



API Reference

# Amazon VPC Lattice



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# Amazon VPC Lattice: API Reference

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# Table of Contents

<b>Welcome</b> .....	<b>1</b>
<b>Actions</b> .....	<b>2</b>
BatchUpdateRule .....	5
Request Syntax .....	5
URI Request Parameters .....	5
Request Body .....	6
Response Syntax .....	6
Response Elements .....	7
Errors .....	7
See Also .....	9
CreateAccessLogSubscription .....	10
Request Syntax .....	10
URI Request Parameters .....	10
Request Body .....	10
Response Syntax .....	12
Response Elements .....	12
Errors .....	14
See Also .....	15
CreateListener .....	17
Request Syntax .....	17
URI Request Parameters .....	17
Request Body .....	17
Response Syntax .....	19
Response Elements .....	20
Errors .....	21
See Also .....	23
CreateResourceConfiguration .....	25
Request Syntax .....	25
URI Request Parameters .....	25
Request Body .....	25
Response Syntax .....	29
Response Elements .....	30
Errors .....	33
See Also .....	36

CreateResourceGateway .....	37
Request Syntax .....	37
URI Request Parameters .....	37
Request Body .....	37
Response Syntax .....	40
Response Elements .....	40
Errors .....	42
See Also .....	44
CreateRule .....	46
Request Syntax .....	46
URI Request Parameters .....	46
Request Body .....	47
Response Syntax .....	48
Response Elements .....	49
Errors .....	50
See Also .....	52
CreateService .....	54
Request Syntax .....	54
URI Request Parameters .....	54
Request Body .....	54
Response Syntax .....	56
Response Elements .....	56
Errors .....	58
See Also .....	60
CreateServiceNetwork .....	62
Request Syntax .....	62
URI Request Parameters .....	62
Request Body .....	62
Response Syntax .....	64
Response Elements .....	64
Errors .....	65
See Also .....	67
CreateServiceNetworkResourceAssociation .....	69
Request Syntax .....	69
URI Request Parameters .....	69
Request Body .....	69

Response Syntax .....	71
Response Elements .....	71
Errors .....	72
See Also .....	74
CreateServiceNetworkServiceAssociation .....	76
Request Syntax .....	76
URI Request Parameters .....	76
Request Body .....	76
Response Syntax .....	78
Response Elements .....	78
Errors .....	79
See Also .....	82
CreateServiceNetworkVpcAssociation .....	83
Request Syntax .....	83
URI Request Parameters .....	83
Request Body .....	84
Response Syntax .....	86
Response Elements .....	86
Errors .....	87
See Also .....	90
CreateTargetGroup .....	91
Request Syntax .....	91
URI Request Parameters .....	92
Request Body .....	92
Response Syntax .....	93
Response Elements .....	94
Errors .....	95
See Also .....	97
DeleteAccessLogSubscription .....	99
Request Syntax .....	99
URI Request Parameters .....	99
Request Body .....	99
Response Syntax .....	99
Response Elements .....	99
Errors .....	99
See Also .....	101

DeleteAuthPolicy .....	102
Request Syntax .....	102
URI Request Parameters .....	102
Request Body .....	102
Response Syntax .....	102
Response Elements .....	102
Errors .....	103
See Also .....	104
DeleteDomainVerification .....	105
Request Syntax .....	105
URI Request Parameters .....	105
Request Body .....	105
Response Syntax .....	105
Response Elements .....	105
Errors .....	105
See Also .....	107
DeleteListener .....	108
Request Syntax .....	108
URI Request Parameters .....	108
Request Body .....	108
Response Syntax .....	108
Response Elements .....	109
Errors .....	109
See Also .....	110
DeleteResourceConfiguration .....	112
Request Syntax .....	112
URI Request Parameters .....	112
Request Body .....	112
Response Syntax .....	112
Response Elements .....	112
Errors .....	112
See Also .....	114
DeleteResourceEndpointAssociation .....	116
Request Syntax .....	116
URI Request Parameters .....	116
Request Body .....	116

Response Syntax .....	116
Response Elements .....	117
Errors .....	118
See Also .....	119
DeleteResourceGateway .....	121
Request Syntax .....	121
URI Request Parameters .....	121
Request Body .....	121
Response Syntax .....	121
Response Elements .....	122
Errors .....	123
See Also .....	124
DeleteResourcePolicy .....	126
Request Syntax .....	126
URI Request Parameters .....	126
Request Body .....	126
Response Syntax .....	126
Response Elements .....	126
Errors .....	126
See Also .....	128
DeleteRule .....	129
Request Syntax .....	129
URI Request Parameters .....	129
Request Body .....	130
Response Syntax .....	130
Response Elements .....	130
Errors .....	130
See Also .....	132
DeleteService .....	133
Request Syntax .....	133
URI Request Parameters .....	133
Request Body .....	133
Response Syntax .....	133
Response Elements .....	134
Errors .....	135
See Also .....	136

DeleteServiceNetwork .....	138
Request Syntax .....	138
URI Request Parameters .....	138
Request Body .....	138
Response Syntax .....	138
Response Elements .....	138
Errors .....	139
See Also .....	140
DeleteServiceNetworkResourceAssociation .....	142
Request Syntax .....	142
URI Request Parameters .....	142
Request Body .....	142
Response Syntax .....	142
Response Elements .....	143
Errors .....	143
See Also .....	145
DeleteServiceNetworkServiceAssociation .....	146
Request Syntax .....	146
URI Request Parameters .....	146
Request Body .....	146
Response Syntax .....	146
Response Elements .....	147
Errors .....	147
See Also .....	149
DeleteServiceNetworkVpcAssociation .....	151
Request Syntax .....	151
URI Request Parameters .....	151
Request Body .....	151
Response Syntax .....	151
Response Elements .....	152
Errors .....	152
See Also .....	154
DeleteTargetGroup .....	155
Request Syntax .....	155
URI Request Parameters .....	155
Request Body .....	155

---

Response Syntax .....	155
Response Elements .....	156
Errors .....	156
See Also .....	158
DeregisterTargets .....	159
Request Syntax .....	159
URI Request Parameters .....	159
Request Body .....	159
Response Syntax .....	160
Response Elements .....	160
Errors .....	161
See Also .....	162
GetAccessLogSubscription .....	164
Request Syntax .....	164
URI Request Parameters .....	164
Request Body .....	164
Response Syntax .....	164
Response Elements .....	165
Errors .....	166
See Also .....	168
GetAuthPolicy .....	169
Request Syntax .....	169
URI Request Parameters .....	169
Request Body .....	169
Response Syntax .....	169
Response Elements .....	170
Errors .....	170
See Also .....	172
GetDomainVerification .....	173
Request Syntax .....	173
URI Request Parameters .....	173
Request Body .....	173
Response Syntax .....	173
Response Elements .....	174
Errors .....	175
See Also .....	177

GetListener .....	178
Request Syntax .....	178
URI Request Parameters .....	178
Request Body .....	178
Response Syntax .....	178
Response Elements .....	179
Errors .....	181
See Also .....	182
GetResourceConfiguration .....	184
Request Syntax .....	184
URI Request Parameters .....	184
Request Body .....	184
Response Syntax .....	184
Response Elements .....	185
Errors .....	189
See Also .....	190
GetResourceGateway .....	192
Request Syntax .....	192
URI Request Parameters .....	192
Request Body .....	192
Response Syntax .....	192
Response Elements .....	193
Errors .....	195
See Also .....	196
GetResourcePolicy .....	198
Request Syntax .....	198
URI Request Parameters .....	198
Request Body .....	198
Response Syntax .....	198
Response Elements .....	199
Errors .....	199
See Also .....	200
GetRule .....	202
Request Syntax .....	202
URI Request Parameters .....	202
Request Body .....	203

Response Syntax .....	203
Response Elements .....	203
Errors .....	205
See Also .....	206
<b>GetService</b> .....	<b>208</b>
Request Syntax .....	208
URI Request Parameters .....	208
Request Body .....	208
Response Syntax .....	208
Response Elements .....	209
Errors .....	211
See Also .....	212
<b>GetServiceNetwork</b> .....	<b>214</b>
Request Syntax .....	214
URI Request Parameters .....	214
Request Body .....	214
Response Syntax .....	214
Response Elements .....	215
Errors .....	216
See Also .....	218
<b>GetServiceNetworkResourceAssociation</b> .....	<b>219</b>
Request Syntax .....	219
URI Request Parameters .....	219
Request Body .....	219
Response Syntax .....	219
Response Elements .....	220
Errors .....	223
See Also .....	225
<b>GetServiceNetworkServiceAssociation</b> .....	<b>226</b>
Request Syntax .....	226
URI Request Parameters .....	226
Request Body .....	226
Response Syntax .....	226
Response Elements .....	227
Errors .....	230
See Also .....	231

GetServiceNetworkVpcAssociation .....	233
Request Syntax .....	233
URI Request Parameters .....	233
Request Body .....	233
Response Syntax .....	233
Response Elements .....	234
Errors .....	237
See Also .....	238
GetTargetGroup .....	239
Request Syntax .....	239
URI Request Parameters .....	239
Request Body .....	239
Response Syntax .....	239
Response Elements .....	240
Errors .....	242
See Also .....	243
ListAccessLogSubscriptions .....	245
Request Syntax .....	245
URI Request Parameters .....	245
Request Body .....	245
Response Syntax .....	246
Response Elements .....	246
Errors .....	247
See Also .....	248
ListDomainVerifications .....	249
Request Syntax .....	249
URI Request Parameters .....	249
Request Body .....	249
Response Syntax .....	249
Response Elements .....	250
Errors .....	250
See Also .....	252
ListListeners .....	253
Request Syntax .....	253
URI Request Parameters .....	253
Request Body .....	253

---

Response Syntax .....	253
Response Elements .....	254
Errors .....	254
See Also .....	256
ListResourceConfigurations .....	257
Request Syntax .....	257
URI Request Parameters .....	257
Request Body .....	258
Response Syntax .....	258
Response Elements .....	258
Errors .....	259
See Also .....	260
ListResourceEndpointAssociations .....	261
Request Syntax .....	261
URI Request Parameters .....	261
Request Body .....	262
Response Syntax .....	262
Response Elements .....	263
Errors .....	263
See Also .....	264
ListResourceGateways .....	266
Request Syntax .....	266
URI Request Parameters .....	266
Request Body .....	266
Response Syntax .....	266
Response Elements .....	267
Errors .....	267
See Also .....	268
ListRules .....	270
Request Syntax .....	270
URI Request Parameters .....	270
Request Body .....	271
Response Syntax .....	271
Response Elements .....	271
Errors .....	272
See Also .....	273

ListServiceNetworkResourceAssociations .....	275
Request Syntax .....	275
URI Request Parameters .....	275
Request Body .....	276
Response Syntax .....	276
Response Elements .....	277
Errors .....	277
See Also .....	278
ListServiceNetworks .....	280
Request Syntax .....	280
URI Request Parameters .....	280
Request Body .....	280
Response Syntax .....	280
Response Elements .....	281
Errors .....	281
See Also .....	282
ListServiceNetworkServiceAssociations .....	284
Request Syntax .....	284
URI Request Parameters .....	284
Request Body .....	285
Response Syntax .....	285
Response Elements .....	286
Errors .....	286
See Also .....	287
ListServiceNetworkVpcAssociations .....	289
Request Syntax .....	289
URI Request Parameters .....	289
Request Body .....	290
Response Syntax .....	290
Response Elements .....	290
Errors .....	291
See Also .....	292
ListServiceNetworkVpcEndpointAssociations .....	293
Request Syntax .....	293
URI Request Parameters .....	293
Request Body .....	293

---

Response Syntax .....	294
Response Elements .....	294
Errors .....	294
See Also .....	296
ListServices .....	297
Request Syntax .....	297
URI Request Parameters .....	297
Request Body .....	297
Response Syntax .....	297
Response Elements .....	298
Errors .....	298
See Also .....	299
ListTagsForResource .....	301
Request Syntax .....	301
URI Request Parameters .....	301
Request Body .....	301
Response Syntax .....	301
Response Elements .....	301
Errors .....	302
See Also .....	303
ListTargetGroups .....	304
Request Syntax .....	304
URI Request Parameters .....	304
Request Body .....	304
Response Syntax .....	305
Response Elements .....	305
Errors .....	306
See Also .....	307
ListTargets .....	308
Request Syntax .....	308
URI Request Parameters .....	308
Request Body .....	309
Response Syntax .....	309
Response Elements .....	309
Errors .....	310
See Also .....	311

---

PutAuthPolicy .....	313
Request Syntax .....	313
URI Request Parameters .....	313
Request Body .....	313
Response Syntax .....	314
Response Elements .....	314
Errors .....	315
See Also .....	316
PutResourcePolicy .....	317
Request Syntax .....	317
URI Request Parameters .....	317
Request Body .....	317
Response Syntax .....	318
Response Elements .....	318
Errors .....	318
See Also .....	319
RegisterTargets .....	321
Request Syntax .....	321
URI Request Parameters .....	321
Request Body .....	321
Response Syntax .....	322
Response Elements .....	322
Errors .....	323
See Also .....	325
StartDomainVerification .....	326
Request Syntax .....	326
URI Request Parameters .....	326
Request Body .....	326
Response Syntax .....	327
Response Elements .....	327
Errors .....	328
See Also .....	330
TagResource .....	332
Request Syntax .....	332
URI Request Parameters .....	332
Request Body .....	332

Response Syntax .....	333
Response Elements .....	333
Errors .....	333
See Also .....	334
UntagResource .....	336
Request Syntax .....	336
URI Request Parameters .....	336
Request Body .....	336
Response Syntax .....	336
Response Elements .....	337
Errors .....	337
See Also .....	338
UpdateAccessLogSubscription .....	339
Request Syntax .....	339
URI Request Parameters .....	339
Request Body .....	339
Response Syntax .....	340
Response Elements .....	340
Errors .....	341
See Also .....	343
UpdateListener .....	344
Request Syntax .....	344
URI Request Parameters .....	344
Request Body .....	345
Response Syntax .....	345
Response Elements .....	345
Errors .....	347
See Also .....	349
UpdateResourceConfiguration .....	351
Request Syntax .....	351
URI Request Parameters .....	351
Request Body .....	351
Response Syntax .....	352
Response Elements .....	353
Errors .....	355
See Also .....	357

UpdateResourceGateway .....	358
Request Syntax .....	358
URI Request Parameters .....	358
Request Body .....	358
Response Syntax .....	359
Response Elements .....	359
Errors .....	361
See Also .....	362
UpdateRule .....	364
Request Syntax .....	364
URI Request Parameters .....	364
Request Body .....	365
Response Syntax .....	366
Response Elements .....	366
Errors .....	367
See Also .....	370
UpdateService .....	371
Request Syntax .....	371
URI Request Parameters .....	371
Request Body .....	371
Response Syntax .....	372
Response Elements .....	372
Errors .....	374
See Also .....	376
UpdateServiceNetwork .....	377
Request Syntax .....	377
URI Request Parameters .....	377
Request Body .....	377
Response Syntax .....	378
Response Elements .....	378
Errors .....	379
See Also .....	381
UpdateServiceNetworkVpcAssociation .....	382
Request Syntax .....	382
URI Request Parameters .....	382
Request Body .....	382

---

Response Syntax .....	383
Response Elements .....	383
Errors .....	384
See Also .....	386
UpdateTargetGroup .....	387
Request Syntax .....	387
URI Request Parameters .....	387
Request Body .....	387
Response Syntax .....	388
Response Elements .....	389
Errors .....	390
See Also .....	392
<b>Data Types .....</b>	<b>393</b>
AccessLogSubscriptionSummary .....	395
Contents .....	395
See Also .....	397
ArnResource .....	398
Contents .....	398
See Also .....	398
DnsEntry .....	399
Contents .....	399
See Also .....	399
DnsOptions .....	400
Contents .....	400
See Also .....	401
DnsResource .....	402
Contents .....	402
See Also .....	402
DomainVerificationSummary .....	403
Contents .....	403
See Also .....	404
FixedResponseAction .....	406
Contents .....	406
See Also .....	406
ForwardAction .....	407
Contents .....	407

See Also .....	407
HeaderMatch .....	408
Contents .....	408
See Also .....	408
HeaderMatchType .....	410
Contents .....	410
See Also .....	411
HealthCheckConfig .....	412
Contents .....	412
See Also .....	414
HttpMatch .....	415
Contents .....	415
See Also .....	415
IpResource .....	417
Contents .....	417
See Also .....	417
ListenerSummary .....	418
Contents .....	418
See Also .....	419
Matcher .....	420
Contents .....	420
See Also .....	420
PathMatch .....	421
Contents .....	421
See Also .....	421
PathMatchType .....	422
Contents .....	422
See Also .....	422
ResourceConfigurationDefinition .....	424
Contents .....	424
See Also .....	424
ResourceConfigurationSummary .....	426
Contents .....	426
See Also .....	429
ResourceEndpointAssociationSummary .....	430
Contents .....	430

See Also .....	432
ResourceGatewaySummary .....	433
Contents .....	433
See Also .....	435
RuleAction .....	436
Contents .....	436
See Also .....	436
RuleMatch .....	437
Contents .....	437
See Also .....	437
RuleSummary .....	438
Contents .....	438
See Also .....	439
RuleUpdate .....	440
Contents .....	440
See Also .....	441
RuleUpdateFailure .....	442
Contents .....	442
See Also .....	442
RuleUpdateSuccess .....	444
Contents .....	444
See Also .....	445
ServiceNetworkEndpointAssociation .....	447
Contents .....	447
See Also .....	448
ServiceNetworkResourceAssociationSummary .....	449
Contents .....	449
See Also .....	452
ServiceNetworkServiceAssociationSummary .....	453
Contents .....	453
See Also .....	456
ServiceNetworkSummary .....	457
Contents .....	457
See Also .....	458
ServiceNetworkVpcAssociationSummary .....	460
Contents .....	460

See Also .....	462
ServiceSummary .....	464
Contents .....	464
See Also .....	466
SharingConfig .....	467
Contents .....	467
See Also .....	467
Target .....	468
Contents .....	468
See Also .....	468
TargetFailure .....	469
Contents .....	469
See Also .....	470
TargetGroupConfig .....	471
Contents .....	471
See Also .....	472
TargetGroupSummary .....	474
Contents .....	474
See Also .....	477
TargetSummary .....	478
Contents .....	478
See Also .....	479
TxtMethodConfig .....	480
Contents .....	480
See Also .....	480
ValidationExceptionField .....	481
Contents .....	481
See Also .....	481
WeightedTargetGroup .....	482
Contents .....	482
See Also .....	482
<b>Common Parameters .....</b>	<b>484</b>
<b>Common Error Types .....</b>	<b>487</b>

# Welcome

Amazon VPC Lattice is a fully managed application networking service that you use to connect, secure, and monitor all of your services across multiple accounts and virtual private clouds (VPCs). Amazon VPC Lattice interconnects your microservices and legacy services within a logical boundary, so that you can discover and manage them more efficiently. For more information, see the [Amazon VPC Lattice User Guide](#)

This document was last published on April 5, 2026.

