTION_PENDING | DATA_COLLECTED | START_EVALUATING_RULES_PENDING | EVALUATING_RULES | FAILED | ERROR | COMPLETED | COMPLETED_WITH_ERRORS | CANCELED`

Required: Yes

stateChangedAt

The last time the assessment run state changed.

Type: Timestamp

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AssessmentTarget

Contains information about an Amazon Inspector application. This data type is used as the response element in the DescribeAssessmentTargets (p. 31) action.

Contents

arn

The ARN that specifies the Amazon Inspector assessment target.

Type: String

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

Required: Yes

createdAt

The time at which the assessment target is created.

Type: Timestamp

Required: Yes

name

The name of the Amazon Inspector assessment target.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Required: Yes

resourceGroupArn

The ARN that specifies the resource group that is associated with the assessment target.

Type: String

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

Required: No

updatedAt

The time at which UpdateAssessmentTarget (p. 124) is called.

Type: Timestamp

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 Go
- AWS SDK for Java V2

- AWS SDK for Ruby V3

AssessmentTargetFilter

Used as the request parameter in the ListAssessmentTargets (p. 75) action.

Contents

assessmentTargetNamePattern

For a record to match a filter, an explicit value or a string that contains a wildcard that is specified for this data type property must match the value of the **assessmentTargetName** property of the AssessmentTarget (p. 142) data type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AssessmentTemplate

Contains information about an Amazon Inspector assessment template. This data type is used as the response element in the DescribeAssessmentTemplates (p. 34) action.

Contents

arn

The ARN of the assessment template.

Type: String

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

Required: Yes

assessmentRunCount

The number of existing assessment runs associated with this assessment template. This value can be zero or a positive integer.

Type: Integer

Required: Yes

assessmentTargetArn

The ARN of the assessment target that corresponds to this assessment template.

Type: String

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

Required: Yes

createdAt

The time at which the assessment template is created.

Type: Timestamp

Required: Yes

durationInSeconds

The duration in seconds specified for this assessment template. The default value is 3600 seconds (one hour). The maximum value is 86400 seconds (one day).

Type: Integer

Valid Range: Minimum value of 180. Maximum value of 86400.

Required: Yes

lastAssessmentRunArn

The Amazon Resource Name (ARN) of the most recent assessment run associated with this assessment template. This value exists only when the value of assessmentRunCount is greaterpa than zero.

Type: String

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

Required: No

name

The name of the assessment template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Required: Yes

rulesPackageArns

The rules packages that are specified for this assessment template.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Required: Yes

userAttributesForFindings

The user-defined attributes that are assigned to every generated finding from the assessment run that uses this assessment template.

Type: Array of Attribute (p. 150) objects

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

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AssessmentTemplateFilter

Used as the request parameter in the ListAssessmentTemplates (p. 78) action.

Contents

durationRange

For a record to match a filter, the value specified for this data type property must inclusively match any value between the specified minimum and maximum values of the **durationInSeconds** property of the AssessmentTemplate (p. 145) data type.

Type: DurationRange (p. 151) object

Required: No

namePattern

For a record to match a filter, an explicit value or a string that contains a wildcard that is specified for this data type property must match the value of the **assessmentTemplateName** property of the AssessmentTemplate (p. 145) data type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Required: No

rulesPackageArns

For a record to match a filter, the values that are specified for this data type property must be contained in the list of values of the **rulesPackageArns** property of the AssessmentTemplate (p. 145) data type.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AssetAttributes

A collection of attributes of the host from which the finding is generated.

Contents

agentId

The ID of the agent that is installed on the EC2 instance where the finding is generated.

Type: String

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

Required: No

amiId

The ID of the Amazon Machine Image (AMI) that is installed on the EC2 instance where the finding is generated.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

autoScalingGroup

The Auto Scaling group of the EC2 instance where the finding is generated.

Type: String

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

Required: No

hostname

The hostname of the EC2 instance where the finding is generated.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

ipv4Addresses

The list of IP v4 addresses of the EC2 instance where the finding is generated.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 7. Maximum length of 15.

