



API Reference

# Amazon Inspector Classic



**API Version 2016-02-16**

Copyright © 2024 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

# Amazon Inspector Classic: API Reference

Copyright © 2024 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

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

---

# Table of Contents

<b>Welcome</b> .....	<b>1</b>
<b>Actions</b> .....	<b>2</b>
AddAttributesToFindings .....	4
Request Syntax .....	4
Request Parameters .....	4
Response Syntax .....	5
Response Elements .....	5
Errors .....	5
Examples .....	6
See Also .....	7
CreateAssessmentTarget .....	8
Request Syntax .....	8
Request Parameters .....	8
Response Syntax .....	9
Response Elements .....	9
Errors .....	9
Examples .....	10
See Also .....	11
CreateAssessmentTemplate .....	13
Request Syntax .....	13
Request Parameters .....	13
Response Syntax .....	15
Response Elements .....	15
Errors .....	15
Examples .....	16
See Also .....	17
CreateExclusionsPreview .....	19
Request Syntax .....	19
Request Parameters .....	19
Response Syntax .....	19
Response Elements .....	19
Errors .....	20
See Also .....	21
CreateResourceGroup .....	22

Request Syntax .....	22
Request Parameters .....	22
Response Syntax .....	22
Response Elements .....	23
Errors .....	23
Examples .....	24
See Also .....	25
DeleteAssessmentRun .....	26
Request Syntax .....	26
Request Parameters .....	26
Response Elements .....	26
Errors .....	26
Examples .....	27
See Also .....	28
DeleteAssessmentTarget .....	29
Request Syntax .....	29
Request Parameters .....	29
Response Elements .....	29
Errors .....	29
Examples .....	30
See Also .....	31
DeleteAssessmentTemplate .....	32
Request Syntax .....	32
Request Parameters .....	32
Response Elements .....	32
Errors .....	32
Examples .....	33
See Also .....	34
DescribeAssessmentRuns .....	35
Request Syntax .....	35
Request Parameters .....	35
Response Syntax .....	35
Response Elements .....	36
Errors .....	37
Examples .....	37
See Also .....	40

DescribeAssessmentTargets .....	41
Request Syntax .....	41
Request Parameters .....	41
Response Syntax .....	41
Response Elements .....	42
Errors .....	42
Examples .....	43
See Also .....	44
DescribeAssessmentTemplates .....	45
Request Syntax .....	45
Request Parameters .....	45
Response Syntax .....	45
Response Elements .....	46
Errors .....	46
Examples .....	47
See Also .....	48
DescribeCrossAccountAccessRole .....	50
Response Syntax .....	50
Response Elements .....	50
Errors .....	50
Examples .....	51
See Also .....	52
DescribeExclusions .....	53
Request Syntax .....	53
Request Parameters .....	53
Response Syntax .....	53
Response Elements .....	54
Errors .....	55
See Also .....	55
DescribeFindings .....	57
Request Syntax .....	57
Request Parameters .....	57
Response Syntax .....	57
Response Elements .....	59
Errors .....	60
Examples .....	60

---

See Also .....	63
DescribeResourceGroups .....	65
Request Syntax .....	65
Request Parameters .....	65
Response Syntax .....	65
Response Elements .....	66
Errors .....	66
Examples .....	67
See Also .....	68
DescribeRulesPackages .....	69
Request Syntax .....	69
Request Parameters .....	69
Response Syntax .....	69
Response Elements .....	70
Errors .....	70
Examples .....	71
See Also .....	72
GetAssessmentReport .....	74
Request Syntax .....	74
Request Parameters .....	74
Response Syntax .....	75
Response Elements .....	75
Errors .....	75
See Also .....	76
GetExclusionsPreview .....	78
Request Syntax .....	78
Request Parameters .....	78
Response Syntax .....	79
Response Elements .....	80
Errors .....	81
See Also .....	81
GetTelemetryMetadata .....	83
Request Syntax .....	83
Request Parameters .....	83
Response Syntax .....	83
Response Elements .....	83

Errors .....	84
Examples .....	84
See Also .....	89
ListAssessmentRunAgents .....	90
Request Syntax .....	90
Request Parameters .....	90
Response Syntax .....	91
Response Elements .....	92
Errors .....	92
Examples .....	93
See Also .....	97
ListAssessmentRuns .....	99
Request Syntax .....	99
Request Parameters .....	99
Response Syntax .....	101
Response Elements .....	101
Errors .....	101
Examples .....	102
See Also .....	103
ListAssessmentTargets .....	104
Request Syntax .....	104
Request Parameters .....	104
Response Syntax .....	105
Response Elements .....	105
Errors .....	106
Examples .....	106
See Also .....	107
ListAssessmentTemplates .....	108
Request Syntax .....	108
Request Parameters .....	108
Response Syntax .....	109
Response Elements .....	109
Errors .....	110
Examples .....	111
See Also .....	112
ListEventSubscriptions .....	113

---

Request Syntax .....	113
Request Parameters .....	113
Response Syntax .....	114
Response Elements .....	114
Errors .....	115
Examples .....	115
See Also .....	117
ListExclusions .....	118
Request Syntax .....	118
Request Parameters .....	118
Response Syntax .....	119
Response Elements .....	119
Errors .....	119
See Also .....	120
ListFindings .....	121
Request Syntax .....	121
Request Parameters .....	121
Response Syntax .....	123
Response Elements .....	123
Errors .....	123
Examples .....	124
See Also .....	125
ListRulesPackages .....	126
Request Syntax .....	126
Request Parameters .....	126
Response Syntax .....	126
Response Elements .....	127
Errors .....	127
Examples .....	128
See Also .....	129
ListTagsForResource .....	130
Request Syntax .....	130
Request Parameters .....	130
Response Syntax .....	130
Response Elements .....	130
Errors .....	131



Examples .....	131
See Also .....	132
PreviewAgents .....	134
Request Syntax .....	134
Request Parameters .....	134
Response Syntax .....	135
Response Elements .....	135
Errors .....	136
Examples .....	136
See Also .....	138
RegisterCrossAccountAccessRole .....	139
Request Syntax .....	139
Request Parameters .....	139
Response Elements .....	139
Errors .....	139
Examples .....	140
See Also .....	141
RemoveAttributesFromFindings .....	142
Request Syntax .....	142
Request Parameters .....	142
Response Syntax .....	143
Response Elements .....	143
Errors .....	143
Examples .....	144
See Also .....	145
SetTagsForResource .....	146
Request Syntax .....	146
Request Parameters .....	146
Response Elements .....	147
Errors .....	147
Examples .....	147
See Also .....	148
StartAssessmentRun .....	150
Request Syntax .....	150
Request Parameters .....	150
Response Syntax .....	151

Response Elements .....	151
Errors .....	151
Examples .....	152
See Also .....	153
StopAssessmentRun .....	155
Request Syntax .....	155
Request Parameters .....	155
Response Elements .....	155
Errors .....	156
Examples .....	156
See Also .....	157
SubscribeToEvent .....	159
Request Syntax .....	159
Request Parameters .....	159
Response Elements .....	160
Errors .....	160
Examples .....	161
See Also .....	162
UnsubscribeFromEvent .....	163
Request Syntax .....	163
Request Parameters .....	163
Response Elements .....	164
Errors .....	164
Examples .....	165
See Also .....	166
UpdateAssessmentTarget .....	167
Request Syntax .....	167
Request Parameters .....	167
Response Elements .....	168
Errors .....	168
Examples .....	169
See Also .....	170
<b>Data Types .....</b>	<b>171</b>
AgentAlreadyRunningAssessment .....	173
Contents .....	173
See Also .....	173

AgentFilter .....	174
Contents .....	174
See Also .....	174
AgentPreview .....	175
Contents .....	175
See Also .....	176
AssessmentRun .....	178
Contents .....	178
See Also .....	181
AssessmentRunAgent .....	182
Contents .....	182
See Also .....	183
AssessmentRunFilter .....	184
Contents .....	184
See Also .....	186
AssessmentRunNotification .....	187
Contents .....	187
See Also .....	188
AssessmentRunStateChange .....	189
Contents .....	189
See Also .....	189
AssessmentTarget .....	190
Contents .....	190
See Also .....	191
AssessmentTargetFilter .....	192
Contents .....	192
See Also .....	192
AssessmentTemplate .....	193
Contents .....	193
See Also .....	195
AssessmentTemplateFilter .....	196
Contents .....	196
See Also .....	197
AssetAttributes .....	198
Contents .....	198
See Also .....	199

Attribute .....	201
Contents .....	201
See Also .....	201
DurationRange .....	202
Contents .....	202
See Also .....	202
EventSubscription .....	203
Contents .....	203
See Also .....	203
Exclusion .....	204
Contents .....	204
See Also .....	205
ExclusionPreview .....	206
Contents .....	206
See Also .....	207
FailedItemDetails .....	208
Contents .....	208
See Also .....	208
Finding .....	209
Contents .....	209
See Also .....	212
FindingFilter .....	213
Contents .....	213
See Also .....	215
InspectorServiceAttributes .....	216
Contents .....	216
See Also .....	216
NetworkInterface .....	218
Contents .....	218
See Also .....	220
Privatelp .....	221
Contents .....	221
See Also .....	221
ResourceGroup .....	222
Contents .....	222
See Also .....	222

ResourceGroupTag .....	224
Contents .....	224
See Also .....	224
RulesPackage .....	225
Contents .....	225
See Also .....	226
Scope .....	227
Contents .....	227
See Also .....	227
SecurityGroup .....	228
Contents .....	228
See Also .....	228
Subscription .....	229
Contents .....	229
See Also .....	229
Tag .....	231
Contents .....	231
See Also .....	231
TelemetryMetadata .....	232
Contents .....	232
See Also .....	232
TimestampRange .....	234
Contents .....	234
See Also .....	234
<b>Common Parameters .....</b>	<b>235</b>
<b>Common Errors .....</b>	<b>238</b>

# Welcome

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

This document was last published on July 2, 2024.