# Actions

The following actions are supported:

- [BatchUpdateRule](#)
- [CreateAccessLogSubscription](#)
- [CreateListener](#)
- [CreateResourceConfiguration](#)
- [CreateResourceGateway](#)
- [CreateRule](#)
- [CreateService](#)
- [CreateServiceNetwork](#)
- [CreateServiceNetworkResourceAssociation](#)
- [CreateServiceNetworkServiceAssociation](#)
- [CreateServiceNetworkVpcAssociation](#)
- [CreateTargetGroup](#)
- [DeleteAccessLogSubscription](#)
- [DeleteAuthPolicy](#)
- [DeleteDomainVerification](#)
- [DeleteListener](#)
- [DeleteResourceConfiguration](#)
- [DeleteResourceEndpointAssociation](#)
- [DeleteResourceGateway](#)
- [DeleteResourcePolicy](#)
- [DeleteRule](#)
- [DeleteService](#)
- [DeleteServiceNetwork](#)
- [DeleteServiceNetworkResourceAssociation](#)
- [DeleteServiceNetworkServiceAssociation](#)
- [DeleteServiceNetworkVpcAssociation](#)
- [DeleteTargetGroup](#)

- [DeregisterTargets](#)
- [GetAccessLogSubscription](#)
- [GetAuthPolicy](#)
- [GetDomainVerification](#)
- [GetListener](#)
- [GetResourceConfiguration](#)
- [GetResourceGateway](#)
- [GetResourcePolicy](#)
- [GetRule](#)
- [GetService](#)
- [GetServiceNetwork](#)
- [GetServiceNetworkResourceAssociation](#)
- [GetServiceNetworkServiceAssociation](#)
- [GetServiceNetworkVpcAssociation](#)
- [GetTargetGroup](#)
- [ListAccessLogSubscriptions](#)
- [ListDomainVerifications](#)
- [ListListeners](#)
- [ListResourceConfigurations](#)
- [ListResourceEndpointAssociations](#)
- [ListResourceGateways](#)
- [ListRules](#)
- [ListServiceNetworkResourceAssociations](#)
- [ListServiceNetworks](#)
- [ListServiceNetworkServiceAssociations](#)
- [ListServiceNetworkVpcAssociations](#)
- [ListServiceNetworkVpcEndpointAssociations](#)
- [ListServices](#)
- [ListTagsForResource](#)
- [ListTargetGroups](#)

- [ListTargets](#)
- [PutAuthPolicy](#)
- [PutResourcePolicy](#)
- [RegisterTargets](#)
- [StartDomainVerification](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateAccessLogSubscription](#)
- [UpdateListener](#)
- [UpdateResourceConfiguration](#)
- [UpdateResourceGateway](#)
- [UpdateRule](#)
- [UpdateService](#)
- [UpdateServiceNetwork](#)
- [UpdateServiceNetworkVpcAssociation](#)
- [UpdateTargetGroup](#)

# BatchUpdateRule

Updates the listener rules in a batch. You can use this operation to change the priority of listener rules. This can be useful when bulk updating or swapping rule priority.

**Required permissions:** `vpc-lattice:UpdateRule`

For more information, see [How Amazon VPC Lattice works with IAM](#) in the *Amazon VPC Lattice User Guide*.

## Request Syntax

```
PATCH /services/serviceIdentifier/listeners/listenerIdentifier/rules HTTP/1.1  
Content-type: application/json
```

```
{  
  "rules": [  
    {  
      "action": { ... },  
      "match": { ... },  
      "priority": number,  
      "ruleIdentifier": "string"  
    }  
  ]  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### listenerIdentifier

The ID or ARN of the listener.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((*listener*-[0-9a-z]{17})|(^arn:[a-z0-9\-\+]+vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}/listener/*listener*-[0-9a-z]{17}\$))

Required: Yes

## [serviceIdentifier](#)

The ID or ARN of the service.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:service/svc-[0-9a-z]{17}))

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### [rules](#)

The rules for the specified listener.

Type: Array of [RuleUpdate](#) objects

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

Required: Yes

## Response Syntax

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

```
{
  "successful": [
    {
      "action": { ... },
      "arn": "string",
      "id": "string",
      "isDefault": boolean,
      "match": { ... },
      "name": "string",
      "priority": number
    }
  ]
}
```

```
],  
  "unsuccessful": [  
    {  
      "failureCode": "string",  
      "failureMessage": "string",  
      "ruleIdentifier": "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.

### successful

The rules that were successfully updated.

Type: Array of [RuleUpdateSuccess](#) objects

### unsuccessful

The rules that the operation couldn't update.

Type: Array of [RuleUpdateFailure](#) objects

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 409

**InternalServerErrorException**

An unexpected error occurred while processing the request.

**retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

**ResourceNotFoundException**

The request references a resource that does not exist.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

### fieldList

The fields that failed validation.

### reason

The reason.

HTTP Status Code: 400

## See Also

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

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

# CreateAccessLogSubscription

Enables access logs to be sent to Amazon CloudWatch, Amazon S3, and Amazon Kinesis Data Firehose. The service network owner can use the access logs to audit the services in the network. The service network owner can only see access logs from clients and services that are associated with their service network. Access log entries represent traffic originated from VPCs associated with that network. For more information, see [Access logs](#) in the *Amazon VPC Lattice User Guide*.

## Request Syntax

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

{
  "clientToken": "string",
  "destinationArn": "string",
  "resourceIdentifier": "string",
  "serviceNetworkLogType": "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 identifier that you provide to ensure the idempotency of the request. If you retry a request that completed successfully using the same client token and parameters, the retry succeeds without performing any actions. If the parameters aren't identical, the retry fails.

Type: String

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

Pattern: `. * [! -~] + . *`

Required: No

### destinationArn

The Amazon Resource Name (ARN) of the destination. The supported destination types are CloudWatch Log groups, Kinesis Data Firehose delivery streams, and Amazon S3 buckets.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

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

Required: Yes

### resourceIdentifier

The ID or ARN of the service network or service.

Type: String

Length Constraints: Minimum length of 17. Maximum length of 200.

Pattern: `(((((sn)|(svc)|(rcfg))-[0-9a-z]{17})|(arn(:[a-z0-9]+([\.-][a-z0-9]+)*){2}(:([a-z0-9]+([\.-][a-z0-9]+)*)?)?{2}:((servicenetwork/sn)|(resourceconfiguration/rcfg)|(service/svc))-[0-9a-z]{17})))`

Required: Yes

### serviceNetworkLogType

The type of log that monitors your Amazon VPC Lattice service networks.

Type: String

Valid Values: SERVICE | RESOURCE

Required: No

### tags

The tags for the access log subscription.

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.

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

Required: No

## Response Syntax

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

{
  "arn": "string",
  "destinationArn": "string",
  "id": "string",
  "resourceArn": "string",
  "resourceId": "string",
  "serviceNetworkLogType": "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.

### arn

The Amazon Resource Name (ARN) of the access log subscription.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:accesslogsubscription/als-[0-9a-z]{17}`

### destinationArn

The Amazon Resource Name (ARN) of the log destination.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

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

## id

The ID of the access log subscription.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `als-[0-9a-z]{17}`

## resourceArn

The Amazon Resource Name (ARN) of the service network or service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 200.

Pattern: `arn(:[a-z0-9]+([\.-][a-z0-9]+)*){2}(:([a-z0-9]+([\.-][a-z0-9]+)*)?)`  
`{2}:((servicenetwork/sn)|(service/svc)|(resourceconfiguration/rcfg))-`  
`[0-9a-z]{17}`

## resourceId

The ID of the service network or service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 50.

Pattern: `((sn)|(svc))-[0-9a-z]{17}`

## serviceNetworkLogType

The type of log that monitors your Amazon VPC Lattice service networks.

Type: String

Valid Values: SERVICE | RESOURCE

## Errors

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

### AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 409

### InternalServerError

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

### **serviceCode**

The service code.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

### **fieldList**

The fields that failed validation.

### **reason**

The reason.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# CreateListener

Creates a listener for a service. Before you start using your Amazon VPC Lattice service, you must add one or more listeners. A listener is a process that checks for connection requests to your services. For more information, see [Listeners](#) in the *Amazon VPC Lattice User Guide*.

## Request Syntax

```
POST /services/serviceIdentifier/listeners HTTP/1.1
Content-type: application/json
```

```
{
  "clientToken": "string",
  "defaultAction": { ... },
  "name": "string",
  "port": number,
  "protocol": "string",
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [serviceIdentifier](#)

The ID or ARN of the service.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}))

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## clientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request. If you retry a request that completed successfully using the same client token and parameters, the retry succeeds without performing any actions. If the parameters aren't identical, the retry fails.

Type: String

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

Pattern: `.*[!-~]+.*`

Required: No

## defaultAction

The action for the default rule. Each listener has a default rule. The default rule is used if no other rules match.

Type: [RuleAction](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## name

The name of the listener. A listener name must be unique within a service. The valid characters are a-z, 0-9, and hyphens (-). You can't use a hyphen as the first or last character, or immediately after another hyphen.

Type: String

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

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

Required: Yes

## port

The listener port. You can specify a value from 1 to 65535. For HTTP, the default is 80. For HTTPS, the default is 443.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: No

### protocol

The listener protocol.

Type: String

Valid Values: HTTP | HTTPS | TLS\_PASSTHROUGH

Required: Yes

### tags

The tags for the listener.

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.

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

Required: No

## Response Syntax

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

```
{
  "arn": "string",
  "defaultAction": { ... },
  "id": "string",
  "name": "string",
  "port": number,
  "protocol": "string",
  "serviceArn": "string",
  "serviceId": "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.

### arn

The Amazon Resource Name (ARN) of the listener.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}`

### defaultAction

The action for the default rule.

Type: [RuleAction](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### id

The ID of the listener.

Type: String

Length Constraints: Fixed length of 26.

Pattern: `listener-[0-9a-z]{17}`

### name

The name of the listener.

Type: String

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

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

## port

The port number of the listener.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

## protocol

The protocol of the listener.

Type: String

Valid Values: HTTP | HTTPS | TLS\_PASSTHROUGH

## serviceArn

The Amazon Resource Name (ARN) of the service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}`

## serviceId

The ID of the service.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `svc-[0-9a-z]{17}`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## ConflictException

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 409

## InternalServerErrorException

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **resourceId**

The resource ID.

**resourceType**

The resource type.

**serviceCode**

The service code.

HTTP Status Code: 402

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)

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

# CreateResourceConfiguration

Creates a resource configuration. A resource configuration defines a specific resource. You can associate a resource configuration with a service network or a VPC endpoint.

## Request Syntax

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

{
  "allowAssociationToShareableServiceNetwork": boolean,
  "clientToken": "string",
  "customDomainName": "string",
  "domainVerificationIdentifier": "string",
  "groupDomain": "string",
  "name": "string",
  "portRanges": [ "string" ],
  "protocol": "string",
  "resourceConfigurationDefinition": { ... },
  "resourceConfigurationGroupIdentifier": "string",
  "resourceGatewayIdentifier": "string",
  "tags": {
    "string" : "string"
  },
  "type": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [allowAssociationToShareableServiceNetwork](#)

(SINGLE, GROUP, ARN) Specifies whether the resource configuration can be associated with a sharable service network. The default is false.

Type: Boolean

Required: No

### clientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request. If you retry a request that completed successfully using the same client token and parameters, the retry succeeds without performing any actions. If the parameters aren't identical, the retry fails.

Type: String

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

Pattern: `.*[!-~]+.*`

Required: No

### customDomainName

A custom domain name for your resource configuration. Additionally, provide a `DomainVerificationID` to prove your ownership of a domain.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Required: No

### domainVerificationIdentifier

The domain verification ID of your verified custom domain name. If you don't provide an ID, you must configure the DNS settings yourself.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `((dv-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:domainverification/dv-[a-fA-F0-9]{17}))`

Required: No

### groupDomain

(GROUP) The group domain for a group resource configuration. Any domains that you create for the child resource are subdomains of the group domain. Child resources inherit the verification status of the domain.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Required: No

### name

The name of the resource configuration. The name must be unique within the account. The valid characters are a-z, 0-9, and hyphens (-). You can't use a hyphen as the first or last character, or immediately after another hyphen.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: (?!\rcfg-)(?![-])(?!.\*[-]\$)(?!.\*[-]{2})[a-z0-9-]+

Required: Yes

### portRanges

(SINGLE, GROUP, CHILD) The TCP port ranges that a consumer can use to access a resource configuration (for example: 1-65535). You can separate port ranges using commas (for example: 1,2,22-30).

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 11.

Pattern: ((\d{1,5}\-\d{1,5})|(\d+))

Required: No

### protocol

(SINGLE, GROUP) The protocol accepted by the resource configuration.

Type: String

Valid Values: TCP

Required: No

### resourceConfigurationDefinition

Identifies the resource configuration in one of the following ways:

- **Amazon Resource Name (ARN)** - Supported resource-types that are provisioned by AWS services, such as RDS databases, can be identified by their ARN.
- **Domain name** - Any domain name that is publicly resolvable.
- **IP address** - For IPv4 and IPv6, only IP addresses in the VPC are supported.

Type: [ResourceConfigurationDefinition](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### [resourceConfigurationGroupIdentifier](#)

(CHILD) The ID or ARN of the parent resource configuration of type GROUP. This is used to associate a child resource configuration with a group resource configuration.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((rcfg-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}))

Required: No

### [resourceGatewayIdentifier](#)

(SINGLE, GROUP, ARN) The ID or ARN of the resource gateway used to connect to the resource configuration. For a child resource configuration, this value is inherited from the parent resource configuration.

Type: String

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((rgw-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:resourcegateway/rgw-[0-9a-z]{17}))

Required: No

### [tags](#)

The tags for the resource configuration.

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.

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

Required: No

## type

The type of resource configuration. A resource configuration can be one of the following types:

- **SINGLE** - A single resource.
- **GROUP** - A group of resources. You must create a group resource configuration before you create a child resource configuration.
- **CHILD** - A single resource that is part of a group resource configuration.
- **ARN** - An AWS resource.

Type: String

Valid Values: GROUP | CHILD | SINGLE | ARN

Required: Yes

## Response Syntax

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

{
  "allowAssociationToShareableServiceNetwork": boolean,
  "arn": "string",
  "createdAt": "string",
  "customDomainName": "string",
  "domainVerificationArn": "string",
  "domainVerificationId": "string",
  "failureReason": "string",
  "groupDomain": "string",
  "id": "string",
  "name": "string",
```

```
"portRanges": [ "string" ],
"protocol": "string",
"resourceConfigurationDefinition": { ... },
"resourceConfigurationGroupId": "string",
"resourceGatewayId": "string",
"status": "string",
"type": "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.

### [allowAssociationToShareableServiceNetwork](#)

Specifies whether the resource configuration can be associated with a sharable service network.

Type: Boolean

### [arn](#)

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9f\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}`

### [createdAt](#)

The date and time that the resource configuration was created, in ISO-8601 format.