Required: No

networkInterfaces

An array of the network interfaces interacting with the EC2 instance where the finding is generated.

Type: Array of objects

Required: No

schemaVersion

The schema version of this data type.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

tags

The tags related to the EC2 instance where the finding is generated.

Type: Array of Tag (p. 174) 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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Attribute

This data type is used as a request parameter in the AddAttributesToFindings (p. 3) and
CreateAssessmentTemplate (p. 9) actions.

Contents

key

The attribute key.

Type: String

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

Required: Yes

value

The value assigned to the attribute key.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DurationRange

This data type is used in the AssessmentTemplateFilter (p. 147) data type.

Contents

maxSeconds

The maximum value of the duration range. Must be less than or equal to 604800 seconds (1 week).

Type: Integer

Valid Range: Minimum value of 180. Maximum value of 86400.

Required: No

minSeconds

The minimum value of the duration range. Must be greater than zero.

Type: Integer

Valid Range: Minimum value of 180. Maximum value of 86400.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EventSubscription

This data type is used in the Subscription (p. 173) data type.

Contents

event

The event for which Amazon Simple Notification Service (SNS) notifications are sent.

Type: String

Valid Values: `ASSESSMENT_RUN_STARTED` | `ASSESSMENT_RUN_COMPLETED` | `ASSESSMENT_RUN_STATE_CHANGED` | `FINDING_REPORTED` | `OTHER`

Required: Yes

subscribedAt

The time at which SubscribeToEvent (p. 118) is called.

Type: Timestamp

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Exclusion

Contains information about what was excluded from an assessment run.

Contents

arn

The ARN that specifies the exclusion.

Type: String

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

Required: Yes

attributes

The system-defined attributes for the exclusion.

Type: Array of Attribute (p. 150) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

description

The description of the exclusion.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: Yes

recommendation

The recommendation for the exclusion.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: Yes

scopes

The AWS resources for which the exclusion pertains.

Type: Array of Scope (p. 171) objects

Array Members: Minimum number of 1 item.

Required: Yes

title

The name of the exclusion.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ExclusionPreview

Contains information about what is excluded from an assessment run given the current state of the assessment template.

Contents

attributes

The system-defined attributes for the exclusion preview.

Type: Array of Attribute (p. 150) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

description

The description of the exclusion preview.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: Yes

recommendation

The recommendation for the exclusion preview.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: Yes

scopes

The AWS resources for which the exclusion preview pertains.

Type: Array of Scope (p. 171) objects

Array Members: Minimum number of 1 item.

Required: Yes

title

The name of the exclusion preview.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FailedItemDetails

Includes details about the failed items.

Contents

failureCode

The status code of a failed item.

Type: String

Valid Values: `INVALID_ARN` | `DUPLICATE_ARN` | `ITEM_DOES_NOT_EXIST` | `ACCESS_DENIED` | `LIMIT_EXCEEDED` | `INTERNAL_ERROR`

Required: Yes

retryable

Indicates whether you can immediately retry a request for this item for a specified resource.

Type: Boolean

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Finding

Contains information about an Amazon Inspector finding. This data type is used as the response element in the DescribeFindings (p. 42) action.

Contents

arn

The ARN that specifies the finding.

Type: String

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

Required: Yes

assetAttributes

A collection of attributes of the host from which the finding is generated.

Type: AssetAttributes (p. 148) object

Required: No

assetType

The type of the host from which the finding is generated.

Type: String

Valid Values: `ec2-instance`

Required: No

attributes

The system-defined attributes for the finding.

Type: Array of Attribute (p. 150) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: Yes

confidence

This data element is currently not used.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 10.

Required: No

createdAt

The time when the finding was generated.

Type: Timestamp

Required: Yes

description

The description of the finding.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

id

The ID of the finding.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

indicatorOfCompromise

This data element is currently not used.

Type: Boolean

Required: No

numericSeverity

The numeric value of the finding severity.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 10.0.

Required: No

recommendation

The recommendation for the finding.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

schemaVersion

The schema version of this data type.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

service

The data element is set to "Inspector".