# Actions

The following actions are supported:

- [AddAttributesToFindings](#)
- [CreateAssessmentTarget](#)
- [CreateAssessmentTemplate](#)
- [CreateExclusionsPreview](#)
- [CreateResourceGroup](#)
- [DeleteAssessmentRun](#)
- [DeleteAssessmentTarget](#)
- [DeleteAssessmentTemplate](#)
- [DescribeAssessmentRuns](#)
- [DescribeAssessmentTargets](#)
- [DescribeAssessmentTemplates](#)
- [DescribeCrossAccountAccessRole](#)
- [DescribeExclusions](#)
- [DescribeFindings](#)
- [DescribeResourceGroups](#)
- [DescribeRulesPackages](#)
- [GetAssessmentReport](#)
- [GetExclusionsPreview](#)
- [GetTelemetryMetadata](#)
- [ListAssessmentRunAgents](#)
- [ListAssessmentRuns](#)
- [ListAssessmentTargets](#)
- [ListAssessmentTemplates](#)
- [ListEventSubscriptions](#)
- [ListExclusions](#)
- [ListFindings](#)
- [ListRulesPackages](#)

- [ListTagsForResource](#)
- [PreviewAgents](#)
- [RegisterCrossAccountAccessRole](#)
- [RemoveAttributesFromFindings](#)
- [SetTagsForResource](#)
- [StartAssessmentRun](#)
- [StopAssessmentRun](#)
- [SubscribeToEvent](#)
- [UnsubscribeFromEvent](#)
- [UpdateAssessmentTarget](#)



# AddAttributesToFindings

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### [attributes](#)

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

Type: Array of [Attribute](#) objects

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

Required: Yes

### [findingArns](#)

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

Type: Array of strings

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

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

Required: Yes

## Response Syntax

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

## Response Elements

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

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

### failedItems

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

Type: String to [FailedItemDetails](#) object map

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

## Errors

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

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidInputException

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

HTTP Status Code: 400

### NoSuchEntityException

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

HTTP Status Code: 400

### ServiceTemporarilyUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of `AddAttributesToFindings`.

### Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 189
X-Amz-Target: InspectorService.AddAttributesToFindings
X-Amz-Date: 20160329T233810Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "attributes": [
    {
      "key": "Example",
      "value": "example"
    }
  ],
  "findingArns": [
    "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-811VIE0D/run/0-Z02cjjug/finding/0-T8yM9mEU"
```

```
]
}
```

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateAssessmentTarget

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### [assessmentTargetName](#)

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](#)

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

Type: String

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

Required: No

## Response Syntax

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

## Response Elements

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

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

### assessmentTargetArn

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](#).

### **InternalException**

Internal server error.

HTTP Status Code: 500

### **InvalidCrossAccountRoleException**

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

HTTP Status Code: 400

## InvalidInputException

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

HTTP Status Code: 400

## LimitExceededException

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

HTTP Status Code: 400

## NoSuchEntityException

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

HTTP Status Code: 400

## ServiceTemporarilyUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of `CreateAssessmentTarget`.

### Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 129
X-Amz-Target: InspectorService.CreateAssessmentTarget
X-Amz-Date: 20160331T174054Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 boto3/1.4.3
```

```
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "assessmentTargetName": "ExampleAssessmentTarget",
  "resourceGroupArn": "arn:aws:inspector:us-
west-2:123456789012:resourcegroup/0-AB6DMKnv"
}
```

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)



- [AWS SDK for Ruby V3](#)

# CreateAssessmentTemplate

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### [assessmentTargetArn](#)

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

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

The duration of the assessment run in seconds.

Type: Integer

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

Required: Yes

## rulesPackageArns

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

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

Type: Array of [Attribute](#) objects

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

Required: No

## Response Syntax

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

## Response Elements

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

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

### assessmentTemplateArn

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](#).

### **InternalException**

Internal server error.

HTTP Status Code: 500

### **InvalidInputException**

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

HTTP Status Code: 400

### **LimitExceededException**

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

HTTP Status Code: 400

### NoSuchEntityException

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

HTTP Status Code: 400

### ServiceTemporarilyUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of `CreateAssessmentTemplate`.

### Sample Request

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

```
    ],
    "durationInSeconds": 180,
    "rulesPackageArns": [
      "arn:aws:inspector:us-
west-2:758058086616:rulespackage/0-11B9DBXp"
    ]
  }
}
```

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# CreateExclusionsPreview

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### [assessmentTemplateArn](#)

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

Type: String

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

Required: Yes

## Response Syntax

```
{
  "previewToken": "string"
}
```

## Response Elements

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

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



## **previewToken**

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

Type: String

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

## **Errors**

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

### **InternalException**

Internal server error.

HTTP Status Code: 500

### **InvalidInputException**

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

HTTP Status Code: 400

### **NoSuchEntityException**

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

HTTP Status Code: 400

### **PreviewGenerationInProgressException**

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

HTTP Status Code: 400

### **ServiceTemporarilyUnavailableException**

The service is temporarily unavailable.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateResourceGroup

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### [resourceGroupTags](#)

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](#) objects

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

Required: Yes

## Response Syntax

```
{
```

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

## Response Elements

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

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

### resourceGroupArn

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](#).

### **InternalException**

Internal server error.

HTTP Status Code: 500

### **InvalidInputException**

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

HTTP Status Code: 400

### **LimitExceededException**

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

HTTP Status Code: 400

### **ServiceTemporarilyUnavailableException**

The service is temporarily unavailable.

## HTTP Status Code: 400

# Examples

## Example

This example illustrates one usage of `CreateResourceGroup`.

### Sample Request

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

### Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 8416dfb4-f764-11e5-872a-fde3682789d5
Content-Type: application/x-amz-json-1.1
Content-Length: 88
Date: Thu, 31 Mar 2016 17:17:58 GMT
{
```

```
    "resourceGroupArn": "arn:aws:inspector:us-  
west-2:123456789012:resourcegroup/0-AB6DMKnv"  
  }
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteAssessmentRun

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### assessmentRunArn

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](#).

### AssessmentRunInProgressException

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

HTTP Status Code: 400

## InternalException

Internal server error.

HTTP Status Code: 500

## InvalidInputException

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

HTTP Status Code: 400

## NoSuchEntityException

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

HTTP Status Code: 400

## ServiceTemporarilyUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of `DeleteAssessmentRun`.

### Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 117
X-Amz-Target: InspectorService.DeleteAssessmentRun
X-Amz-Date: 20160331T183810Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
```



```
Authorization: AUTHPARAMS
{
  "assessmentRunArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-nvgVhaxX/template/0-it5r2S4T/run/0-11LMTAVe"
}
```

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteAssessmentTarget

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### assessmentTargetArn

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](#).

### **AssessmentRunInProgressException**

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

HTTP Status Code: 400

## InternalException

Internal server error.

HTTP Status Code: 500

## InvalidInputException

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

HTTP Status Code: 400

## NoSuchEntityException

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

HTTP Status Code: 400

## ServiceTemporarilyUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of `DeleteAssessmentTarget`.

### Sample Request

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

```
Authorization: AUTHPARAMS
{
  "assessmentTargetArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-0kFIPusq"
}
```

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteAssessmentTemplate

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### assessmentTemplateArn

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](#).

### **AssessmentRunInProgressException**

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

HTTP Status Code: 400

## InternalException

Internal server error.

HTTP Status Code: 500

## InvalidInputException

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

HTTP Status Code: 400

## NoSuchEntityException

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

HTTP Status Code: 400

## ServiceTemporarilyUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of `DeleteAssessmentTemplate`.

### Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 107
X-Amz-Target: InspectorService.DeleteAssessmentTemplate
X-Amz-Date: 20160331T184505Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
```

```
Authorization: AUTHPARAMS
{
  "assessmentTemplateArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-nvgVhaxX/template/0-it5r2S4T"
}
```

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeAssessmentRuns

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### [assessmentRunArns](#)

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

Type: Array of strings

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

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

Required: Yes

## Response Syntax

```
{
  "assessmentRuns": [
    {
      "arn": "string",
      "assessmentTemplateArn": "string",
      "completedAt": number,
      "createdAt": number,
      "dataCollected": boolean,
      "durationInSeconds": number,
      "findingCounts": {
        "string": number
      }
    }
  ]
}
```



```
    },
    "name": "string",
    "notifications": [
      {
        "date": number,
        "error": boolean,
        "event": "string",
        "message": "string",
        "snsPublishStatusCode": "string",
        "snsTopicArn": "string"
      }
    ],
    "rulesPackageArns": [ "string" ],
    "startedAt": number,
    "state": "string",
    "stateChangedAt": number,
    "stateChanges": [
      {
        "state": "string",
        "stateChangedAt": number
      }
    ],
    "userAttributesForFindings": [
      {
        "key": "string",
        "value": "string"
      }
    ]
  }
],
"failedItems": {
  "string" : {
    "failureCode": "string",
    "retryable": boolean
  }
}
}
```

## Response Elements

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

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

## assessmentRuns

Information about the assessment run.