Type: Timestamp

### [customDomainName](#)

The custom domain name for your resource configuration.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

### domainVerificationArn

The verification ID ARN

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9f\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:domainverification/dv-[a-fA-F0-9]{17}`

### domainVerificationId

The domain name verification ID.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `dv-[a-fA-F0-9]{17}`

### failureReason

The reason that the request failed.

Type: String

### groupDomain

(GROUP) The group domain for a group resource configuration. Any domains that you create for the child resource are subdomains of the group domain. Child resources inherit the verification status of the domain.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

### id

The ID of the resource configuration.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `rcfg-[0-9a-z]{17}`

## name

The name of the resource configuration.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: (?!\rcfg-)(?![-])(?!.\*[-]\$)(?!.\*[-]{2})[a-z0-9-]+

## portRanges

The port range.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 11.

Pattern: ((\d{1,5}\-\d{1,5})|(\d+))

## protocol

The protocol.

Type: String

Valid Values: TCP

## resourceConfigurationDefinition

Identifies the resource configuration in one of the following ways:

- **Amazon Resource Name (ARN)** - Supported resource-types that are provisioned by AWS services, such as RDS databases, can be identified by their ARN.
- **Domain name** - Any domain name that is publicly resolvable.
- **IP address** - For IPv4 and IPv6, only IP addresses in the VPC are supported.

Type: [ResourceConfigurationDefinition](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

## resourceConfigurationGroupId

The ID of the parent resource configuration of type GROUP.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `rcfg-[0-9a-z]{17}`

### resourceGatewayId

The ID of the resource gateway associated with the resource configuration.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `rgw-[0-9a-z]{17}`

### status

The current status of the resource configuration.

Type: String

Valid Values: ACTIVE | CREATE\_IN\_PROGRESS | UPDATE\_IN\_PROGRESS | DELETE\_IN\_PROGRESS | CREATE\_FAILED | UPDATE\_FAILED | DELETE\_FAILED

### type

The type of resource configuration. A resource configuration can be one of the following types:

- **SINGLE** - A single resource.
- **GROUP** - A group of resources. You must create a group resource configuration before you create a child resource configuration.
- **CHILD** - A single resource that is part of a group resource configuration.
- **ARN** - An AWS resource.

Type: String

Valid Values: GROUP | CHILD | SINGLE | ARN

## Errors

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

## AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## ConflictException

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 409

## InternalServerError

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**resourceId**

The resource ID.

**resourceType**

The resource type.

**serviceCode**

The service code.

HTTP Status Code: 402

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

## See Also

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

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

# CreateResourceGateway

A resource gateway is a point of ingress into the VPC where a resource resides. It spans multiple Availability Zones. For your resource to be accessible from all Availability Zones, you should create your resource gateways to span as many Availability Zones as possible. A VPC can have multiple resource gateways.

## Request Syntax

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

{
  "clientToken": "string",
  "ipAddressType": "string",
  "ipv4AddressesPerEni": number,
  "name": "string",
  "securityGroupIds": [ "string" ],
  "subnetIds": [ "string" ],
  "tags": {
    "string" : "string"
  },
  "vpcIdentifier": "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 identifier that you provide to ensure the idempotency of the request. If you retry a request that completed successfully using the same client token and parameters, the retry succeeds without performing any actions. If the parameters aren't identical, the retry fails.

Type: String

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

Pattern: `. * [ ! - ~ ] + . *`

Required: No

### ipAddressType

A resource gateway can have IPv4, IPv6 or dualstack addresses. The IP address type of a resource gateway must be compatible with the subnets of the resource gateway and the IP address type of the resource, as described here:

- **IPv4** Assign IPv4 addresses to your resource gateway network interfaces. This option is supported only if all selected subnets have IPv4 address ranges, and the resource also has an IPv4 address.
- **IPv6** Assign IPv6 addresses to your resource gateway network interfaces. This option is supported only if all selected subnets are IPv6 only subnets, and the resource also has an IPv6 address.
- **Dualstack** Assign both IPv4 and IPv6 addresses to your resource gateway network interfaces. This option is supported only if all selected subnets have both IPv4 and IPv6 address ranges, and the resource either has an IPv4 or IPv6 address.

The IP address type of the resource gateway is independent of the IP address type of the client or the VPC endpoint through which the resource is accessed.

Type: String

Valid Values: `IPV4` | `IPV6` | `DUALSTACK`

Required: No

### ipv4AddressesPerEni

The number of IPv4 addresses in each ENI for the resource gateway.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 62.

Required: No

### name

The name of the resource gateway.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: (?!\r\n-)(?![-])(?!.\*[-]\$)(?!.\*[-]{2})[a-z0-9-]+

Required: Yes

### securityGroupIds

The IDs of the security groups to apply to the resource gateway. The security groups must be in the same VPC.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Minimum length of 5. Maximum length of 200.

Pattern: sg-((( [0-9a-z]{8} ) | ( [0-9a-z]{17} )))

Required: No

### subnetIds

The IDs of the VPC subnets in which to create the resource gateway.

Type: Array of strings

Length Constraints: Minimum length of 5. Maximum length of 200.

Required: No

### tags

The tags for the resource gateway.

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.

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

Required: No

## vpIdentifier

The ID of the VPC for the resource gateway.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 50.

Pattern: `vpc-(([0-9a-z]{8})|([0-9a-z]{17}))`

Required: No

## Response Syntax

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

{
  "arn": "string",
  "id": "string",
  "ipAddressType": "string",
  "ipv4AddressesPerEni": number,
  "name": "string",
  "securityGroupIds": [ "string" ],
  "status": "string",
  "subnetIds": [ "string" ],
  "vpcIdentifier": "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.

### arn

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:resourcegateway/rgw-[0-9a-z]{17}`

### id

The ID of the resource gateway.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `rgw-[0-9a-z]{17}`

### ipAddressType

The type of IP address for the resource gateway.

Type: String

Valid Values: IPV4 | IPV6 | DUALSTACK

### ipv4AddressesPerEni

The number of IPv4 addresses in each ENI for the resource gateway.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 62.

### name

The name of the resource gateway.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

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

### securityGroupIds

The IDs of the security groups for the resource gateway.

Type: Array of strings

Length Constraints: Minimum length of 5. Maximum length of 200.

Pattern: `sg-((([0-9a-z]{8})|([0-9a-z]{17})))`

## status

The status of the resource gateway.

Type: String

Valid Values: ACTIVE | CREATE\_IN\_PROGRESS | UPDATE\_IN\_PROGRESS | DELETE\_IN\_PROGRESS | CREATE\_FAILED | UPDATE\_FAILED | DELETE\_FAILED

## subnetIds

The IDs of the resource gateway subnets.

Type: Array of strings

Length Constraints: Minimum length of 5. Maximum length of 200.

## vpIdentifier

The ID of the VPC.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 50.

Pattern: vpc-(([0-9a-z]{8})|([0-9a-z]{17}))

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

### **resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 409

**InternalServerErrorException**

An unexpected error occurred while processing the request.

**retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

**ResourceNotFoundException**

The request references a resource that does not exist.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**resourceId**

The resource ID.

**resourceType**

The resource type.

**serviceCode**

The service code.

HTTP Status Code: 402

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

#### **fieldList**

The fields that failed validation.

#### **reason**

The reason.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

# CreateRule

Creates a listener rule. Each listener has a default rule for checking connection requests, but you can define additional rules. Each rule consists of a priority, one or more actions, and one or more conditions. For more information, see [Listener rules](#) in the *Amazon VPC Lattice User Guide*.

## Request Syntax

```
POST /services/serviceIdentifier/listeners/listenerIdentifier/rules HTTP/1.1
Content-type: application/json
```

```
{
  "action": { ... },
  "clientToken": "string",
  "match": { ... },
  "name": "string",
  "priority": number,
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### listenerIdentifier

The ID or ARN of the listener.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((listener-[0-9a-z]{17})|(^arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}\$))

Required: Yes

### serviceIdentifier

The ID or ARN of the service.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}))

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### action

The action for the default rule.

Type: [RuleAction](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### clientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request. If you retry a request that completed successfully using the same client token and parameters, the retry succeeds without performing any actions. If the parameters aren't identical, the retry fails.

Type: String

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

Pattern: .\*[!-~]+.\*

Required: No

### match

The rule match.

Type: [RuleMatch](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## name

The name of the rule. The name must be unique within the listener. The valid characters are a-z, 0-9, and hyphens (-). You can't use a hyphen as the first or last character, or immediately after another hyphen.

Type: String

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

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

Required: Yes

## priority

The priority assigned to the rule. Each rule for a specific listener must have a unique priority. The lower the priority number the higher the priority.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 2000.

Required: Yes

## tags

The tags for the rule.

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.

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

Required: No

## Response Syntax

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

```
{
  "action": { ... },
  "arn": "string",
  "id": "string",
  "match": { ... },
  "name": "string",
  "priority": number
}
```

## 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.

### action

The rule action.

Type: [RuleAction](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### arn

The Amazon Resource Name (ARN) of the rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}/rule/rule-[0-9a-z]{17}`

### id

The ID of the rule.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 22.

Pattern: `rule-[0-9a-z]{17}`

## match

The rule match. The `RuleMatch` must be an `HttpMatch`. This means that the rule should be an exact match on HTTP constraints which are made up of the HTTP method, path, and header.

Type: [RuleMatch](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

## name

The name of the rule.

Type: String

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

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

## priority

The priority assigned to the rule. The lower the priority number the higher the priority.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 2000.

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

#### **resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 409

**InternalServerErrorException**

An unexpected error occurred while processing the request.

**retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

**ResourceNotFoundException**

The request references a resource that does not exist.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**resourceId**

The resource ID.

**resourceType**

The resource type.

**serviceCode**

The service code.

HTTP Status Code: 402

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

#### **fieldList**

The fields that failed validation.

#### **reason**

The reason.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

# CreateService

Creates a service. A service is any software application that can run on instances containers, or serverless functions within an account or virtual private cloud (VPC).

For more information, see [Services](#) in the *Amazon VPC Lattice User Guide*.

## Request Syntax

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

{
  "authType": "string",
  "certificateArn": "string",
  "clientToken": "string",
  "customDomainName": "string",
  "name": "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.

### authType

The type of IAM policy.

- NONE: The resource does not use an IAM policy. This is the default.
- AWS\_IAM: The resource uses an IAM policy. When this type is used, auth is enabled and an auth policy is required.

Type: String

Valid Values: NONE | AWS\_IAM

Required: No

### certificateArn

The Amazon Resource Name (ARN) of the certificate.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: (arn(:[a-z0-9]+(.[-][a-z0-9]+)\*){2}(:([a-z0-9]+(.[-][a-z0-9]+)\*)?)?){2}:certificate/[0-9a-z-]+)?

Required: No

### clientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request. If you retry a request that completed successfully using the same client token and parameters, the retry succeeds without performing any actions. If the parameters aren't identical, the retry fails.

Type: String

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

Pattern: .\*[!-~]+.\*

Required: No

### customDomainName

The custom domain name of the service.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Required: No

### name

The name of the service. The name must be unique within the account. The valid characters are a-z, 0-9, and hyphens (-). You can't use a hyphen as the first or last character, or immediately after another hyphen.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: (?!svc-)(?![-])(?!.\*[-]\$)(?!.\*[-]{2})[a-z0-9-]+

Required: Yes

## tags

The tags for the service.

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.

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

Required: No

## Response Syntax

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

{
  "arn": "string",
  "authType": "string",
  "certificateArn": "string",
  "customDomainName": "string",
  "dnsEntry": {
    "domainName": "string",
    "hostedZoneId": "string"
  },
  "id": "string",
  "name": "string",
  "status": "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.

### arn

The Amazon Resource Name (ARN) of the service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}`

### authType

The type of IAM policy.

Type: String

Valid Values: NONE | AWS\_IAM

### certificateArn

The Amazon Resource Name (ARN) of the certificate.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `(arn(:[a-z0-9]+([\.-][a-z0-9]+)*){2}(:([a-z0-9]+([\.-][a-z0-9]+)*)?)?){2}:certificate/[0-9a-z-]+)?`

### customDomainName

The custom domain name of the service.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

### dnsEntry

The public DNS name of the service.

Type: [DnsEntry](#) object

## id

The ID of the service.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `svc-[0-9a-z]{17}`

## name

The name of the service.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

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

## status

The status. If the status is `CREATE_FAILED`, you must delete and recreate the service.

Type: String

Valid Values: `ACTIVE` | `CREATE_IN_PROGRESS` | `DELETE_IN_PROGRESS` | `CREATE_FAILED` | `DELETE_FAILED`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 409

**InternalServerErrorException**

An unexpected error occurred while processing the request.

**retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

**ResourceNotFoundException**

The request references a resource that does not exist.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**resourceId**

The resource ID.

**resourceType**

The resource type.

**serviceCode**

The service code.

HTTP Status Code: 402

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

# CreateServiceNetwork

Creates a service network. A service network is a logical boundary for a collection of services. You can associate services and VPCs with a service network.

For more information, see [Service networks](#) in the *Amazon VPC Lattice User Guide*.

## Request Syntax

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

{
  "authType": "string",
  "clientToken": "string",
  "name": "string",
  "sharingConfig": {
    "enabled": 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.

### [authType](#)

The type of IAM policy.

- NONE: The resource does not use an IAM policy. This is the default.
- AWS\_IAM: The resource uses an IAM policy. When this type is used, auth is enabled and an auth policy is required.

Type: String

Valid Values: NONE | AWS\_IAM

Required: No

### clientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request. If you retry a request that completed successfully using the same client token and parameters, the retry succeeds without performing any actions. If the parameters aren't identical, the retry fails.

Type: String

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

Pattern: `.*[!-~]+.*`

Required: No

### name

The name of the service network. The name must be unique to the account. The valid characters are a-z, 0-9, and hyphens (-). You can't use a hyphen as the first or last character, or immediately after another hyphen.

Type: String

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

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

Required: Yes

### sharingConfig

Specify if the service network should be enabled for sharing.

Type: [SharingConfig](#) object

Required: No

### tags

The tags for the service network.

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.

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

Required: No

## Response Syntax

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

```
{
  "arn": "string",
  "authType": "string",
  "id": "string",
  "name": "string",
  "sharingConfig": {
    "enabled": boolean
  }
}
```

## 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.

### arn

The Amazon Resource Name (ARN) of the service network.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\:\d{12}:servicenetwork/sn-[0-9a-z]{17}`

### authType

The type of IAM policy.

Type: String

Valid Values: NONE | AWS\_IAM

### id

The ID of the service network.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `sn-[0-9a-z]{17}`

### name

The name of the service network.

Type: String

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

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

### sharingConfig

Specifies if the service network is enabled for sharing.

Type: [SharingConfig](#) object

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 409

**InternalServerErrorException**

An unexpected error occurred while processing the request.

**retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

**ResourceNotFoundException**

The request references a resource that does not exist.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**resourceId**

The resource ID.

**resourceType**

The resource type.

**serviceCode**

The service code.

HTTP Status Code: 402

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

# CreateServiceNetworkResourceAssociation

Associates the specified service network with the specified resource configuration. This allows the resource configuration to receive connections through the service network, including through a service network VPC endpoint.

## Request Syntax

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

```
{
  "clientToken": "string",
  "privateDnsEnabled": boolean,
  "resourceConfigurationIdentifier": "string",
  "serviceNetworkIdentifier": "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 identifier that you provide to ensure the idempotency of the request. If you retry a request that completed successfully using the same client token and parameters, the retry succeeds without performing any actions. If the parameters aren't identical, the retry fails.

Type: String

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

Pattern: `.*[!-~]+.*`

Required: No

### privateDnsEnabled

Indicates if private DNS is enabled for the service network resource association.

Type: Boolean

Required: No

### resourceConfigurationIdentifier

The ID of the resource configuration to associate with the service network.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((rcfg-[0-9a-z]{17})|(arn:[a-z0-9\-\\_]+:vpc-lattice:[a-zA-Z0-9\-\\_]+\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}))

Required: Yes

### serviceNetworkIdentifier

The ID of the service network to associate with the resource configuration.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 2048.

Required: Yes

### tags

A key-value pair to associate with a 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.

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

Required: No

## Response Syntax

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

{
  "arn": "string",
  "createdBy": "string",
  "id": "string",
  "privateDnsEnabled": boolean,
  "status": "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.

### arn

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 22. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetworkresourceassociation/snra-[0-9a-f]{17}`

### createdBy

The ID of the account that created the association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `[0-9]{12}`

### id

The ID of the association.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `snra-[0-9a-f]{17}`

### privateDnsEnabled

Indicates if private DNS is is enabled for the service network resource association.

Type: Boolean

### status

The status of the association.

Type: String

Valid Values: `CREATE_IN_PROGRESS` | `ACTIVE` | `PARTIAL` | `DELETE_IN_PROGRESS` | `CREATE_FAILED` | `DELETE_FAILED`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 409

## InternalServerError

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

### **serviceCode**

The service code.

HTTP Status Code: 402

## ThrottlingException

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

- [AWS SDK for Ruby V3](#)

# CreateServiceNetworkServiceAssociation

Associates the specified service with the specified service network. For more information, see [Manage service associations](#) in the *Amazon VPC Lattice User Guide*.