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

serviceAttributes

This data type is used in the Finding (p. 158) data type.

Type: InspectorServiceAttributes (p. 163) object

Required: No

severity

The finding severity. Values can be set to High, Medium, Low, and Informational.

Type: String

Valid Values: `Low | Medium | High | Informational | Undefined`

Required: No

title

The name of the finding.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

updatedAt

The time when AddAttributesToFindings (p. 3) is called.

Type: Timestamp

Required: Yes

userAttributes

The user-defined attributes that are assigned to the finding.

Type: Array of Attribute (p. 150) objects

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

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FindingFilter

This data type is used as a request parameter in the ListFindings (p. 89) action.

Contents

agentIds

For a record to match a filter, one of the values that is specified for this data type property must be the exact match of the value of the **agentId** property of the Finding (p. 158) data type.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 99 items.

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

Required: No

attributes

For a record to match a filter, the list of values that are specified for this data type property must be contained in the list of values of the **attributes** property of the Finding (p. 158) data type.

Type: Array of Attribute (p. 150) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

autoScalingGroups

For a record to match a filter, one of the values that is specified for this data type property must be the exact match of the value of the **autoScalingGroup** property of the Finding (p. 158) data type.

Type: Array of strings

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

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

Required: No

creationTimeRange

The time range during which the finding is generated.

Type: TimestampRange (p. 176) object

Required: No

ruleNames

For a record to match a filter, one of the values that is specified for this data type property must be the exact match of the value of the **ruleName** property of the Finding (p. 158) data type.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Maximum length of 1000.

Required: No

rulesPackageArns

For a record to match a filter, one of the values that is specified for this data type property must be the exact match of the value of the **rulesPackageArn** property of the Finding (p. 158) data type.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Required: No

severities

For a record to match a filter, one of the values that is specified for this data type property must be the exact match of the value of the **severity** property of the Finding (p. 158) data type.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Valid Values: `Low | Medium | High | Informational | Undefined`

Required: No

userAttributes

For a record to match a filter, the value that is specified for this data type property must be contained in the list of values of the **userAttributes** property of the Finding (p. 158) data type.

Type: Array of Attribute (p. 150) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InspectorServiceAttributes

This data type is used in the data type.

Contents

assessmentRunArn

The ARN of the assessment run during which the finding is generated.

Type: String

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

Required: No

rulesPackageArn

The ARN of the rules package that is used to generate the finding.

Type: String

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

Required: No

schemaVersion

The schema version of this data type.

Type: Integer

Valid Range: Minimum value of 0.

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NetworkInterface

Contains information about the network interfaces interacting with an EC2 instance. This data type is used as one of the elements of the AssetAttributes (p. 148) data type.

Contents

ipv6Addresses

The IP addresses associated with the network interface.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

networkInterfaceId

The ID of the network interface.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

privateDnsName

The name of a private DNS associated with the network interface.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

privateIpAddress

The private IP address associated with the network interface.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

privateIpAddresses

A list of the private IP addresses associated with the network interface. Includes the privateDnsName and privateIpAddress.

Type: Array of PrivateIp (p. 166) objects

Required: No

publicDnsName

The name of a public DNS associated with the network interface.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

publicIp

The public IP address from which the network interface is reachable.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

securityGroups

A list of the security groups associated with the network interface. Includes the groupId and groupName.

Type: Array of SecurityGroup (p. 172) objects

Required: No

subnetId

The ID of a subnet associated with the network interface.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

vpcId

The ID of a VPC associated with the network interface.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PrivateIp

Contains information about a private IP address associated with a network interface. This data type is used as a response element in the DescribeFindings (p. 42) action.

Contents

privateDnsName

The DNS name of the private IP address.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

privateIpAddress

The full IP address of the network inteface.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceGroup

Contains information about a resource group. The resource group defines a set of tags that, when queried, identify the AWS resources that make up the assessment target. This data type is used as the response element in the DescribeResourceGroups (p. 47) action.

Contents

arn

The ARN of the resource group.

