API Reference

AWS Network Security Manager



API Version 2025-10-30

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AWS Network Security Manager: API Reference

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Services or capabilities described in AWS documentation might vary by Region. To see the differences applicable to the AWS European Sovereign Cloud Region, see the AWS European Sovereign Cloud User Guide.

Table of Contents

Welcome **1**
Actions **2**
CreateDeployment 4
Request Syntax 4
URI Request Parameters 4
Request Body 4
Response Syntax 6
Response Elements 7
Errors 10
See Also 12
CreateDeploymentSnapshot 14
Request Syntax 14
URI Request Parameters 14
Request Body 14
Response Syntax 15
Response Elements 16
Errors 18
See Also 20
CreatePolicy 22
Request Syntax 22
URI Request Parameters 23
Request Body 23
Response Syntax 25
Response Elements 26
Errors 29
See Also 31
CreatePolicySnapshot 32
Request Syntax 32
URI Request Parameters 32
Request Body 32
Response Syntax 33
Response Elements 34
Errors 37
See Also 39

CreateRule ... 40
Request Syntax ... 40
URI Request Parameters ... 40
Request Body ... 40
Response Syntax ... 42
Response Elements ... 43
Errors ... 46
See Also ... 47
CreateRuleSnapshot ... 49
Request Syntax ... 49
URI Request Parameters ... 49
Request Body ... 49
Response Syntax ... 50
Response Elements ... 51
Errors ... 53
See Also ... 55
CreateScope ... 57
Request Syntax ... 57
URI Request Parameters ... 57
Request Body ... 58
Response Syntax ... 59
Response Elements ... 60
Errors ... 63
See Also ... 65
CreateScopeSnapshot ... 66
Request Syntax ... 66
URI Request Parameters ... 66
Request Body ... 66
Response Syntax ... 67
Response Elements ... 68
Errors ... 70
See Also ... 72
CreateTemplate ... 74
Request Syntax ... 74
URI Request Parameters ... 74
Request Body ... 74

Response Syntax ... 76
Response Elements ... 77
Errors ... 79
See Also ... 81
CreateTemplateSnapshot ... 82
Request Syntax ... 82
URI Request Parameters ... 82
Request Body ... 82
Response Syntax ... 83
Response Elements ... 84
Errors ... 86
See Also ... 88
DeleteAdminAccount ... 89
Request Syntax ... 89
URI Request Parameters ... 89
Request Body ... 89
Response Syntax ... 89
Response Elements ... 89
Errors ... 89
See Also ... 90
DeleteDeployment ... 92
Request Syntax ... 92
URI Request Parameters ... 92
Request Body ... 92
Response Syntax ... 92
Response Elements ... 92
Errors ... 92
See Also ... 94
DeletePolicy ... 95
Request Syntax ... 95
URI Request Parameters ... 95
Request Body ... 95
Response Syntax ... 95
Response Elements ... 95
Errors ... 95
See Also ... 97

DeleteRule ... 98
Request Syntax ... 98
URI Request Parameters ... 98
Request Body ... 98
Response Syntax ... 98
Response Elements ... 98
Errors ... 98
See Also ... 100
DeleteScope ... 101
Request Syntax ... 101
URI Request Parameters ... 101
Request Body ... 101
Response Syntax ... 101
Response Elements ... 101
Errors ... 101
See Also ... 103
DeleteTemplate ... 104
Request Syntax ... 104
URI Request Parameters ... 104
Request Body ... 104
Response Syntax ... 104
Response Elements ... 104
Errors ... 104
See Also ... 106
GenerateRuleConfiguration ... 107
Request Syntax ... 107
URI Request Parameters ... 107
Request Body ... 107
Response Syntax ... 109
Response Elements ... 109
Errors ... 110
See Also ... 110
GetAdminAccount ... 112
Request Syntax ... 112
URI Request Parameters ... 112
Request Body ... 112

Response Syntax ... 112
Response Elements ... 113
Errors ... 113
See Also ... 114
GetDeployment ... 116
Request Syntax ... 116
URI Request Parameters ... 116
Request Body ... 116
Response Syntax ... 116
Response Elements ... 117
Errors ... 120
See Also ... 121
GetPolicy ... 123
Request Syntax ... 123
URI Request Parameters ... 123
Request Body ... 123
Response Syntax ... 123
Response Elements ... 124
Errors ... 127
See Also ... 128
GetRule ... 129
Request Syntax ... 129
URI Request Parameters ... 129
Request Body ... 129
Response Syntax ... 129
Response Elements ... 130
Errors ... 132
See Also ... 133
GetScope ... 135
Request Syntax ... 135
URI Request Parameters ... 135
Request Body ... 135
Response Syntax ... 135
Response Elements ... 136
Errors ... 138
See Also ... 140

GetTemplate 141
Request Syntax 141
URI Request Parameters 141
Request Body 141
Response Syntax 141
Response Elements 142
Errors 144
See Also 145
ListAdminAccounts 147
Request Syntax 147
URI Request Parameters 147
Request Body 147
Response Syntax 147
Response Elements 148
Errors 148
See Also 149
ListAggregateResourceSynchronizationStatuses 151
Request Syntax 151
URI Request Parameters 151
Request Body 151
Response Syntax 152
Response Elements 152
Errors 153
See Also 154
ListDeployments 155
Request Syntax 155
URI Request Parameters 155
Request Body 155
Response Syntax 155
Response Elements 156
Errors 157
See Also 157
ListDeploymentSnapshots 159
Request Syntax 159
URI Request Parameters 159
Request Body 159

Response Syntax ... 160
Response Elements ... 160
Errors ... 161
See Also ... 162
ListEntityCoverages ... 163
Request Syntax ... 163
URI Request Parameters ... 163
Request Body ... 164
Response Syntax ... 164
Response Elements ... 164
Errors ... 165
See Also ... 166
ListPolicies ... 167
Request Syntax ... 167
URI Request Parameters ... 167
Request Body ... 167
Response Syntax ... 167
Response Elements ... 168
Errors ... 169
See Also ... 169
ListPolicySnapshots ... 171
Request Syntax ... 171
URI Request Parameters ... 171
Request Body ... 171
Response Syntax ... 172
Response Elements ... 172
Errors ... 173
See Also ... 174
ListProtectedResourceCoverages ... 175
Request Syntax ... 175
URI Request Parameters ... 175
Request Body ... 176
Response Syntax ... 176
Response Elements ... 176
Errors ... 177
See Also ... 178

ListResourceAssociations ... 179
Request Syntax ... 179
URI Request Parameters ... 179
Request Body ... 179
Response Syntax ... 180
Response Elements ... 180
Errors ... 180
See Also ... 181
ListResourceSynchronizationStatuses ... 183
Request Syntax ... 183
URI Request Parameters ... 183
Request Body ... 184
Response Syntax ... 184
Response Elements ... 184
Errors ... 185
See Also ... 186
ListRules ... 187
Request Syntax ... 187
URI Request Parameters ... 187
Request Body ... 187
Response Syntax ... 187
Response Elements ... 188
Errors ... 189
See Also ... 189
ListRuleSnapshots ... 191
Request Syntax ... 191
URI Request Parameters ... 191
Request Body ... 191
Response Syntax ... 191
Response Elements ... 192
Errors ... 193
See Also ... 194
ListScopes ... 195
Request Syntax ... 195
URI Request Parameters ... 195
Request Body ... 195

Response Syntax ... 195
Response Elements ... 196
Errors ... 197
See Also ... 197
ListScopeSnapshots ... 199
Request Syntax ... 199
URI Request Parameters ... 199
Request Body ... 199
Response Syntax ... 200
Response Elements ... 200
Errors ... 201
See Also ... 202
ListTagsForResource ... 203
Request Syntax ... 203
URI Request Parameters ... 203
Request Body ... 203
Response Syntax ... 203
Response Elements ... 203
Errors ... 204
See Also ... 205
ListTemplates ... 207
Request Syntax ... 207
URI Request Parameters ... 207
Request Body ... 207
Response Syntax ... 207
Response Elements ... 208
Errors ... 209
See Also ... 209
ListTemplateSnapshots ... 211
Request Syntax ... 211
URI Request Parameters ... 211
Request Body ... 211
Response Syntax ... 212
Response Elements ... 212
Errors ... 213
See Also ... 214

PutAdminAccount ... 215
Request Syntax ... 215
URI Request Parameters ... 215
Request Body ... 215
Response Syntax ... 216
Response Elements ... 217
Errors ... 217
See Also ... 219
TagResource ... 220
Request Syntax ... 220
URI Request Parameters ... 220
Request Body ... 220
Response Syntax ... 221
Response Elements ... 221
Errors ... 221
See Also ... 222
UntagResource ... 224
Request Syntax ... 224
URI Request Parameters ... 224
Request Body ... 224
Response Syntax ... 224
Response Elements ... 225
Errors ... 225
See Also ... 226
UpdateDeployment ... 227
Request Syntax ... 227
URI Request Parameters ... 227
Request Body ... 228
Response Syntax ... 229
Response Elements ... 230
Errors ... 233
See Also ... 235
UpdatePolicy ... 237
Request Syntax ... 237
URI Request Parameters ... 237
Request Body ... 238

Response Syntax ... 240
Response Elements ... 240
Errors ... 243
See Also ... 245
UpdateRule ... 247
Request Syntax ... 247
URI Request Parameters ... 247
Request Body ... 247
Response Syntax ... 249
Response Elements ... 250
Errors ... 252
See Also ... 254
UpdateScope ... 255
Request Syntax ... 255
URI Request Parameters ... 255
Request Body ... 256
Response Syntax ... 257
Response Elements ... 258
Errors ... 260
See Also ... 262
UpdateTemplate ... 264
Request Syntax ... 264
URI Request Parameters ... 264
Request Body ... 264
Response Syntax ... 266
Response Elements ... 266
Errors ... 269
See Also ... 271
Data Types ... 272
AccountFilter ... 275
Contents ... 275
See Also ... 275
AccountReference ... 277
Contents ... 277
See Also ... 277
AccountSet ... 279

Contents ... 279
See Also ... 279
AdminAccountDetails ... 280
Contents ... 280
See Also ... 281
AdminAccountSummary ... 282
Contents ... 282
See Also ... 283
AdminFirewallTypeScope ... 284
Contents ... 284
See Also ... 284
AdminScope ... 285
Contents ... 285
See Also ... 285
AdminScopeFilter ... 286
Contents ... 286
See Also ... 286
AdminScopeFilterInput ... 288
Contents ... 288
See Also ... 288
AdminScopeInput ... 290
Contents ... 290
See Also ... 290
AdminScopeSelection ... 291
Contents ... 291
See Also ... 291
AdminScopeSelectionInput ... 292
Contents ... 292
See Also ... 292
AlbConfiguration ... 294
Contents ... 294
See Also ... 294
AssociatedPolicy ... 295
Contents ... 295
See Also ... 295
AssociatedRule ... 296

Contents ... 296
See Also ... 296
AssociatedScope ... 297
Contents ... 297
See Also ... 297
AssociatedTemplateOrRule ... 298
Contents ... 298
See Also ... 299
ConfigurationIssue ... 300
Contents ... 300
See Also ... 300
DeploymentConfiguration ... 301
Contents ... 301
See Also ... 301
DeploymentCoverageEntry ... 302
Contents ... 302
See Also ... 303
DeploymentSummary ... 304
Contents ... 304
See Also ... 305
DeploymentWarningEntry ... 307
Contents ... 307
See Also ... 307
FirewallSyncReason ... 309
Contents ... 309
See Also ... 310
IgwFirewallConfig ... 311
Contents ... 311
See Also ... 312
InvalidFirewallReasons ... 313
Contents ... 313
See Also ... 314
InvalidResourceIssue ... 315
Contents ... 315
See Also ... 315
NotVisibleMarker ... 316

Contents ... 316
See Also ... 316
OrganizationalUnitReference ... 317
Contents ... 317
See Also ... 317
OutOfSyncReasonsView ... 318
Contents ... 318
See Also ... 318
PolicyConfiguration ... 320
Contents ... 320
See Also ... 321
PolicyReference ... 322
Contents ... 322
See Also ... 322
PolicySummary ... 323
Contents ... 323
See Also ... 325
RemediationIssueDetails ... 326
Contents ... 326
See Also ... 326
RemediationIssuesView ... 327
Contents ... 327
See Also ... 327
ResourceAssociation ... 329
Contents ... 329
See Also ... 329
ResourceCoverageSummary ... 330
Contents ... 330
See Also ... 332
ResourceCriteria ... 333
Contents ... 333
See Also ... 333
ResourceLogicalExpression ... 334
Contents ... 334
See Also ... 335
ResourceScope ... 336

Contents 336
See Also 336
ResourceSet 337
Contents 337
See Also 337
ResourceSynchronizationStatusSummary 338
Contents 338
See Also 340
RuleReference 341
Contents 341
See Also 341
RuleSummary 342
Contents 342
See Also 344
ScopeConfiguration 345
Contents 345
See Also 346
ScopeReference 347
Contents 347
See Also 347
ScopeSummary 348
Contents 348
See Also 350
SubnetConnectivityOverride 351
Contents 351
See Also 352
TemplateOrRuleReference 353
Contents 353
See Also 353
TemplateSummary 355
Contents 355
See Also 357
ValidationExceptionField 358
Contents 358
See Also 358
WafConfig 359

Contents 359
See Also 359
Common Parameters 360
Common Error Types 363

Welcome

AWS Network Security Manager helps you centrally configure and deploy network security protections across your organization. Supported protections include AWS WAF and AWS Shield Advanced. This centralized approach reduces the overhead of managing protections individually across accounts and ensures consistent security at scale.