Type: Array of [AssessmentRun](#) objects

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

## failedItems

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

Type: String to [FailedItemDetails](#) object map

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

## Errors

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

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidInputException

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

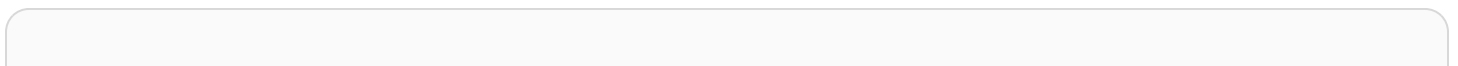
HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of DescribeAssessmentRuns.

### Sample Request



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

## Sample Response

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

```
    ],
    "startedAt": 1458680170.161,
    "state": "COMPLETED",
    "stateChangedAt": 1458680301.4,
    "stateChanges": [
      {
        "state": "CREATED",
        "stateChangedAt": 1458680170.035
      },
      {
        "state": "START_DATA_COLLECTION_PENDING",
        "stateChangedAt": 1458680170.065
      },
      {
        "state": "START_DATA_COLLECTION_IN_PROGRESS",
        "stateChangedAt": 1458680170.096
      },
      {
        "state": "COLLECTING_DATA",
        "stateChangedAt": 1458680170.161
      },
      {
        "state": "STOP_DATA_COLLECTION_PENDING",
        "stateChangedAt": 1458680239.883
      },
      {
        "state": "DATA_COLLECTED",
        "stateChangedAt": 1458680299.847
      },
      {
        "state": "EVALUATING_RULES",
        "stateChangedAt": 1458680300.099
      },
      {
        "state": "COMPLETED",
        "stateChangedAt": 1458680301.4
      }
    ],
    "userAttributesForFindings": []
  }
],
"failedItems": {}
}
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeAssessmentTargets

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### assessmentTargetArns

The ARNs that specifies the assessment targets that you want to describe.

Type: Array of strings

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

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

Required: Yes

## Response Syntax

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

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

## Response Elements

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

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

### assessmentTargets

Information about the assessment targets.

Type: Array of [AssessmentTarget](#) objects

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

### failedItems

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

Type: String to [FailedItemDetails](#) object map

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

## Errors

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

### **InternalException**

Internal server error.

HTTP Status Code: 500

### **InvalidInputException**

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

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of DescribeAssessmentTargets.

### Sample Request

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

### Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 407ddf01-f140-11e5-823c-bd257ba1495d
Content-Type: application/x-amz-json-1.1
Content-Length: 287
Date: Wed, 23 Mar 2016 21:43:16 GMT
{
  "assessmentTargets": [
    {
```



```
        "arn": "arn:aws:inspector:us-  
west-2:123456789012:target/0-0kFIPusq",  
        "createdAt": 1458074191.459,  
        "name": "ExampleAssessmentTarget",  
        "resourceGroupArn": "arn:aws:inspector:us-  
west-2:123456789012:resourcegroup/0-PyGXopAI",  
        "updatedAt": 1458074191.459  
    }  
],  
    "failedItems": {}  
}
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeAssessmentTemplates

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### [assessmentTemplateArns](#)

Type: Array of strings

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

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

Required: Yes

## Response Syntax

```
{
  "assessmentTemplates": [
    {
      "arn": string,
      "assessmentRunCount": number,
      "assessmentTargetArn": string,
      "createdAt": number,
      "durationInSeconds": number,
      "lastAssessmentRunArn": string,
      "name": string,
      "rulesPackageArns": [ string ],
      "userAttributesForFindings": [
        {
```

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

## Response Elements

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

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

### [assessmentTemplates](#)

Information about the assessment templates.

Type: Array of [AssessmentTemplate](#) objects

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

### [failedItems](#)

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

Type: String to [FailedItemDetails](#) object map

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

## Errors

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

### InternalException

Internal server error.

HTTP Status Code: 500

## InvalidInputException

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

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of DescribeAssessmentTemplates.

### Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 110
X-Amz-Target: InspectorService.DescribeAssessmentTemplates
X-Amz-Date: 20160323T214822Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "assessmentTemplateArns": [
    "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-4r1V2mAw"
  ]
}
```

### Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: f73a449b-f140-11e5-b473-ed8493878c40
```

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# DescribeCrossAccountAccessRole

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

## Response Syntax

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

## Response Elements

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

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

### registeredAt

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

Type: Timestamp

### roleArn

The ARN that specifies the IAM role that Amazon Inspector Classic uses to access your AWS account.

Type: String

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

### valid

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

Type: Boolean

## Errors

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

## InternalException

Internal server error.

HTTP Status Code: 500

## Examples

### Example

This example illustrates one usage of DescribeCrossAccountAccessRole.

### Sample Request

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

### Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: aef491a7-f141-11e5-bf1e-bbcaff8bf2e
Content-Type: application/x-amz-json-1.1
Content-Length: 99
Date: Wed, 23 Mar 2016 21:53:32 GMT
{
  "registeredAt": 1458069182.826,
  "roleArn": "arn:aws:iam::123456789012:role/inspector",
  "valid": true
}
```



```
}
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeExclusions

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### exclusionArns

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

Type: Array of strings

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

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

Required: Yes

### locale

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

Type: String

Valid Values: EN\_US

Required: No

## Response Syntax

```
{
```

```
"exclusions": {
  "string" : {
    "arn": "string",
    "attributes": [
      {
        "key": "string",
        "value": "string"
      }
    ],
    "description": "string",
    "recommendation": "string",
    "scopes": [
      {
        "key": "string",
        "value": "string"
      }
    ],
    "title": "string"
  }
},
"failedItems": {
  "string" : {
    "failureCode": "string",
    "retryable": boolean
  }
}
}
```

## Response Elements

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

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

### [exclusions](#)

Information about the exclusions.

Type: String to [Exclusion](#) object map

Map Entries: Maximum number of 100 items.

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

## **failedItems**

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

Type: String to [FailedItemDetails](#) object map

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

## **Errors**

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

### **InternalException**

Internal server error.

HTTP Status Code: 500

### **InvalidInputException**

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

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# DescribeFindings

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### findingArns

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

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

Type: String

Valid Values: EN\_US

Required: No

## Response Syntax

```
{
```

```
"failedItems": {
  "string" : {
    "failureCode": "string",
    "retryable": boolean
  }
},
"findings": [
  {
    "arn": "string",
    "assetAttributes": {
      "agentId": "string",
      "amiId": "string",
      "autoScalingGroup": "string",
      "hostname": "string",
      "ipv4Addresses": [ "string" ],
      "networkInterfaces": [
        {
          "ipv6Addresses": [ "string" ],
          "networkInterfaceId": "string",
          "privateDnsName": "string",
          "privateIpAddress": "string",
          "privateIpAddresses": [
            {
              "privateDnsName": "string",
              "privateIpAddress": "string"
            }
          ],
          "publicDnsName": "string",
          "publicIp": "string",
          "securityGroups": [
            {
              "groupId": "string",
              "groupName": "string"
            }
          ],
          "subnetId": "string",
          "vpcId": "string"
        }
      ],
    "schemaVersion": number,
    "tags": [
      {
        "key": "string",
        "value": "string"
      }
    ]
  }
]
```

```

    }
  ]
},
"assetType": "string",
"attributes": [
  {
    "key": "string",
    "value": "string"
  }
],
"confidence": number,
"createdAt": number,
"description": "string",
"id": "string",
"indicatorOfCompromise": boolean,
"numericSeverity": number,
"recommendation": "string",
"schemaVersion": number,
"service": "string",
"serviceAttributes": {
  "assessmentRunArn": "string",
  "rulesPackageArn": "string",
  "schemaVersion": number
},
"severity": "string",
"title": "string",
"updatedAt": number,
"userAttributes": [
  {
    "key": "string",
    "value": "string"
  }
]
}
]
}

```

## Response Elements

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

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



## failedItems

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

Type: String to [FailedItemDetails](#) object map

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

## findings

Information about the finding.

Type: Array of [Finding](#) objects

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

## Errors

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

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidInputException

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

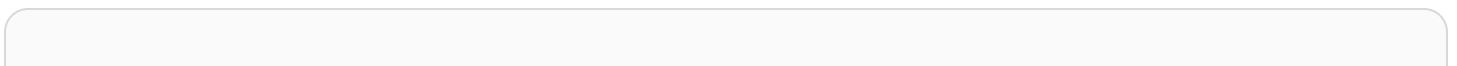
HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of DescribeFindings.

### Sample Request



