Amazon Inspector

API Reference

API Version 2016-02-16

Amazon Inspector: API Reference

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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 (p. 4)": [
      {
         "key (p. 113)": "string",
         "value (p. 113)": "string"
      }
   ],
   "findingArns (p. 4)": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

attributes (p. 4)

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

Type: array of Attribute (p. 113) objects

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

Required: Yes

findingArns (p. 4)

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 (p. 4)": {
      "string" : {
         "failureCode (p. 116)": "string",
         "retryable (p. 116)": 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. 4)

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

Type: String to FailedItemDetails (p. 116) object map

Errors

For information about the errors that are common to all actions, see Common Errors (p. 131).

AccessDeniedException

You do not have required permissions to access the requested resource.

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

Example

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 boto
core/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": {}
}
```

CreateAssessmentTarget

Creates a new assessment target using the ARN of the resource group that is generated by CreateResourceGroup (p. 13). 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 (p. 7)": "string",
    "resourceGroupArn (p. 7)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentTargetName (p. 7)
 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. 7)
 The ARN that specifies the resource group that is used to create the assessment target.
 Type: String
 Length Constraints: Minimum length of 1. Maximum length of 300.
 Required: Yes

Response Syntax

```
{
    "assessmentTargetArn (p. 7)": "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. 7)
 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. 131).

AccessDeniedException

You do not have required permissions to access the requested resource.

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

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

Example

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 boto
core/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"
                }
```

CreateAssessmentTemplate

Creates an assessment template for the assessment target that is specified by the ARN of the assessment target.

Request Syntax

```
{
    "assessmentTargetArn (p. 10)": "string",
    "assessmentTemplateName (p. 10)": "string",
    "durationInSeconds (p. 10)": number,
    "rulesPackageArns (p. 10)": [ "string" ],
    "userAttributesForFindings (p. 10)": [
        {
            "key (p. 113)": "string",
            "value (p. 113)": "string"
        }
    ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentTargetArn (p. 10)

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. 10)

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. 10)

The duration of the assessment run in seconds. The default value is 3600 seconds (one hour).

Type: Integer

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

Required: Yes

rulesPackageArns (p. 10)

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. 10)

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

Type: array of Attribute (p. 113) objects

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

Required: No

Response Syntax

```
{
    "assessmentTemplateArn (p. 11)": "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. 11)

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. 131).

AccessDeniedException

You do not have required permissions to access the requested resource.

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

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

Example

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 boto
core/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"
                    }
```

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. 7).

Request Syntax

```
{
   "resourceGroupTags (p. 13)": [
      {
         "key (p. 123)": "string",
         "value (p. 123)": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

resourceGroupTags (p. 13)
> 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. 123) objects
> Array Members: Minimum number of 1 item. Maximum number of 10 items.
> Required: Yes

Response Syntax

```
{
   "resourceGroupArn (p. 13)": "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. 13)
> 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. 131).

AccessDeniedException

You do not have required permissions to access the requested resource.

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

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

Example

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 boto
core/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"
                    }
```

DeleteAssessmentRun

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

Request Syntax

```
{
    "assessmentRunArn (p. 16)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentRunArn (p. 16)

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. 131).

AccessDeniedException

You do not have required permissions to access the requested resource.

HTTP Status Code: 400

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

Example

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 boto
core/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
```

DeleteAssessmentTarget

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

Request Syntax

```
{
    "assessmentTargetArn (p. 18)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentTargetArn (p. 18)
> 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. 131).

AccessDeniedException
> You do not have required permissions to access the requested resource.
> HTTP Status Code: 400

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

Example

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 boto
core/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
```

DeleteAssessmentTemplate

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

Request Syntax

```
{
    "assessmentTemplateArn (p. 20)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentTemplateArn (p. 20)
> 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. 131).