You define reusable *rules* and *templates*, then combine them into *policies*. Next, you select the accounts and resources to protect with *scopes* and roll the protections out with *deployments*. For example, you can define a set of AWS WAF rules and group them into a policy. Then deploy that policy across all accounts in your organization with a single deployment.

This API reference describes the operations and data types for AWS Network Security Manager.

For conceptual information, tutorials, and guidance on writing rule configurations, see the AWS Network Security Manager Developer Guide. For the default quotas that apply to your account, see Quotas. For the service endpoints available in each Region, see AWS Network Security Manager endpoints and quotas in the *AWS General Reference*.

This document was last published on November 24, 2026.

Actions

The following actions are supported:

- CreateDeployment
- CreateDeploymentSnapshot
- CreatePolicy
- CreatePolicySnapshot
- CreateRule
- CreateRuleSnapshot
- CreateScope
- CreateScopeSnapshot
- CreateTemplate
- CreateTemplateSnapshot
- DeleteAdminAccount
- DeleteDeployment
- DeletePolicy
- DeleteRule
- DeleteScope
- DeleteTemplate
- GenerateRuleConfiguration
- GetAdminAccount
- GetDeployment
- GetPolicy
- GetRule
- GetScope
- GetTemplate
- ListAdminAccounts
- ListAggregateResourceSynchronizationStatuses
- ListDeployments
- ListDeploymentSnapshots

- ListEntityCoverages
- ListPolicies
- ListPolicySnapshots
- ListProtectedResourceCoverages
- ListResourceAssociations
- ListResourceSynchronizationStatuses
- ListRules
- ListRuleSnapshots
- ListScopes
- ListScopeSnapshots
- ListTagsForResource
- ListTemplates
- ListTemplateSnapshots
- PutAdminAccount
- TagResource
- UntagResource
- UpdateDeployment
- UpdatePolicy
- UpdateRule
- UpdateScope
- UpdateTemplate

CreateDeployment

Creates a deployment. A deployment applies one or more policies to the accounts and resources selected by a scope. Use `isPublished` to create the deployment in published (`ACTIVE`) or draft (`DRAFT`) state. The response includes coverage information and any warnings about the deployment.

Request Syntax

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

{
   "associatedPolicyList": [
      {
         "policyIdentifier": "string"
      }
   ],
   "associatedScopeList": [
      {
         "scopeIdentifier": "string"
      }
   ],
   "clientToken": "string",
   "deploymentConfiguration": {
      "enableCrossAccountVisibility": boolean
   },
   "deploymentDescription": "string",
   "deploymentName": "string",
   "isPublished": boolean,
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

associatedPolicyList

The policies associated with the deployment.

Type: Array of PolicyReference objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

associatedScopeList

The scope associated with the deployment. A deployment has exactly one scope.

Type: Array of ScopeReference objects

Array Members: Fixed number of 1 item.

Required: Yes

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: `[\x21-\x7E]+`

Required: No

deploymentConfiguration

The configuration settings for the deployment.

Type: DeploymentConfiguration object

Required: Yes

deploymentDescription

A description of the deployment.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

Required: No

deploymentName

The name of the deployment.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

Required: Yes

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (`ACTIVE`) state. When `false`, it is saved as a draft (`DRAFT`). Default: `true`.

Type: Boolean

Required: No

tags

The tags to add to the resource when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`

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

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json
```

```
{
   "associatedPolicyList": [
      {
         "policyArn": "string"
      }
   ],
   "associatedScopeList": [
      {
         "scopeArn": "string"
      }
   ],
   "deploymentArn": "string",
   "deploymentConfiguration": {
      "enableCrossAccountVisibility": boolean
   },
   "deploymentCoverage": [
      {
         "firewallType": "string",
         "inScopeResourceTypes": [ "string" ],
         "policyArns": [ "string" ]
      }
   ],
   "deploymentDescription": "string",
   "deploymentId": "string",
   "deploymentName": "string",
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "status": "string",
   "updatedAt": "string",
   "updateToken": "string",
   "version": "string",
   "warnings": [
      {
         "code": "string",
         "message": "string",
         "policyArn": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

associatedPolicyList

The policies associated with the deployment.

Type: Array of AssociatedPolicy objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

associatedScopeList

The scope associated with the deployment. A deployment has exactly one scope.

Type: Array of AssociatedScope objects

Array Members: Fixed number of 1 item.

deploymentArn

The Amazon Resource Name (ARN) of the deployment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

deploymentConfiguration

The configuration settings for the deployment.

Type: DeploymentConfiguration object

deploymentCoverage

The coverage information for the deployment. For each firewall type, it shows which policies have that firewall type and which in-scope resource types the firewall type protects.

Type: Array of DeploymentCoverageEntry objects

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

deploymentDescription

A description of the deployment.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

deploymentId

The service-generated id of the deployment.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

deploymentName

The name of the deployment.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

warnings

Warnings about potential issues, such as a policy that has no applicable resources in the deployment's scope.

Type: Array of DeploymentWarningEntry 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ServiceUnavailableException

The service is temporarily unavailable. This is a retryable error.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 503

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateDeploymentSnapshot

Creates a snapshot of the current published version of the specified deployment.

Request Syntax

```
POST /deployments/deploymentIdentifier/snapshots HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

deploymentIdentifier

The identifier of the deployment. This is the deployment's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: [\x21-\x7E]+

Required: No

tags

The tags to add to the snapshot when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: ([\p{L}\p{Z}\p{N}_.:/=+\-@]*)

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

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "associatedPolicyList": [
      {
         "policyArn": "string"
      }
   ],
   "associatedScopeList": [
      {
         "scopeArn": "string"
      }
   ],
   "deploymentArn": "string",
   "deploymentConfiguration": {
      "enableCrossAccountVisibility": boolean
   },
   "deploymentDescription": "string",
   "deploymentId": "string",
   "deploymentName": "string",
```

```
    "hasPublishedVersion": boolean,
    "isSnapshot": boolean,
    "status": "string",
    "updatedAt": "string",
    "updateToken": "string",
    "version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

associatedPolicyList

The policies associated with the deployment.

Type: Array of AssociatedPolicy objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

associatedScopeList

The scope associated with the deployment. A deployment has exactly one scope.

Type: Array of AssociatedScope objects

Array Members: Fixed number of 1 item.

deploymentArn

The Amazon Resource Name (ARN) of the deployment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

deploymentConfiguration

The configuration settings for the deployment.

Type: DeploymentConfiguration object

deploymentDescription

A description of the deployment.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

deploymentId

The service-generated id of the deployment.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

deploymentName

The name of the deployment.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the snapshot was created.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreatePolicy

Creates a policy. A policy combines templates and rules with enforcement settings for a firewall type, such as AWS WAF or AWS Shield Advanced. Use `isPublished` to create the policy in published (`ACTIVE`) or draft (`DRAFT`) state.

Request Syntax

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

{
   "associatedTemplateAndRuleList": [
      { ... }
   ],
   "clientToken": "string",
   "firewallType": "string",
   "isPublished": boolean,
   "policyConfiguration": {
      "igwFirewallConfig": {
         "defaultSubnetConnectivity": "string",
         "subnetConnectivityOverrides": [
            {
               "connectivityType": "string",
               "scopes": [ "string" ]
            }
         ]
      },
      "remediationEnabled": boolean,
      "resourcesCleanUp": boolean,
      "wafConfig": {
         "conflictResolution": "string",
         "existingCustomerWebACLResolution": "string"
      }
   },
   "policyDescription": "string",
   "policyName": "string",
   "priority": number,
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

associatedTemplateAndRuleList

The templates and rules to associate with the policy. For AWS WAF policies, specify 1 to 100 templates or rules, of which at most 2 can be templates. For AWS Shield Advanced policies, this list must be empty.

Type: Array of TemplateOrRuleReference objects

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

Required: No

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: `[\x21-\x7E]+`

Required: No

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | SHIELD_ADVANCED | IGW_FIREWALL`

Required: Yes

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (`ACTIVE`) state. When `false`, it is saved as a draft (`DRAFT`). Default: `true`.

Type: Boolean

Required: No

policyConfiguration

The configuration settings that control the policy's behavior, including remediation and firewall-type-specific settings.

Type: PolicyConfiguration object

Required: Yes

policyDescription

A description of the policy.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

Required: No

policyName

The name of the policy.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

Required: Yes

priority

The priority of the resource. A lower number indicates a higher priority.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

tags

The tags to add to the resource when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`

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

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "associatedTemplateAndRuleList": [
      { ... }
   ],
   "firewallType": "string",
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "policyArn": "string",
   "policyConfiguration": {
      "igwFirewallConfig": {
         "defaultSubnetConnectivity": "string",
         "subnetConnectivityOverrides": [
            {
               "connectivityType": "string",
               "scopes": [ "string" ]
            }
         ]
      },
      "remediationEnabled": boolean,
```

```
      "resourcesCleanUp": boolean,
      "wafConfig": {
         "conflictResolution": "string",
         "existingCustomerWebACLResolution": "string"
      }
   },
   "policyDescription": "string",
   "policyId": "string",
   "policyName": "string",
   "priority": number,
   "status": "string",
   "updatedAt": "string",
   "updateToken": "string",
   "version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

associatedTemplateAndRuleList

The templates and rules associated with the policy. For AWS WAF policies, this list contains 1 to 100 templates or rules, of which at most 2 can be templates. For AWS Shield Advanced policies, this list is empty.

Type: Array of AssociatedTemplateOrRule objects

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

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | SHIELD_ADVANCED | IGW_FIREWALL`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

policyArn

The Amazon Resource Name (ARN) of the policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

policyConfiguration

The configuration settings that control the policy's behavior, including remediation and firewall-type-specific settings.

Type: PolicyConfiguration object

policyDescription

A description of the policy.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

policyId

The service-generated id of the policy.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

policyName

The name of the policy.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

priority

The priority of the resource. A lower number indicates a higher priority.

Type: Integer

Valid Range: Minimum value of 1.

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ServiceUnavailableException

The service is temporarily unavailable. This is a retryable error.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 503

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreatePolicySnapshot

Creates a snapshot of the current published version of the specified policy.

Request Syntax

```
POST /policies/policyIdentifier/snapshots HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

policyIdentifier

The identifier of the policy. This is the policy's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: [\x21-\x7E]+

Required: No

tags

The tags to add to the snapshot when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: ([\p{L}\p{Z}\p{N}_.:/=+\-@]*)

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

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "associatedTemplateAndRuleList": [
      { ... }
   ],
   "firewallType": "string",
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "policyArn": "string",
   "policyConfiguration": {
      "igwFirewallConfig": {
         "defaultSubnetConnectivity": "string",
         "subnetConnectivityOverrides": [
            {
               "connectivityType": "string",
               "scopes": [ "string" ]
            }
         ]
      },
```

```
      "remediationEnabled": boolean,
      "resourcesCleanUp": boolean,
      "wafConfig": {
         "conflictResolution": "string",
         "existingCustomerWebACLResolution": "string"
      }
   },
   "policyDescription": "string",
   "policyId": "string",
   "policyName": "string",
   "priority": number,
   "status": "string",
   "updatedAt": "string",
   "updateToken": "string",
   "version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

associatedTemplateAndRuleList

The templates and rules associated with the policy. For AWS WAF policies, this list contains 1 to 100 templates or rules, of which at most 2 can be templates. For AWS Shield Advanced policies, this list is empty.

Type: Array of AssociatedTemplateOrRule objects

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

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | SHIELD_ADVANCED | IGW_FIREWALL`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

policyArn

The Amazon Resource Name (ARN) of the policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

policyConfiguration

The configuration settings that control the policy's behavior, including remediation and firewall-type-specific settings.

Type: PolicyConfiguration object

policyDescription

A description of the policy.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

policyId

The service-generated id of the policy.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

policyName

The name of the policy.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

priority

The priority of the resource. A lower number indicates a higher priority.

Type: Integer

Valid Range: Minimum value of 1.

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the snapshot was created.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateRule

Creates a rule. A rule defines a network security configuration to enforce, such as an AWS WAF rule group or configuration data. Use `isPublished` to create the rule in published (`ACTIVE`) or draft (`DRAFT`) state.

Request Syntax

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

{
   "clientToken": "string",
   "configuration": JSON value,
   "firewallType": "string",
   "isPublished": boolean,
   "ruleDescription": "string",
   "ruleName": "string",
   "ruleType": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: `[\x21-\x7E]+`

Required: No

configuration

The firewall configuration for the rule, as a JSON document. The structure depends on the rule's firewall type and rule type. For an AWS WAF `INSPECTION` rule, provide an AWS WAF rule group. For an AWS WAF `CONFIGURATION` rule, provide a single web ACL setting, such as `DefaultAction` or `VisibilityConfig`; use `wafConfigDataType` to declare which setting the document contains. For the schema of each setting and complete examples, see Writing rule configurations in the *AWS Network Security Manager Developer Guide*.

Type: JSON value

Required: Yes

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | IGW_FIREWALL`

Required: Yes

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (`ACTIVE`) state. When `false`, it is saved as a draft (`DRAFT`). Default: `true`.