```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 133
X-Amz-Target: InspectorService.DescribeFindings
X-Amz-Date: 20160323T215809Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "findingArns": [
    "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-4r1V2mAw/run/0-MKkpXXPE/finding/0-HwPnsDm4"
  ]
}
```

## Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 555dbc27-f142-11e5-9dc2-6746fe4b2002
Content-Type: application/x-amz-json-1.1
Content-Length: 892
Date: Wed, 23 Mar 2016 21:58:10 GMT
{
  "failedItems": {},
  "findings": [
    {
      "arn": "arn:aws:inspector:us-
west-2:123456789012:target/0-0kFIPusq/template/0-4r1V2mAw/run/0-MKkpXXPE/finding/0-
HwPnsDm4",
      "assetAttributes": {
        "agentId": "i-092e1184e67721f24",
        "amiId": "ami-0ad99772",
        "autoScalingGroup": "auto scaling group",
        "hostname": "ec2-54-202-242-173.us-
west-2.compute.amazonaws.com",
        "ipv4Addresses": [],
        "networkInterfaces": [
```

```
        {
            "ipv6Addresses": [],
            "networkInterfaceId": "eni-09b5ad02",
            "privateDnsName": "ip-172-31-36-75.us-
west-2.compute.internal",
            "privateIpAddress": "172.31.36.75",
            "privateIpAddresses": [
                {
                    "privateDnsName": "ip-172-31-36-75.us-
west-2.compute.internal",
                    "privateIpAddress": "172.31.36.75"
                }
            ],
            "publicDnsName": "ec2-54-202-242-173.us-
west-2.compute.amazonaws.com",
            "publicIp": "54.202.242.173",
            "securityGroups": [
                {
                    "groupId": "sg-48578931",
                    "groupName": "default"
                }
            ],
            "subnetId": "subnet-8aeebbfc",
            "vpcId": "vpc-05515b61"
        }
    ],
    "schemaVersion": 1,
    "tags": [
        {
            "key": "scaling",
            "value": "yes"
        },
        {
            "key": "aws:autoscaling:groupName",
            "value": "auto scaling group"
        },
        {
            "key": "Name",
            "value": "beta_amazon_linux_201803_scaling"
        },
        {
            "key": "beta",
            "value": "true"
        }
    ]
}
```

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# DescribeResourceGroups

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### resourceGroupArns

The ARN that specifies the resource group that you want to describe.

Type: Array of strings

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

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

Required: Yes

## Response Syntax

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

```
    "createdAt": number,
    "tags": [
      {
        "key": "string",
        "value": "string"
      }
    ]
  }
]
```

## Response Elements

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

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

### failedItems

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

Type: String to [FailedItemDetails](#) object map

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

### resourceGroups

Information about a resource group.

Type: Array of [ResourceGroup](#) 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](#).

### InternalException

Internal server error.

HTTP Status Code: 500

## InvalidInputException

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

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of DescribeResourceGroups.

### Sample Request

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

### Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 4636d6a9-f143-11e5-9f03-eb6e194efa59
Content-Type: application/x-amz-json-1.1
Content-Length: 191
```



```
Date: Wed, 23 Mar 2016 22:04:54 GMT
{
  "failedItems": {},
  "resourceGroups": [
    {
      "arn": "arn:aws:inspector:us-west-2:123456789012:resourcegroup/0-
PyGXopAI",
      "createdAt": 1458074191.098,
      "tags": [
        {
          "key": "Name",
          "value": "example"
        }
      ]
    }
  ]
}
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DescribeRulesPackages

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### locale

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

Type: String

Valid Values: EN\_US

Required: No

### rulesPackageArns

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

Type: Array of strings

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

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

Required: Yes

## Response Syntax

```
{
```

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

## Response Elements

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

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

### failedItems

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

Type: String to [FailedItemDetails](#) object map

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

### rulesPackages

Information about the rules package.

Type: Array of [RulesPackage](#) 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](#).

## InternalException

Internal server error.

HTTP Status Code: 500

## InvalidInputException

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

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of DescribeRulesPackages.

### Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 90
X-Amz-Target: InspectorService.DescribeRulesPackages
X-Amz-Date: 20160323T220919Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "rulesPackageArns": [
    "arn:aws:inspector:us-west-2:758058086616:rulespackage/0-9hgA516p"
  ]
}
```

### Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetAssessmentReport

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### [assessmentRunArn](#)

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

Type: String

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

Required: Yes

### [reportFileFormat](#)

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

Type: String

Valid Values: HTML | PDF

Required: Yes

### [reportType](#)

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

Type: String

Valid Values: FINDING | FULL

Required: Yes

## Response Syntax

```
{
  "status": "string",
  "url": "string"
}
```

## Response Elements

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

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

### status

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

Type: String

Valid Values: WORK\_IN\_PROGRESS | FAILED | COMPLETED

### url

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

Type: String

Length Constraints: Maximum length of 2048.

## Errors

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



## AssessmentRunInProgressException

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

HTTP Status Code: 400

## InternalException

Internal server error.

HTTP Status Code: 500

## InvalidInputException

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

HTTP Status Code: 400

## NoSuchEntityException

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

HTTP Status Code: 400

## ServiceTemporarilyUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 400

## UnsupportedFeatureException

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

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetExclusionsPreview

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### assessmentTemplateArn

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

Type: String

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

Required: Yes

### locale

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

Type: String

Valid Values: EN\_US

Required: No

## maxResults

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

Type: Integer

Required: No

## nextToken

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

Type: String

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

Required: No

## previewToken

The unique identifier associated of the exclusions preview.

Type: String

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

Required: Yes

## Response Syntax

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

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

## Response Elements

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

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

### exclusionPreviews

Information about the exclusions included in the preview.

Type: Array of [ExclusionPreview](#) objects

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

### nextToken

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.

### previewStatus

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

Type: String

Valid Values: WORK\_IN\_PROGRESS | COMPLETED

## Errors

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

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidInputException

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

HTTP Status Code: 400

### NoSuchEntityException

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

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# GetTelemetryMetadata

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### assessmentRunArn

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

Type: String

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

Required: Yes

## Response Syntax