AccessDeniedException
> You do not have required permissions to access the requested resource.
> HTTP Status Code: 400

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

Example

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 boto
core/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
```

DescribeAssessmentRuns

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

Request Syntax

```
{
    "assessmentRunArns (p. 22)": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentRunArns (p. 22)

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 (p. 23)": [
        {
            "arn (p. 101)": "string",
            "assessmentTemplateArn (p. 101)": "string",
            "completedAt (p. 101)": number,
            "createdAt (p. 101)": number,
            "dataCollected (p. 101)": boolean,
            "durationInSeconds (p. 101)": number,
            "name (p. 101)": "string",
            "notifications (p. 101)": [
                {
                    "date (p. 106)": number,
                    "error (p. 106)": boolean,
                    "event (p. 106)": "string",
                    "message (p. 106)": "string",
                    "snsPublishStatusCode (p. 106)": "string",
                    "snsTopicArn (p. 106)": "string"
                }
            ],
            "rulesPackageArns (p. 101)": [ "string" ],
            "startedAt (p. 102)": number,
            "state (p. 102)": "string",
            "stateChangedAt (p. 102)": number,
            "stateChanges (p. 102)": [
                {
                    "state (p. 107)": "string",
                    "stateChangedAt (p. 107)": number
```

```
                }
            ],
            "userAttributesForFindings (p. 102)": [
                {
                    "key (p. 113)": "string",
                    "value (p. 113)": "string"
                }
            ]
        }
    ],
    "failedItems (p. 23)": {
        "string" : {
            "failureCode (p. 116)": "string",
            "retryable (p. 116)": 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. 22)

    Information about the assessment run.

    Type: array of AssessmentRun (p. 101) objects

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

failedItems (p. 22)

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

    Type: String to FailedItemDetails (p. 116) object map

Errors

For information about the errors that are common to all actions, see Common Errors (p. 131).

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

Example

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": {}
           }
```

DescribeAssessmentTargets

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

Request Syntax

```
{
    "assessmentTargetArns (p. 26)": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentTargetArns (p. 26)
> 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 (p. 26)": [
        {
            "arn (p. 108)": "string",
            "createdAt (p. 108)": number,
            "name (p. 108)": "string",
            "resourceGroupArn (p. 108)": "string",
            "updatedAt (p. 108)": number
        }
    ],
    "failedItems (p. 27)": {
        "string" : {
            "failureCode (p. 116)": "string",
            "retryable (p. 116)": 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. 26)
> Information about the assessment targets.
> Type: array of AssessmentTarget (p. 108) objects
> Array Members: Minimum number of 0 items. Maximum number of 10 items.

failedItems (p. 26)

> Assessment target details that cannot be described. An error code is provided for each failed item.
>
> Type: String to FailedItemDetails (p. 116) object map

Errors

For information about the errors that are common to all actions, see Common Errors (p. 131).

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

Example

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": {}
        }
```

DescribeAssessmentTemplates

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

Request Syntax

```
{
    "assessmentTemplateArns (p. 29)": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentTemplateArns (p. 29)
> 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 (p. 30)": [
        {
            "arn (p. 110)": "string",
            "assessmentTargetArn (p. 110)": "string",
            "createdAt (p. 110)": number,
            "durationInSeconds (p. 110)": number,
            "name (p. 110)": "string",
            "rulesPackageArns (p. 110)": [ "string" ],
            "userAttributesForFindings (p. 110)": [
                {
                    "key (p. 113)": "string",
                    "value (p. 113)": "string"
                }
            ]
        }
    ],
    "failedItems (p. 30)": {
        "string" : {
            "failureCode (p. 116)": "string",
            "retryable (p. 116)": 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. 29)

Information about the assessment templates.

Type: array of AssessmentTemplate (p. 110) objects

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

failedItems (p. 29)

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

Type: String to FailedItemDetails (p. 116) object map

Errors

For information about the errors that are common to all actions, see Common Errors (p. 131).

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

Example

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": {}
               }
```

DescribeCrossAccountAccessRole

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

Response Syntax

```
{
    "registeredAt (p. 32)": number,
    "roleArn (p. 32)": "string",
    "valid (p. 32)": 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. 32)

The date when the cross-account access role was registered.

Type: Timestamp

roleArn (p. 32)

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. 32)

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. 131).

InternalException

Internal server error.