Type: Boolean

Required: No

ruleDescription

A description of the rule.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

Required: No

ruleName

The name of the rule.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

Required: Yes

ruleType

The type of the rule. `CONFIGURATION` rules contain firewall settings, and `INSPECTION` rules contain rule groups.

Type: String

Valid Values: `CONFIGURATION | INSPECTION`

Required: Yes

tags

The tags to add to the resource when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`

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

Required: No

Response Syntax

```
HTTP/1.1 201
```

```
Content-type: application/json

{
   "configuration": JSON value,
   "firewallType": "string",
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "ruleArn": "string",
   "ruleDescription": "string",
   "ruleId": "string",
   "ruleName": "string",
   "ruleType": "string",
   "status": "string",
   "updatedAt": "string",
   "updateToken": "string",
   "version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

configuration

The firewall configuration for the rule, as a JSON document. The structure depends on the rule's firewall type and rule type.

Type: JSON value

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | IGW_FIREWALL`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

ruleArn

The Amazon Resource Name (ARN) of the rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

ruleDescription

A description of the rule.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

ruleId

The service-generated id of the rule.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

ruleName

The name of the rule.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

ruleType

The type of the rule. `CONFIGURATION` rules contain firewall settings, and `INSPECTION` rules contain rule groups.

Type: String

Valid Values: `CONFIGURATION | INSPECTION`

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ServiceUnavailableException

The service is temporarily unavailable. This is a retryable error.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 503

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateRuleSnapshot

Creates a snapshot of the current published version of the specified rule. A snapshot is an immutable, versioned copy that other resources can reference.

Request Syntax

```
POST /rules/ruleIdentifier/snapshots HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

ruleIdentifier

The identifier of the rule. This is the rule's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: `[\x21-\x7E]+`

Required: No

tags

The tags to add to the snapshot when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`

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

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "configuration": JSON value,
   "firewallType": "string",
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "ruleArn": "string",
   "ruleDescription": "string",
   "ruleId": "string",
   "ruleName": "string",
   "ruleType": "string",
   "status": "string",
   "updatedAt": "string",
   "updateToken": "string",
   "version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

configuration

The firewall configuration for the rule, as a JSON document. The structure depends on the rule's firewall type and rule type.

Type: JSON value

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | IGW_FIREWALL`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

ruleArn

The Amazon Resource Name (ARN) of the rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

ruleDescription

A description of the rule.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

ruleId

The service-generated id of the rule.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

ruleName

The name of the rule.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

ruleType

The type of the rule. `CONFIGURATION` rules contain firewall settings, and `INSPECTION` rules contain rule groups.

Type: String

Valid Values: `CONFIGURATION | INSPECTION`

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the snapshot was created.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateScope

Creates a scope. A scope selects the accounts and resources that a deployment applies to. Use `isPublished` to create the scope in published (`ACTIVE`) or draft (`DRAFT`) state.

Request Syntax

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

{
   "clientToken": "string",
   "isPublished": boolean,
   "scopeConfiguration": {
      "accountFilter": { ... },
      "resourceScopes": {
         "string" : {
            "exclude": {
               "explicitArns": [ "string" ],
               "expression": { ... }
            },
            "include": {
               "explicitArns": [ "string" ],
               "expression": { ... }
            },
            "includeAll": boolean
         }
      }
   },
   "scopeDescription": "string",
   "scopeName": "string",
   "specializedScopeType": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: `[\x21-\x7E]+`

Required: No

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (`ACTIVE`) state. When `false`, it is saved as a draft (`DRAFT`). Default: `true`.

Type: Boolean

Required: No

scopeConfiguration

The configuration that defines which accounts and resources are in scope.

Type: ScopeConfiguration object

Required: Yes

scopeDescription

A description of the scope.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

Required: No

scopeName

The name of the scope.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

Required: Yes

specializedScopeType

The specialized type of the scope. Omit this value to create a standard scope that you can associate with a deployment. Set it to create a scope that is built for one specific purpose: a specialized scope can be used only for the purpose that its type defines, is validated against that use, and can't be associated with a deployment. This value is set when the scope is created and can't be changed.

Type: String

Valid Values: `IGW_FIREWALL_SUBNET_CONNECTIVITY_OVERRIDE`

Required: No

tags

The tags to add to the resource when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`

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

Required: No

Response Syntax

```
HTTP/1.1 201
```

```
Content-type: application/json

{
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "scopeArn": "string",
   "scopeConfiguration": {
      "accountFilter": { ... },
      "resourceScopes": {
         "string" : {
            "exclude": {
               "explicitArns": [ "string" ],
               "expression": { ... }
            },
            "include": {
               "explicitArns": [ "string" ],
               "expression": { ... }
            },
            "includeAll": boolean
         }
      }
   },
   "scopeDescription": "string",
   "scopeId": "string",
   "scopeName": "string",
   "specializedScopeType": "string",
   "status": "string",
   "updatedAt": "string",
   "updateToken": "string",
   "version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

scopeArn

The Amazon Resource Name (ARN) of the scope.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

scopeConfiguration

The configuration that defines which accounts and resources are in scope.

Type: ScopeConfiguration object

scopeDescription

A description of the scope.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

scopeId

The service-generated id of the scope.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

scopeName

The name of the scope.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

specializedScopeType

The specialized type of the scope, if the scope is built for one specific purpose. A scope with no `specializedScopeType` is a standard scope that you can associate with a deployment. A specialized scope can be used only for the purpose that its type defines and can't be associated with a deployment. This value is set when the scope is created and can't be changed.

Type: String

Valid Values: `IGW_FIREWALL_SUBNET_CONNECTIVITY_OVERRIDE`

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ServiceUnavailableException

The service is temporarily unavailable. This is a retryable error.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 503

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateScopeSnapshot

Creates a snapshot of the current published version of the specified scope.

Request Syntax

```
POST /scopes/scopeIdentifier/snapshots HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

scopeIdentifier

The identifier of the scope. This is the scope's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: [\x21-\x7E]+

Required: No

tags

The tags to add to the snapshot when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: ([\p{L}\p{Z}\p{N}_.:/=+\-@]*)

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

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "scopeArn": "string",
   "scopeConfiguration": {
      "accountFilter": { ... },
      "resourceScopes": {
         "string" : {
            "exclude": {
               "explicitArns": [ "string" ],
               "expression": { ... }
            },
            "include": {
               "explicitArns": [ "string" ],
               "expression": { ... }
            },
            "includeAll": boolean
         }
      }
```

```
    },
    "scopeDescription": "string",
    "scopeId": "string",
    "scopeName": "string",
    "specializedScopeType": "string",
    "status": "string",
    "updatedAt": "string",
    "updateToken": "string",
    "version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

scopeArn

The Amazon Resource Name (ARN) of the scope.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

scopeConfiguration

The configuration that defines which accounts and resources are in scope.

Type: ScopeConfiguration object

scopeDescription

A description of the scope.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

scopeId

The service-generated id of the scope.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

scopeName

The name of the scope.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

specializedScopeType

The specialized type of the scope, if the scope is built for one specific purpose. A scope with no `specializedScopeType` is a standard scope that you can associate with a deployment. A specialized scope can be used only for the purpose that its type defines and can't be associated with a deployment. This value is set when the scope is created and can't be changed.

Type: String

Valid Values: `IGW_FIREWALL_SUBNET_CONNECTIVITY_OVERRIDE`

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the snapshot was created.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateTemplate

Creates a template. A template groups one or more rules to simplify reuse across policies. You can also associate rules with a policy directly, without a template. Use `isPublished` to create the template in published (`ACTIVE`) or draft (`DRAFT`) state.

Request Syntax

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

{
   "associatedRuleList": [
      {
         "ruleIdentifier": "string"
      }
   ],
   "clientToken": "string",
   "firewallType": "string",
   "isPublished": boolean,
   "tags": {
      "string" : "string"
   },
   "templateDescription": "string",
   "templateName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

associatedRuleList

The rules associated with the template.

Type: Array of RuleReference objects

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

Required: Yes

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: `[\x21-\x7E]+`

Required: No

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | IGW_FIREWALL`

Required: Yes

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (`ACTIVE`) state. When `false`, it is saved as a draft (`DRAFT`). Default: `true`.

Type: Boolean

Required: No

tags

The tags to add to the resource when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`

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

Required: No

templateDescription

A description of the template.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

Required: No

templateName

The name of the template.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

Required: Yes

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "associatedRuleList": [
      {
         "ruleArn": "string"
      }
   ],
   "firewallType": "string",
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "status": "string",
   "templateArn": "string",
```

```
    "templateDescription": "string",
    "templateId": "string",
    "templateName": "string",
    "updatedAt": "string",
    "updateToken": "string",
    "version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

associatedRuleList

The rules associated with the template.

Type: Array of AssociatedRule objects

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

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | IGW_FIREWALL`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

templateArn

The Amazon Resource Name (ARN) of the template.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

templateDescription

A description of the template.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

templateId

The service-generated id of the template.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

templateName

The name of the template.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ServiceUnavailableException

The service is temporarily unavailable. This is a retryable error.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 503

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateTemplateSnapshot

Creates a snapshot of the current published version of the specified template.

Request Syntax

```
POST /templates/templateIdentifier/snapshots HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

templateIdentifier

The identifier of the template. This is the template's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: `[\x21-\x7E]+`

Required: No

tags

The tags to add to the snapshot when it is created.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`

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

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "associatedRuleList": [
      {
         "ruleArn": "string"
      }
   ],
   "firewallType": "string",
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "status": "string",
   "templateArn": "string",
   "templateDescription": "string",
   "templateId": "string",
   "templateName": "string",
   "updatedAt": "string",
   "updateToken": "string",
   "version": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

associatedRuleList

The rules associated with the template.

Type: Array of AssociatedRule objects

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

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | IGW_FIREWALL`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

templateArn

The Amazon Resource Name (ARN) of the template.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

templateDescription

A description of the template.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

templateId

The service-generated id of the template.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

templateName

The name of the template.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

updatedAt

The time when the snapshot was created.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteAdminAccount

Removes the specified AWS Network Security Manager administrator account.

Request Syntax

```
DELETE /admin-account/accountId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

accountId

The AWS account ID of the administrator account to remove.

Length Constraints: Fixed length of 12.

Pattern: `(?:[0-9]{12})`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteDeployment

Deletes the specified deployment.

Request Syntax

```
DELETE /deployments/deploymentIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

deploymentIdentifier

The identifier of the deployment. This is the deployment's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeletePolicy

Deletes the specified policy.

Request Syntax

```
DELETE /policies/policyIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

policyIdentifier

The identifier of the policy. This is the policy's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteRule

Deletes the specified rule.

Request Syntax

```
DELETE /rules/ruleIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ruleIdentifier

The identifier of the rule. This is the rule's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteScope

Deletes the specified scope.

Request Syntax

```
DELETE /scopes/scopeIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

scopeIdentifier

The identifier of the scope. This is the scope's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteTemplate

Deletes the specified template.

Request Syntax

```
DELETE /templates/templateIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

templateIdentifier

The identifier of the template. This is the template's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GenerateRuleConfiguration

Generates a rule configuration from a natural-language description. Provide a prompt along with the rule's firewall type and rule type. The service returns a configuration that you can use when you create or update a rule. If you also provide an existing configuration, the service edits that configuration instead of generating a new one.

Request Syntax

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

{
   "clientToken": "string",
   "currentConfiguration": "string",
   "prompt": "string",
   "ruleFirewallType": "string",
   "ruleType": "string",
   "wafConfigDataType": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: `[\x21-\x7E]+`

Required: No

currentConfiguration

An existing configuration to edit, as a JSON string. When you provide this value, the operation edits the configuration. When you omit it, the operation generates a new configuration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 32768.

Required: No

prompt

A natural-language description of the configuration that you want to generate.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2000.

Pattern: `[A-Za-z0-9.,?!@&:;()'"\s\-\/\n_=<>+*\#\[\]{}]*`

Required: Yes

ruleFirewallType

The firewall type of the rule.

Type: String

Valid Values: `WAF | IGW_FIREWALL`

Required: Yes

ruleType

The type of the rule. `CONFIGURATION` rules contain firewall settings, and `INSPECTION` rules contain rule groups.

Type: String

Valid Values: `CONFIGURATION | INSPECTION`

Required: Yes

wafConfigDataType

For AWS WAF configuration rules, the specific AWS WAF configuration variant to generate. This is optional; if you omit it, the service selects the variant.

Type: String

Valid Values: `DefaultAction | VisibilityConfig | CaptchaConfig | ChallengeConfig | CustomResponseBodies | LoggingConfiguration | DataProtectionConfig | AssociationConfig | OnSourceDDoSProtectionConfig | TokenDomains`

Required: No

Response Syntax

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

{
   "configuration": "string",
   "description": "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.

configuration

The generated configuration, as a JSON string. You can use this value in the `configuration` field of a rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 32768.

description

Reserved for a future human-readable description of the generated configuration. This field is currently not populated.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetAdminAccount

Retrieves the details of the specified AWS Network Security Manager administrator account.

Request Syntax

```
GET /admin-account/accountId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

accountId

The AWS account ID of the administrator account to retrieve.

Length Constraints: Fixed length of 12.