```
{  
  "telemetryMetadata": [  
    {  
      "count": number,  
      "dataSize": number,  
      "messageType": "string"  
    }  
  ]  
}
```

## Response Elements

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



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

### telemetryMetadata

Telemetry details.

Type: Array of [TelemetryMetadata](#) 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](#).

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidInputException

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

HTTP Status Code: 400

### NoSuchEntityException

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

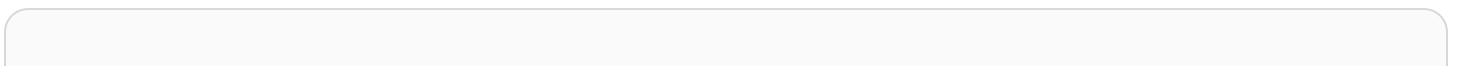
HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of GetTelemetryMetadata.

### Sample Request



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

## Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 03ffa82f-f5ff-11e5-9cf9-9fd5e2aef2f6
Content-Type: application/x-amz-json-1.1
Content-Length: 1990
Date: Tue, 29 Mar 2016 22:38:53 GMT
{
  "telemetryMetadata": [
    {
      "count": 2,
      "dataSize": 345,
      "messageType": "InspectorDuplicateProcess"
    },
    {
      "count": 3,
      "dataSize": 255,
      "messageType": "InspectorTimeEventMsg"
    },
    {
      "count": 4,
      "dataSize": 1082,
      "messageType": "InspectorNetworkInterface"
    },
  ],
}
```

```
{
  "count": 2,
  "dataSize": 349,
  "messageType": "InspectorDnsEntry"
},
{
  "count": 11,
  "dataSize": 2514,
  "messageType": "InspectorDirectoryInfoMsg"
},
{
  "count": 1,
  "dataSize": 179,
  "messageType": "InspectorTcpV6ListeningPort"
},
{
  "count": 101,
  "dataSize": 10949,
  "messageType": "InspectorTerminal"
},
{
  "count": 26,
  "dataSize": 5916,
  "messageType": "InspectorUser"
},
{
  "count": 282,
  "dataSize": 32148,
  "messageType": "InspectorDynamicallyLoadedCodeModule"
},
{
  "count": 18,
  "dataSize": 10172,
  "messageType": "InspectorCreateProcess"
},
{
  "count": 3,
  "dataSize": 8001,
  "messageType": "InspectorProcessPerformance"
},
{
  "count": 1,
  "dataSize": 360,
  "messageType": "InspectorOperatingSystem"
}
```

```
    },
    {
      "count": 6,
      "dataSize": 546,
      "messageType": "InspectorStopProcess"
    },
    {
      "count": 1,
      "dataSize": 1553,
      "messageType": "InspectorInstanceMetaData"
    },
    {
      "count": 2,
      "dataSize": 434,
      "messageType": "InspectorTcpV4Connection"
    },
    {
      "count": 474,
      "dataSize": 2960322,
      "messageType": "InspectorPackageInfo"
    },
    {
      "count": 3,
      "dataSize": 2235,
      "messageType": "InspectorSystemPerformance"
    },
    {
      "count": 105,
      "dataSize": 46048,
      "messageType": "InspectorCodeModule"
    },
    {
      "count": 1,
      "dataSize": 182,
      "messageType": "InspectorUdpV6ListeningPort"
    },
    {
      "count": 2,
      "dataSize": 371,
      "messageType": "InspectorUdpV4ListeningPort"
    },
    {
      "count": 18,
      "dataSize": 8362,
```

```
    "messageType": "InspectorKernelModule"
  },
  {
    "count": 29,
    "dataSize": 48788,
    "messageType": "InspectorConfigurationInfo"
  },
  {
    "count": 1,
    "dataSize": 79,
    "messageType": "InspectorMonitoringStart"
  },
  {
    "count": 5,
    "dataSize": 0,
    "messageType": "InspectorSplitMsgBegin"
  },
  {
    "count": 51,
    "dataSize": 4593,
    "messageType": "InspectorGroup"
  },
  {
    "count": 1,
    "dataSize": 184,
    "messageType": "InspectorTcpV4ListeningPort"
  },
  {
    "count": 1159,
    "dataSize": 3146579,
    "messageType": "Total"
  },
  {
    "count": 5,
    "dataSize": 0,
    "messageType": "InspectorSplitMsgEnd"
  },
  {
    "count": 1,
    "dataSize": 612,
    "messageType": "InspectorLoadImageInProgress"
  }
]
}
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAssessmentRunAgents

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### [assessmentRunArn](#)

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](#)

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](#) object

Required: No

## maxResults

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

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

Type: String

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

Required: No

## Response Syntax

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



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

## Response Elements

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

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

### assessmentRunAgents

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

Type: Array of [AssessmentRunAgent](#) objects

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

### nextToken

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](#).

### **InternalException**

Internal server error.

HTTP Status Code: 500

### **InvalidInputException**

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

HTTP Status Code: 400

## NoSuchEntityException

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

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of ListAssessmentRunAgents.

### Sample Request

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

### Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 3b752481-f13d-11e5-9f2a-87dc3189b81c
Content-Type: application/x-amz-json-1.1
Content-Length: 2206
Date: Wed, 23 Mar 2016 21:21:39 GMT
```

```
{
  "assessmentRunAgents": [
    {
      "agentHealth": "HEALTHY",
      "agentHealthCode": "HEALTHY",
      "agentId": "i-49113b93",
      "assessmentRunArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-0kFIPusq/template/0-4r1V2mAw/run/0-MKkpXXPE",
      "telemetryMetadata": [
        {
          "count": 2,
          "dataSize": 345,
          "messageType": "InspectorDuplicateProcess"
        },
        {
          "count": 3,
          "dataSize": 255,
          "messageType": "InspectorTimeEventMsg"
        },
        {
          "count": 4,
          "dataSize": 1082,
          "messageType": "InspectorNetworkInterface"
        },
        {
          "count": 2,
          "dataSize": 349,
          "messageType": "InspectorDnsEntry"
        },
        {
          "count": 11,
          "dataSize": 2514,
          "messageType": "InspectorDirectoryInfoMsg"
        },
        {
          "count": 1,
          "dataSize": 179,
          "messageType": "InspectorTcpV6ListeningPort"
        },
        {
          "count": 101,
          "dataSize": 10949,
          "messageType": "InspectorTerminal"
        }
      ]
    }
  ]
}
```

```
{
  "count": 26,
  "dataSize": 5916,
  "messageType": "InspectorUser"
},
{
  "count": 282,
  "dataSize": 32148,
  "messageType": "InspectorDynamicallyLoadedCodeModule"
},
{
  "count": 18,
  "dataSize": 10172,
  "messageType": "InspectorCreateProcess"
},
{
  "count": 3,
  "dataSize": 8001,
  "messageType": "InspectorProcessPerformance"
},
{
  "count": 1,
  "dataSize": 360,
  "messageType": "InspectorOperatingSystem"
},
{
  "count": 6,
  "dataSize": 546,
  "messageType": "InspectorStopProcess"
},
{
  "count": 1,
  "dataSize": 1553,
  "messageType": "InspectorInstanceMetaData"
},
{
  "count": 2,
  "dataSize": 434,
  "messageType": "InspectorTcpV4Connection"
},
{
  "count": 474,
  "dataSize": 2960322,
  "messageType": "InspectorPackageInfo"
}
```

```
  },
  {
    "count": 3,
    "dataSize": 2235,
    "messageType": "InspectorSystemPerformance"
  },
  {
    "count": 105,
    "dataSize": 46048,
    "messageType": "InspectorCodeModule"
  },
  {
    "count": 1,
    "dataSize": 182,
    "messageType": "InspectorUdpV6ListeningPort"
  },
  {
    "count": 2,
    "dataSize": 371,
    "messageType": "InspectorUdpV4ListeningPort"
  },
  {
    "count": 18,
    "dataSize": 8362,
    "messageType": "InspectorKernelModule"
  },
  {
    "count": 29,
    "dataSize": 48788,
    "messageType": "InspectorConfigurationInfo"
  },
  {
    "count": 1,
    "dataSize": 79,
    "messageType": "InspectorMonitoringStart"
  },
  {
    "count": 5,
    "dataSize": 0,
    "messageType": "InspectorSplitMsgBegin"
  },
  {
    "count": 51,
    "dataSize": 4593,
```

```
        "messageType": "InspectorGroup"
    },
    {
        "count": 1,
        "dataSize": 184,
        "messageType": "InspectorTcpV4ListeningPort"
    },
    {
        "count": 1159,
        "dataSize": 3146579,
        "messageType": "Total"
    },
    {
        "count": 5,
        "dataSize": 0,
        "messageType": "InspectorSplitMsgEnd"
    },
    {
        "count": 1,
        "dataSize": 612,
        "messageType": "InspectorLoadImageInProgress"
    }
]
}
]
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# ListAssessmentRuns

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.



## assessmentTemplateArns

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

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](#) object

Required: No

## maxResults

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

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

Type: String

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

Required: No

## Response Syntax

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

## Response Elements

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

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

### assessmentRunArns

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

Type: Array of strings

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

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

### nextToken

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](#).

### InternalException

Internal server error.

HTTP Status Code: 500

## InvalidInputException

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

HTTP Status Code: 400

## NoSuchEntityException

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

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of ListAssessmentRuns.

### Sample Request

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

### Sample Response

```
HTTP/1.1 200 OK
```

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAssessmentTargets

Lists the ARNs of the assessment targets within this AWS account. For more information about assessment targets, see [Amazon Inspector Classic Assessment Targets](#).

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### filter

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](#) object

Required: No

### maxResults

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

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

Type: String

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

Required: No

## Response Syntax

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

## Response Elements

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

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

### assessmentTargetArns

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

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](#).

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidInputException

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

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of ListAssessmentTargets.

### Sample Request

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

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListAssessmentTemplates

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### [assessmentTargetArns](#)

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](#)

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](#) object

Required: No

### [maxResults](#)

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](#)

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

Type: String

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

Required: No

## Response Syntax

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

## Response Elements

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

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

## assessmentTemplateArns

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

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](#).

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidInputException

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

HTTP Status Code: 400

### NoSuchEntityException

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

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of `ListAssessmentTemplates`.

### Sample Request

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

### Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListEventSubscriptions

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### [maxResults](#)

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](#)

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

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

Type: String

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

Required: No

## Response Syntax

```
{
  "nextToken": "string",
  "subscriptions": [
    {
      "eventSubscriptions": [
        {
          "event": "string",
          "subscribedAt": number
        }
      ],
      "resourceArn": "string",
      "topicArn": "string"
    }
  ]
}
```

## Response Elements

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

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

### nextToken

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

Details of the returned event subscriptions.

Type: Array of [Subscription](#) 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](#).

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidInputException

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

HTTP Status Code: 400

### NoSuchEntityException

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

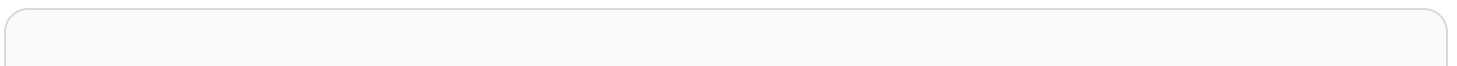
HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of ListEventSubscriptions.

### Sample Request





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

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListExclusions

List exclusions that are generated by the assessment run.

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### [assessmentRunArn](#)

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

Type: String

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

Required: Yes

### [maxResults](#)

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

Type: Integer

Required: No

### [nextToken](#)

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

Type: String

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

Required: No

## Response Syntax

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

## Response Elements

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

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

### exclusionArns

A list of exclusions' ARNs returned by the action.

Type: Array of strings

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

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

### nextToken

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

Type: String

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

## Errors

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

## InternalException

Internal server error.

HTTP Status Code: 500

## InvalidInputException

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

HTTP Status Code: 400

## NoSuchEntityException

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

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListFindings

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

## assessmentRunArns

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

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](#) object

Required: No

## maxResults

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

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

Type: String

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

Required: No

## Response Syntax

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

## Response Elements

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

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

### findingArns

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

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](#).

### InternalException

Internal server error.

HTTP Status Code: 500



## InvalidInputException

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

HTTP Status Code: 400

## NoSuchEntityException

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

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of ListFindings.

### Sample Request

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

### Sample Response

```
HTTP/1.1 200 OK
```

```
x-amzn-RequestId: 2df2e847-f136-11e5-b2c3-cd62ea256ca4
Content-Type: application/x-amz-json-1.1
Content-Length: 247
Date: Wed, 23 Mar 2016 20:31:10 GMT
{
  "findingArns": [
    "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-4r1V2mAw/run/0-MKkpXXPE/finding/0-HwPnsDm4",
    "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-4r1V2mAw/run/0-v5D6fI3v/finding/0-tyvmqBLy"
  ]
}
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListRulesPackages

Lists all available Amazon Inspector Classic rules packages.