You can't use this operation if the service and service network are already associated or if there is a disassociation or deletion in progress. If the association fails, you can retry the operation by deleting the association and recreating it.

You cannot associate a service and service network that are shared with a caller. The caller must own either the service or the service network.

As a result of this operation, the association is created in the service network account and the association owner account.

## Request Syntax

```
POST /servicenetworkserviceassociations HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "clientToken": "string",
  "serviceIdentifier": "string",
  "serviceNetworkIdentifier": "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 identifier that you provide to ensure the idempotency of the request. If you retry a request that completed successfully using the same client token and parameters, the retry succeeds without performing any actions. If the parameters aren't identical, the retry fails.

Type: String

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

Pattern: `.*[!-~]+.*`

Required: No

## serviceIdentifier

The ID or ARN of the service.

Type: String

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: `((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}))`

Required: Yes

## serviceNetworkIdentifier

The ID or ARN of the service network. You must use an ARN if the resources are in different accounts.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 2048.

Pattern: `((sn-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetwork/sn-[0-9a-z]{17}))`

Required: Yes

## tags

The tags for the association.

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.

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

Required: No

## Response Syntax

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

{
  "arn": "string",
  "createdBy": "string",
  "customDomainName": "string",
  "dnsEntry": {
    "domainName": "string",
    "hostedZoneId": "string"
  },
  "id": "string",
  "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.

### arn

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:  
d{12}:servicenetworkserviceassociation/snsa-[0-9a-z]{17}`

### createdBy

The account that created the association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: [0-9]{12}

### customDomainName

The custom domain name of the service.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

### dnsEntry

The DNS name of the service.

Type: [DnsEntry](#) object

### id

The ID of the association.

Type: String

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((snsa-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetworkserviceassociation/snsa-[0-9a-z]{17}))

### status

The association status.

Type: String

Valid Values: CREATE\_IN\_PROGRESS | ACTIVE | DELETE\_IN\_PROGRESS | CREATE\_FAILED | DELETE\_FAILED

## Errors

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

## **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 409

## **InternalServerErrorException**

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## **ResourceNotFoundException**

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## **ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**resourceId**

The resource ID.

**resourceType**

The resource type.

**serviceCode**

The service code.

HTTP Status Code: 402

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

## See Also

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

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

# CreateServiceNetworkVpcAssociation

Associates a VPC with a service network. When you associate a VPC with the service network, it enables all the resources within that VPC to be clients and communicate with other services in the service network. For more information, see [Manage VPC associations](#) in the *Amazon VPC Lattice User Guide*.

You can't use this operation if there is a disassociation in progress. If the association fails, retry by deleting the association and recreating it.

As a result of this operation, the association gets created in the service network account and the VPC owner account.

If you add a security group to the service network and VPC association, the association must continue to always have at least one security group. You can add or edit security groups at any time. However, to remove all security groups, you must first delete the association and recreate it without security groups.

## Request Syntax

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

{
  "clientToken": "string",
  "dnsOptions": {
    "privateDnsPreference": "string",
    "privateDnsSpecifiedDomains": [ "string" ]
  },
  "privateDnsEnabled": boolean,
  "securityGroupIds": [ "string" ],
  "serviceNetworkIdentifier": "string",
  "tags": {
    "string" : "string"
  },
  "vpcIdentifier": "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 identifier that you provide to ensure the idempotency of the request. If you retry a request that completed successfully using the same client token and parameters, the retry succeeds without performing any actions. If the parameters aren't identical, the retry fails.

Type: String

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

Pattern: `. * [ ! ~ ] + . *`

Required: No

### dnsOptions

DNS options for the service network VPC association.

Type: [DnsOptions](#) object

Required: No

### privateDnsEnabled

Indicates if private DNS is enabled for the VPC association.

Type: Boolean

Required: No

### securityGroupIds

The IDs of the security groups. Security groups aren't added by default. You can add a security group to apply network level controls to control which resources in a VPC are allowed to access the service network and its services. For more information, see [Control traffic to resources using security groups](#) in the *Amazon VPC User Guide*.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Minimum length of 5. Maximum length of 200.

Pattern: `sg-(([0-9a-z]{8})|([0-9a-z]{17}))`

Required: No

### serviceNetworkIdentifier

The ID or ARN of the service network. You must use an ARN if the resources are in different accounts.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 2048.

Pattern: `((sn-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+:\d{12}:servicenetwork/sn-[0-9a-z]{17}))`

Required: Yes

### tags

The tags for the association.

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.

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

Required: No

### vpcIdentifier

The ID of the VPC.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 50.

Pattern: `vpc-(([0-9a-z]{8})|([0-9a-z]{17}))`

Required: Yes

## Response Syntax

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

{
  "arn": "string",
  "createdBy": "string",
  "dnsOptions": {
    "privateDnsPreference": "string",
    "privateDnsSpecifiedDomains": [ "string " ]
  },
  "id": "string",
  "privateDnsEnabled": boolean,
  "securityGroupIds": [ "string " ],
  "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.

### arn

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetworkkvpassociation/snva-[0-9a-z]{17}`

### createdBy

The account that created the association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: [0-9]{12}

### dnsOptions

The DNS configuration options.

Type: [DnsOptions](#) object

### id

The ID of the association.

Type: String

Length Constraints: Fixed length of 22.

Pattern: snva-[0-9a-z]{17}

### privateDnsEnabled

Indicates if private DNS is enabled for the VPC association.

Type: Boolean

### securityGroupIds

The IDs of the security groups.

Type: Array of strings

Length Constraints: Minimum length of 5. Maximum length of 200.

Pattern: sg-((( [0-9a-z]{8} ) | ( [0-9a-z]{17} )))

### status

The association status.

Type: String

Valid Values: CREATE\_IN\_PROGRESS | ACTIVE | UPDATE\_IN\_PROGRESS | DELETE\_IN\_PROGRESS | CREATE\_FAILED | DELETE\_FAILED | UPDATE\_FAILED

## Errors

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

## **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 409

## **InternalServerErrorException**

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## **ResourceNotFoundException**

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## **ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**resourceId**

The resource ID.

**resourceType**

The resource type.

**serviceCode**

The service code.

HTTP Status Code: 402

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

## See Also

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

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

# CreateTargetGroup

Creates a target group. A target group is a collection of targets, or compute resources, that run your application or service. A target group can only be used by a single service.

For more information, see [Target groups](#) in the *Amazon VPC Lattice User Guide*.

## Request Syntax

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

```
{
  "clientToken": "string",
  "config": {
    "healthCheck": {
      "enabled": boolean,
      "healthCheckIntervalSeconds": number,
      "healthCheckTimeoutSeconds": number,
      "healthyThresholdCount": number,
      "matcher": { ... },
      "path": "string",
      "port": number,
      "protocol": "string",
      "protocolVersion": "string",
      "unhealthyThresholdCount": number
    },
    "ipAddressType": "string",
    "lambdaEventStructureVersion": "string",
    "port": number,
    "protocol": "string",
    "protocolVersion": "string",
    "vpcIdentifier": "string"
  },
  "name": "string",
  "tags": {
    "string" : "string"
  },
  "type": "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 identifier that you provide to ensure the idempotency of the request. If you retry a request that completed successfully using the same client token and parameters, the retry succeeds without performing any actions. If the parameters aren't identical, the retry fails.

Type: String

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

Pattern: `.*[!~]+.*`

Required: No

### config

The target group configuration.

Type: [TargetGroupConfig](#) object

Required: No

### name

The name of the target group. The name must be unique within the account. The valid characters are a-z, 0-9, and hyphens (-). You can't use a hyphen as the first or last character, or immediately after another hyphen.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

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

Required: Yes

## tags

The tags for the target group.

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.

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

Required: No

## type

The type of target group.

Type: String

Valid Values: IP | LAMBDA | INSTANCE | ALB

Required: Yes

## Response Syntax

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

{
  "arn": "string",
  "config": {
    "healthCheck": {
      "enabled": boolean,
      "healthCheckIntervalSeconds": number,
      "healthCheckTimeoutSeconds": number,
      "healthyThresholdCount": number,
      "matcher": { ... },
      "path": "string",
      "port": number,
      "protocol": "string",
      "protocolVersion": "string",
      "unhealthyThresholdCount": number
    }
  }
}
```

```
    },
    "ipAddressType": "string",
    "lambdaEventStructureVersion": "string",
    "port": number,
    "protocol": "string",
    "protocolVersion": "string",
    "vpcIdentifier": "string"
  },
  "id": "string",
  "name": "string",
  "status": "string",
  "type": "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.

### arn

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+\:vpc-lattice:[a-zA-Z0-9\-\-]+\:\d{12}:targetgroup/tg-[0-9a-z]{17}`

### config

The target group configuration.

Type: [TargetGroupConfig](#) object

### id

The ID of the target group.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `tg-[0-9a-z]{17}`

### name

The name of the target group.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

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

### status

The status. You can retry the operation if the status is `CREATE_FAILED`. However, if you retry it while the status is `CREATE_IN_PROGRESS`, there is no change in the status.

Type: String

Valid Values: `CREATE_IN_PROGRESS` | `ACTIVE` | `DELETE_IN_PROGRESS` | `CREATE_FAILED` | `DELETE_FAILED`

### type

The type of target group.

Type: String

Valid Values: `IP` | `LAMBDA` | `INSTANCE` | `ALB`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 409

**InternalServerErrorException**

An unexpected error occurred while processing the request.

**retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

**ResourceNotFoundException**

The request references a resource that does not exist.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**resourceId**

The resource ID.

**resourceType**

The resource type.

**serviceCode**

The service code.

HTTP Status Code: 402

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

# DeleteAccessLogSubscription

Deletes the specified access log subscription.

## Request Syntax

```
DELETE /accesslogsubscriptions/accessLogSubscriptionIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### accessLogSubscriptionIdentifier

The ID or ARN of the access log subscription.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: `((als-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:accesslogsubscription/als-[0-9a-z]{17}))`

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**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerError**

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## **ResourceNotFoundException**

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## **ThrottlingException**

The limit on the number of requests per second was exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

### **serviceCode**

The service code.

HTTP Status Code: 429

## **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# DeleteAuthPolicy

Deletes the specified auth policy. If an auth is set to `AWS_IAM` and the auth policy is deleted, all requests are denied. If you are trying to remove the auth policy completely, you must set the auth type to `NONE`. If auth is enabled on the resource, but no auth policy is set, all requests are denied.

## Request Syntax

```
DELETE /authpolicy/resourceIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceIdentifier

The ID or ARN of the resource.

Length Constraints: Minimum length of 17. Maximum length of 200.

Pattern: (((sn)|(svc)|(rcfg))-[0-9a-z]{17})|(arn(:[a-z0-9]+(.[-][a-z0-9]+)\*){2}(:([a-z0-9]+(.[-][a-z0-9]+)\*)?)?){2}:(servicenetwork/sn)|(resourceconfiguration/rcfg)|(service/svc))-[0-9a-z]{17}))

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**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

### fieldList

The fields that failed validation.

### reason

The reason.

HTTP Status Code: 400

## See Also

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

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

# DeleteDomainVerification

Deletes the specified domain verification.

## Request Syntax

```
DELETE /domainverifications/domainVerificationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### domainVerificationIdentifier

The ID of the domain verification to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((dv-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:domainverification/dv-[a-fA-F0-9]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

## **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerError**

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## **ResourceNotFoundException**

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## **ThrottlingException**

The limit on the number of requests per second was exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

### **serviceCode**

The service code.

HTTP Status Code: 429

## **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# DeleteListener

Deletes the specified listener.

## Request Syntax

```
DELETE /services/serviceIdentifier/listeners/listenerIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### listenerIdentifier

The ID or ARN of the listener.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((listener-[0-9a-z]{17})|(^arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}\$))

Required: Yes

### serviceIdentifier

The ID or ARN of the service.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}))

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**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 409

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

# DeleteResourceConfiguration

Deletes the specified resource configuration.

## Request Syntax

```
DELETE /resourceconfigurations/resourceConfigurationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceConfigurationIdentifier

The ID or ARN of the resource configuration.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((rcfg-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}))

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

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## ConflictException

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 409

## InternalServerError

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

- [AWS SDK for Ruby V3](#)

# DeleteResourceEndpointAssociation

Disassociates the resource configuration from the resource VPC endpoint.

## Request Syntax

```
DELETE /resourceendpointassociations/resourceEndpointAssociationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceEndpointAssociationIdentifier

The ID or ARN of the association.

Length Constraints: Minimum length of 21. Maximum length of 2048.

Pattern: ((*rea*-[0-9a-f]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:resourceendpointassociation/*rea*-[0-9a-f]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "arn": "string",
  "id": "string",
  "resourceConfigurationArn": "string",
  "resourceConfigurationId": "string",
  "vpcEndpointId": "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.

### arn

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 21. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:  
d{12}:resourceendpointassociation/rea-[0-9a-f]{17}`

### id

The ID of the association.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `rea-[0-9a-f]{17}`

### resourceConfigurationArn

The Amazon Resource Name (ARN) of the resource configuration associated with the VPC endpoint of type resource.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9f\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:  
d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}`

### resourceConfigurationId

The ID of the resource configuration.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `rcfg-[0-9a-z]{17}`

### [vpcEndpointId](#)

The ID of the resource VPC endpoint that is associated with the resource configuration.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `vpce-[0-9a-f]{17}`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

### **serviceCode**

The service code.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

### **fieldList**

The fields that failed validation.

### **reason**

The reason.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# DeleteResourceGateway

Deletes the specified resource gateway.

## Request Syntax

```
DELETE /resourcegateways/resourceGatewayIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceGatewayIdentifier

The ID or ARN of the resource gateway.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((rgw-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:resourcegateway/rgw-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

```
{  
  "arn": "string",  
  "id": "string",  
  "name": "string",  
  "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.

### arn

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:resourcegateway/rgw-[0-9a-z]{17}`

### id

The ID of the resource gateway.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `rgw-[0-9a-z]{17}`

### name

The name of the resource gateway.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

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

### status

The status of the resource gateway.

Type: String

Valid Values: ACTIVE | CREATE\_IN\_PROGRESS | UPDATE\_IN\_PROGRESS | DELETE\_IN\_PROGRESS | CREATE\_FAILED | UPDATE\_FAILED | DELETE\_FAILED

## Errors

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

### AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 409

### InternalServerError

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

### **serviceCode**

The service code.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

### **fieldList**

The fields that failed validation.

### **reason**

The reason.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# DeleteResourcePolicy

Deletes the specified resource policy.

## Request Syntax

```
DELETE /resourcepolicy/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the resource.

Length Constraints: Minimum length of 20. Maximum length of 200.

Pattern: `arn(:[a-z0-9]+([\.-][a-z0-9]+)*){2}(:([a-z0-9]+([\.-][a-z0-9]+)*)?)`  
`{2}:(service/svc)|(resourceconfiguration/rcfg))-`  
`[0-9a-z]{17}`

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**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerError**

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## **ResourceNotFoundException**

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## **ThrottlingException**

The limit on the number of requests per second was exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

### **serviceCode**

The service code.

HTTP Status Code: 429

## **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

## See Also

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

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

# DeleteRule

Deletes a listener rule. Each listener has a default rule for checking connection requests, but you can define additional rules. Each rule consists of a priority, one or more actions, and one or more conditions. You can delete additional listener rules, but you cannot delete the default rule.

For more information, see [Listener rules](#) in the *Amazon VPC Lattice User Guide*.

## Request Syntax

```
DELETE /services/serviceIdentifier/listeners/listenerIdentifier/rules/ruleIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### listenerIdentifier

The ID or ARN of the listener.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((*listener*-[0-9a-z]{17})|(^arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}/listener/*listener*-[0-9a-z]{17}\$))

Required: Yes

### ruleIdentifier

The ID or ARN of the rule.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((*rule*-[0-9a-z]{17})|(^arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}/listener/*listener*-[0-9a-z]{17}/rule/*rule*-[0-9a-z]{17}\$))

Required: Yes

## serviceIdentifier

The ID or ARN of the service.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:service/svc-[0-9a-z]{17}))

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

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

#### **resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 409

**InternalServerErrorException**

An unexpected error occurred while processing the request.

**retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

**ResourceNotFoundException**

The request references a resource that does not exist.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

## See Also

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

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

# DeleteService

Deletes a service. A service can't be deleted if it's associated with a service network. If you delete a service, all resources related to the service, such as the resource policy, auth policy, listeners, listener rules, and access log subscriptions, are also deleted. For more information, see [Delete a service](#) in the *Amazon VPC Lattice User Guide*.