Pattern: `(?:[0-9]{12})`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "adminAccountDetails": {
      "adminAccount": "string",
      "adminScope": {
         "firewallTypeScope": {
            "allFirewallTypesEnabled": boolean,
            "firewallTypes": [ "string" ]
         },
         "scopeFilter": { ... }
      },
```

```
      "priority": number,
      "status": "string"
   }
}
```

Response Elements

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

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

adminAccountDetails

The details of the administrator account.

Type: AdminAccountDetails object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)

- AWS SDK for Ruby V3

GetDeployment

Retrieves the details of the specified deployment, including coverage information and any warnings.

Request Syntax

```
GET /deployments/deploymentIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

deploymentIdentifier

The identifier of the deployment. This is the deployment's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "associatedPolicyList": [
      {
         "policyArn": "string"
      }
   ],
   "associatedScopeList": [
      {
         "scopeArn": "string"
      }
```

```
    ],
    "deploymentArn": "string",
    "deploymentConfiguration": {
       "enableCrossAccountVisibility": boolean
    },
    "deploymentCoverage": [
       {
          "firewallType": "string",
          "inScopeResourceTypes": [ "string" ],
          "policyArns": [ "string" ]
       }
    ],
    "deploymentDescription": "string",
    "deploymentId": "string",
    "deploymentName": "string",
    "hasPublishedVersion": boolean,
    "isSnapshot": boolean,
    "status": "string",
    "updatedAt": "string",
    "updateToken": "string",
    "version": "string",
    "warnings": [
       {
          "code": "string",
          "message": "string",
          "policyArn": "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.

associatedPolicyList

The policies associated with the deployment.

Type: Array of AssociatedPolicy objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

associatedScopeList

The scope associated with the deployment. A deployment has exactly one scope.

Type: Array of AssociatedScope objects

Array Members: Fixed number of 1 item.

deploymentArn

The Amazon Resource Name (ARN) of the deployment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

deploymentConfiguration

The configuration settings for the deployment.

Type: DeploymentConfiguration object

deploymentCoverage

The coverage information for the deployment. For each firewall type, it shows which policies have that firewall type and which in-scope resource types the firewall type protects.

Type: Array of DeploymentCoverageEntry objects

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

deploymentDescription

A description of the deployment.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

deploymentId

The service-generated id of the deployment.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

deploymentName

The name of the deployment.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

status

The current status of the resource: `DRAFT` (unpublished, editable), `ACTIVE` (published, in use), or `DISABLED` (deactivated; changes cannot be published until the resource is re-enabled).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

warnings

Warnings about potential issues, such as a policy that has no applicable resources in the deployment's scope.

Type: Array of DeploymentWarningEntry 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetPolicy

Retrieves the details of the specified policy.

Request Syntax

```
GET /policies/policyIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

policyIdentifier

The identifier of the policy. This is the policy's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "associatedTemplateAndRuleList": [
      { ... }
   ],
   "firewallType": "string",
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "policyArn": "string",
   "policyConfiguration": {
      "igwFirewallConfig": {
         "defaultSubnetConnectivity": "string",
```

```
         "subnetConnectivityOverrides": [
            {
               "connectivityType": "string",
               "scopes": [ "string" ]
            }
         ]
      },
      "remediationEnabled": boolean,
      "resourcesCleanUp": boolean,
      "wafConfig": {
         "conflictResolution": "string",
         "existingCustomerWebACLResolution": "string"
      }
   },
   "policyDescription": "string",
   "policyId": "string",
   "policyName": "string",
   "priority": number,
   "status": "string",
   "updatedAt": "string",
   "updateToken": "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.

associatedTemplateAndRuleList

The templates and rules associated with the policy. For AWS WAF policies, this list contains 1 to 100 templates or rules, of which at most 2 can be templates. For AWS Shield Advanced policies, this list is empty.

Type: Array of AssociatedTemplateOrRule objects

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

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | SHIELD_ADVANCED | IGW_FIREWALL`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

policyArn

The Amazon Resource Name (ARN) of the policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

policyConfiguration

The configuration settings that control the policy's behavior, including remediation and firewall-type-specific settings.

Type: PolicyConfiguration object

policyDescription

A description of the policy.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

policyId

The service-generated id of the policy.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

policyName

The name of the policy.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

priority

The priority of the resource. A lower number indicates a higher priority.

Type: Integer

Valid Range: Minimum value of 1.

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetRule

Retrieves the details of the specified rule.

Request Syntax

```
GET /rules/ruleIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ruleIdentifier

The identifier of the rule. This is the rule's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "configuration": JSON value,
   "firewallType": "string",
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "ruleArn": "string",
   "ruleDescription": "string",
   "ruleId": "string",
   "ruleName": "string",
   "ruleType": "string",
   "status": "string",
```

```
    "updatedAt": "string",
    "updateToken": "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.

configuration

The firewall configuration for the rule, as a JSON document. The structure depends on the rule's firewall type and rule type.

Type: JSON value

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | IGW_FIREWALL`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

ruleArn

The Amazon Resource Name (ARN) of the rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

ruleDescription

A description of the rule.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

ruleId

The service-generated id of the rule.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

ruleName

The name of the rule.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

ruleType

The type of the rule. `CONFIGURATION` rules contain firewall settings, and `INSPECTION` rules contain rule groups.

Type: String

Valid Values: `CONFIGURATION | INSPECTION`

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetScope

Retrieves the details of the specified scope.

Request Syntax

```
GET /scopes/scopeIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

scopeIdentifier

The identifier of the scope. This is the scope's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "scopeArn": "string",
   "scopeConfiguration": {
      "accountFilter": { ... },
      "resourceScopes": {
         "string" : {
            "exclude": {
               "explicitArns": [ "string" ],
               "expression": { ... }
```

```
            },
            "include": {
               "explicitArns": [ "string" ],
               "expression": { ... }
            },
            "includeAll": boolean
         }
      }
   },
   "scopeDescription": "string",
   "scopeId": "string",
   "scopeName": "string",
   "specializedScopeType": "string",
   "status": "string",
   "updatedAt": "string",
   "updateToken": "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.

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

scopeArn

The Amazon Resource Name (ARN) of the scope.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

scopeConfiguration

The configuration that defines which accounts and resources are in scope.

Type: ScopeConfiguration object

scopeDescription

A description of the scope.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

scopeId

The service-generated id of the scope.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

scopeName

The name of the scope.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

specializedScopeType

The specialized type of the scope, if the scope is built for one specific purpose. A scope with no `specializedScopeType` is a standard scope that you can associate with a deployment. A specialized scope can be used only for the purpose that its type defines and can't be associated with a deployment. This value is set when the scope is created and can't be changed.

Type: String

Valid Values: `IGW_FIREWALL_SUBNET_CONNECTIVITY_OVERRIDE`

status

The current status of the resource: `DRAFT` (unpublished, editable), `ACTIVE` (published, in use), or `DISABLED` (deactivated; changes cannot be published until the resource is re-enabled).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetTemplate

Retrieves the details of the specified template.

Request Syntax

```
GET /templates/templateIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

templateIdentifier

The identifier of the template. This is the template's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "associatedRuleList": [
      {
         "ruleArn": "string"
      }
   ],
   "firewallType": "string",
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "status": "string",
   "templateArn": "string",
```

```
    "templateDescription": "string",
    "templateId": "string",
    "templateName": "string",
    "updatedAt": "string",
    "updateToken": "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.

associatedRuleList

The rules associated with the template.

Type: Array of AssociatedRule objects

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

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | IGW_FIREWALL`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

templateArn

The Amazon Resource Name (ARN) of the template.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

templateDescription

A description of the template.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

templateId

The service-generated id of the template.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

templateName

The name of the template.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListAdminAccounts

Lists the AWS Network Security Manager administrator accounts in the organization.

Request Syntax

```
GET /admin-accounts?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "adminAccounts": [
      {
```

```
            "accountId": "string",
            "email": "string",
            "name": "string",
            "priority": number
        }
    ],
    "nextToken": "string"
}
```

Response Elements

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

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

adminAccounts

The list of administrator accounts.

Type: Array of AdminAccountSummary objects

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

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListAggregateResourceSynchronizationStatuses

Lists the aggregated synchronization statuses of resources across the deployments in your administrator account. You can filter the results by synchronization status and page through them.

Request Syntax

```
GET /aggregate-sync-statuses?
maxResults=maxResults&nextToken=nextToken&synchronizationStatus=synchronizationStatus
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

synchronizationStatus

Filters the results by synchronization status, such as `IN_SYNC` or `OUT_OF_SYNC`.

Valid Values: `IN_SYNC | OUT_OF_SYNC | NOT_APPLICABLE`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "nextToken": "string",
   "resourceSynchronizationStatuses": [
      {
         "accountId": "string",
         "deploymentArn": "string",
         "evaluatedAt": "string",
         "outOfSyncReasons": { ... },
         "remediationIssues": { ... },
         "resourceArn": "string",
         "resourceType": "string",
         "synchronizationStatus": "string",
         "updatedAt": "string"
      }
   ]
}
```

Response Elements

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

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

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

resourceSynchronizationStatuses

The list of resource synchronization statuses.

Type: Array of ResourceSynchronizationStatusSummary 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListDeployments

Lists the deployments in the account. You can filter the results by status and page through them using `maxResults` and `nextToken`.

Request Syntax

```
GET /deployments?maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

status

Filters the results by status: `ACTIVE`, `DRAFT`, or `DISABLED`.

Valid Values: `ACTIVE | DRAFT | DISABLED`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "deployments": [
      {
         "deploymentArn": "string",
         "deploymentId": "string",
         "deploymentName": "string",
         "hasPublishedVersion": boolean,
         "status": "string",
         "updatedAt": "string",
         "version": "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.

deployments

The list of deployments.

Type: Array of DeploymentSummary objects

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

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListDeploymentSnapshots

Lists the snapshots of the specified deployment.

Request Syntax

```
GET /deployments/deploymentIdentifier/snapshots?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

deploymentIdentifier

The identifier of the deployment. This is the deployment's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "nextToken": "string",
   "snapshots": [
      {
         "deploymentArn": "string",
         "deploymentId": "string",
         "deploymentName": "string",
         "hasPublishedVersion": boolean,
         "status": "string",
         "updatedAt": "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.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

snapshots

The snapshots of the deployment.

Type: Array of DeploymentSummary 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListEntityCoverages

Lists the protected resources that the specified Network Security Manager entity covers. You can filter the results to the resources owned by a single account and page through them. You must call this operation from the administrator account that owns the Network Security Manager entity.

Request Syntax

```
GET /resource-coverage/entities?
entityArn=entityArn&maxResults=maxResults&nextToken=nextToken&resourceOwnerAccountId=resourceOw
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

entityArn

The Amazon Resource Name (ARN) of the Network Security Manager entity to list covered resources for. The ARN must not include a `:DRAFT` qualifier.

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

maxResults

The maximum number of results to return in a single call. Valid range: 1–100. The default value is 100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

resourceOwnerAccountId

Filters the results to the protected resources owned by the specified AWS account.

Length Constraints: Fixed length of 12.

Pattern: `(?:[0-9]{12})`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "nextToken": "string",
   "resourceCoverages": [
      {
         "coverageStatus": "string",
         "deploymentArns": [ "string" ],
         "entityArn": "string",
         "entityType": "string",
         "firewallType": "string",
         "resourceArn": "string",
         "resourceOwnerAccountId": "string",
         "resourceType": "string",
         "updatedAt": "string"
      }
   ]
}
```

Response Elements

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

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

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

resourceCoverages

The list of resource coverages for the Network Security Manager entity.

Type: Array of ResourceCoverageSummary 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListPolicies

Lists the policies in the account. You can filter the results by status and page through them using `maxResults` and `nextToken`.

Request Syntax

```
GET /policies?maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

status

Filters the results by status, either `ACTIVE` or `DRAFT`.

Valid Values: `ACTIVE | DRAFT | DISABLED`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "nextToken": "string",
   "policies": [
      {
         "firewallType": "string",
         "hasPublishedVersion": boolean,
         "policyArn": "string",
         "policyId": "string",
         "policyName": "string",
         "priority": number,
         "status": "string",
         "updatedAt": "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.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

policies

The list of policies.

Type: Array of PolicySummary 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListPolicySnapshots

Lists the snapshots of the specified policy.

Request Syntax

```
GET /policies/policyIdentifier/snapshots?maxResults=maxResults&nextToken=nextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

policyIdentifier

The identifier of the policy. This is the policy's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "nextToken": "string",
   "snapshots": [
      {
         "firewallType": "string",
         "hasPublishedVersion": boolean,
         "policyArn": "string",
         "policyId": "string",
         "policyName": "string",
         "priority": number,
         "status": "string",
         "updatedAt": "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.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

snapshots

The snapshots of the policy.

Type: Array of PolicySummary 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListProtectedResourceCoverages

Lists the AWS Network Security Manager entities that cover the specified protected resource. You can filter the results by entity type and page through them. You must own the resource.

Request Syntax

```
GET /resource-coverage/protected-resources?
entityType=entityType&maxResults=maxResults&nextToken=nextToken&resourceArn=resourceArn
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

entityType

Filters the results by the type of the entity that covers the resource. The only supported value is `Policy`.

Valid Values: `Rule | Template | Policy | Deployment | Scope`

maxResults

The maximum number of results to return in a single call. Valid range: 1–100. The default value is 100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

resourceArn

The Amazon Resource Name (ARN) of the protected resource to list coverage for. You must own the resource.

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "nextToken": "string",
   "resourceCoverages": [
      {
         "coverageStatus": "string",
         "deploymentArns": [ "string" ],
         "entityArn": "string",
         "entityType": "string",
         "firewallType": "string",
         "resourceArn": "string",
         "resourceOwnerAccountId": "string",
         "resourceType": "string",
         "updatedAt": "string"
      }
   ]
}
```

Response Elements

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

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

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

resourceCoverages

The list of resource coverages for the protected resource.