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### maxResults

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

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

Type: String

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

Required: No

## Response Syntax

```
{
```

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

## Response Elements

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

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

### nextToken

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

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](#).

### **InternalException**

Internal server error.

HTTP Status Code: 500

### **InvalidInputException**

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

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of ListRulesPackages.

### Sample Request

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

### Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 0e3779a9-f137-11e5-be28-e130082e2a98
Content-Type: application/x-amz-json-1.1
Content-Length: 424
Date: Wed, 23 Mar 2016 20:37:26 GMT
{
  "rulesPackageArns": [
    "arn:aws:inspector:us-
west-2:758058086616:rulespackage/0-9hgA516p",
    "arn:aws:inspector:us-west-2:758058086616:rulespackage/0-
H5hpSawc",
    "arn:aws:inspector:us-west-2:758058086616:rulespackage/0-
JJ0tZiqQ",
```

```
vg5GGHSD"      "arn:aws:inspector:us-west-2:758058086616:rulespackage/0-  
                ]  
                }
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListTagsForResource

Lists all tags associated with an assessment template.

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### resourceArn

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

Type: String

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

Required: Yes

## Response Syntax

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

## Response Elements

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

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

## tags

A collection of key and value pairs.

Type: Array of [Tag](#) 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](#).

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidInputException

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

HTTP Status Code: 400

### NoSuchEntityException

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

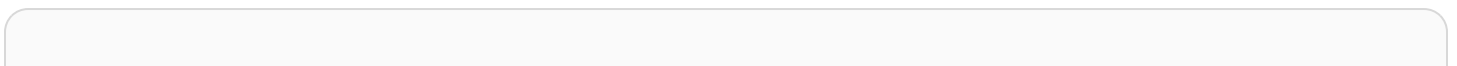
HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of ListTagsForResource.

### Sample Request





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

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# PreviewAgents

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### [maxResults](#)

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](#)

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](#)

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

Type: String

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

Required: Yes

## Response Syntax

```
{
  "agentPreviews": [
    {
      "agentHealth": "string",
      "agentId": "string",
      "agentVersion": "string",
      "autoScalingGroup": "string",
      "hostname": "string",
      "ipv4Address": "string",
      "kernelVersion": "string",
      "operatingSystem": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

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

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

### [agentPreviews](#)

The resulting list of agents.

Type: Array of [AgentPreview](#) objects

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

### [nextToken](#)

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](#).

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidCrossAccountRoleException

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

HTTP Status Code: 400

### InvalidInputException

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

HTTP Status Code: 400

### NoSuchEntityException

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

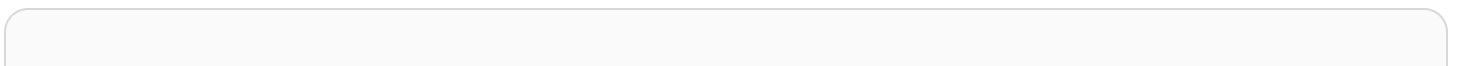
HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of PreviewAgents.

### Sample Request



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

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# RegisterCrossAccountAccessRole

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### roleArn

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

Type: String

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

Required: Yes

## Response Elements

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

## Errors

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

### InternalException

Internal server error.

HTTP Status Code: 500



## InvalidCrossAccountRoleException

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

HTTP Status Code: 400

## InvalidInputException

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

HTTP Status Code: 400

## ServiceTemporarilyUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of RegisterCrossAccountAccessRole.

### Sample Request

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

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

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# RemoveAttributesFromFindings

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### attributeKeys

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

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

Type: Array of strings

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

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

Required: Yes

## Response Syntax

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

## Response Elements

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

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

### failedItems

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

Type: String to [FailedItemDetails](#) object map

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

## Errors

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

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidInputException

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

HTTP Status Code: 400

## NoSuchEntityException

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

HTTP Status Code: 400

## ServiceTemporarilyUnavailableException

The service is temporary unavailable.

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of `RemoveAttributesFromFindings`.

### Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 181
X-Amz-Target: InspectorService.RemoveAttributesFromFindings
X-Amz-Date: 20160329T234159Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "attributeKeys": [
    "key=Example,value=example"
  ],
  "findingArns": [
    "arn:aws:inspector:us-west-2:123456789012:target/0-0kFIPusq/
template/0-811VIE0D/run/0-Z02cjjug/finding/0-T8yM9mEU"
  ]
}
```

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# SetTagsForResource

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

## Request Syntax

```
{
  "resourceArn": "string",
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### [resourceArn](#)

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](#)

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

Type: Array of [Tag](#) 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](#).

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidInputException

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

HTTP Status Code: 400

### NoSuchEntityException

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

HTTP Status Code: 400

### ServiceTemporarilyUnavailableException

The service is temporarily unavailable.

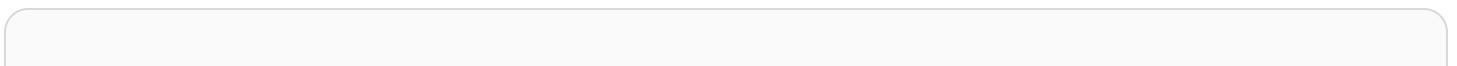
HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of `SetTagsForResource`.

### Sample Request





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

## Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 6a3f5af3-f771-11e5-8599-f1b50afafb5a
Content-Type: application/x-amz-json-1.1
Content-Length: 0
Date: Thu, 31 Mar 2016 18:50:18 GMT
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartAssessmentRun

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### assessmentRunName

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

Type: String

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

Required: No

### assessmentTemplateArn

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

Type: String

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

Required: Yes

## Response Syntax

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

## Response Elements

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

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

### assessmentRunArn

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](#).

### **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 Classic cannot assume the cross-account role that it needs to list your EC2 instances during the assessment run.

HTTP Status Code: 400

## InvalidInputException

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

HTTP Status Code: 400

## LimitExceededException

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

HTTP Status Code: 400

## NoSuchEntityException

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

HTTP Status Code: 400

## ServiceTemporarilyUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of `StartAssessmentRun`.

### Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 142
X-Amz-Target: InspectorService.StartAssessmentRun
X-Amz-Date: 20160331T182519Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 botocore/1.4.3
```

```
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "assessmentRunName": "examplerun",
  "assessmentTemplateArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-nvgVhaxX/template/0-it5r2S4T"
}
```

## Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: ed349455-f76d-11e5-b473-ed8493878c40
Content-Type: application/x-amz-json-1.1
Content-Length: 116
Date: Thu, 31 Mar 2016 18:25:22 GMT
{
  "assessmentRunArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-nvgVhaxX/template/0-it5r2S4T/run/0-j0oroxyY"
}
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# StopAssessmentRun

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### assessmentRunArn

The ARN of the assessment run that you want to stop.

Type: String

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

Required: Yes

### stopAction

An input option that can be set to either START\_EVALUATION or SKIP\_EVALUATION. START\_EVALUATION (the default value), stops the AWS agent from collecting data and begins the results evaluation and the findings generation process. SKIP\_EVALUATION cancels the assessment run immediately, after which no findings are generated.

Type: String

Valid Values: START\_EVALUATION | SKIP\_EVALUATION

Required: No

## Response Elements

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



## Errors

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

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidInputException

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

HTTP Status Code: 400

### NoSuchEntityException

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

HTTP Status Code: 400

### ServiceTemporarilyUnavailableException

The service is temporary unavailable.

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of `StopAssessmentRun`.

### Sample Request

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

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

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# SubscribeToEvent

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### event

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

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

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](#).

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidInputException

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

HTTP Status Code: 400

### LimitExceededException

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

HTTP Status Code: 400

### NoSuchEntityException

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

HTTP Status Code: 400

### ServiceTemporarilyUnavailableException

The service is temporarily unavailable.

## HTTP Status Code: 400

# Examples

## Example

This example illustrates one usage of `SubscribeToEvent`.

### Sample Request

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

### Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UnsubscribeFromEvent

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### event

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

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

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](#).

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidInputException

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

HTTP Status Code: 400

### NoSuchEntityException

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

HTTP Status Code: 400

### ServiceTemporarilyUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of `UnsubscribeFromEvent`.

### Sample Request

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

### Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateAssessmentTarget

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

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

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### [assessmentTargetArn](#)

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](#)

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

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

Type: String

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

Required: No

## Response Elements

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

## Errors

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

### InternalException

Internal server error.

HTTP Status Code: 500

### InvalidInputException

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

HTTP Status Code: 400

### NoSuchEntityException

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

HTTP Status Code: 400

### ServiceTemporarilyUnavailableException

The service is temporarily unavailable.

HTTP Status Code: 400

## Examples

### Example

This example illustrates one usage of UpdateAssessmentTarget.