## Request Syntax

```
DELETE /services/serviceIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [serviceIdentifier](#)

The ID or ARN of the service.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:service/svc-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "arn": "string",
  "id": "string",
  "name": "string",
```

```
"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.

### [arn](#)

The Amazon Resource Name (ARN) of the service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}`

### [id](#)

The ID of the service.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `svc-[0-9a-z]{17}`

### [name](#)

The name of the service.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

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

### [status](#)

The status. You can retry the operation if the status is `DELETE_FAILED`. However, if you retry it while the status is `DELETE_IN_PROGRESS`, the status doesn't change.

Type: String

Valid Values: ACTIVE | CREATE\_IN\_PROGRESS | DELETE\_IN\_PROGRESS |  
CREATE\_FAILED | DELETE\_FAILED

## Errors

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

### AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 409

### InternalServerError

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

# DeleteServiceNetwork

Deletes a service network. You can only delete the service network if there is no service or VPC associated with it. If you delete a service network, all resources related to the service network, such as the resource policy, auth policy, and access log subscriptions, are also deleted. For more information, see [Delete a service network](#) in the *Amazon VPC Lattice User Guide*.

## Request Syntax

```
DELETE /servicenetworks/serviceNetworkIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### serviceNetworkIdentifier

The ID or ARN of the service network.

Length Constraints: Minimum length of 3. Maximum length of 2048.

Pattern: ((sn-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetwork/sn-[0-9a-z]{17}))

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

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 409

### InternalServerError

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

### **serviceCode**

The service code.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

### **fieldList**

The fields that failed validation.

### **reason**

The reason.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# DeleteServiceNetworkResourceAssociation

Deletes the association between a service network and a resource configuration.

## Request Syntax

```
DELETE /servicenetworkresourceassociations/serviceNetworkResourceAssociationIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### serviceNetworkResourceAssociationIdentifier

The ID of the association.

Length Constraints: Minimum length of 22. Maximum length of 2048.

Pattern: ((snra-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetworkresourceassociation/snra-[0-9a-f]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

```
{
  "arn": "string",
  "id": "string",
  "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.

### arn

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 22. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetworkresourceassociation/snra-[0-9a-f]{17}`

### id

The ID of the association.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `snra-[0-9a-f]{17}`

### status

The status of the association.

Type: String

Valid Values: `CREATE_IN_PROGRESS` | `ACTIVE` | `PARTIAL` | `DELETE_IN_PROGRESS` | `CREATE_FAILED` | `DELETE_FAILED`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

**retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# DeleteServiceNetworkServiceAssociation

Deletes the association between a service and a service network. This operation fails if an association is still in progress.

## Request Syntax

```
DELETE /servicenetworkserviceassociations/serviceNetworkServiceAssociationIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [serviceNetworkServiceAssociationIdentifier](#)

The ID or ARN of the association.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((snsa-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:servicenetworkserviceassociation/snsa-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "arn": "string",
  "id": "string",
  "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.

### arn

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:  
\d{12}:servicenetworkserviceassociation/snsa-[0-9a-z]{17}`

### id

The ID of the association.

Type: String

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: `((snsa-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:  
\d{12}:servicenetworkserviceassociation/snsa-[0-9a-z]{17}))`

### status

The status. You can retry the operation if the status is `DELETE_FAILED`. However, if you retry it when the status is `DELETE_IN_PROGRESS`, there is no change in the status.

Type: String

Valid Values: `CREATE_IN_PROGRESS` | `ACTIVE` | `DELETE_IN_PROGRESS` |  
`CREATE_FAILED` | `DELETE_FAILED`

## Errors

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

## AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## ConflictException

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 409

## InternalServerErrorException

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

- [AWS SDK for Ruby V3](#)

# DeleteServiceNetworkVpcAssociation

Disassociates the VPC from the service network. You can't disassociate the VPC if there is a create or update association in progress.

## Request Syntax

```
DELETE /servicenetworkvpcassociations/serviceNetworkVpcAssociationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [serviceNetworkVpcAssociationIdentifier](#)

The ID or ARN of the association.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((snva-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetworkvpcassociation/snva-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

```
{  
  "arn": "string",  
  "id": "string",  
  "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.

### arn

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetworkvpcassociation/snva-[0-9a-z]{17}`

### id

The ID of the association.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `snva-[0-9a-z]{17}`

### status

The status. You can retry the operation if the status is `DELETE_FAILED`. However, if you retry it while the status is `DELETE_IN_PROGRESS`, there is no change in the status.

Type: String

Valid Values: `CREATE_IN_PROGRESS` | `ACTIVE` | `UPDATE_IN_PROGRESS` | `DELETE_IN_PROGRESS` | `CREATE_FAILED` | `DELETE_FAILED` | `UPDATE_FAILED`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

**retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# DeleteTargetGroup

Deletes a target group. You can't delete a target group if it is used in a listener rule or if the target group creation is in progress.

## Request Syntax

```
DELETE /targetgroups/targetGroupIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### targetGroupIdentifier

The ID or ARN of the target group.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((tg-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:targetgroup/tg-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "arn": "string",
  "id": "string",
  "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.

### arn

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:targetgroup/tg-[0-9a-z]{17}`

### id

The ID of the target group.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `tg-[0-9a-z]{17}`

### status

The status. You can retry the operation if the status is `DELETE_FAILED`. However, if you retry it while the status is `DELETE_IN_PROGRESS`, the status doesn't change.

Type: String

Valid Values: `CREATE_IN_PROGRESS` | `ACTIVE` | `DELETE_IN_PROGRESS` | `CREATE_FAILED` | `DELETE_FAILED`

## Errors

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

### **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 409

**InternalServerErrorException**

An unexpected error occurred while processing the request.

**retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

**ResourceNotFoundException**

The request references a resource that does not exist.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

### fieldList

The fields that failed validation.

### reason

The reason.

HTTP Status Code: 400

## See Also

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

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

# DeregisterTargets

Deregisters the specified targets from the specified target group.

## Request Syntax

```
POST /targetgroups/targetGroupIdentifier/deregistertargets HTTP/1.1
Content-type: application/json

{
  "targets": [
    {
      "id": "string",
      "port": number
    }
  ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### targetGroupIdentifier

The ID or ARN of the target group.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((tg-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:targetgroup/tg-[0-9a-z]{17}))

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### targets

The targets to deregister.

Type: Array of [Target](#) objects

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

Required: Yes

## Response Syntax

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

{
  "successful": [
    {
      "id": "string",
      "port": number
    }
  ],
  "unsuccessful": [
    {
      "failureCode": "string",
      "failureMessage": "string",
      "id": "string",
      "port": number
    }
  ]
}
```

## Response Elements

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

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

### [successful](#)

The targets that were successfully deregistered.

Type: Array of [Target](#) objects

### [unsuccessful](#)

The targets that the operation couldn't deregister.

Type: Array of [TargetFailure](#) objects

## Errors

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

### AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 409

### InternalServerError

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

#### **fieldList**

The fields that failed validation.

#### **reason**

The reason.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

# GetAccessLogSubscription

Retrieves information about the specified access log subscription.

## Request Syntax

```
GET /accesslogsubscriptions/accessLogSubscriptionIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### accessLogSubscriptionIdentifier

The ID or ARN of the access log subscription.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((als-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:accesslogsubscription/als-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "arn": "string",
  "createdAt": "string",
  "destinationArn": "string",
  "id": "string",
  "lastUpdatedAt": "string",
  "resourceArn": "string",
  "resourceId": "string",
```

```
"serviceNetworkLogType": "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.

### [arn](#)

The Amazon Resource Name (ARN) of the access log subscription.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:  
\d{12}:accesslogsubscription/als-[0-9a-z]{17}`

### [createdAt](#)

The date and time that the access log subscription was created, in ISO-8601 format.

Type: Timestamp

### [destinationArn](#)

The Amazon Resource Name (ARN) of the access log destination.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

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

### [id](#)

The ID of the access log subscription.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `a1s-[0-9a-z]{17}`

### lastUpdatedAt

The date and time that the access log subscription was last updated, in ISO-8601 format.

Type: Timestamp

### resourceArn

The Amazon Resource Name (ARN) of the service network or service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 200.

Pattern: `arn(:[a-z0-9]+([\.-][a-z0-9]+)*){2}(:([a-z0-9]+([\.-][a-z0-9]+)*)?)  
{2}:((servicenetwork/sn)|(service/svc)|(resourceconfiguration/rcfg))-  
[0-9a-z]{17}`

### resourceId

The ID of the service network or service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 50.

Pattern: `((sn)|(svc))-[0-9a-z]{17}`

### serviceNetworkLogType

The log type for the service network.

Type: String

Valid Values: SERVICE | RESOURCE

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

#### **fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# GetAuthPolicy

Retrieves information about the auth policy for the specified service or service network.

## Request Syntax

```
GET /authpolicy/resourceIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceIdentifier

The ID or ARN of the service network or service.

Length Constraints: Minimum length of 17. Maximum length of 200.

Pattern: (((sn)|(svc)|(rcfg))-[0-9a-z]{17})|(arn(:[a-z0-9]+([\.-][a-z0-9]+)\*){2}(:([a-z0-9]+([\.-][a-z0-9]+)\*)?)?){2}:(servicenetwork/sn)|(resourceconfiguration/rcfg)|(service/svc))-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "createdAt": "string",
  "lastUpdatedAt": "string",
  "policy": "string",
  "state": "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.

### createdAt

The date and time that the auth policy was created, in ISO-8601 format.

Type: Timestamp

### lastUpdatedAt

The date and time that the auth policy was last updated, in ISO-8601 format.

Type: Timestamp

### policy

The auth policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 36864.

### state

The state of the auth policy. The auth policy is only active when the auth type is set to `AWS_IAM`. If you provide a policy, then authentication and authorization decisions are made based on this policy and the client's IAM policy. If the auth type is `NONE`, then any auth policy that you provide remains inactive. For more information, see [Create a service network](#) in the *Amazon VPC Lattice User Guide*.

Type: String

Valid Values: Active | Inactive

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

#### **fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# GetDomainVerification

Retrieves information about a domain verification.

## Request Syntax

```
GET /domainverifications/domainVerificationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### domainVerificationIdentifier

The ID or ARN of the domain verification to retrieve.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((dv-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:domainverification/dv-[a-fA-F0-9]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "arn": "string",
  "createdAt": "string",
  "domainName": "string",
  "id": "string",
  "lastVerifiedTime": "string",
  "status": "string",
  "tags": {
```

```
    "string" : "string"
  },
  "txtMethodConfig": {
    "name": "string",
    "value": "string"
  }
}
```

## Response Elements

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

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

### arn

The Amazon Resource Name (ARN) of the domain verification.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9f\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:domainverification/dv-[a-fA-F0-9]{17}`

### createdAt

The date and time that the domain verification was created, in ISO-8601 format.

Type: Timestamp

### domainName

The domain name being verified.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

### id

The ID of the domain verification.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `dv-[a-fA-F0-9]{17}`

### lastVerifiedTime

The date and time that the domain was last successfully verified, in ISO-8601 format.

Type: Timestamp

### status

The current status of the domain verification process.

Type: String

Valid Values: VERIFIED | PENDING | VERIFICATION\_TIMED\_OUT

### tags

The tags associated with the domain verification.

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.

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

### txtMethodConfig

The TXT record configuration used for domain verification.

Type: [TxtMethodConfig](#) object

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## InternalServerErrorException

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

### **serviceCode**

The service code.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

### **fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# GetListener

Retrieves information about the specified listener for the specified service.

## Request Syntax

```
GET /services/serviceIdentifier/listeners/listenerIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### listenerIdentifier

The ID or ARN of the listener.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((listener-[0-9a-z]{17})|(^arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}\$))

Required: Yes

### serviceIdentifier

The ID or ARN of the service.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "arn": "string",
  "createdAt": "string",
  "defaultAction": { ... },
  "id": "string",
  "lastUpdatedAt": "string",
  "name": "string",
  "port": number,
  "protocol": "string",
  "serviceArn": "string",
  "serviceId": "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.

### arn

The Amazon Resource Name (ARN) of the listener.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}`

### createdAt

The date and time that the listener was created, in ISO-8601 format.

Type: Timestamp

### defaultAction

The actions for the default listener rule.

Type: [RuleAction](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

## id

The ID of the listener.

Type: String

Length Constraints: Fixed length of 26.

Pattern: `listener-[0-9a-z]{17}`

## lastUpdatedAt

The date and time that the listener was last updated, in ISO-8601 format.

Type: Timestamp

## name

The name of the listener.

Type: String

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

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

## port

The listener port.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

## protocol

The listener protocol.

Type: String

Valid Values: HTTP | HTTPS | TLS\_PASSTHROUGH

## serviceArn

The Amazon Resource Name (ARN) of the service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}`

### serviceld

The ID of the service.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `svc-[0-9a-z]{17}`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

#### **fieldList**

The fields that failed validation.

#### **reason**

The reason.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

# GetResourceConfiguration

Retrieves information about the specified resource configuration.

## Request Syntax

```
GET /resourceconfigurations/resourceConfigurationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceConfigurationIdentifier

The ID of the resource configuration.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((rcfg-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "allowAssociationToShareableServiceNetwork": boolean,
  "amazonManaged": boolean,
  "arn": "string",
  "createdAt": "string",
  "customDomainName": "string",
  "domainVerificationArn": "string",
```

```
"domainVerificationId": "string",
"domainVerificationStatus": "string",
"failureReason": "string",
"groupDomain": "string",
"id": "string",
"lastUpdatedAt": "string",
"name": "string",
"portRanges": [ "string" ],
"protocol": "string",
"resourceConfigurationDefinition": { ... },
"resourceConfigurationGroupId": "string",
"resourceGatewayId": "string",
"status": "string",
"type": "string"
}
```

## Response Elements

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

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

### allowAssociationToShareableServiceNetwork

Specifies whether the resource configuration is associated with a sharable service network.

Type: Boolean

### amazonManaged

Indicates whether the resource configuration was created and is managed by Amazon.

Type: Boolean

### arn

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9f\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}`

### **createdAt**

The date and time that the resource configuration was created, in ISO-8601 format.

Type: Timestamp

### **customDomainName**

The custom domain name of the resource configuration.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

### **domainVerificationArn**

The ARN of the domain verification.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9f\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:domainverification/dv-[a-fA-F0-9]{17}`

### **domainVerificationId**

The domain verification ID.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `dv-[a-fA-F0-9]{17}`

### **domainVerificationStatus**

The domain verification status.

Type: String

Valid Values: VERIFIED | PENDING | VERIFICATION\_TIMED\_OUT

### **failureReason**

The reason the create-resource-configuration request failed.

Type: String

### groupDomain

(GROUP) The group domain for a group resource configuration. Any domains that you create for the child resource are subdomains of the group domain. Child resources inherit the verification status of the domain.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

### id

The ID of the resource configuration.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `rcfg-[0-9a-z]{17}`

### lastUpdatedAt

The most recent date and time that the resource configuration was updated, in ISO-8601 format.

Type: Timestamp

### name

The name of the resource configuration.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

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

### portRanges

The TCP port ranges that a consumer can use to access a resource configuration. You can separate port ranges with a comma. Example: 1-65535 or 1,2,22-30

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 11.

Pattern: ((\d{1,5}\-\d{1,5})|(\d+))

### protocol

The TCP protocol accepted by the specified resource configuration.

Type: String

Valid Values: TCP

### resourceConfigurationDefinition

The resource configuration.

Type: [ResourceConfigurationDefinition](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### resourceConfigurationGroupId

The ID of the group resource configuration.

Type: String

Length Constraints: Fixed length of 22.

Pattern: rcfg-[0-9a-z]{17}

### resourceGatewayId

The ID of the resource gateway used to connect to the resource configuration in a given VPC. You can specify the resource gateway identifier only for resource configurations with type SINGLE, GROUP, or ARN.

Type: String

Length Constraints: Fixed length of 21.

Pattern: rgw-[0-9a-z]{17}

### status

The status of the resource configuration.

Type: String

Valid Values: ACTIVE | CREATE\_IN\_PROGRESS | UPDATE\_IN\_PROGRESS | DELETE\_IN\_PROGRESS | CREATE\_FAILED | UPDATE\_FAILED | DELETE\_FAILED

### type

The type of resource configuration.

- SINGLE - A single resource.
- GROUP - A group of resources.
- CHILD - A single resource that is part of a group resource configuration.
- ARN - An AWS resource.

Type: String

Valid Values: GROUP | CHILD | SINGLE | ARN

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

# GetResourceGateway

Retrieves information about the specified resource gateway.

## Request Syntax

```
GET /resourcegateways/resourceGatewayIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceGatewayIdentifier

The ID of the resource gateway.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((rgw-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:resourcegateway/rgw-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "arn": "string",
  "createdAt": "string",
  "id": "string",
  "ipAddressType": "string",
  "ipv4AddressesPerEni": number,
  "lastUpdatedAt": "string",
  "name": "string",
```

```
"securityGroupIds": [ "string" ],
"status": "string",
"subnetIds": [ "string" ],
"vpcId": "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.

### [arn](#)

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:resourcegateway/rgw-[0-9a-z]{17}`

### [createdAt](#)

The date and time that the resource gateway was created, in ISO-8601 format.

Type: Timestamp

### [id](#)

The ID of the resource gateway.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `rgw-[0-9a-z]{17}`

### [ipAddressType](#)

The type of IP address for the resource gateway.

Type: String

Valid Values: IPV4 | IPV6 | DUALSTACK

### ipv4AddressesPerEni

The number of IPv4 addresses in each ENI for the resource gateway.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 62.

### lastUpdatedAt

The date and time that the resource gateway was last updated, in ISO-8601 format.