Type: Array of ResourceCoverageSummary 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListResourceAssociations

Lists the resources associated with the specified resource.

Request Syntax

```
GET /resource-associations?
maxResults=maxResults&nextToken=nextToken&resourceIdentifier=resourceIdentifier
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

resourceIdentifier

The identifier of the resource to list associations for. This is the resource's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "nextToken": "string",
   "resourceAssociations": [
      {
         "arn": "string",
         "resourceType": "string"
      }
   ]
}
```

Response Elements

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

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

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

resourceAssociations

The list of resource associations.

Type: Array of ResourceAssociation 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListResourceSynchronizationStatuses

Lists the synchronization statuses of the resources covered by the specified deployment. You can filter the results by synchronization status and page through them.

Request Syntax

```
GET /resource-sync-statuses?
deploymentIdentifier=deploymentIdentifier&maxResults=maxResults&nextToken=nextToken&synchroniza
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

deploymentIdentifier

The identifier of the deployment to list synchronization statuses for. This is the deployment's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

synchronizationStatus

Filters the results by synchronization status, such as `IN_SYNC` or `OUT_OF_SYNC`.

Valid Values: `IN_SYNC | OUT_OF_SYNC | NOT_APPLICABLE`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "nextToken": "string",
   "resourceSynchronizationStatuses": [
      {
         "accountId": "string",
         "deploymentArn": "string",
         "evaluatedAt": "string",
         "outOfSyncReasons": { ... },
         "remediationIssues": { ... },
         "resourceArn": "string",
         "resourceType": "string",
         "synchronizationStatus": "string",
         "updatedAt": "string"
      }
   ]
}
```

Response Elements

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

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

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

resourceSynchronizationStatuses

The list of resource synchronization statuses.

Type: Array of ResourceSynchronizationStatusSummary 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListRules

Lists the rules in the account. You can filter the results by status and page through them using `maxResults` and `nextToken`.

Request Syntax

```
GET /rules?maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

status

Filters the results by status, either `ACTIVE` or `DRAFT`.

Valid Values: `ACTIVE | DRAFT | DISABLED`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "nextToken": "string",
   "rules": [
      {
         "firewallType": "string",
         "hasPublishedVersion": boolean,
         "ruleArn": "string",
         "ruleId": "string",
         "ruleName": "string",
         "ruleType": "string",
         "status": "string",
         "updatedAt": "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.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

rules

The list of rules.

Type: Array of RuleSummary 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListRuleSnapshots

Lists the snapshots of the specified rule.

Request Syntax

```
GET /rules/ruleIdentifier/snapshots?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

ruleIdentifier

The identifier of the rule. This is the rule's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "nextToken": "string",
   "snapshots": [
      {
         "firewallType": "string",
         "hasPublishedVersion": boolean,
         "ruleArn": "string",
         "ruleId": "string",
         "ruleName": "string",
         "ruleType": "string",
         "status": "string",
         "updatedAt": "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.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

snapshots

The snapshots of the rule.

Type: Array of RuleSummary 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListScopes

Lists the scopes in the account. You can filter the results by status and page through them using `maxResults` and `nextToken`.

Request Syntax

```
GET /scopes?maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

status

Filters the results by status: `ACTIVE`, `DRAFT`, or `DISABLED`.

Valid Values: `ACTIVE | DRAFT | DISABLED`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "nextToken": "string",
   "scopes": [
      {
         "hasPublishedVersion": boolean,
         "scopeArn": "string",
         "scopeId": "string",
         "scopeName": "string",
         "specializedScopeType": "string",
         "status": "string",
         "updatedAt": "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.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

scopes

The list of scopes.

Type: Array of ScopeSummary 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListScopeSnapshots

Lists the snapshots of the specified scope.

Request Syntax

```
GET /scopes/scopeIdentifier/snapshots?maxResults=maxResults&nextToken=nextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

scopeIdentifier

The identifier of the scope. This is the scope's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "nextToken": "string",
   "snapshots": [
      {
         "hasPublishedVersion": boolean,
         "scopeArn": "string",
         "scopeId": "string",
         "scopeName": "string",
         "specializedScopeType": "string",
         "status": "string",
         "updatedAt": "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.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

snapshots

The snapshots of the scope.

Type: Array of ScopeSummary 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListTagsForResource

Lists the tags associated with the specified resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The ARN of the resource to list tags for. The ARN must not include a `:DRAFT` qualifier.

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "tags": {
      "string" : "string"
   }
}
```

Response Elements

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

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

tags

The tags associated with the resource. Each tag is a key-value pair.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`

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

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)

- AWS SDK for Ruby V3

ListTemplates

Lists the templates in the account. You can filter the results by status and page through them using `maxResults` and `nextToken`.

Request Syntax

```
GET /templates?maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

status

Filters the results by status, either `ACTIVE` or `DRAFT`.

Valid Values: `ACTIVE | DRAFT | DISABLED`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "nextToken": "string",
   "templates": [
      {
         "firewallType": "string",
         "hasPublishedVersion": boolean,
         "status": "string",
         "templateArn": "string",
         "templateId": "string",
         "templateName": "string",
         "updatedAt": "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.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

templates

The list of templates.

Type: Array of TemplateSummary 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListTemplateSnapshots

Lists the snapshots of the specified template.

Request Syntax

```
GET /templates/templateIdentifier/snapshots?maxResults=maxResults&nextToken=nextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return in a single call. Valid range: 1-100. To retrieve the remaining results, use the returned `nextToken` value in a subsequent call.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

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

Pattern: `[0-9A-Za-z:/+=_-]+`

templateIdentifier

The identifier of the template. This is the template's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "nextToken": "string",
   "snapshots": [
      {
         "firewallType": "string",
         "hasPublishedVersion": boolean,
         "status": "string",
         "templateArn": "string",
         "templateId": "string",
         "templateName": "string",
         "updatedAt": "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.

nextToken

The token for the next page of results. To retrieve the next page, call the operation again and provide this value. When there are no more results, this value is null.

Type: String

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

Pattern: `[0-9A-Za-z:/+=_-]+`

snapshots

The snapshots of the template.

Type: Array of TemplateSummary 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

PutAdminAccount

Sets the AWS account that serves as an AWS Network Security Manager administrator account, and optionally configures the scope of resources that the administrator can manage.

You can't set an administrator account again immediately after you remove it, or while the service creates its service-linked role. Retry the request after a few minutes.

Request Syntax

```
PUT /admin-account HTTP/1.1
Content-type: application/json

{
   "accountId": "string",
   "adminScope": {
      "firewallTypeScope": {
         "allFirewallTypesEnabled": boolean,
         "firewallTypes": [ "string" ]
      },
      "scopeFilter": { ... }
   },
   "priority": number
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

accountId

The AWS account ID to set as the AWS Network Security Manager administrator account.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `(?:[0-9]{12})`

Required: Yes

adminScope

The scope of accounts, organizational units, and firewall types that the administrator can manage.

Type: AdminScopeInput object

Required: No

priority

The priority to assign to the administrator account.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: Yes

Response Syntax

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

{
   "adminAccountDetails": {
      "adminAccount": "string",
      "adminScope": {
         "firewallTypeScope": {
            "allFirewallTypesEnabled": boolean,
            "firewallTypes": [ "string" ]
         },
         "scopeFilter": { ... }
      },
      "priority": number,
      "status": "string"
   }
}
```

Response Elements

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

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

adminAccountDetails

The details of the administrator account that was set.

Type: AdminAccountDetails object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ServiceUnavailableException

The service is temporarily unavailable. This is a retryable error.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 503

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

TagResource

Adds or overwrites the specified tags on the given resource.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

{
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The ARN of the resource to tag. The ARN must not include a `:DRAFT` qualifier.

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

The tags to add to the resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`

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

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UntagResource

Removes the specified tags from the given resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The ARN of the resource to remove tags from. The ARN must not include a `:DRAFT` qualifier.

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

tagKeys

The keys of the tags to remove from the resource.

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

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

Pattern: `([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

TagPolicyViolationException

The request violates a tag policy that is in effect for the account or organization.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateDeployment

Updates the specified deployment. To prevent conflicting concurrent updates, provide the current `updateToken`. Use `isPublished` to publish the update or keep the deployment as a draft.

Request Syntax

```
PATCH /deployments/deploymentIdentifier HTTP/1.1
Content-type: application/json

{
   "associatedPolicyList": [
      {
         "policyIdentifier": "string"
      }
   ],
   "associatedScopeList": [
      {
         "scopeIdentifier": "string"
      }
   ],
   "clientToken": "string",
   "deploymentConfiguration": {
      "enableCrossAccountVisibility": boolean
   },
   "deploymentDescription": "string",
   "isPublished": boolean,
   "updateToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

deploymentIdentifier

The identifier of the deployment. This is the deployment's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

associatedPolicyList

The policies associated with the deployment.

Type: Array of PolicyReference objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: No

associatedScopeList

The scope associated with the deployment. A deployment has exactly one scope.

Type: Array of ScopeReference objects

Array Members: Fixed number of 1 item.

Required: No

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: `[\x21-\x7E]+`

Required: No

deploymentConfiguration

The configuration settings for the deployment.

Type: DeploymentConfiguration object

Required: No

deploymentDescription

A description of the deployment.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

Required: No

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (`ACTIVE`) state. When `false`, it is saved as a draft (`DRAFT`).

Type: Boolean

Required: Yes

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

Required: Yes

Response Syntax

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

{
   "associatedPolicyList": [
```

```
      {
         "policyArn": "string"
      }
   ],
   "associatedScopeList": [
      {
         "scopeArn": "string"
      }
   ],
   "deploymentArn": "string",
   "deploymentConfiguration": {
      "enableCrossAccountVisibility": boolean
   },
   "deploymentCoverage": [
      {
         "firewallType": "string",
         "inScopeResourceTypes": [ "string" ],
         "policyArns": [ "string" ]
      }
   ],
   "deploymentDescription": "string",
   "deploymentId": "string",
   "deploymentName": "string",
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "status": "string",
   "updatedAt": "string",
   "updateToken": "string",
   "version": "string",
   "warnings": [
      {
         "code": "string",
         "message": "string",
         "policyArn": "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.

associatedPolicyList

The policies associated with the deployment.

Type: Array of AssociatedPolicy objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

associatedScopeList

The scope associated with the deployment. A deployment has exactly one scope.

Type: Array of AssociatedScope objects

Array Members: Fixed number of 1 item.

deploymentArn

The Amazon Resource Name (ARN) of the deployment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

deploymentConfiguration

The configuration settings for the deployment.

Type: DeploymentConfiguration object

deploymentCoverage

The coverage information for the deployment. For each firewall type, it shows which policies have that firewall type and which in-scope resource types the firewall type protects.

Type: Array of DeploymentCoverageEntry objects

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

deploymentDescription

A description of the deployment.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

deploymentId

The service-generated id of the deployment.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

deploymentName

The name of the deployment.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

warnings

Warnings about potential issues, such as a policy that has no applicable resources in the deployment's scope.

Type: Array of DeploymentWarningEntry 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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdatePolicy

Updates the specified policy. To prevent conflicting concurrent updates, provide the current `updateToken`. Use `isPublished` to publish the update or keep the policy as a draft.