### Sample Request

```
POST / HTTP/1.1
Host: inspector.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 206
X-Amz-Target: InspectorService.UpdateAssessmentTarget
X-Amz-Date: 20160331T185748Z
User-Agent: aws-cli/1.10.12 Python/2.7.9 Windows/7 boto3/1.4.3
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{
  "assessmentTargetArn": "arn:aws:inspector:us-
west-2:123456789012:target/0-nvgVhaxX",
  "assessmentTargetName": "Example",
  "resourceGroupArn": "arn:aws:inspector:us-
west-2:123456789012:resourcegroup/0-yNbgL5Pt"
}
```

### Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# Data Types

The Amazon Inspector API contains several data types that various actions use. This section describes each data type in detail.

## Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [AgentAlreadyRunningAssessment](#)
- [AgentFilter](#)
- [AgentPreview](#)
- [AssessmentRun](#)
- [AssessmentRunAgent](#)
- [AssessmentRunFilter](#)
- [AssessmentRunNotification](#)
- [AssessmentRunStateChange](#)
- [AssessmentTarget](#)
- [AssessmentTargetFilter](#)
- [AssessmentTemplate](#)
- [AssessmentTemplateFilter](#)
- [AssetAttributes](#)
- [Attribute](#)
- [DurationRange](#)
- [EventSubscription](#)
- [Exclusion](#)
- [ExclusionPreview](#)
- [FailedItemDetails](#)
- [Finding](#)



- [FindingFilter](#)
- [InspectorServiceAttributes](#)
- [NetworkInterface](#)
- [PrivatelP](#)
- [ResourceGroup](#)
- [ResourceGroupTag](#)
- [RulesPackage](#)
- [Scope](#)
- [SecurityGroup](#)
- [Subscription](#)
- [Tag](#)
- [TelemetryMetadata](#)
- [TimestampRange](#)

# AgentAlreadyRunningAssessment

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

## Contents

### agentId

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

Type: String

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

Required: Yes

### assessmentRunArn

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

Type: String

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

Required: Yes

## See Also

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

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

# AgentFilter

Contains information about an Amazon Inspector Classic agent. This data type is used as a request parameter in the [ListAssessmentRunAgents](#) action.

## Contents

### agentHealthCodes

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

Type: Array of strings

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

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

Required: Yes

### agentHealths

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

Type: Array of strings

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

Valid Values: HEALTHY | UNHEALTHY | UNKNOWN

Required: Yes

## See Also

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

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

# AgentPreview

Used as a response element in the [PreviewAgents](#) 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

### **agentHealth**

The health status of the Amazon Inspector Classic Agent.

Type: String

Valid Values: HEALTHY | UNHEALTHY | UNKNOWN

Required: No

### **agentVersion**

The version of the Amazon Inspector Classic Agent.

Type: String

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

Required: No

### **autoScalingGroup**

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

Type: String

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

Required: No

## hostname

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

Type: String

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

Required: No

## ipv4Address

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

Type: String

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

Required: No

## kernelVersion

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

Type: String

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

Required: No

## operatingSystem

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

Type: String

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

Required: No

## See Also

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

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

# AssessmentRun

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

Used as the response element in the [DescribeAssessmentRuns](#) 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

### createdAt

The time when [StartAssessmentRun](#) was called.

Type: Timestamp

Required: Yes

### dataCollected

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

Type: Boolean

Required: Yes

**durationInSeconds**

The duration of the assessment run.

Type: Integer

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

Required: Yes

**findingCounts**

Provides a total count of generated findings per severity.

Type: String to integer map

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

Required: Yes

**name**

The auto-generated name for the assessment run.

Type: String

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

Required: Yes

**notifications**

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

Type: Array of [AssessmentRunNotification](#) 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

### **state**

The state of the assessment run.

Type: String

Valid Values: CREATED | START\_DATA\_COLLECTION\_PENDING | START\_DATA\_COLLECTION\_IN\_PROGRESS | COLLECTING\_DATA | STOP\_DATA\_COLLECTION\_PENDING | DATA\_COLLECTED | START\_EVALUATING\_RULES\_PENDING | EVALUATING\_RULES | FAILED | ERROR | COMPLETED | COMPLETED\_WITH\_ERRORS | CANCELED

Required: Yes

### **stateChangedAt**

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

Type: Timestamp

Required: Yes

### **stateChanges**

A list of the assessment run state changes.

Type: Array of [AssessmentRunStateChange](#) 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](#) objects

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

Required: Yes

### **completedAt**

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

Type: Timestamp

Required: No

### **startedAt**

The time when [StartAssessmentRun](#) was called.

Type: Timestamp

Required: No

## **See Also**

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

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

# AssessmentRunAgent

Contains information about an Amazon Inspector Classic agent. This data type is used as a response element in the [ListAssessmentRunAgents](#) action.

## Contents

### agentHealth

The current health state of the agent.

Type: String

Valid Values: HEALTHY | UNHEALTHY | UNKNOWN

Required: Yes

### agentHealthCode

The detailed health state of the agent.

Type: String

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

Required: Yes

### 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

### **telemetryMetadata**

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

Type: Array of [TelemetryMetadata](#) objects

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

Required: Yes

### **agentHealthDetails**

The description for the agent health code.

Type: String

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

Required: No

### **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

## **See Also**

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

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

# AssessmentRunFilter

Used as the request parameter in the [ListAssessmentRuns](#) 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](#) data type.

Type: [TimestampRange](#) 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](#) data type.

Type: [DurationRange](#) 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](#) 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](#) 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](#) data type.

Type: [TimestampRange](#) 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](#) data type.

Type: [TimestampRange](#) 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](#) data type.

Type: Array of strings

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

Valid Values: CREATED | START\_DATA\_COLLECTION\_PENDING | START\_DATA\_COLLECTION\_IN\_PROGRESS | COLLECTING\_DATA | STOP\_DATA\_COLLECTION\_PENDING | DATA\_COLLECTED | START\_EVALUATING\_RULES\_PENDING | EVALUATING\_RULES | FAILED | ERROR | COMPLETED | COMPLETED\_WITH\_ERRORS | CANCELED

Required: No

## See Also

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

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

# AssessmentRunNotification

Used as one of the elements of the [AssessmentRun](#) data type.

## Contents

### date

The date of the notification.

Type: Timestamp

Required: Yes

### error

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

Type: Boolean

Required: Yes

### event

The event for which a notification is sent.

Type: String

Valid Values: ASSESSMENT\_RUN\_STARTED | ASSESSMENT\_RUN\_COMPLETED | ASSESSMENT\_RUN\_STATE\_CHANGED | FINDING\_REPORTED | OTHER

Required: Yes

### message

The message included in the notification.

Type: String

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

Required: No

### snsPublishStatusCode

The status code of the SNS notification.



Type: String

Valid Values: SUCCESS | TOPIC\_DOES\_NOT\_EXIST | ACCESS\_DENIED | INTERNAL\_ERROR

Required: No

### **snsTopicArn**

The SNS topic to which the SNS notification is sent.

Type: String

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

Required: No

## **See Also**

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

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

# AssessmentRunStateChange

Used as one of the elements of the [AssessmentRun](#) data type.

## Contents

### state

The assessment run state.

Type: String

Valid Values: CREATED | START\_DATA\_COLLECTION\_PENDING | START\_DATA\_COLLECTION\_IN\_PROGRESS | COLLECTING\_DATA | STOP\_DATA\_COLLECTION\_PENDING | DATA\_COLLECTED | START\_EVALUATING\_RULES\_PENDING | EVALUATING\_RULES | FAILED | ERROR | COMPLETED | COMPLETED\_WITH\_ERRORS | CANCELED

Required: Yes

### stateChangedAt

The last time the assessment run state changed.

Type: Timestamp

Required: Yes

## See Also

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

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

# AssessmentTarget

Contains information about an Amazon Inspector Classic application. This data type is used as the response element in the [DescribeAssessmentTargets](#) action.

## Contents

### arn

The ARN that specifies the Amazon Inspector Classic 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 Classic assessment target.

Type: String

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

Required: Yes

### updatedAt

The time at which [UpdateAssessmentTarget](#) is called.

Type: Timestamp

Required: Yes

### resourceGroupArn

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

Type: String

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

Required: No

## See Also

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

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

# AssessmentTargetFilter

Used as the request parameter in the [ListAssessmentTargets](#) 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](#) data type.

Type: String

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

Required: No

## See Also

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

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

# AssessmentTemplate

Contains information about an Amazon Inspector Classic assessment template. This data type is used as the response element in the [DescribeAssessmentTemplates](#) action.

## Contents

### arn

The ARN of the assessment template.

Type: String

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

Required: Yes

### assessmentRunCount

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

Type: Integer

Required: Yes

### assessmentTargetArn

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

Type: String

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

Required: Yes

### createdAt

The time at which the assessment template is created.

Type: Timestamp

Required: Yes

## **durationInSeconds**

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

Type: Integer

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

Required: Yes

## **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](#) objects

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

Required: Yes

## **lastAssessmentRunArn**

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

Type: String

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

Required: No

## **See Also**

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

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



# AssessmentTemplateFilter

Used as the request parameter in the [ListAssessmentTemplates](#) 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](#) data type.