HTTP Status Code: 500

Example

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
}
```

DescribeFindings

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

Request Syntax

```
{
   "findingArns (p. 34)": [ "string" ],
   "locale (p. 34)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

findingArns (p. 34)

    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. 34)

    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 (p. 35)": {
      "string" : {
         "failureCode (p. 116)": "string",
         "retryable (p. 116)": boolean
      }
   },
   "findings (p. 35)": [
      {
         "arn (p. 117)": "string",
         "assetAttributes (p. 117)": {
            "agentId (p. 112)": "string",
            "amiId (p. 112)": "string",
            "autoScalingGroup (p. 112)": "string",
            "hostname (p. 112)": "string",
            "ipv4Addresses (p. 112)": [ "string" ],
            "schemaVersion (p. 112)": number
         },
         "assetType (p. 117)": "string",
         "attributes (p. 117)": [
```

```
            {
                "key (p. 113)": "string",
                "value (p. 113)": "string"
            }
        ],
        "confidence (p. 117)": number,
        "createdAt (p. 117)": number,
        "description (p. 117)": "string",
        "id (p. 117)": "string",
        "indicatorOfCompromise (p. 117)": boolean,
        "numericSeverity (p. 118)": number,
        "recommendation (p. 118)": "string",
        "schemaVersion (p. 118)": number,
        "service (p. 118)": "string",
        "serviceAttributes (p. 118)": {
            "assessmentRunArn (p. 121)": "string",
            "rulesPackageArn (p. 121)": "string",
            "schemaVersion (p. 121)": number
        },
        "severity (p. 118)": "string",
        "title (p. 118)": "string",
        "updatedAt (p. 118)": number,
        "userAttributes (p. 118)": [
            {
                "key (p. 113)": "string",
                "value (p. 113)": "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. 34)

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

Type: String to FailedItemDetails (p. 116) object map

findings (p. 34)

Information about the finding.

Type: array of Finding (p. 117) 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. 131).

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

Example

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": {
                   "ipv4Addresses": [],
                   "schemaVersion": 1
                 },
                 "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": []
                  }
                ]
              }
```

DescribeResourceGroups

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

Request Syntax

```
{
    "resourceGroupArns (p. 38)": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

resourceGroupArns (p. 38)
> 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 (p. 38)": {
        "string" : {
            "failureCode (p. 116)": "string",
            "retryable (p. 116)": boolean
        }
    },
    "resourceGroups (p. 39)": [
        {
            "arn (p. 122)": "string",
            "createdAt (p. 122)": number,
            "tags (p. 122)": [
                {
                    "key (p. 123)": "string",
                    "value (p. 123)": "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. 38)
> Resource group details that cannot be described. An error code is provided for each failed item.

Type: String to FailedItemDetails (p. 116) object map

resourceGroups (p. 38)

Information about a resource group.

Type: array of ResourceGroup (p. 122) 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. 131).

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

Example

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:resource
group/0-PyGXopAI",
                        "createdAt": 1458074191.098,
                        "tags": [
                          {
                            "key": "Name",
                            "value": "example"
                          }
                        ]
                      }
                    ]
                  }
```

DescribeRulesPackages

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

Request Syntax

```
{
    "locale (p. 41)": "string",
    "rulesPackageArns (p. 41)": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

locale (p. 41)

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

Type: String

Valid Values: `EN_US`

Required: No

rulesPackageArns (p. 41)

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 (p. 42)": {
        "string" : {
            "failureCode (p. 116)": "string",
            "retryable (p. 116)": boolean
        }
    },
    "rulesPackages (p. 42)": [
        {
            "arn (p. 124)": "string",
            "description (p. 124)": "string",
            "name (p. 124)": "string",
            "provider (p. 124)": "string",
            "version (p. 124)": "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. 41)
> Rules package details that cannot be described. An error code is provided for each failed item.
>
> Type: String to FailedItemDetails (p. 116) object map

rulesPackages (p. 41)
> Information about the rules package.
>
> Type: array of RulesPackage (p. 124) 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. 131).

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

Example

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 Vulnerabil
ities and
                    Exposures (CVEs). Attacks can exploit unpatched vulnerab
ilities 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 [ht
tps://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"
                  }
                ]
              }
```

GetTelemetryMetadata

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

Request Syntax

```
{
    "assessmentRunArn (p. 44)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentRunArn (p. 44)
>   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 (p. 44)": [
        {
            "count (p. 127)": number,
            "dataSize (p. 127)": number,
            "messageType (p. 127)": "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. 44)
>   Telemetry details.
>   Type: array of TelemetryMetadata (p. 127) 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. 131).