Type: String

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

Required: Yes

createdAt

The time at which resource group is created.

Type: Timestamp

Required: Yes

tags

The tags (key and value pairs) of the resource group. This data type property is used in the CreateResourceGroup (p. 15) action.

Type: Array of ResourceGroupTag (p. 168) objects

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

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceGroupTag

This data type is used as one of the elements of the ResourceGroup (p. 167) data type.

Contents

key

A tag key.

Type: String

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

Required: Yes

value

The value assigned to a tag key.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RulesPackage

Contains information about an Amazon Inspector rules package. This data type is used as the response element in the DescribeRulesPackages (p. 50) action.

Contents

arn

> The ARN of the rules package.
>
> Type: String
>
> Length Constraints: Minimum length of 1. Maximum length of 300.
>
> Required: Yes

description

> The description of the rules package.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 20000.
>
> Required: No

name

> The name of the rules package.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 1000.
>
> Required: Yes

provider

> The provider of the rules package.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 1000.
>
> Required: Yes

version

> The version ID of the rules package.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 1000.
>
> 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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Scope

This data type contains key-value pairs that identify various Amazon resources.

Contents

key

The type of the scope.

Type: String

Valid Values: `INSTANCE_ID | RULES_PACKAGE_ARN`

Required: No

value

The resource identifier for the specified scope type.

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SecurityGroup

Contains information about a security group associated with a network interface. This data type is used as one of the elements of the NetworkInterface (p. 164) data type.

Contents

groupId

The ID of the security group.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

groupName

The name of the security group.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Subscription

This data type is used as a response element in the ListEventSubscriptions (p. 82) action.

Contents

eventSubscriptions

The list of existing event subscriptions.

Type: Array of EventSubscription (p. 152) objects

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

Required: Yes

resourceArn

The ARN of the assessment template that is used during the event for which the SNS notification is sent.

Type: String

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

Required: Yes

topicArn

The ARN of the Amazon Simple Notification Service (SNS) topic to which the SNS notifications are sent.

Type: String

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

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Tag

A key and value pair. This data type is used as a request parameter in the SetTagsForResource (p. 109) action and a response element in the ListTagsForResource (p. 96) action.

Contents

key

A tag key.

Type: String

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

Required: Yes

value

A value assigned to a tag key.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TelemetryMetadata

The metadata about the Amazon Inspector application data metrics collected by the agent. This data type is used as the response element in the GetTelemetryMetadata (p. 60) action.

Contents

count

The count of messages that the agent sends to the Amazon Inspector service.

Type: Long

Required: Yes

dataSize

The data size of messages that the agent sends to the Amazon Inspector service.

Type: Long

Required: No

messageType

A specific type of behavioral data that is collected by the agent.

Type: String

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

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TimestampRange

This data type is used in the AssessmentRunFilter (p. 137) data type.

Contents

beginDate

The minimum value of the timestamp range.

Type: Timestamp

Required: No

endDate

The maximum value of the timestamp range.

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 Go
- 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 Signature Version 4 Signing Process in the *Amazon Web Services General Reference*.

Action

> The action to be performed.
>
> Type: string
>
> Required: Yes

Version

> The API version that the request is written for, expressed in the format YYYY-MM-DD.
>
> Type: string
>
> Required: Yes

X-Amz-Algorithm

> The hash algorithm that you used to create the request signature.
>
> Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.
>
> Type: string
>
> Valid Values: `AWS4-HMAC-SHA256`
>
> Required: Conditional

X-Amz-Credential

> The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key*/*YYYYMMDD*/*region*/*service*/aws4_request.
>
> For more information, see Task 2: Create a String to Sign for Signature Version 4 in the *Amazon Web Services General Reference*.
>
> 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 Handling Dates in Signature Version 4 in the *Amazon Web Services General Reference*.

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 Security Token Service, go to AWS Services That Work with IAM in the *IAM User Guide*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, 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 Task 1: Create a Canonical Request For Signature Version 4 in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

InvalidAction

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

InvalidClientTokenId

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

InvalidQueryParameter

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400