Type: [DurationRange](#) 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](#) 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](#) data type.

Type: Array of strings

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

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

Required: No

## See Also

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

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

# AssetAttributes

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

## Contents

### **schemaVersion**

The schema version of this data type.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### **agentId**

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

Type: String

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

Required: No

### **amiId**

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

Type: String

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

Required: No

### **autoScalingGroup**

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

Type: String

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

Required: No

### **hostname**

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

Type: String

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

Required: No

### **ipv4Addresses**

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

Type: Array of strings

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

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

Required: No

### **networkInterfaces**

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

Type: Array of [NetworkInterface](#) objects

Required: No

### **tags**

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

Type: Array of [Tag](#) objects

Required: No

## **See Also**

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

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

# Attribute

This data type is used as a request parameter in the [AddAttributesToFindings](#) and [CreateAssessmentTemplate](#) actions.

## Contents

### key

The attribute key.

Type: String

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

Required: Yes

### value

The value assigned to the attribute key.

Type: String

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

Required: No

## See Also

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

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

# DurationRange

This data type is used in the [AssessmentTemplateFilter](#) data type.

## Contents

### maxSeconds

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

Type: Integer

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

Required: No

### minSeconds

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

Type: Integer

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

Required: No

## See Also

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

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

# EventSubscription

This data type is used in the [Subscription](#) 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](#) is called.

Type: Timestamp

Required: Yes

## See Also

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

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



# Exclusion

Contains information about what was excluded from an assessment run.

## Contents

### arn

The ARN that specifies the exclusion.

Type: String

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

Required: Yes

### description

The description of the exclusion.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: Yes

### recommendation

The recommendation for the exclusion.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: Yes

### scopes

The AWS resources for which the exclusion pertains.

Type: Array of [Scope](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

**title**

The name of the exclusion.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: Yes

**attributes**

The system-defined attributes for the exclusion.

Type: Array of [Attribute](#) objects

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

Required: No

**See Also**

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

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

# ExclusionPreview

Contains information about what is excluded from an assessment run given the current state of the assessment template.

## Contents

### description

The description of the exclusion preview.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: Yes

### recommendation

The recommendation for the exclusion preview.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: Yes

### scopes

The AWS resources for which the exclusion preview pertains.

Type: Array of [Scope](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

### title

The name of the exclusion preview.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: Yes

### **attributes**

The system-defined attributes for the exclusion preview.

Type: Array of [Attribute](#) objects

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

Required: No

## **See Also**

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

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

# FailedItemDetails

Includes details about the failed items.

## Contents

### failureCode

The status code of a failed item.

Type: String

Valid Values: INVALID\_ARN | DUPLICATE\_ARN | ITEM\_DOES\_NOT\_EXIST | ACCESS\_DENIED | LIMIT\_EXCEEDED | INTERNAL\_ERROR

Required: Yes

### retryable

Indicates whether you can immediately retry a request for this item for a specified resource.

Type: Boolean

Required: Yes

## See Also

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

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

# Finding

Contains information about an Amazon Inspector Classic finding. This data type is used as the response element in the [DescribeFindings](#) action.

## Contents

### arn

The ARN that specifies the finding.

Type: String

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

Required: Yes

### attributes

The system-defined attributes for the finding.

Type: Array of [Attribute](#) objects

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

Required: Yes

### createdAt

The time when the finding was generated.

Type: Timestamp

Required: Yes

### updatedAt

The time when [AddAttributesToFindings](#) is called.

Type: Timestamp

Required: Yes

### userAttributes

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

Type: Array of [Attribute](#) objects

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

Required: Yes

### **assetAttributes**

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

Type: [AssetAttributes](#) object

Required: No

### **assetType**

The type of the host from which the finding is generated.

Type: String

Valid Values: `ec2-instance`

Required: No

### **confidence**

This data element is currently not used.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 10.

Required: No

### **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](#) data type.

Type: [InspectorServiceAttributes](#) 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

## **See Also**

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

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

# FindingFilter

This data type is used as a request parameter in the [ListFindings](#) 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](#) data type.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 99 items.

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

Required: No

### attributes

For a record to match a filter, the list of values that are specified for this data type property must be contained in the list of values of the **attributes** property of the [Finding](#) data type.

Type: Array of [Attribute](#) 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](#) 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](#) 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](#) 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](#) 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](#) 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](#) data type.

Type: Array of [Attribute](#) objects

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

Required: No

## See Also

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

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

# InspectorServiceAttributes

This data type is used in the [Finding](#) data type.

## Contents

### schemaVersion

The schema version of this data type.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### 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

## See Also

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

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

- [AWS SDK for Ruby V3](#)

# NetworkInterface

Contains information about the network interfaces interacting with an EC2 instance. This data type is used as one of the elements of the [AssetAttributes](#) data type.

## Contents

### ipv6Addresses

The IP addresses associated with the network interface.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

### networkInterfaceId

The ID of the network interface.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

### privateDnsName

The name of a private DNS associated with the network interface.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

### privateIpAddress

The private IP address associated with the network interface.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

### **privateIpAddresses**

A list of the private IP addresses associated with the network interface. Includes the `privateDnsName` and `privateIpAddress`.

Type: Array of [PrivateIp](#) objects

Required: No

### **publicDnsName**

The name of a public DNS associated with the network interface.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

### **publicIp**

The public IP address from which the network interface is reachable.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

### **securityGroups**

A list of the security groups associated with the network interface. Includes the `groupId` and `groupName`.

Type: Array of [SecurityGroup](#) objects

Required: No

### **subnetId**

The ID of a subnet associated with the network interface.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.



Required: No

### **vpId**

The ID of a VPC associated with the network interface.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

## **See Also**

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

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

# Privatelp

Contains information about a private IP address associated with a network interface. This data type is used as a response element in the [DescribeFindings](#) action.

## Contents

### privateDnsName

The DNS name of the private IP address.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

### privateIpAddress

The full IP address of the network interface.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

## See Also

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

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

# ResourceGroup

Contains information about a resource group. The resource group defines a set of tags that, when queried, identify the AWS resources that make up the assessment target. This data type is used as the response element in the [DescribeResourceGroups](#) 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](#) action.

Type: Array of [ResourceGroupTag](#) objects

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

Required: Yes

## See Also

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

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

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

# ResourceGroupTag

This data type is used as one of the elements of the [ResourceGroup](#) data type.

## Contents

### key

A tag key.

Type: String

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

Required: Yes

### value

The value assigned to a tag key.

Type: String

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

Required: No

## See Also

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

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

# RulesPackage

Contains information about an Amazon Inspector Classic rules package. This data type is used as the response element in the [DescribeRulesPackages](#) action.

## Contents

### arn

The ARN of the rules package.

Type: String

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

Required: Yes

### 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

### **description**

The description of the rules package.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

## **See Also**

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

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

# Scope

This data type contains key-value pairs that identify various Amazon resources.

## Contents

### key

The type of the scope.

Type: String

Valid Values: INSTANCE\_ID | RULES\_PACKAGE\_ARN

Required: No

### value

The resource identifier for the specified scope type.

Type: String

Required: No

## See Also

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

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



# SecurityGroup

Contains information about a security group associated with a network interface. This data type is used as one of the elements of the [NetworkInterface](#) data type.

## Contents

### groupId

The ID of the security group.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

### groupName

The name of the security group.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 20000.

Required: No

## See Also

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

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

# Subscription

This data type is used as a response element in the [ListEventSubscriptions](#) action.

## Contents

### **eventSubscriptions**

The list of existing event subscriptions.

Type: Array of [EventSubscription](#) objects

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

Required: Yes

### **resourceArn**

The ARN of the assessment template that is used during the event for which the SNS notification is sent.

Type: String

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

Required: Yes

### **topicArn**

The ARN of the Amazon Simple Notification Service (SNS) topic to which the SNS notifications are sent.

Type: String

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

Required: Yes

## See Also

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

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

# Tag

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

## Contents

### key

A tag key.

Type: String

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

Required: Yes

### value

A value assigned to a tag key.

Type: String

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

Required: No

## See Also

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

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

# TelemetryMetadata

The metadata about the Amazon Inspector Classic application data metrics collected by the agent. This data type is used as the response element in the [GetTelemetryMetadata](#) action.

## Contents

### count

The count of messages that the agent sends to the Amazon Inspector Classic service.

Type: Long

Required: Yes

### 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

### dataSize

The data size of messages that the agent sends to the Amazon Inspector service.

Type: Long

Required: No

## See Also

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

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



# TimestampRange

This data type is used in the [AssessmentRunFilter](#) data type.

## Contents

### beginDate

The minimum value of the timestamp range.

Type: Timestamp

Required: No

### endDate

The maximum value of the timestamp range.

Type: Timestamp

Required: No

## See Also

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

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

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

## X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: *access\_key/YYYYMMDD/region/service/aws4\_request*.



For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-Date**

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

### **X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

### **X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

# Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

## **InternalFailure**

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

## **InvalidAction**

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

## **InvalidClientTokenId**

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 400

## **OptInRequired**

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

**RequestExpired**

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

**ServiceUnavailable**

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

**ValidationError**

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

HTTP Status Code: 400