AccessDeniedException
>   You do not have required permissions to access the requested resource.
>   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

Example

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 boto
core/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"
      }
    ]
  }
```

ListAssessmentRunAgents

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

Request Syntax

```
{
    "assessmentRunArn (p. 49)": "string",
    "filter (p. 49)": {
        "agentHealthCodes (p. 99)": [ "string" ],
        "agentHealths (p. 99)": [ "string" ]
    },
    "maxResults (p. 49)": number,
    "nextToken (p. 49)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentRunArn (p. 49)

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. 49)

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. 99) object

Required: No

maxResults (p. 49)

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. 49)

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 (p. 50)": [
```

```
      {
         "agentHealth (p. 103)": "string",
         "agentHealthCode (p. 103)": "string",
         "agentHealthDetails (p. 103)": "string",
         "agentId (p. 103)": "string",
         "assessmentRunArn (p. 103)": "string",
         "autoScalingGroup (p. 103)": "string",
         "telemetryMetadata (p. 103)": [
            {
               "count (p. 127)": number,
               "dataSize (p. 127)": number,
               "messageType (p. 127)": "string"
            }
         ]
      }
   ],
   "nextToken (p. 50)": "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. 49)

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

Type: array of AssessmentRunAgent (p. 103) objects

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

nextToken (p. 49)

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. 131).

AccessDeniedException

You do not have required permissions to access the requested resource.

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

Example

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"
                }
              ]
            }
          ]
        }
```

ListAssessmentRuns

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

Request Syntax

```
{
   "assessmentTemplateArns (p. 55)": [ "string" ],
   "filter (p. 55)": {
      "completionTimeRange (p. 104)": {
         "beginDate (p. 128)": number,
         "endDate (p. 128)": number
      },
      "durationRange (p. 104)": {
         "maxSeconds (p. 114)": number,
         "minSeconds (p. 114)": number
      },
      "namePattern (p. 104)": "string",
      "rulesPackageArns (p. 104)": [ "string" ],
      "startTimeRange (p. 104)": {
         "beginDate (p. 128)": number,
         "endDate (p. 128)": number
      },
      "stateChangeTimeRange (p. 104)": {
         "beginDate (p. 128)": number,
         "endDate (p. 128)": number
      },
      "states (p. 104)": [ "string" ]
   },
   "maxResults (p. 56)": number,
   "nextToken (p. 56)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentTemplateArns (p. 55)

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. 55)

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. 104) object

Required: No

>   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

>   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 (p. 56)": [ "string" ],
   "nextToken (p. 56)": "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.

>   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.

>   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. 131).

AccessDeniedException
>   You do not have required permissions to access the requested resource.
>
>   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

Example

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"
    ]
}
```

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 (p. 58)": {
      "assessmentTargetNamePattern (p. 109)": "string"
   },
   "maxResults (p. 58)": number,
   "nextToken (p. 58)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

filter (p. 58)

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. 109) object

Required: No

maxResults (p. 58)

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. 58)

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 (p. 59)": [ "string" ],
   "nextToken (p. 59)": "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. 58)

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. 58)

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. 131).

AccessDeniedException

You do not have required permissions to access the requested resource.

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

Example

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"

    ]
}
```

ListAssessmentTemplates

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

Request Syntax

```
{
    "assessmentTargetArns (p. 61)": [ "string" ],
    "filter (p. 61)": {
        "durationRange (p. 111)": {
            "maxSeconds (p. 114)": number,
            "minSeconds (p. 114)": number
        },
        "namePattern (p. 111)": "string",
        "rulesPackageArns (p. 111)": [ "string" ]
    },
    "maxResults (p. 61)": number,
    "nextToken (p. 61)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentTargetArns (p. 61)

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. 61)

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. 111) object

Required: No

maxResults (p. 61)

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. 61)

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 (p. 62)": [ "string" ],
    "nextToken (p. 62)": "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. 62)

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. 62)

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. 131).

AccessDeniedException

You do not have required permissions to access the requested resource.

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

Example

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"
                    ]
            }
```

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. 90) and UnsubscribeFromEvent (p. 92).