Type: Timestamp

### name

The name of the resource gateway.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: (?!\rgw-)(?![-])(?!.\*[-]\$)(?!.\*[-]{2})[a-z0-9-]+

### securityGroupIds

The security group IDs associated with the resource gateway.

Type: Array of strings

Length Constraints: Minimum length of 5. Maximum length of 200.

Pattern: sg-((([0-9a-z]{8})|([0-9a-z]{17})))

### status

The status for the resource gateway.

Type: String

Valid Values: ACTIVE | CREATE\_IN\_PROGRESS | UPDATE\_IN\_PROGRESS | DELETE\_IN\_PROGRESS | CREATE\_FAILED | UPDATE\_FAILED | DELETE\_FAILED

### subnetIds

The IDs of the VPC subnets for resource gateway.

Type: Array of strings

Length Constraints: Minimum length of 5. Maximum length of 200.

### vpclId

The ID of the VPC for the resource gateway.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 50.

Pattern: vpc-(([0-9a-z]{8})|([0-9a-z]{17}))

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

### **serviceCode**

The service code.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

### **fieldList**

The fields that failed validation.

### **reason**

The reason.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# GetResourcePolicy

Retrieves information about the specified resource policy. The resource policy is an IAM policy created on behalf of the resource owner when they share a resource.

## Request Syntax

```
GET /resourcepolicy/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the service network or service.

Length Constraints: Minimum length of 20. Maximum length of 200.

Pattern: `arn(:[a-z0-9]+(.[-][a-z0-9]+)*){2}(:([a-z0-9]+(.[-][a-z0-9]+)*)?)  
{2}:(servicenetwork/sn)|(service/svc)|(resourceconfiguration/rcfg))-  
[0-9a-z]{17}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

```
{  
  "policy": "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.

### policy

An IAM policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10000.

Pattern: `.*\S.*`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

# GetRule

Retrieves information about the specified listener rules. You can also retrieve information about the default listener rule. For more information, see [Listener rules](#) in the *Amazon VPC Lattice User Guide*.

## Request Syntax

```
GET /services/serviceIdentifier/listeners/listenerIdentifier/rules/ruleIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### listenerIdentifier

The ID or ARN of the listener.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((*listener*-[0-9a-z]{17})|(^arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}/listener/*listener*-[0-9a-z]{17}\$))

Required: Yes

### ruleIdentifier

The ID or ARN of the listener rule.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((*rule*-[0-9a-z]{17})|(^arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}/listener/*listener*-[0-9a-z]{17}/rule/*rule*-[0-9a-z]{17}\$))

Required: Yes

### serviceIdentifier

The ID or ARN of the service.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "action": { ... },
  "arn": "string",
  "createdAt": "string",
  "id": "string",
  "isDefault": boolean,
  "lastUpdatedAt": "string",
  "match": { ... },
  "name": "string",
  "priority": number
}
```

## Response Elements

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

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

### action

The action for the default rule.

Type: [RuleAction](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

## arn

The Amazon Resource Name (ARN) of the listener.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}/rule/rule-[0-9a-z]{17}`

## createdAt

The date and time that the listener rule was created, in ISO-8601 format.

Type: Timestamp

## id

The ID of the listener.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 22.

Pattern: `rule-[0-9a-z]{17}`

## isDefault

Indicates whether this is the default rule.

Type: Boolean

## lastUpdatedAt

The date and time that the listener rule was last updated, in ISO-8601 format.

Type: Timestamp

## match

The rule match.

Type: [RuleMatch](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

## name

The name of the listener.

Type: String

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

Pattern: (?!rule-)(?![-])(?!.\*[-]\$)(?!.\*[-]{2})[a-z0-9-]+

## priority

The priority level for the specified rule.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 2000.

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

# GetService

Retrieves information about the specified service.

## Request Syntax

```
GET /services/serviceIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### serviceIdentifier

The ID or ARN of the service.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:service/svc-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

```
{
  "arn": "string",
  "authType": "string",
  "certificateArn": "string",
  "createdAt": "string",
  "customDomainName": "string",
  "dnsEntry": {
    "domainName": "string",
```

```
    "hostedZoneId": "string"
  },
  "failureCode": "string",
  "failureMessage": "string",
  "id": "string",
  "lastUpdatedAt": "string",
  "name": "string",
  "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.

### arn

The Amazon Resource Name (ARN) of the service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}`

### authType

The type of IAM policy.

Type: String

Valid Values: NONE | AWS\_IAM

### certificateArn

The Amazon Resource Name (ARN) of the certificate.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `(arn(:[a-z0-9]+([\.-][a-z0-9]+)*){2}(:([a-z0-9]+([\.-][a-z0-9]+)*)?)?){2}:certificate/[0-9a-z-]+)?`

### createdAt

The date and time that the service was created, in ISO-8601 format.

Type: Timestamp

### customDomainName

The custom domain name of the service.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

### dnsEntry

The DNS name of the service.

Type: [DnsEntry](#) object

### failureCode

The failure code.

Type: String

### failureMessage

The failure message.

Type: String

### id

The ID of the service.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `svc-[0-9a-z]{17}`

### lastUpdatedAt

The date and time that the service was last updated, in ISO-8601 format.

Type: Timestamp

## name

The name of the service.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: (?!svc-)(?![-])(?!.\*[-]\$)(?!.\*[-]{2})[a-z0-9-]+

## status

The status of the service.

Type: String

Valid Values: ACTIVE | CREATE\_IN\_PROGRESS | DELETE\_IN\_PROGRESS |  
CREATE\_FAILED | DELETE\_FAILED

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

# GetServiceNetwork

Retrieves information about the specified service network.

## Request Syntax

```
GET /servicenetworks/serviceNetworkIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### serviceNetworkIdentifier

The ID or ARN of the service network.

Length Constraints: Minimum length of 3. Maximum length of 2048.

Pattern: ((sn-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:servicenetwork/sn-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "arn": "string",
  "authType": "string",
  "createdAt": "string",
  "id": "string",
  "lastUpdatedAt": "string",
  "name": "string",
  "numberOfAssociatedServices": number,
```

```
"numberOfAssociatedVPCs": number,  
"sharingConfig": {  
  "enabled": boolean  
}  
}
```

## Response Elements

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

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

### arn

The Amazon Resource Name (ARN) of the service network.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+\:vpc-lattice:[a-zA-Z0-9\-\-]+\:\d{12}:servicenetwork/sn-[0-9a-z]{17}`

### authType

The type of IAM policy.

Type: String

Valid Values: NONE | AWS\_IAM

### createdAt

The date and time that the service network was created, in ISO-8601 format.

Type: Timestamp

### id

The ID of the service network.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `sn-[0-9a-z]{17}`

### lastUpdatedAt

The date and time of the last update, in ISO-8601 format.

Type: Timestamp

### name

The name of the service network.

Type: String

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

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

### numberOfAssociatedServices

The number of services associated with the service network.

Type: Long

### numberOfAssociatedVPCs

The number of VPCs associated with the service network.

Type: Long

### sharingConfig

Specifies if the service network is enabled for sharing.

Type: [SharingConfig](#) object

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## InternalServerErrorException

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

### **serviceCode**

The service code.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

### **fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# GetServiceNetworkResourceAssociation

Retrieves information about the specified association between a service network and a resource configuration.

## Request Syntax

```
GET /servicenetworkresourceassociations/serviceNetworkResourceAssociationIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [serviceNetworkResourceAssociationIdentifier](#)

The ID of the association.

Length Constraints: Minimum length of 22. Maximum length of 2048.

Pattern: ((snra-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetworkresourceassociation/snra-[0-9a-f]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

```
{
  "arn": "string",
  "createdAt": "string",
  "createdBy": "string",
  "dnsEntry": {
    "domainName": "string",
```

```

    "hostedZoneId": "string"
  },
  "domainVerificationStatus": "string",
  "failureCode": "string",
  "failureReason": "string",
  "id": "string",
  "isManagedAssociation": boolean,
  "lastUpdatedAt": "string",
  "privateDnsEnabled": boolean,
  "privateDnsEntry": {
    "domainName": "string",
    "hostedZoneId": "string"
  },
  "resourceConfigurationArn": "string",
  "resourceConfigurationId": "string",
  "resourceConfigurationName": "string",
  "serviceNetworkArn": "string",
  "serviceNetworkId": "string",
  "serviceNetworkName": "string",
  "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.

### arn

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 22. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:servicenetworkresourceassociation/snra-[0-9a-f]{17}`

### createdAt

The date and time that the association was created, in ISO-8601 format.

Type: Timestamp

### createdBy

The account that created the association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `[0-9]{12}`

### dnsEntry

The DNS entry for the service.

Type: [DnsEntry](#) object

### domainVerificationStatus

The domain verification status in the service network resource association.

Type: String

Valid Values: VERIFIED | PENDING | VERIFICATION\_TIMED\_OUT

### failureCode

The failure code.

Type: String

### failureReason

The reason the association request failed.

Type: String

### id

The ID of the association.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `snra-[0-9a-f]{17}`

### isManagedAssociation

Indicates whether the association is managed by Amazon.

Type: Boolean

### lastUpdatedAt

The most recent date and time that the association was updated, in ISO-8601 format.

Type: Timestamp

### privateDnsEnabled

Indicates if private DNS is enabled in the service network resource association.

Type: Boolean

### privateDnsEntry

The private DNS entry for the service.

Type: [DnsEntry](#) object

### resourceConfigurationArn

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9f\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}`

### resourceConfigurationId

The ID of the resource configuration that is associated with the service network.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `rcfg-[0-9a-z]{17}`

### resourceConfigurationName

The name of the resource configuration that is associated with the service network.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: (?!rcfg-)(?![-])(?!.\*[-]\$)(?!.\*[-]{2})[a-z0-9-]+

### serviceNetworkArn

The Amazon Resource Name (ARN) of the service network that is associated with the resource configuration.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 2048.

### serviceNetworkId

The ID of the service network that is associated with the resource configuration.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 2048.

### serviceNetworkName

The name of the service network that is associated with the resource configuration.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

### status

The status of the association.

Type: String

Valid Values: CREATE\_IN\_PROGRESS | ACTIVE | PARTIAL | DELETE\_IN\_PROGRESS | CREATE\_FAILED | DELETE\_FAILED

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## InternalServerError

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

### **serviceCode**

The service code.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

### **fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# GetServiceNetworkServiceAssociation

Retrieves information about the specified association between a service network and a service.

## Request Syntax

```
GET /servicenetworkserviceassociations/serviceNetworkServiceAssociationIdentifier
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [serviceNetworkServiceAssociationIdentifier](#)

The ID or ARN of the association.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((*snsa*-[0-9a-z]{17})|(arn:[a-z0-9\-\+]+:vpc-lattice:[a-zA-Z0-9\-\+:\d{12}:servicenetworkserviceassociation/*snsa*-[0-9a-z]{17})))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "arn": "string",
  "createdAt": "string",
  "createdBy": "string",
  "customDomainName": "string",
  "dnsEntry": {
    "domainName": "string",
```

```
    "hostedZoneId": "string",
  },
  "failureCode": "string",
  "failureMessage": "string",
  "id": "string",
  "serviceArn": "string",
  "serviceId": "string",
  "serviceName": "string",
  "serviceNetworkArn": "string",
  "serviceNetworkId": "string",
  "serviceNetworkName": "string",
  "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.

### arn

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:  
\d{12}:servicenetworkserviceassociation/snsa-[0-9a-z]{17}

### createdAt

The date and time that the association was created, in ISO-8601 format.

Type: Timestamp

### createdBy

The account that created the association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `[0-9]{12}`

### customDomainName

The custom domain name of the service.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

### dnsEntry

The DNS name of the service.

Type: [DnsEntry](#) object

### failureCode

The failure code.

Type: String

### failureMessage

The failure message.

Type: String

### id

The ID of the service network and service association.

Type: String

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: `((snsa-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetworkserviceassociation/snsa-[0-9a-z]{17}))`

### serviceArn

The Amazon Resource Name (ARN) of the service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}`

### serviceId

The ID of the service.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `svc-[0-9a-z]{17}`

### serviceName

The name of the service.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

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

### serviceNetworkArn

The Amazon Resource Name (ARN) of the service network.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:servicenetwork/sn-[0-9a-z]{17}`

### serviceNetworkId

The ID of the service network.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `sn-[0-9a-z]{17}`

### serviceNetworkName

The name of the service network.

Type: String

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

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

### status

The status of the association.

Type: String

Valid Values: CREATE\_IN\_PROGRESS | ACTIVE | DELETE\_IN\_PROGRESS |  
CREATE\_FAILED | DELETE\_FAILED

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

#### **fieldList**

The fields that failed validation.

#### **reason**

The reason.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

# GetServiceNetworkVpcAssociation

Retrieves information about the specified association between a service network and a VPC.

## Request Syntax

```
GET /servicenetworkvpcassociations/serviceNetworkVpcAssociationIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### serviceNetworkVpcAssociationIdentifier

The ID or ARN of the association.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((snva-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:servicenetworkvpcassociation/snva-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "arn": "string",
  "createdAt": "string",
  "createdBy": "string",
  "dnsOptions": {
    "privateDnsPreference": "string",
    "privateDnsSpecifiedDomains": [ "string" ]
  },
}
```

```
"failureCode": "string",
"failureMessage": "string",
"id": "string",
"lastUpdatedAt": "string",
"privateDnsEnabled": boolean,
"securityGroupIds": [ "string" ],
"serviceNetworkArn": "string",
"serviceNetworkId": "string",
"serviceNetworkName": "string",
"status": "string",
"vpcId": "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.

### [arn](#)

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:servicenetworkvpcassociation/snva-[0-9a-z]{17}`

### [createdAt](#)

The date and time that the association was created, in ISO-8601 format.

Type: Timestamp

### [createdBy](#)

The account that created the association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `[0-9]{12}`

## dnsOptions

DNS options for the service network VPC association.

Type: [DnsOptions](#) object

## failureCode

The failure code.

Type: String

## failureMessage

The failure message.

Type: String

## id

The ID of the association.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `snva-[0-9a-z]{17}`

## lastUpdatedAt

The date and time that the association was last updated, in ISO-8601 format.

Type: Timestamp

## privateDnsEnabled

Indicates if private DNS is enabled in the VPC association.

Type: Boolean

## securityGroupIds

The IDs of the security groups.

Type: Array of strings

Length Constraints: Minimum length of 5. Maximum length of 200.

Pattern: `sg-(( [0-9a-z]{8} ) | ( [0-9a-z]{17} ))`

### serviceNetworkArn

The Amazon Resource Name (ARN) of the service network.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:servicenetwork/sn-[0-9a-z]{17}`

### serviceNetworkId

The ID of the service network.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `sn-[0-9a-z]{17}`

### serviceNetworkName

The name of the service network.

Type: String

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

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

### status

The status of the association.

Type: String

Valid Values: `CREATE_IN_PROGRESS | ACTIVE | UPDATE_IN_PROGRESS | DELETE_IN_PROGRESS | CREATE_FAILED | DELETE_FAILED | UPDATE_FAILED`

### vpclId

The ID of the VPC.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 50.

Pattern: `vpc-(([0-9a-z]{8})|([0-9a-z]{17}))`

## Errors

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

### AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerError

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

### ThrottlingException

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# GetTargetGroup

Retrieves information about the specified target group.

## Request Syntax

```
GET /targetgroups/targetGroupIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [targetGroupIdentifier](#)

The ID or ARN of the target group.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((tg-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:targetgroup/tg-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "arn": "string",
  "config": {
    "healthCheck": {
      "enabled": boolean,
      "healthCheckIntervalSeconds": number,
      "healthCheckTimeoutSeconds": number,
      "healthyThresholdCount": number,
      "matcher": { ... },
```

```

    "path": "string",
    "port": number,
    "protocol": "string",
    "protocolVersion": "string",
    "unhealthyThresholdCount": number
  },
  "ipAddressType": "string",
  "lambdaEventStructureVersion": "string",
  "port": number,
  "protocol": "string",
  "protocolVersion": "string",
  "vpcIdentifier": "string"
},
"createdAt": "string",
"failureCode": "string",
"failureMessage": "string",
"id": "string",
"lastUpdatedAt": "string",
"name": "string",
"serviceArns": [ "string" ],
"status": "string",
"type": "string"
}

```

## Response Elements

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

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

### arn

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+\:vpc-lattice:[a-zA-Z0-9\-\-]+\:\d{12}:targetgroup/tg-[0-9a-z]{17}`

### config

The target group configuration.

Type: [TargetGroupConfig](#) object

### [createdAt](#)

The date and time that the target group was created, in ISO-8601 format.

Type: Timestamp

### [failureCode](#)

The failure code.

Type: String

### [failureMessage](#)

The failure message.

Type: String

### [id](#)

The ID of the target group.

Type: String

Length Constraints: Fixed length of 20.

Pattern: tg-[0-9a-z]{17}

### [lastUpdatedAt](#)

The date and time that the target group was last updated, in ISO-8601 format.