Request Syntax

```
PATCH /policies/policyIdentifier HTTP/1.1
Content-type: application/json

{
   "associatedTemplateAndRuleList": [
      { ... }
   ],
   "clientToken": "string",
   "isPublished": boolean,
   "policyConfiguration": {
      "igwFirewallConfig": {
         "defaultSubnetConnectivity": "string",
         "subnetConnectivityOverrides": [
            {
               "connectivityType": "string",
               "scopes": [ "string" ]
            }
         ]
      },
      "remediationEnabled": boolean,
      "resourcesCleanUp": boolean,
      "wafConfig": {
         "conflictResolution": "string",
         "existingCustomerWebACLResolution": "string"
      }
   },
   "policyDescription": "string",
   "priority": number,
   "updateToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

policyIdentifier

The identifier of the policy. This is the policy's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

associatedTemplateAndRuleList

The templates and rules to associate with the policy. For AWS WAF policies, specify 1 to 100 templates or rules, of which at most 2 can be templates. For AWS Shield Advanced policies, this list must be empty.

Type: Array of TemplateOrRuleReference objects

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

Required: No

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: `[\x21-\x7E]+`

Required: No

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (`ACTIVE`) state. When `false`, it is saved as a draft (`DRAFT`).

Type: Boolean

Required: Yes

policyConfiguration

The configuration settings that control the policy's behavior, including remediation and firewall-type-specific settings.

Type: PolicyConfiguration object

Required: No

policyDescription

A description of the policy.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

Required: No

priority

The priority of the resource. A lower number indicates a higher priority.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

Required: Yes

Response Syntax

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

{
   "associatedTemplateAndRuleList": [
      { ... }
   ],
   "firewallType": "string",
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "policyArn": "string",
   "policyConfiguration": {
      "igwFirewallConfig": {
         "defaultSubnetConnectivity": "string",
         "subnetConnectivityOverrides": [
            {
               "connectivityType": "string",
               "scopes": [ "string" ]
            }
         ]
      },
      "remediationEnabled": boolean,
      "resourcesCleanUp": boolean,
      "wafConfig": {
         "conflictResolution": "string",
         "existingCustomerWebACLResolution": "string"
      }
   },
   "policyDescription": "string",
   "policyId": "string",
   "policyName": "string",
   "priority": number,
   "status": "string",
   "updatedAt": "string",
   "updateToken": "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.

associatedTemplateAndRuleList

The templates and rules associated with the policy. For AWS WAF policies, this list contains 1 to 100 templates or rules, of which at most 2 can be templates. For AWS Shield Advanced policies, this list is empty.

Type: Array of AssociatedTemplateOrRule objects

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

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | SHIELD_ADVANCED | IGW_FIREWALL`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

policyArn

The Amazon Resource Name (ARN) of the policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

policyConfiguration

The configuration settings that control the policy's behavior, including remediation and firewall-type-specific settings.

Type: PolicyConfiguration object

policyDescription

A description of the policy.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

policyId

The service-generated id of the policy.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

policyName

The name of the policy.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

priority

The priority of the resource. A lower number indicates a higher priority.

Type: Integer

Valid Range: Minimum value of 1.

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)

- AWS SDK for Ruby V3

UpdateRule

Updates the specified rule. To prevent conflicting concurrent updates, provide the current `updateToken`. Use `isPublished` to publish the update or keep the rule as a draft.

Request Syntax

```
PATCH /rules/ruleIdentifier HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "configuration": JSON value,
   "isPublished": boolean,
   "ruleDescription": "string",
   "ruleType": "string",
   "updateToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

ruleIdentifier

The identifier of the rule. This is the rule's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: `[\x21-\x7E]+`

Required: No

configuration

The firewall configuration for the rule, as a JSON document. The structure depends on the rule's firewall type and rule type. For an AWS WAF `INSPECTION` rule, provide an AWS WAF rule group. For an AWS WAF `CONFIGURATION` rule, provide a single web ACL setting, such as `DefaultAction` or `VisibilityConfig`; use `wafConfigDataType` to declare which setting the document contains. For the schema of each setting and complete examples, see Writing rule configurations in the *AWS Network Security Manager Developer Guide*.

Type: JSON value

Required: No

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (`ACTIVE`) state. When `false`, it is saved as a draft (`DRAFT`).

Type: Boolean

Required: Yes

ruleDescription

A description of the rule.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

Required: No

ruleType

The type of the rule. `CONFIGURATION` rules contain firewall settings, and `INSPECTION` rules contain rule groups.

Type: String

Valid Values: `CONFIGURATION | INSPECTION`

Required: No

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

Required: Yes

Response Syntax

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

{
   "configuration": JSON value,
   "firewallType": "string",
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "ruleArn": "string",
   "ruleDescription": "string",
   "ruleId": "string",
   "ruleName": "string",
   "ruleType": "string",
   "status": "string",
   "updatedAt": "string",
   "updateToken": "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.

configuration

The firewall configuration for the rule, as a JSON document. The structure depends on the rule's firewall type and rule type.

Type: JSON value

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | IGW_FIREWALL`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

ruleArn

The Amazon Resource Name (ARN) of the rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

ruleDescription

A description of the rule.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

ruleId

The service-generated id of the rule.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

ruleName

The name of the rule.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

ruleType

The type of the rule. `CONFIGURATION` rules contain firewall settings, and `INSPECTION` rules contain rule groups.

Type: String

Valid Values: `CONFIGURATION | INSPECTION`

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateScope

Updates the specified scope. To prevent conflicting concurrent updates, provide the current `updateToken`. Use `isPublished` to publish the update or keep the scope as a draft.

Request Syntax

```
PATCH /scopes/scopeIdentifier HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "isPublished": boolean,
   "scopeConfiguration": {
      "accountFilter": { ... },
      "resourceScopes": {
         "string" : {
            "exclude": {
               "explicitArns": [ "string" ],
               "expression": { ... }
            },
            "include": {
               "explicitArns": [ "string" ],
               "expression": { ... }
            },
            "includeAll": boolean
         }
      }
   },
   "scopeDescription": "string",
   "updateToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

scopeIdentifier

The identifier of the scope. This is the scope's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: `[\x21-\x7E]+`

Required: No

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (`ACTIVE`) state. When `false`, it is saved as a draft (`DRAFT`).

Type: Boolean

Required: Yes

scopeConfiguration

The configuration that defines which accounts and resources are in scope. If you don't include this member, the scope keeps its existing configuration.

A new configuration can change which accounts and resources are selected, but it can't add or remove the account filter itself: a scope created for multi-account use stays multi-account, and a scope created for single-account use stays single-account.

Type: ScopeConfiguration object

Required: No

scopeDescription

A description of the scope.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

Required: No

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

Required: Yes

Response Syntax

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

{
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "scopeArn": "string",
   "scopeConfiguration": {
      "accountFilter": { ... },
      "resourceScopes": {
         "string" : {
            "exclude": {
               "explicitArns": [ "string" ],
               "expression": { ... }
```

```
            },
            "include": {
               "explicitArns": [ "string" ],
               "expression": { ... }
            },
            "includeAll": boolean
         }
      }
   },
   "scopeDescription": "string",
   "scopeId": "string",
   "scopeName": "string",
   "specializedScopeType": "string",
   "status": "string",
   "updatedAt": "string",
   "updateToken": "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.

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

scopeArn

The Amazon Resource Name (ARN) of the scope.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

scopeConfiguration

The configuration that defines which accounts and resources are in scope.

Type: ScopeConfiguration object

scopeDescription

A description of the scope.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

scopeId

The service-generated id of the scope.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

scopeName

The name of the scope.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

specializedScopeType

The specialized type of the scope, if the scope is built for one specific purpose. A scope with no `specializedScopeType` is a standard scope that you can associate with a deployment. A specialized scope can be used only for the purpose that its type defines and can't be associated with a deployment. This value is set when the scope is created and can't be changed.

Type: String

Valid Values: `IGW_FIREWALL_SUBNET_CONNECTIVITY_OVERRIDE`

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateTemplate

Updates the specified template. To prevent conflicting concurrent updates, provide the current `updateToken`. Use `isPublished` to publish the update or keep the template as a draft.

Request Syntax

```
PATCH /templates/templateIdentifier HTTP/1.1
Content-type: application/json

{
   "associatedRuleList": [
      {
         "ruleIdentifier": "string"
      }
   ],
   "clientToken": "string",
   "isPublished": boolean,
   "templateDescription": "string",
   "updateToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

templateIdentifier

The identifier of the template. This is the template's Amazon Resource Name (ARN).

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: Yes

Request Body

The request accepts the following data in JSON format.

associatedRuleList

The rules associated with the template.

Type: Array of RuleReference objects

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

Required: No

clientToken

A unique, case-sensitive token that you provide to ensure that the operation completes no more than one time. If you retry a request with the same client token and the same parameters, the service returns the result of the original successful request.

Type: String

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

Pattern: `[\x21-\x7E]+`

Required: No

isPublished

Specifies whether to publish the resource. When `true`, the resource is saved in published (`ACTIVE`) state. When `false`, it is saved as a draft (`DRAFT`).

Type: Boolean

Required: Yes

templateDescription

A description of the template.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

Required: No

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

Required: Yes

Response Syntax

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

{
   "associatedRuleList": [
      {
         "ruleArn": "string"
      }
   ],
   "firewallType": "string",
   "hasPublishedVersion": boolean,
   "isSnapshot": boolean,
   "status": "string",
   "templateArn": "string",
   "templateDescription": "string",
   "templateId": "string",
   "templateName": "string",
   "updatedAt": "string",
   "updateToken": "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.

associatedRuleList

The rules associated with the template.

Type: Array of AssociatedRule objects

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

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | IGW_FIREWALL`

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

isSnapshot

Specifies whether the resource is a snapshot of a published version.

Type: Boolean

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

templateArn

The Amazon Resource Name (ARN) of the template.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

templateDescription

A description of the template.

Type: String

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

Pattern: `[a-zA-Z0-9 _.:/=+\-@]*`

templateId

The service-generated id of the template.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

templateName

The name of the template.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

updatedAt

The time when the resource was last updated.

Type: Timestamp

updateToken

A token used for optimistic concurrency control. Each read and write returns an `updateToken`. Provide the most recent value on your next update to detect and prevent conflicting concurrent modifications.

Type: String

Length Constraints: Fixed length of 36.

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

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

The request conflicts with the current state of the resource. For example, the resource was modified concurrently, or it is in a state that does not allow the requested operation.

resourceId

The ID of the resource that is in conflict with the request.

resourceType

The type of the resource that is in conflict with the request.

HTTP Status Code: 409

InternalServerException

The request processing failed because of an internal error in the service. This is a retryable error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found. Verify that the resource identifier is correct and that the resource exists, then try your request again.

resourceId

The ID of the resource that could not be found.

resourceType

The type of the resource that could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would exceed a service quota.

quotaCode

The code that identifies the service quota that was exceeded.

resourceId

The ID of the resource associated with the quota that was exceeded.

resourceType

The type of the resource associated with the quota that was exceeded.

serviceCode

The code for the AWS service that owns the quota that was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Reduce your request rate and try again.

retryAfterSeconds

The number of seconds to wait before retrying the request.

HTTP Status Code: 429

ValidationException

The request failed validation. For details, see the `reason` and `fieldList` members of the response.

fieldList

The list of request fields that failed validation, if any.

reason

The reason that the request failed validation.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

Data Types

The AWS Network Security Manager Customer API 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:

- AccountFilter
- AccountReference
- AccountSet
- AdminAccountDetails
- AdminAccountSummary
- AdminFirewallTypeScope
- AdminScope
- AdminScopeFilter
- AdminScopeFilterInput
- AdminScopeInput
- AdminScopeSelection
- AdminScopeSelectionInput
- AlbConfiguration
- AssociatedPolicy
- AssociatedRule
- AssociatedScope
- AssociatedTemplateOrRule
- ConfigurationIssue
- DeploymentConfiguration
- DeploymentCoverageEntry

- DeploymentSummary
- DeploymentWarningEntry
- FirewallSyncReason
- IgwFirewallConfig
- InvalidFirewallReasons
- InvalidResourceIssue
- NotVisibleMarker
- OrganizationalUnitReference
- OutOfSyncReasonsView
- PolicyConfiguration
- PolicyReference
- PolicySummary
- RemediationIssueDetails
- RemediationIssuesView
- ResourceAssociation
- ResourceCoverageSummary
- ResourceCriteria
- ResourceLogicalExpression
- ResourceScope
- ResourceSet
- ResourceSynchronizationStatusSummary
- RuleReference
- RuleSummary
- ScopeConfiguration
- ScopeReference
- ScopeSummary
- SubnetConnectivityOverride
- TemplateOrRuleReference
- TemplateSummary
- ValidationExceptionField

- WafConfig

AccountFilter

Determines which accounts are in scope. Exactly one of `includeAll`, `include`, or `exclude` is set.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

exclude

Excludes the specified accounts and organizational units. All others are in scope.

Type: AccountSet object

Required: No

include

Includes only the specified accounts and organizational units.

Type: AccountSet object

Required: No

includeAll

Includes all accounts. No account filtering is applied.

Type: Structure

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

AccountReference

A reference to an AWS account, with optional display metadata.

Contents

accountId

The AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `(?:[0-9]{12})`

Required: Yes

email

The email address associated with the account.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 64.

Required: No

name

The display name of the account.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

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

AccountSet

A set of AWS accounts and organizational units.

Contents

accountIds

The list of AWS account IDs.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

Length Constraints: Fixed length of 12.

Pattern: `(?:[0-9]{12})`

Required: No

organizationalUnits

The AWS Organizations organizational units (OUs) in the selection.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

Length Constraints: Minimum length of 0. Maximum length of 68.

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

AdminAccountDetails

The details of an AWS Network Security Manager administrator account.

Contents

adminAccount

The AWS account ID of the administrator account.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `(?:[0-9]{12})`

Required: Yes

priority

The priority assigned to the administrator account.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: Yes

adminScope

The administrative scope, which defines the accounts, organizational units, and firewall types that the administrator can manage.

Type: AdminScope object

Required: No

status

The status of the administrator account, either `ONBOARDED` or `OFFBOARDED`.

Type: String

Valid Values: `ONBOARDED | OFFBOARDED`

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

AdminAccountSummary

Summary information about an AWS Network Security Manager administrator account.

Contents

accountId

The AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `(?:[0-9]{12})`

Required: Yes

email

The email address associated with the account.

Type: String

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

Required: No

name

The name of the administrator account.

Type: String

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

Required: No

priority

The priority assigned to the administrator account.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

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

AdminFirewallTypeScope

Defines the firewall types that an administrator can create and manage.

Contents

allFirewallTypesEnabled

Specifies whether the administrator can manage all firewall types, except for third-party firewall types.

Type: Boolean

Required: No

firewallTypes

The list of firewall types that the administrator can manage.

Type: Array of strings

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

Valid Values: `WAF | SHIELD_ADVANCED | IGW_FIREWALL`

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

AdminScope

Defines the accounts, organizational units, and firewall types that an administrator can manage.