Request Syntax

```
{
    "maxResults (p. 64)": number,
    "nextToken (p. 64)": "string",
    "resourceArn (p. 64)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

maxResults (p. 64)

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. 64)

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. 64)

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 (p. 65)": "string",
    "subscriptions (p. 65)": [
        {
            "eventSubscriptions (p. 125)": [
                {
                    "event (p. 115)": "string",
                    "subscribedAt (p. 115)": number
                }
            ],
            "resourceArn (p. 125)": "string",
            "topicArn (p. 125)": "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. 64)

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. 64)

Details of the returned event subscriptions.

Type: array of Subscription (p. 125) 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. 131).

AccessDeniedException

You do not have required permissions to access the requested resource.

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

Example

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 boto
```

```
core/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:ex
ampletopic"
                     }
                   ]
                }
```

ListFindings

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

Request Syntax

```
{
   "assessmentRunArns (p. 67)": [ "string" ],
   "filter (p. 67)": {
      "agentIds (p. 119)": [ "string" ],
      "attributes (p. 119)": [
         {
            "key (p. 113)": "string",
            "value (p. 113)": "string"
         }
      ],
      "autoScalingGroups (p. 119)": [ "string" ],
      "creationTimeRange (p. 119)": {
         "beginDate (p. 128)": number,
         "endDate (p. 128)": number
      },
      "ruleNames (p. 119)": [ "string" ],
      "rulesPackageArns (p. 119)": [ "string" ],
      "severities (p. 119)": [ "string" ],
      "userAttributes (p. 120)": [
         {
            "key (p. 113)": "string",
            "value (p. 113)": "string"
         }
      ]
   },
   "maxResults (p. 68)": number,
   "nextToken (p. 68)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentRunArns (p. 67)

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. 67)

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. 119) object

Required: No

maxResults (p. 67)

> 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. 67)

> 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 (p. 68)": [ "string" ],
    "nextToken (p. 68)": "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. 68)

> 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. 68)

> 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. 131).

AccessDeniedException

> You do not have required permissions to access the requested resource.
>
> 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

Example

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"
    ]
}
```

ListRulesPackages

Lists all available Amazon Inspector rules packages.

Request Syntax

```
{
    "maxResults (p. 70)": number,
    "nextToken (p. 70)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

maxResults (p. 70)

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. 70)

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 (p. 70)": "string",
    "rulesPackageArns (p. 70)": [ "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. 70)

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. 70)

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. 131).

AccessDeniedException

You do not have required permissions to access the requested resource.

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

Example

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 boto
core/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"
                   ]
               }
```

ListTagsForResource

Lists all tags associated with an assessment template.

Request Syntax

```
{
    "resourceArn (p. 73)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

resourceArn (p. 73)
> 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 (p. 73)": [
        {
            "key (p. 126)": "string",
            "value (p. 126)": "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. 73)
> A collection of key and value pairs.
> Type: array of Tag (p. 126) 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. 131).

AccessDeniedException
> You do not have required permissions to access the requested resource.
> 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

Example

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:tar
get/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"
            }
          ]
        }
```

PreviewAgents

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

Request Syntax

```
{
    "maxResults (p. 75)": number,
    "nextToken (p. 75)": "string",
    "previewAgentsArn (p. 75)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

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 **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. 75)

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 (p. 76)": [
        {
            "agentId (p. 100)": "string",
            "autoScalingGroup (p. 100)": "string"
        }
    ],
    "nextToken (p. 76)": "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. 75)

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

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. 131).

AccessDeniedException

> You do not have required permissions to access the requested resource.
>
> 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

NoSuchEntityException

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

Example

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 boto
core/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": [
                    {
                      "agentId": "i-49113b93"
                    }
                  ]
                }
```

RegisterCrossAccountAccessRole

Registers the IAM role that Amazon Inspector uses to list your EC2 instances at the start of the assessment run or when you call the PreviewAgents (p. 75) action.