Type: Timestamp

### [name](#)

The name of the target group.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

Pattern: (?!tg-)(?![-])(?!.\*[-]\$)(?!.\*[-]{2})[a-z0-9-]+

### [serviceArns](#)

The Amazon Resource Names (ARNs) of the service.

Type: Array of strings

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}`

### status

The status.

Type: String

Valid Values: CREATE\_IN\_PROGRESS | ACTIVE | DELETE\_IN\_PROGRESS | CREATE\_FAILED | DELETE\_FAILED

### type

The target group type.

Type: String

Valid Values: IP | LAMBDA | INSTANCE | ALB

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)

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

# ListAccessLogSubscriptions

Lists the access log subscriptions for the specified service network or service.

## Request Syntax

```
GET /accesslogsubscriptions?  
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.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

A pagination token for the next page of results.

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

### resourceIdentifier

The ID or ARN of the service network or service.

Length Constraints: Minimum length of 17. Maximum length of 200.

Pattern: (((sn)|(svc)|(rcfg))-[0-9a-z]{17})|(arn(:[a-z0-9]+([.-][a-z0-9]+)\*){2}(:([a-z0-9]+([.-][a-z0-9]+)\*)?)?){2}:((servicenetwork/sn)|(resourceconfiguration/rcfg)|(service/svc))-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "items": [
    {
      "arn": "string",
      "createdAt": "string",
      "destinationArn": "string",
      "id": "string",
      "lastUpdatedAt": "string",
      "resourceArn": "string",
      "resourceId": "string",
      "serviceNetworkLogType": "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.

### items

Information about the access log subscriptions.

Type: Array of [AccessLogSubscriptionSummary](#) objects

### nextToken

A pagination token for the next page of results.

Type: String

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

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

#### **fieldList**

The fields that failed validation.

#### **reason**

The reason.

HTTP Status Code: 400

## See Also

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

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

# ListDomainVerifications

Lists the domain verifications.

## Request Syntax

```
GET /domainverifications?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.

Valid Range: Minimum value of 1. Maximum value of 100.

### [nextToken](#)

A pagination token for the next page of results.

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

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "items": [
    {
      "arn": "string",
      "createdAt": "string",
      "domainName": "string",
      "id": "string",
```

```
    "lastVerifiedTime": "string",
    "status": "string",
    "tags": {
      "string" : "string"
    },
    "txtMethodConfig": {
      "name": "string",
      "value": "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.

### items

Information about the domain verifications.

Type: Array of [DomainVerificationSummary](#) objects

### nextToken

A pagination token for the next page of results.

Type: String

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

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## InternalServerError

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

### **serviceCode**

The service code.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

### **fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# ListListeners

Lists the listeners for the specified service.

## Request Syntax

```
GET /services/serviceIdentifier/listeners?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.

Valid Range: Minimum value of 1. Maximum value of 100.

### [nextToken](#)

A pagination token for the next page of results.

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

### [serviceIdentifier](#)

The ID or ARN of the service.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:service/svc-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "items": [
    {
      "arn": "string",
      "createdAt": "string",
      "id": "string",
      "lastUpdatedAt": "string",
      "name": "string",
      "port": number,
      "protocol": "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.

### items

Information about the listeners.

Type: Array of [ListenerSummary](#) objects

### nextToken

If there are additional results, a pagination token for the next page of results.

Type: String

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

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

#### **fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# ListResourceConfigurations

Lists the resource configurations owned by or shared with this account.

## Request Syntax

```
GET /resourceconfigurations?  
domainVerificationIdentifier=domainVerificationIdentifier&maxResults=maxResults&nextToken=nextToken  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### domainVerificationIdentifier

The domain verification ID.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((dv-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:  
\d{12}:domainverification/dv-[a-fA-F0-9]{17}))

### maxResults

The maximum page size.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

A pagination token for the next page of results.

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

### resourceConfigurationGroupIdentifier

The ID of the resource configuration of type Group.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((rcfg-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:  
\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}))

## resourceGatewayIdentifier

The ID of the resource gateway for the resource configuration.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((rgw-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:resourcegateway/rgw-[0-9a-z]{17}))

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "items": [
    {
      "amazonManaged": boolean,
      "arn": "string",
      "createdAt": "string",
      "customDomainName": "string",
      "domainVerificationId": "string",
      "groupDomain": "string",
      "id": "string",
      "lastUpdatedAt": "string",
      "name": "string",
      "resourceConfigurationGroupId": "string",
      "resourceGatewayId": "string",
      "status": "string",
      "type": "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.

### items

Information about the resource configurations.

Type: Array of [ResourceConfigurationSummary](#) objects

### nextToken

If there are additional results, a pagination token for the next page of results.

Type: String

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

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# ListResourceEndpointAssociations

Lists the associations for the specified VPC endpoint.

## Request Syntax

```
GET /resourceendpointassociations?  
maxResults=maxResults&nextToken=nextToken&resourceConfigurationIdentifier=resourceConfigurationIdentifier  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum page size.

Valid Range: Minimum value of 1. Maximum value of 100.

### [nextToken](#)

A pagination token for the next page of results.

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

### [resourceConfigurationIdentifier](#)

The ID for the resource configuration associated with the VPC endpoint.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((rcfg-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:  
\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}))

Required: Yes

### [resourceEndpointAssociationIdentifier](#)

The ID of the association.

Length Constraints: Minimum length of 21. Maximum length of 2048.

Pattern: ((`rea-[0-9a-f]{17}`)|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:resourceendpointassociation/rea-[0-9a-f]{17}))

### vpcEndpointId

The ID of the VPC endpoint in the association.

Length Constraints: Fixed length of 22.

Pattern: `vpce-[0-9a-f]{17}`

### vpcEndpointOwner

The owner of the VPC endpoint in the association.

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "items": [
    {
      "arn": "string",
      "createdAt": "string",
      "createdBy": "string",
      "id": "string",
      "resourceConfigurationArn": "string",
      "resourceConfigurationId": "string",
      "resourceConfigurationName": "string",
      "vpcEndpointId": "string",
      "vpcEndpointOwner": "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.

### items

Information about the VPC endpoint associations.

Type: Array of [ResourceEndpointAssociationSummary](#) objects

### nextToken

If there are additional results, a pagination token for the next page of results.

Type: String

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

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

- [AWS SDK for Ruby V3](#)

# ListResourceGateways

Lists the resource gateways that you own or that were shared with you.

## Request Syntax

```
GET /resourcegateways?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum page size.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

If there are additional results, a pagination token for the next page of results.

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

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "items": [
    {
      "arn": "string",
      "createdAt": "string",
      "id": "string",
      "ipAddressType": "string",
      "ipv4AddressesPerEni": number,
```

```
    "lastUpdatedAt": "string",
    "name": "string",
    "securityGroupIds": [ "string" ],
    "status": "string",
    "subnetIds": [ "string" ],
    "vpcIdentifier": "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.

### items

Information about the resource gateways.

Type: Array of [ResourceGatewaySummary](#) objects

### nextToken

If there are additional results, a pagination token for the next page of results.

Type: String

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

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

**retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

# ListRules

Lists the rules for the specified listener.

## Request Syntax

```
GET /services/serviceIdentifier/listeners/listenerIdentifier/rules?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### listenerIdentifier

The ID or ARN of the listener.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((*listener*-[0-9a-z]{17})|(^arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}/listener/*listener*-[0-9a-z]{17}\$))

Required: Yes

### maxResults

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

A pagination token for the next page of results.

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

### serviceIdentifier

The ID or ARN of the service.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:service/svc-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "items": [
    {
      "arn": "string",
      "createdAt": "string",
      "id": "string",
      "isDefault": boolean,
      "lastUpdatedAt": "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.

### items

Information about the rules.

Type: Array of [RuleSummary](#) objects

## **nextToken**

If there are additional results, a pagination token for the next page of results.

Type: String

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

## **Errors**

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

- [AWS SDK for Ruby V3](#)

# ListServiceNetworkResourceAssociations

Lists the associations between a service network and a resource configuration.

## Request Syntax

```
GET /servicenetworkresourceassociations?  
includeChildren=includeChildren&maxResults=maxResults&nextToken=nextToken&resourceConfiguration  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### includeChildren

Include service network resource associations of the child resource configuration with the grouped resource configuration.

The type is boolean and the default value is false.

### maxResults

The maximum page size.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

If there are additional results, a pagination token for the next page of results.

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

### resourceConfigurationIdentifier

The ID of the resource configuration.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((rcfg-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:  
\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}))

### serviceNetworkIdentifier

The ID of the service network.

Length Constraints: Minimum length of 3. Maximum length of 2048.

Pattern: ((sn-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:servicenetwork/sn-[0-9a-z]{17}))

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "items": [
    {
      "arn": "string",
      "createdAt": "string",
      "createdBy": "string",
      "dnsEntry": {
        "domainName": "string",
        "hostedZoneId": "string"
      },
      "failureCode": "string",
      "id": "string",
      "isManagedAssociation": boolean,
      "privateDnsEnabled": boolean,
      "privateDnsEntry": {
        "domainName": "string",
        "hostedZoneId": "string"
      },
      "resourceConfigurationArn": "string",
      "resourceConfigurationId": "string",
      "resourceConfigurationName": "string",
      "serviceNetworkArn": "string",
      "serviceNetworkId": "string",
      "serviceNetworkName": "string",
      "status": "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.

### items

Information about the associations.

Type: Array of [ServiceNetworkResourceAssociationSummary](#) objects

### nextToken

If there are additional results, a pagination token for the next page of results.

Type: String

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

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

- [AWS SDK for Ruby V3](#)

# ListServiceNetworks

Lists the service networks owned by or shared with this account. The account ID in the ARN shows which account owns the service network.

## Request Syntax

```
GET /servicenetworks?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.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

A pagination token for the next page of results.

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

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "items": [
    {
      "arn": "string",
      "createdAt": "string",
      "id": "string",
```

```
    "lastUpdatedAt": "string",
    "name": "string",
    "numberOfAssociatedResourceConfigurations": number,
    "numberOfAssociatedServices": number,
    "numberOfAssociatedVPCs": 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.

### items

Information about the service networks.

Type: Array of [ServiceNetworkSummary](#) objects

### nextToken

If there are additional results, a pagination token for the next page of results.

Type: String

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

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

**retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

# ListServiceNetworkServiceAssociations

Lists the associations between a service network and a service. You can filter the list either by service or service network. You must provide either the service network identifier or the service identifier.

Every association in Amazon VPC Lattice has a unique Amazon Resource Name (ARN), such as when a service network is associated with a VPC or when a service is associated with a service network. If the association is for a resource is shared with another account, the association includes the local account ID as the prefix in the ARN.

## Request Syntax

```
GET /servicenetworkserviceassociations?
maxResults=maxResults&nextToken=nextToken&serviceIdentifier=serviceIdentifier&serviceNetworkId=
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

A pagination token for the next page of results.

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

### serviceIdentifier

The ID or ARN of the service.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}))

## serviceNetworkIdentifier

The ID or ARN of the service network.

Length Constraints: Minimum length of 3. Maximum length of 2048.

Pattern: ((sn-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetwork/sn-[0-9a-z]{17}))

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "items": [
    {
      "arn": "string",
      "createdAt": "string",
      "createdBy": "string",
      "customDomainName": "string",
      "dnsEntry": {
        "domainName": "string",
        "hostedZoneId": "string"
      },
      "id": "string",
      "serviceArn": "string",
      "serviceId": "string",
      "serviceName": "string",
      "serviceNetworkArn": "string",
      "serviceNetworkId": "string",
      "serviceNetworkName": "string",
      "status": "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.

### items

Information about the associations.

Type: Array of [ServiceNetworkServiceAssociationSummary](#) objects

### nextToken

If there are additional results, a pagination token for the next page of results.

Type: String

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

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

- [AWS SDK for Ruby V3](#)

# ListServiceNetworkVpcAssociations

Lists the associations between a service network and a VPC. You can filter the list either by VPC or service network. You must provide either the ID of the service network identifier or the ID of the VPC.

## Request Syntax

```
GET /servicenetworkvpcassociations?  
maxResults=maxResults&nextToken=nextToken&serviceNetworkIdentifier=serviceNetworkIdentifier&vpc  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

A pagination token for the next page of results.

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

### serviceNetworkIdentifier

The ID or ARN of the service network.

Length Constraints: Minimum length of 3. Maximum length of 2048.

Pattern: ((sn-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:  
\d{12}:servicenetwork/sn-[0-9a-z]{17}))

### vpcIdentifier

The ID or ARN of the VPC.

Length Constraints: Minimum length of 5. Maximum length of 50.

Pattern: vpc-(((0-9a-z){8})|((0-9a-z){17}))

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "items": [
    {
      "arn": "string",
      "createdAt": "string",
      "createdBy": "string",
      "dnsOptions": {
        "privateDnsPreference": "string",
        "privateDnsSpecifiedDomains": [ "string" ]
      },
      "id": "string",
      "lastUpdatedAt": "string",
      "privateDnsEnabled": boolean,
      "serviceNetworkArn": "string",
      "serviceNetworkId": "string",
      "serviceNetworkName": "string",
      "status": "string",
      "vpcId": "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.

### items

Information about the associations.

Type: Array of [ServiceNetworkVpcAssociationSummary](#) objects

## **nextToken**

If there are additional results, a pagination token for the next page of results.

Type: String

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

## **Errors**

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

### fieldList

The fields that failed validation.

### reason

The reason.

HTTP Status Code: 400

## See Also

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

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

# ListServiceNetworkVpcEndpointAssociations

Lists the associations between a service network and a VPC endpoint.

## Request Syntax

```
GET /servicenetworkvpcendpointassociations?  
maxResults=maxResults&nextToken=nextToken&serviceNetworkIdentifier=serviceNetworkIdentifier  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum page size.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

If there are additional results, a pagination token for the next page of results.

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

### serviceNetworkIdentifier

The ID of the service network associated with the VPC endpoint.

Length Constraints: Minimum length of 3. Maximum length of 2048.

Pattern: ((sn-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:servicenetwork/sn-[0-9a-z]{17}))

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "items": [
    {
      "createdAt": "string",
      "id": "string",
      "serviceNetworkArn": "string",
      "state": "string",
      "vpcEndpointId": "string",
      "vpcEndpointOwnerId": "string",
      "vpcId": "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.

### items

Information about the association between the VPC endpoint and service network.

Type: Array of [ServiceNetworkEndpointAssociation](#) objects

### nextToken

If there are additional results, a pagination token for the next page of results.

Type: String

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

## Errors

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

## **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## **InternalServerError**

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## **ThrottlingException**

The limit on the number of requests per second was exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

### **serviceCode**

The service code.

HTTP Status Code: 429

## **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

### **fieldList**

The fields that failed validation.

### **reason**

The reason.

HTTP Status Code: 400

## See Also

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

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

# ListServices

Lists the services owned by the caller account or shared with the caller account.

## Request Syntax

```
GET /services?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.

Valid Range: Minimum value of 1. Maximum value of 100.

### [nextToken](#)

A pagination token for the next page of results.

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

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "items": [
    {
      "arn": "string",
      "createdAt": "string",
      "customDomainName": "string",
      "dnsEntry": {
        "domainName": "string",
```

```
        "hostedZoneId": "string"
    },
    "id": "string",
    "lastUpdatedAt": "string",
    "name": "string",
    "status": "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.

### items

Information about the services.

Type: Array of [ServiceSummary](#) objects

### nextToken

If there are additional results, a pagination token for the next page of results.

Type: String

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

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

**retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

# ListTagsForResource

Lists the tags for the specified resource.

## Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the resource.

Length Constraints: Minimum length of 0. Maximum length of 1224.

Pattern: `arn:[a-z0-9][-.a-z0-9]{0,62}:vpc-lattice:([a-z0-9][-.a-z0-9]{0,62})?:\d{12}?:[^/].{0,1023}`

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

Information about the tags.

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.

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**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

### fieldList

The fields that failed validation.

### reason

The reason.

HTTP Status Code: 400

## See Also

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

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

# ListTargetGroups

Lists your target groups. You can narrow your search by using the filters below in your request.

## Request Syntax

```
GET /targetgroups?  
maxResults=maxResults&nextToken=nextToken&targetGroupType=targetGroupType&vpcIdentifier=vpcIden  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

A pagination token for the next page of results.

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

### targetGroupType

The target group type.

Valid Values: IP | LAMBDA | INSTANCE | ALB

### vpcIdentifier

The ID or ARN of the VPC.

Length Constraints: Minimum length of 5. Maximum length of 50.

Pattern: vpc-((( $[0-9a-z]{8}$ )|( $[0-9a-z]{17}$ )))

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "items": [
    {
      "arn": "string",
      "createdAt": "string",
      "id": "string",
      "ipAddressType": "string",
      "lambdaEventStructureVersion": "string",
      "lastUpdatedAt": "string",
      "name": "string",
      "port": number,
      "protocol": "string",
      "serviceArns": [ "string" ],
      "status": "string",
      "type": "string",
      "vpcIdentifier": "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.

### items

Information about the target groups.

Type: Array of [TargetGroupSummary](#) objects

### nextToken

If there are additional results, a pagination token for the next page of results.