Contents

firewallTypeScope

The firewall types that the administrator can create and manage.

Type: AdminFirewallTypeScope object

Required: No

scopeFilter

The filter that determines which accounts and organizational units are in the administrator's scope.

Type: AdminScopeFilter object

Note: This object is a Union. Only one member of this object can be specified or returned.

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

AdminScopeFilter

Determines which accounts and organizational units are in an administrator's scope. This is the reference form, which includes display metadata.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

excludeOnly

The accounts and organizational units to exclude from the administrator's scope. All others are in scope.

Type: AdminScopeSelection object

Required: No

includeAll

All accounts and organizational units are in scope.

Type: Structure

Required: No

includeOnly

Only the specified accounts and organizational units are in the administrator's scope.

Type: AdminScopeSelection object

Required: No

See Also

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

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

AdminScopeFilterInput

Determines which accounts and organizational units are in an administrator's scope. This is the input form, which uses account and organizational unit IDs.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

excludeOnly

The accounts and organizational units to exclude from the administrator's scope. All others are in scope.

Type: AdminScopeSelectionInput object

Required: No

includeAll

All accounts and organizational units are in scope.

Type: Structure

Required: No

includeOnly

Only the specified accounts and organizational units are in the administrator's scope.

Type: AdminScopeSelectionInput object

Required: No

See Also

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

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

AdminScopeInput

The administrative scope configuration provided on input, using account and organizational unit IDs.

Contents

firewallTypeScope

The firewall types that the administrator can create and manage.

Type: AdminFirewallTypeScope object

Required: No

scopeFilter

The filter that determines which accounts and organizational units are in the administrator's scope.

Type: AdminScopeFilterInput object

Note: This object is a Union. Only one member of this object can be specified or returned.

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

AdminScopeSelection

A selection of accounts and organizational units. This is the reference form, which includes display metadata.

Contents

accounts

The AWS accounts in the selection.

Type: Array of AccountReference objects

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

Required: No

organizationalUnits

The AWS Organizations organizational units (OUs) in the selection.

Type: Array of OrganizationalUnitReference objects

Array Members: Minimum number of 0 items. Maximum number of 1000 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

AdminScopeSelectionInput

A selection of accounts and organizational units. This is the input form, which uses account and organizational unit IDs.

Contents

accounts

The AWS accounts in the selection.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

Length Constraints: Fixed length of 12.

Pattern: `(?:[0-9]{12})`

Required: No

organizationalUnits

The AWS Organizations organizational units (OUs) in the selection.

Type: Array of strings

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

Length Constraints: Minimum length of 16. Maximum length of 68.

Pattern: `(ou-[0-9a-z]{4,32}-[a-z0-9]{8,32})`

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

AlbConfiguration

Filter criteria specific to Application Load Balancers.

Contents

ipAddressType

The IP address type of the Application Load Balancer.

Type: String

Valid Values: `ipv4 | dualstack | dualstack-without-public-ipv4`

Required: No

scheme

The scheme of the Application Load Balancer, either `internet-facing` or `internal`.

Type: String

Valid Values: `internet-facing | internal`

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

AssociatedPolicy

An association between a deployment and a policy, as returned in outputs. The corresponding request structure is `PolicyReference`.

Contents

policyArn

The ARN of the associated policy, including its version qualifier when a specific published version is pinned (for example, `...:policy:abc123:3`).

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

See Also

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

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

AssociatedRule

An association between a template and a rule, as returned in outputs. The corresponding request structure is `RuleReference`.

Contents

ruleArn

The ARN of the associated rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

See Also

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

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

AssociatedScope

An association between a deployment and a scope, as returned in outputs. The corresponding request structure is `ScopeReference`.

Contents

scopeArn

The ARN of the associated scope.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

See Also

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

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

AssociatedTemplateOrRule

An association between a policy and either a template or a rule, as returned in outputs. Exactly one of `templateArn` or `ruleArn` is set. The corresponding request structure is `TemplateOrRuleReference`.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

ruleArn

The ARN of the associated rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: No

templateArn

The ARN of the associated template.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: No

See Also

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

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

ConfigurationIssue

Describes a single configuration value that does not match the intended configuration.

Contents

actualValue

The configuration value that was found on the resource.

Type: String

Required: No

configurationName

The name of the configuration setting that is in conflict.

Type: String

Required: No

expectedValue

The configuration value that AWS Network Security Manager expected.

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

DeploymentConfiguration

Configuration settings that control a deployment's behavior.

Contents

enableCrossAccountVisibility

Specifies whether aggregate synchronization status details for the resources covered by this deployment are visible across accounts. Default: `false`.

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

DeploymentCoverageEntry

Coverage information for one firewall type within a deployment. It lists the deployment's policies that have this firewall type. It also lists the resource types in the deployment's scope that the firewall type protects.

Contents

firewallType

The firewall type that the policies in this entry share.

Type: String

Valid Values: `WAF | SHIELD_ADVANCED | IGW_FIREWALL`

Required: Yes

inScopeResourceTypes

The resource types in the deployment's scope that this firewall type protects. This list is empty if the scope does not select any resource types that the firewall type protects.

Type: Array of strings

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

Valid Values: `AWS::ApiGateway::Stage | AWS::CloudFront::Distribution | AWS::EC2::EIP | AWS::ElasticLoadBalancingV2::LoadBalancer::application | AWS::ElasticLoadBalancing::LoadBalancer | AWS::EC2::VPC | AWS::EC2::Subnet`

Required: Yes

policyArns

The Amazon Resource Names (ARNs) of the deployment's policies that have this firewall type.

Type: Array of strings

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

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

See Also

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

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

DeploymentSummary

Summary information about a deployment.

Contents

deploymentArn

The Amazon Resource Name (ARN) of the deployment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

deploymentId

The service-generated id of the deployment.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

Required: Yes

deploymentName

The name of the deployment.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

Required: No

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

Required: No

status

The current status of the resource: `DRAFT` (unpublished, editable), `ACTIVE` (published, in use), or `DISABLED` (deactivated; changes cannot be published until the resource is re-enabled).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

Required: No

updatedAt

The time when the resource was last updated. For a snapshot, this is the time when the snapshot was created.

Type: Timestamp

Required: No

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

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

DeploymentWarningEntry

A warning about a potential issue with a deployment.

Contents

code

A code that identifies the type of warning.

Type: String

Required: Yes

message

A human-readable description of the warning.

Type: String

Required: Yes

policyArn

The ARN of the policy that the warning relates to.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

FirewallSyncReason

Describes why a firewall is out of sync. Exactly one of `missingFirewall`, `invalidFirewall`, or `invalidResource` contains a value.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

invalidFirewall

Details about a firewall whose configuration does not match the intended configuration.

Type: InvalidFirewallReasons object

Required: No

invalidResource

A map of related resources whose configuration does not match the intended configuration, grouped by resource type. Each entry lists the resources of that type that are out of sync. For example, subnets whose connectivity type differs from the connectivity type that the policy specifies.

Type: String to array of InvalidResourceIssue objects map

Map Entries: Minimum number of 0 items. Maximum number of 10 items.

Valid Keys: `AWS::ApiGateway::Stage | AWS::CloudFront::Distribution | AWS::EC2::EIP | AWS::ElasticLoadBalancingV2::LoadBalancer::application | AWS::ElasticLoadBalancing::LoadBalancer | AWS::EC2::VPC | AWS::EC2::Subnet`

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

Required: No

missingFirewall

Indicates that an expected firewall is missing. The value describes the missing firewall.

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

IgwFirewallConfig

Policy configuration settings for Network Firewall automated internet firewall policies.

Contents

defaultSubnetConnectivity

The default internet connectivity treatment that AWS Network Security Manager applies to subnets in scope, unless a subnet connectivity override applies. Required for Network Firewall automated internet firewall policies. Valid values:

- `flexible` – Sets the connectivity for each network interface in the subnet based on whether it is associated with a public IP address. A network interface with a public IP address gets bidirectional internet connectivity. A network interface without a public IP address gets outbound-only connectivity. All traffic is inspected against your firewall rules.
- `bidirectional` – Provides bidirectional internet connectivity to every network interface that has a public IP association. Any network interface without a public IP cannot communicate with the internet unless a NAT device is explicitly inserted in the path. All inbound and outbound traffic is inspected against your firewall rules.
- `outbound-only` – Provides egress-only connectivity for all network interfaces in the subnet. All outbound traffic and inbound responses are inspected against your firewall rules. Unsolicited inbound connections are dropped. For IPv4 traffic, the Network Firewall automated internet firewall performs NAT.

Type: String

Valid Values: `flexible | bidirectional | outbound-only`

Required: No

subnetConnectivityOverrides

An ordered list of overrides that apply a different connectivity treatment to the subnets that a scope selects. When a subnet matches more than one override, the first matching override in the list applies. You can specify at most one override for each connectivity type.

Type: Array of SubnetConnectivityOverride objects

Array Members: Minimum number of 0 items. Maximum number of 4 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

InvalidFirewallReasons

Details about the ways in which a firewall's configuration differs from the intended configuration.

Contents

incorrectAppendableConfigurationOrder

Appendable configuration values that are present but in the wrong order.

Type: Array of ConfigurationIssue objects

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

Required: No

incorrectSingleValueConfigurations

Single-value configuration settings whose values do not match the expected values.

Type: Array of ConfigurationIssue objects

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

Required: No

missingAppendableConfigurationValues

Appendable configuration values that are expected but missing.

Type: Array of ConfigurationIssue objects

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

Required: No

missingMergeableConfigurationValues

Mergeable configuration values that are expected but missing.

Type: Array of ConfigurationIssue objects

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

Required: No

unexpectedAppendableConfigurationValues

Appendable configuration values that are present but not expected.

Type: Array of ConfigurationIssue objects

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

Required: No

unexpectedMergeableConfigurationValues

Mergeable configuration values that are present but not expected.

Type: Array of ConfigurationIssue objects

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

InvalidResourceIssue

Describes a single related resource whose configuration does not match the intended configuration.

Contents

actualValue

The current attribute value on the resource.

Type: String

Required: No

expectedValue

The attribute value that the policy configuration requires, such as the connectivity type for a subnet.

Type: String

Required: No

resourceId

The identifier of the resource, such as a subnet ARN.

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

NotVisibleMarker

Indicates that details are not visible because of cross-account restrictions.

Contents

reason

The reason the details are not visible.

Type: String

Required: Yes

See Also

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

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

OrganizationalUnitReference

A reference to an AWS Organizations organizational unit (OU), with optional display metadata.

Contents

ouId

The ID of the AWS Organizations organizational unit (OU).

Type: String

Length Constraints: Minimum length of 16. Maximum length of 68.

Pattern: `(ou-[0-9a-z]{4,32}-[a-z0-9]{8,32})`

Required: Yes

name

The display name of the organizational unit.

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

OutOfSyncReasonsView

The out-of-sync reasons for a resource, or a marker indicating that the details are not visible. Exactly one member is set.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

notVisible

Indicates that the details are not visible because of cross-account restrictions.

Type: NotVisibleMarker object

Required: No

reasons

The out-of-sync reasons, keyed by firewall type.

Type: String to FirewallSyncReason object map

Map Entries: Minimum number of 0 items. Maximum number of 10 items.

Valid Keys: `WAF | SHIELD_ADVANCED | IGW_FIREWALL`

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

PolicyConfiguration

Configuration settings that control a policy's behavior.

Contents

remediationEnabled

Specifies whether AWS Network Security Manager automatically remediates noncompliant resources. Default: `false`.

Type: Boolean

Required: Yes

resourcesCleanUp

Specifies whether AWS Network Security Manager automatically removes the resources it created when they are no longer needed. This member is required, and the only supported value is `true`.

Type: Boolean

Required: Yes

igwFirewallConfig

Policy settings for Network Firewall automated internet firewall policies. Specify these settings only for this policy type.

Type: IgwFirewallConfig object

Required: No

wafConfig

AWS WAF-specific policy settings. This is populated only for AWS WAF policies.

Type: WafConfig object

Required: No

See Also

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

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

PolicyReference

A reference to a policy in a create or update request.

Contents

policyIdentifier

The identifier of the policy. This is the policy's Amazon Resource Name (ARN), optionally version-qualified to pin a specific published version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1010.

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

PolicySummary

Summary information about a policy.

Contents

policyArn

The Amazon Resource Name (ARN) of the policy.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

policyId

The service-generated id of the policy.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

Required: Yes

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | SHIELD_ADVANCED | IGW_FIREWALL`

Required: No

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

Required: No

policyName

The name of the policy.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

Required: No

priority

The priority of the resource. A lower number indicates a higher priority.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

Required: No

updatedAt

The time when the resource was last updated. For a snapshot, this is the time when the snapshot was created.

Type: Timestamp

Required: No

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

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

RemediationIssueDetails

Details about a remediation issue for a firewall type.

Contents

correctiveAction

A recommended action for resolving the remediation issue.

Type: String

Required: No

issueType

The type of remediation issue.

Type: String

Required: No

message

A human-readable description of the remediation issue.

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

RemediationIssuesView

Remediation issue details for a resource, or a marker indicating that the details are not visible. Exactly one member is set.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

issues

The remediation issues, keyed by firewall type.

Type: String to RemediationIssueDetails object map

Map Entries: Minimum number of 0 items. Maximum number of 10 items.