Request Syntax

```
{
    "roleArn (p. 78)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

roleArn (p. 78)

The ARN of the IAM role that Amazon Inspector uses to list your EC2 instances during the assessment run or when you call the PreviewAgents (p. 75) action.

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. 131).

AccessDeniedException

You do not have required permissions to access the requested resource.

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

Example

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 boto
core/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
```

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 (p. 80)": [ "string" ],
    "findingArns (p. 80)": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

attributeKeys (p. 80)
>   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. 80)
>   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 (p. 80)": {
        "string" : {
            "failureCode (p. 116)": "string",
            "retryable (p. 116)": 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. 80)
>   Attributes details that cannot be described. An error code is provided for each failed item.
>
>   Type: String to FailedItemDetails (p. 116) object map

Errors

For information about the errors that are common to all actions, see Common Errors (p. 131).

AccessDeniedException

You do not have required permissions to access the requested resource.

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

Example

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 boto
core/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": {}
}
```

SetTagsForResource

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

Request Syntax

```
{
    "resourceArn (p. 83)": "string",
    "tags (p. 83)": [
        {
            "key (p. 126)": "string",
            "value (p. 126)": "string"
        }
    ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

resourceArn (p. 83)

> 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. 83)

> A collection of key and value pairs that you want to set to the assessment template.
>
> Type: array of Tag (p. 126) 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. 131).

AccessDeniedException

> You do not have required permissions to access the requested resource.
>
> 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

Example

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 boto
core/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
```

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 (p. 85)": "string",
    "assessmentTemplateArn (p. 85)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentRunName (p. 85)
> You can specify the name for the assessment run, or you can use the auto-generated name that is based on the assessment template name. The name must be unique for the assessment template.
>
> Type: String
>
> Length Constraints: Minimum length of 1. Maximum length of 140.
>
> Required: No

assessmentTemplateArn (p. 85)
> 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 (p. 85)": "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. 85)
> 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. 131).

AccessDeniedException

You do not have required permissions to access the requested resource.

HTTP Status Code: 400

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

Example

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 boto
core/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"
}
```

StopAssessmentRun

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

Request Syntax

```
{
    "assessmentRunArn (p. 88)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentRunArn (p. 88)
> 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

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. 131).

AccessDeniedException
> You do not have required permissions to access the requested resource.
> 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

Example

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 boto
core/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
```

SubscribeToEvent

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

Request Syntax

```
{
    "event (p. 90)": "string",
    "resourceArn (p. 90)": "string",
    "topicArn (p. 90)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

event (p. 90)

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. 90)

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. 90)

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. 131).

AccessDeniedException

You do not have required permissions to access the requested resource.

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

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

Example

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 boto
core/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
```

UnsubscribeFromEvent

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

Request Syntax

```
{
    "event (p. 92)": "string",
    "resourceArn (p. 92)": "string",
    "topicArn (p. 92)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

event (p. 92)
> 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. 92)
> 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. 92)
> 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. 131).

AccessDeniedException
> You do not have required permissions to access the requested resource.
>
> 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

Example

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 boto
core/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
```

UpdateAssessmentTarget

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

Request Syntax

```
{
    "assessmentTargetArn (p. 94)": "string",
    "assessmentTargetName (p. 94)": "string",
    "resourceGroupArn (p. 94)": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 129).

The request requires the following data in JSON format.

assessmentTargetArn (p. 94)

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. 94)

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. 94)

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: 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. 131).

AccessDeniedException

You do not have required permissions to access the requested resource.

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

Example

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 boto
core/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
```

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

AgentFilter

Contains information about an Amazon Inspector agent. This data type is used as a request parameter in the ListAssessmentRunAgents (p. 49) 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`

Required: Yes

AgentPreview

Used as a response element in the action.

Contents

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

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

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. 22) 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. 85) 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

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. 106) 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. 85) 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` | `EVALUATING_RULES` | `FAILED`
| `COMPLETED` | `COMPLETED_WITH_ERRORS`

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. 107) 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. 113) objects

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

Required: Yes

AssessmentRunAgent

Contains information about an Amazon Inspector agent. This data type is used as a response element in the ListAssessmentRunAgents (p. 49) action.

Contents

agentHealth
The current health state of the agent.
Type: String
Valid Values: HEALTHY | UNHEALTHY
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. 127) objects
Array Members: Minimum number of 0 items. Maximum number of 5000 items.
Required: Yes

AssessmentRunFilter

Used as the request parameter in the ListAssessmentRuns (p. 55) 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. 101) data type.

Type: TimestampRange (p. 128) 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. 101) data type.