Valid Keys: `WAF | SHIELD_ADVANCED | IGW_FIREWALL`

Required: No

notVisible

Indicates that the details are not visible because of cross-account restrictions.

Type: NotVisibleMarker object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

ResourceAssociation

Describes an association between a resource and another entity.

Contents

arn

The ARN of the associated resource.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

resourceType

The type of the associated resource, such as `Policy`, `Template`, or `Deployment`.

Type: String

Valid Values: `Rule | Template | Policy | Deployment | Scope`

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

ResourceCoverageSummary

Describes how an AWS Network Security Manager entity covers a protected resource.

Contents

coverageStatus

Specifies whether the entity contributes to the effective configuration of the resource for its firewall type. For firewall types that combine policies, such as AWS WAF and AWS Shield Advanced, every policy that covers the resource is `IN_EFFECT`. For firewall types that apply a single policy, only the highest-priority policy is `IN_EFFECT` and the others are `SUPERSEDED`.

Type: String

Valid Values: `IN_EFFECT | SUPERSEDED`

Required: No

deploymentArns

The Amazon Resource Names (ARNs) of the deployments through which the entity covers the resource.

Type: Array of strings

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

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: No

entityArn

The Amazon Resource Name (ARN) of the entity that covers the resource.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: No

entityType

The type of the entity that covers the resource, such as `Policy`.

Type: String

Valid Values: `Rule | Template | Policy | Deployment | Scope`

Required: No

firewallType

The firewall type of the policy that covers the resource. This is present when `entityType` is `Policy`.

Type: String

Valid Values: `WAF | SHIELD_ADVANCED | IGW_FIREWALL`

Required: No

resourceArn

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: No

resourceOwnerAccountId

The AWS account ID that owns the protected resource. This can differ from the account that owns the entity.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `(?:[0-9]{12})`

Required: No

resourceType

The type of the protected resource, in AWS CloudFormation format.

Type: String

Valid Values: `AWS::ApiGateway::Stage | AWS::CloudFront::Distribution | AWS::EC2::EIP | AWS::ElasticLoadBalancingV2::LoadBalancer::application | AWS::ElasticLoadBalancing::LoadBalancer | AWS::EC2::VPC | AWS::EC2::Subnet`

Required: No

updatedAt

The time when AWS Network Security Manager last evaluated the coverage.

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

ResourceCriteria

A leaf condition that matches resources by tag or by resource-type-specific configuration.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

albConfig

Filter criteria specific to Application Load Balancers.

Type: AlbConfiguration object

Required: No

tags

Tag key-value pairs used to match resources.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 100 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

ResourceLogicalExpression

A logical expression that selects resources. Exactly one of `criteria`, and, `or`, or `not` is set.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

and

A list of subexpressions that must all match.

Type: Array of ResourceLogicalExpression objects

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

Required: No

criteria

A leaf condition that matches resources by tag or by resource-type-specific configuration.

Type: ResourceCriteria object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

not

A subexpression that must not match.

Type: ResourceLogicalExpression object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

or

A list of subexpressions of which at least one must match.

Type: Array of ResourceLogicalExpression objects

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

ResourceScope

Defines which resources of a given type are in scope. Exactly one of `includeAll`, `include`, or `exclude` is set.

Contents

exclude

Excludes the resources that match the specified criteria or explicit ARNs.

Type: ResourceSet object

Required: No

include

Includes the resources that match the specified criteria or explicit ARNs.

Type: ResourceSet object

Required: No

includeAll

Includes all resources of the resource type.

Type: Boolean

Required: No

See Also

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

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

ResourceSet

A set of resources defined by explicit ARNs, a logical expression, or both.

Contents

explicitArns

An explicit list of resource ARNs.

Type: Array of strings

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

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: No

expression

A logical expression that selects resources by combining criteria with AND, OR, and NOT operators.

Type: ResourceLogicalExpression object

Note: This object is a Union. Only one member of this object can be specified or returned.

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

ResourceSynchronizationStatusSummary

The synchronization status of a resource covered by a deployment.

Contents

accountId

The AWS account ID that owns the resource.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `(?:[0-9]{12})`

Required: Yes

resourceArn

The ARN of the resource whose synchronization status is reported.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

synchronizationStatus

The synchronization status of the resource, such as `IN_SYNC` or `OUT_OF_SYNC`.

Type: String

Valid Values: `IN_SYNC | OUT_OF_SYNC | NOT_APPLICABLE`

Required: Yes

updatedAt

The time when the resource was last updated.

Type: Timestamp

Required: Yes

deploymentArn

The ARN of the deployment that the synchronization status is associated with. This is absent for aggregate (cross-deployment) statuses.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: No

evaluatedAt

The time when the synchronization status was last evaluated.

Type: Timestamp

Required: No

outOfSyncReasons

The reasons the resource is out of sync, keyed by firewall type. This is null when the resource is in sync.

Type: OutOfSyncReasonsView object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

remediationIssues

Details about remediation issues, keyed by firewall type. This is null when there are no remediation issues.

Type: RemediationIssuesView object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

resourceType

The type of the resource, in AWS CloudFormation format.

Type: String

Valid Values: `AWS::ApiGateway::Stage | AWS::CloudFront::Distribution | AWS::EC2::EIP | AWS::ElasticLoadBalancingV2::LoadBalancer::application | AWS::ElasticLoadBalancing::LoadBalancer | AWS::WAFv2::WebACL | AWS::Shield::Protection | AWS::ShieldRegional::Protection | AWS::EC2::VPC`

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

RuleReference

A reference to a rule in a create or update request.

Contents

ruleIdentifier

The identifier of the rule. This is the rule's Amazon Resource Name (ARN).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1010.

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

RuleSummary

Summary information about a rule.

Contents

ruleArn

The Amazon Resource Name (ARN) of the rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

ruleId

The service-generated id of the rule.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

Required: Yes

ruleName

The name of the rule.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

Required: Yes

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | IGW_FIREWALL`

Required: No

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

Required: No

ruleType

The type of the rule. `CONFIGURATION` rules contain firewall settings, and `INSPECTION` rules contain rule groups.

Type: String

Valid Values: `CONFIGURATION | INSPECTION`

Required: No

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

Required: No

updatedAt

The time when the resource was last updated. For a snapshot, this is the time when the snapshot was created.

Type: Timestamp

Required: No

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

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

ScopeConfiguration

Defines which accounts and resources are in scope.

Contents

resourceScopes

The resource-level scoping configuration, keyed by resource type, that defines which resources within the selected accounts are in scope.

Type: String to ResourceScope object map

Map Entries: Minimum number of 0 items. Maximum number of 20 items.

Valid Keys: `AWS::ApiGateway::Stage | AWS::CloudFront::Distribution | AWS::EC2::EIP | AWS::ElasticLoadBalancingV2::LoadBalancer::application | AWS::ElasticLoadBalancing::LoadBalancer | AWS::EC2::VPC | AWS::EC2::Subnet`

Required: Yes

accountFilter

The account filter that determines which accounts are in scope. When set, exactly one of `includeAll`, `include`, or `exclude` is set.

Organization administrators must include an account filter in every scope configuration. Single-account administrators must omit it: a scope without an account filter applies only to the administrator's own account. The presence of an account filter is fixed when the scope is created: an update can't add an account filter to a scope that was created without one, or remove the account filter from a scope that was created with one.

Type: AccountFilter object

Note: This object is a Union. Only one member of this object can be specified or returned.

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

ScopeReference

A reference to a scope in a create or update request.

Contents

scopeIdentifier

The identifier of the scope. This is the scope's Amazon Resource Name (ARN).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1010.

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

ScopeSummary

Summary information about a scope.

Contents

scopeArn

The Amazon Resource Name (ARN) of the scope.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

scopeId

The service-generated id of the scope.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

Required: Yes

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

Required: No

scopeName

The name of the scope.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

Required: No

specializedScopeType

The specialized type of the scope, if the scope is built for one specific purpose. A scope with no `specializedScopeType` is a standard scope that you can associate with a deployment. A specialized scope can be used only for the purpose that its type defines and can't be associated with a deployment. This value is set when the scope is created and can't be changed.

Type: String

Valid Values: `IGW_FIREWALL_SUBNET_CONNECTIVITY_OVERRIDE`

Required: No

status

The current status of the resource: `DRAFT` (unpublished, editable), `ACTIVE` (published, in use), or `DISABLED` (deactivated; changes cannot be published until the resource is re-enabled).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

Required: No

updatedAt

The time when the resource was last updated. For a snapshot, this is the time when the snapshot was created.

Type: Timestamp

Required: No

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

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

SubnetConnectivityOverride

An override that applies a connectivity treatment to the subnets that a scope selects, instead of the policy's `defaultSubnetConnectivity`.

Contents

connectivityType

The connectivity treatment to apply to the selected subnets. You select both the override value as well as the subnets they apply to. The Network Firewall automated internet firewall applies the override value to the specified subnets, and applies the default connectivity to the rest of the subnets. Valid values:

- `flexible` – Sets the connectivity for each network interface in the subnet based on whether it is associated with a public IP address. A network interface with a public IP address gets bidirectional internet connectivity. A network interface without a public IP address gets outbound-only connectivity. All traffic is inspected against your firewall rules.
- `bidirectional` – Provides bidirectional internet connectivity to every network interface that has a public IP association. Any network interface without a public IP cannot communicate with the internet unless a NAT device is explicitly inserted in the path. All inbound and outbound traffic is inspected against your firewall rules.
- `outbound-only` – Provides egress-only connectivity for all network interfaces in the subnet. All outbound traffic and inbound responses are inspected against your firewall rules. Unsolicited inbound connections are dropped. For IPv4 traffic, the Network Firewall automated internet firewall performs NAT.
- `exclude` – The Network Firewall automated internet firewall doesn't inspect traffic for the selected subnets. The subnets bypass the firewall entirely, and their traffic passes directly through the internet gateway. You can specify this value only in an override, not as the `defaultSubnetConnectivity`.

Type: String

Valid Values: `flexible | bidirectional | outbound-only | exclude`

Required: Yes

scopes

A list that contains the Amazon Resource Name (ARN) of the scope that selects the subnets to override. The list must contain exactly one scope ARN. The deployment determines which accounts are in scope, and the referenced scope selects subnets within those accounts.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

See Also

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

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

TemplateOrRuleReference

A reference to either a template or a rule in a create or update request. Set exactly one of `templateIdentifier` or `ruleIdentifier`.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

ruleIdentifier

The identifier of the rule. This is the rule's Amazon Resource Name (ARN).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1010.

Required: No

templateIdentifier

The identifier of the template. This is the template's Amazon Resource Name (ARN).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1010.

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

TemplateSummary

Summary information about a template.

Contents

templateArn

The Amazon Resource Name (ARN) of the template.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 1010.

Pattern: `arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:(.+)`

Required: Yes

templateId

The service-generated id of the template.

Type: String

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

Pattern: `[a-z0-9]{1,64}`

Required: Yes

templateName

The name of the template.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9 _.:/=+\-@]*`

Required: Yes

firewallType

The firewall type associated with the resource.

Type: String

Valid Values: `WAF | IGW_FIREWALL`

Required: No

hasPublishedVersion

Specifies whether a published version of the resource exists.

Type: Boolean

Required: No

status

The current status of the resource: `DRAFT` (unpublished, editable) or `ACTIVE` (published, in use).

Type: String

Valid Values: `DRAFT | ACTIVE | DISABLED`

Required: No

updatedAt

The time when the resource was last updated. For a snapshot, this is the time when the snapshot was created.

Type: Timestamp

Required: No

version

The version of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10.

Pattern: `[1-9][0-9]*`

Required: No

See Also

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

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

ValidationExceptionField

Describes a single request field that failed validation.

Contents

message

A message describing the validation error for the field.

Type: String

Required: Yes

name

The name of the field that failed validation.

Type: String

Required: Yes

See Also

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

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

WafConfig

AWS WAF-specific policy configuration settings.

Contents

conflictResolution

The conflict-resolution strategy for AWS WAF policies. Required for AWS WAF policies.

Type: String

Valid Values: `MERGE_WHERE_APPLICABLE`

Required: Yes

existingCustomerWebACLResolution

Determines how AWS Network Security Manager handles remediation when a resource already has a customer-created web ACL. Required for AWS WAF policies.

Type: String

Valid Values: `RETROFIT | OVERRIDE_ASSOCIATION | NO_REMEDIATION`

Required: Yes

See Also

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

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

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signing AWS API requests in the *IAM User Guide*.

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key*/*YYYYMMDD*/*region*/*service*/aws4_request.

For more information, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Elements of an AWS API request signature in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see AWS services that work with IAM in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Error Types

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

AccessDeniedException

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

HTTP Status Code: 403

ExpiredTokenException

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

HTTP Status Code: 403

IncompleteSignature

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

HTTP Status Code: 403

InternalFailure

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

HTTP Status Code: 500

MalformedHttpRequestException

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

HTTP Status Code: 400

NotAuthorized

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

HTTP Status Code: 401

OptInRequired

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

HTTP Status Code: 403

RequestAbortedException

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

HTTP Status Code: 400

RequestEntityTooLargeException

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

HTTP Status Code: 413

RequestTimeoutException

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

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

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

HTTP Status Code: 400

UnknownOperationException

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

HTTP Status Code: 404

UnrecognizedClientException

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

HTTP Status Code: 403

ValidationError

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

HTTP Status Code: 400