Type: DurationRange (p. 114) 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. 101) 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. 101) 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. 101) data type.

Type: TimestampRange (p. 128) 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. 101) data type.

Type: TimestampRange (p. 128) 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. 101) 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 | EVALUATING_RULES | FAILED
| COMPLETED | COMPLETED_WITH_ERRORS
Required: No

AssessmentRunNotification

Used as one of the elements of the AssessmentRun (p. 101) 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

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

AssessmentRunStateChange

Used as one of the elements of the AssessmentRun (p. 101) 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` | `EVALUATING_RULES` | `FAILED`
| `COMPLETED` | `COMPLETED_WITH_ERRORS`

Required: Yes

stateChangedAt

The last time the assessment run state changed.

Type: Timestamp

Required: Yes

AssessmentTarget

Contains information about an Amazon Inspector application. This data type is used as the response element in the DescribeAssessmentTargets (p. 26) 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: Yes

updatedAt

The time at which UpdateAssessmentTarget (p. 94) is called.

Type: Timestamp

Required: Yes

AssessmentTargetFilter

Used as the request parameter in the ListAssessmentTargets (p. 58) 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. 108) data type.

Type: String

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

Required: No

AssessmentTemplate

Contains information about an Amazon Inspector assessment template. This data type is used as the response element in the DescribeAssessmentTemplates (p. 29) action.

Contents

arn

The ARN of the assessment template.

Type: String

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

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 tempate. 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

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. 113) objects

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

Required: Yes

AssessmentTemplateFilter

Used as the request parameter in the ListAssessmentTemplates (p. 61) 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. 110) data type.

Type: DurationRange (p. 114) 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. 110) 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. 110) 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

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

schemaVersion
    The schema version of this data type.

    Type: Integer

    Valid Range: Minimum value of 0.

    Required: Yes

Attribute

This data type is used as a request parameter in the AddAttributesToFindings (p. 4) and CreateAssessmentTemplate (p. 10) 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

DurationRange

This data type is used in the AssessmentTemplateFilter (p. 111) 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

EventSubscription

This data type is used in the Subscription (p. 125) 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. 90) is called.

Type: Timestamp

Required: Yes

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

Finding

Contains information about an Amazon Inspector finding. This data type is used as the response element in the DescribeFindings (p. 34) 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. 112) 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. 113) 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. 117) data type.

Type: InspectorServiceAttributes (p. 121) 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. 4) is called.

Type: Timestamp

Required: Yes

userAttributes

The user-defined attributes that are assigned to the finding.

Type: array of Attribute (p. 113) objects

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

Required: Yes

FindingFilter

This data type is used as a request parameter in the ListFindings (p. 67) 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. 117) data type.

Type: array of Strings

Array Members: Minimum number of 0 items. Maximum number of 500 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. 117) data type.

Type: array of Attribute (p. 113) 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. 117) 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. 128) 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. 117) 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. 117) 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. 117) 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. 117) data type.

Type: array of Attribute (p. 113) objects

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

Required: No

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

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. 38) 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. 13) action.

Type: array of ResourceGroupTag (p. 123) objects

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

Required: Yes

ResourceGroupTag

This data type is used as one of the elements of the ResourceGroup (p. 122) 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

RulesPackage

Contains information about an Amazon Inspector rules package. This data type is used as the response element in the DescribeRulesPackages (p. 41) 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

Subscription

This data type is used as a response element in the action.

Contents

eventSubscriptions

The list of existing event subscriptions.

Type: array of EventSubscription (p. 115) 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

Tag

A key and value pair. This data type is used as a request parameter in the SetTagsForResource (p. 83) action and a response element in the ListTagsForResource (p. 73) 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

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. 44) 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

TimestampRange

This data type is used in the AssessmentRunFilter (p. 104) 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

Common Parameters

The following table lists the parameters that all actions use for signing Signature Version 4 requests. Any action-specific parameters are listed in the topic for that action. To view sample requests, see Examples of Signed Signature Version 4 Requests or Signature Version 4 Test Suite 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. For a list of services that support AWS Security Token Service, go to Using Temporary Security Credentials to Access AWS in *Using Temporary Security Credentials*.

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 common errors that all actions return. Any action-specific errors are listed in the topic for the action.

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

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

Throttling

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