Type: String

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

## Errors

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

### AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerErrorException

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### ThrottlingException

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

### ValidationException

The input does not satisfy the constraints specified by an AWS service.

#### **fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# ListTargets

Lists the targets for the target group. By default, all targets are included. You can use this API to check the health status of targets. You can also filter the results by target.

## Request Syntax

```
POST /targetgroups/targetGroupIdentifier/listtargets?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "targets": [  
    {  
      "id": "string",  
      "port": number  
    }  
  ]  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

A pagination token for the next page of results.

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

### targetGroupIdentifier

The ID or ARN of the target group.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((tg-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:targetgroup/tg-[0-9a-z]{17}))

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### targets

The targets.

Type: Array of [Target](#) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

## Response Syntax

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

```
{
  "items": [
    {
      "id": "string",
      "port": number,
      "reasonCode": "string",
      "status": "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.

### items

Information about the targets.

Type: Array of [TargetSummary](#) objects

### **nextToken**

If there are additional results, a pagination token for the next page of results.

Type: String

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

## **Errors**

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

- [AWS SDK for Ruby V3](#)

# PutAuthPolicy

Creates or updates the auth policy. The policy string in JSON must not contain newlines or blank lines.

For more information, see [Auth policies](#) in the *Amazon VPC Lattice User Guide*.

## Request Syntax

```
PUT /authpolicy/resourceIdentifier HTTP/1.1
Content-type: application/json

{
  "policy": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceIdentifier

The ID or ARN of the service network or service for which the policy is created.

Length Constraints: Minimum length of 17. Maximum length of 200.

Pattern: (((sn)|(svc)|(rcfg))-[0-9a-z]{17})|(arn(:[a-z0-9]+([\.-][a-z0-9]+)\*){2}(:([a-z0-9]+([\.-][a-z0-9]+)\*)?)?){2}:(servicenetwork/sn)|(resourceconfiguration/rcfg)|(service/svc)-[0-9a-z]{17}))

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### policy

The auth policy. The policy string in JSON must not contain newlines or blank lines.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 36864.

Required: Yes

## Response Syntax

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

{
  "policy": "string",
  "state": "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.

### policy

The auth policy. The policy string in JSON must not contain newlines or blank lines.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 36864.

### state

The state of the auth policy. The auth policy is only active when the auth type is set to `AWS_IAM`. If you provide a policy, then authentication and authorization decisions are made based on this policy and the client's IAM policy. If the Auth type is `NONE`, then, any auth policy that you provide remains inactive. For more information, see [Create a service network](#) in the *Amazon VPC Lattice User Guide*.

Type: String

Valid Values: Active | Inactive

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

## ValidationException

The input does not satisfy the constraints specified by an AWS service.

### fieldList

The fields that failed validation.

### reason

The reason.

HTTP Status Code: 400

## See Also

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

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

# PutResourcePolicy

Attaches a resource-based permission policy to a service or service network. The policy must contain the same actions and condition statements as the AWS Resource Access Manager permission for sharing services and service networks.

## Request Syntax

```
PUT /resourcepolicy/resourceArn HTTP/1.1
```

```
Content-type: application/json
```

```
{  
  "policy": "string"  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The ID or ARN of the service network or service for which the policy is created.

Length Constraints: Minimum length of 20. Maximum length of 200.

Pattern: `arn(:[a-z0-9]+([\.-][a-z0-9]+)*){2}(:([a-z0-9]+([\.-][a-z0-9]+)*)?)  
{2}:((servicenetwork/sn)|(service/svc)|(resourceconfiguration/rcfg))-  
[0-9a-z]{17}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### policy

An IAM policy. The policy string in JSON must not contain newlines or blank lines.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10000.

Pattern: `.*\S.*`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

### AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerError

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

#### **fieldList**

The fields that failed validation.

#### **reason**

The reason.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

# RegisterTargets

Registers the targets with the target group. If it's a Lambda target, you can only have one target in a target group.

## Request Syntax

```
POST /targetgroups/targetGroupIdentifier/registertargets HTTP/1.1
Content-type: application/json
```

```
{
  "targets": [
    {
      "id": "string",
      "port": number
    }
  ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### targetGroupIdentifier

The ID or ARN of the target group.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((tg-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:targetgroup/tg-[0-9a-z]{17}))

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### targets

The targets.

Type: Array of [Target](#) objects

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

Required: Yes

## Response Syntax

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

{
  "successful": [
    {
      "id": "string",
      "port": number
    }
  ],
  "unsuccessful": [
    {
      "failureCode": "string",
      "failureMessage": "string",
      "id": "string",
      "port": number
    }
  ]
}
```

## Response Elements

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

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

### [successful](#)

The targets that were successfully registered.

Type: Array of [Target](#) objects

### [unsuccessful](#)

The targets that were not registered.

Type: Array of [TargetFailure](#) objects

## Errors

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

### AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 409

### InternalServerError

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

#### **serviceCode**

The service code.

HTTP Status Code: 402

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

#### **fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# StartDomainVerification

Starts the domain verification process for a custom domain name.

## Request Syntax

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

```
{
  "clientToken": "string",
  "domainName": "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 identifier that you provide to ensure the idempotency of the request. If you retry a request that completed successfully using the same client token and parameters, the retry succeeds without performing any actions. If the parameters aren't identical, the retry fails.

Type: String

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

Pattern: `.*[!-~]+.*`

Required: No

### domainName

The domain name to verify ownership for.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Required: Yes

### [tags](#)

The tags for the domain verification.

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.

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

Required: No

## Response Syntax

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

```
{
  "arn": "string",
  "domainName": "string",
  "id": "string",
  "status": "string",
  "txtMethodConfig": {
    "name": "string",
    "value": "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.

## arn

The Amazon Resource Name (ARN) of the domain verification.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9f\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:domainverification/dv-[a-fA-F0-9]{17}`

## domainName

The domain name being verified.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

## id

The ID of the domain verification.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `dv-[a-fA-F0-9]{17}`

## status

The current status of the domain verification process.

Type: String

Valid Values: VERIFIED | PENDING | VERIFICATION\_TIMED\_OUT

## txtMethodConfig

The TXT record configuration used for domain verification.

Type: [TxtMethodConfig](#) object

## Errors

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

## **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 409

## **InternalServerErrorException**

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## **ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

### **serviceCode**

The service code.

HTTP Status Code: 402

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

#### **fieldList**

The fields that failed validation.

#### **reason**

The reason.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

# TagResource

Adds the specified tags to the specified 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 Amazon Resource Name (ARN) of the resource.

Length Constraints: Minimum length of 0. Maximum length of 1224.

Pattern: `arn:[a-z0-9][-.a-z0-9]{0,62}:vpc-lattice:([a-z0-9][-.a-z0-9]{0,62})?:\d{12}?:[^/].{0,1023}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

The tags for 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.

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

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

### AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerError

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

#### **serviceCode**

The service code.

HTTP Status Code: 429

### **ValidationException**

The input does not satisfy the constraints specified by an AWS service.

#### **fieldList**

The fields that failed validation.

#### **reason**

The reason.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

# UntagResource

Removes the specified tags from the specified resource.

## Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the resource.

Length Constraints: Minimum length of 0. Maximum length of 1224.

Pattern: `arn:[a-z0-9][-.a-z0-9]{0,62}:vpc-lattice:([a-z0-9][-.a-z0-9]{0,62})?:\d{12}?:[^/].{0,1023}`

Required: Yes

### tagKeys

The tag keys of the tags to remove.

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

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

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

### AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerError

An unexpected error occurred while processing the request.

#### retryAfterSeconds

The number of seconds to wait before retrying.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource that does not exist.

#### resourceId

The resource ID.

#### resourceType

The resource type.

HTTP Status Code: 404

### ValidationException

The input does not satisfy the constraints specified by an AWS service.

#### fieldList

The fields that failed validation.

#### reason

The reason.

HTTP Status Code: 400

## See Also

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

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

# UpdateAccessLogSubscription

Updates the specified access log subscription.

## Request Syntax

```
PATCH /accesslogsubscriptions/accessLogSubscriptionIdentifier HTTP/1.1
Content-type: application/json

{
  "destinationArn": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### accessLogSubscriptionIdentifier

The ID or ARN of the access log subscription.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: `((als-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:accesslogsubscription/als-[0-9a-z]{17}))`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### destinationArn

The Amazon Resource Name (ARN) of the access log destination.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

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

Required: Yes

## Response Syntax

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

{
  "arn": "string",
  "destinationArn": "string",
  "id": "string",
  "resourceArn": "string",
  "resourceId": "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.

### arn

The Amazon Resource Name (ARN) of the access log subscription.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:  
\d{12}:accesslogsubscription/als-[0-9a-z]{17}`

### destinationArn

The Amazon Resource Name (ARN) of the access log destination.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

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

### id

The ID of the access log subscription.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `als-[0-9a-z]{17}`

### resourceArn

The Amazon Resource Name (ARN) of the access log subscription.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 200.

Pattern: `arn(:[a-z0-9]+([\.-][a-z0-9]+)*){2}(:([a-z0-9]+([\.-][a-z0-9]+)*)?)`  
`{2}:((servicenetwork/sn)|(service/svc)|(resourceconfiguration/rcfg))-`  
`[0-9a-z]{17}`

### resourceId

The ID of the resource.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 50.

Pattern: `((sn)|(svc))-[0-9a-z]{17}`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## ConflictException

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 409

## InternalServerErrorException

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# UpdateListener

Updates the specified listener for the specified service.

## Request Syntax

```
PATCH /services/serviceIdentifier/listeners/listenerIdentifier HTTP/1.1
Content-type: application/json

{
  "defaultAction": { ... }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### listenerIdentifier

The ID or ARN of the listener.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((listener-[0-9a-z]{17})|(^arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}\$))

Required: Yes

### serviceIdentifier

The ID or ARN of the service.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}))

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### defaultAction

The action for the default rule.

Type: [RuleAction](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

## Response Syntax

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

{
  "arn": "string",
  "defaultAction": { ... },
  "id": "string",
  "name": "string",
  "port": number,
  "protocol": "string",
  "serviceArn": "string",
  "serviceId": "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.

### arn

The Amazon Resource Name (ARN) of the listener.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}`

### defaultAction

The action for the default rule.

Type: [RuleAction](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### id

The ID of the listener.

Type: String

Length Constraints: Fixed length of 26.

Pattern: `listener-[0-9a-z]{17}`

### name

The name of the listener.

Type: String

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

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

### port

The listener port.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

### protocol

The protocol of the listener.

Type: String

Valid Values: HTTP | HTTPS | TLS\_PASSTHROUGH

### serviceArn

The Amazon Resource Name (ARN) of the service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}`

### serviceId

The ID of the service.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `svc-[0-9a-z]{17}`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

#### **quotaCode**

The ID of the service quota that was exceeded.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

#### **serviceCode**

The service code.

HTTP Status Code: 402

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

- [AWS SDK for Ruby V3](#)

# UpdateResourceConfiguration

Updates the specified resource configuration.

## Request Syntax

```
PATCH /resourceconfigurations/resourceConfigurationIdentifier HTTP/1.1
Content-type: application/json

{
  "allowAssociationToShareableServiceNetwork": boolean,
  "portRanges": [ "string" ],
  "resourceConfigurationDefinition": { ... }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceConfigurationIdentifier

The ID of the resource configuration.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((rcfg-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}))

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### allowAssociationToShareableServiceNetwork

Indicates whether to add the resource configuration to service networks that are shared with other accounts.

Type: Boolean

Required: No

### portRanges

The TCP port ranges that a consumer can use to access a resource configuration. You can separate port ranges with a comma. Example: 1-65535 or 1,2,22-30

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 11.

Pattern: `((\d{1,5}\-\d{1,5})|(\d+))`

Required: No

### resourceConfigurationDefinition

Identifies the resource configuration in one of the following ways:

- **Amazon Resource Name (ARN)** - Supported resource-types that are provisioned by AWS services, such as RDS databases, can be identified by their ARN.
- **Domain name** - Any domain name that is publicly resolvable.
- **IP address** - For IPv4 and IPv6, only IP addresses in the VPC are supported.

Type: [ResourceConfigurationDefinition](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## Response Syntax

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

{
  "allowAssociationToShareableServiceNetwork": boolean,
  "arn": "string",
  "id": "string",
  "name": "string",
  "portRanges": [ "string" ],
  "protocol": "string",
  "resourceConfigurationDefinition": { ... },
```

```
"resourceConfigurationGroupId": "string",  
"resourceGatewayId": "string",  
"status": "string",  
"type": "string"  
}
```

## Response Elements

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

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

### allowAssociationToShareableServiceNetwork

Indicates whether to add the resource configuration to service networks that are shared with other accounts.

Type: Boolean

### arn

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9f\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}`

### id

The ID of the resource configuration.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `rcfg-[0-9a-z]{17}`

### name

The name of the resource configuration.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: (?!\rcfg-)(?![-])(?!.\*[-]\$)(?!.\*[-]{2})[a-z0-9-]+

### portRanges

The TCP port ranges that a consumer can use to access a resource configuration. You can separate port ranges with a comma. Example: 1-65535 or 1,2,22-30

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 11.

Pattern: ((\d{1,5}\-\d{1,5})|(\d+))

### protocol

The TCP protocol accepted by the specified resource configuration.

Type: String

Valid Values: TCP

### resourceConfigurationDefinition

The resource configuration.

Type: [ResourceConfigurationDefinition](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### resourceConfigurationGroupId

The ID of the group resource configuration.

Type: String

Length Constraints: Fixed length of 22.

Pattern: rcfg-[0-9a-z]{17}

### resourceGatewayId

The ID of the resource gateway associated with the resource configuration.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `rgw-[0-9a-z]{17}`

### status

The status of the resource configuration.

Type: String

Valid Values: ACTIVE | CREATE\_IN\_PROGRESS | UPDATE\_IN\_PROGRESS | DELETE\_IN\_PROGRESS | CREATE\_FAILED | UPDATE\_FAILED | DELETE\_FAILED

### type

The type of resource configuration.

- SINGLE - A single resource.
- GROUP - A group of resources.
- CHILD - A single resource that is part of a group resource configuration.
- ARN - An AWS resource.

Type: String

Valid Values: GROUP | CHILD | SINGLE | ARN

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**resourceId**

The resource ID.

**resourceType**

The resource type.

**serviceCode**

The service code.

HTTP Status Code: 402

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# UpdateResourceGateway

Updates the specified resource gateway.

## Request Syntax

```
PATCH /resourcegateways/resourceGatewayIdentifier HTTP/1.1
```

```
Content-type: application/json
```

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

## URI Request Parameters

The request uses the following URI parameters.

### resourceGatewayIdentifier

The ID or ARN of the resource gateway.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((rgw-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:  
\d{12}:resourcegateway/rgw-[0-9a-z]{17}))

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### securityGroupIds

The IDs of the security groups associated with the resource gateway.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Minimum length of 5. Maximum length of 200.

Pattern: sg-(([0-9a-z]{8})|([0-9a-z]{17}))

Required: No

## Response Syntax

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

{
  "arn": "string",
  "id": "string",
  "ipAddressType": "string",
  "name": "string",
  "securityGroupIds": [ "string" ],
  "status": "string",
  "subnetIds": [ "string" ],
  "vpcId": "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.

### arn

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:resourcegateway/rgw-[0-9a-z]{17}

### id

The ID of the resource gateway.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `rgw-[0-9a-z]{17}`

### ipAddressType

The type of IP address used by the resource gateway.

Type: String

Valid Values: IPV4 | IPV6

### name

The name of the resource gateway.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

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

### securityGroupIds

The IDs of the security groups associated with the resource gateway.

Type: Array of strings

Length Constraints: Minimum length of 5. Maximum length of 200.

Pattern: `sg-((([0-9a-z]{8}))|([0-9a-z]{17}))`

### status

The status of the resource gateway.

Type: String

Valid Values: ACTIVE | CREATE\_IN\_PROGRESS | UPDATE\_IN\_PROGRESS | DELETE\_IN\_PROGRESS | CREATE\_FAILED | UPDATE\_FAILED | DELETE\_FAILED

### subnetIds

The IDs of the VPC subnets for the resource gateway.

Type: Array of strings

Length Constraints: Minimum length of 5. Maximum length of 200.

## vpId

The ID of the VPC for the resource gateway.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 50.

Pattern: vpc-(([0-9a-z]{8})|([0-9a-z]{17}))

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 409

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)

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

# UpdateRule

Updates a specified rule for the listener. You can't modify a default listener rule. To modify a default listener rule, use `UpdateListener`.

## Request Syntax

```
PATCH /services/serviceIdentifier/listeners/listenerIdentifier/rules/ruleIdentifier
HTTP/1.1
Content-type: application/json

{
  "action": { ... },
  "match": { ... },
  "priority": number
}
```

## URI Request Parameters

The request uses the following URI parameters.

### listenerIdentifier

The ID or ARN of the listener.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((`listener-[0-9a-z]{17}`)|(`^arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}`\$))

Required: Yes

### ruleIdentifier

The ID or ARN of the rule.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((`rule-[0-9a-z]{17}`)|(`^arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}/rule/rule-[0-9a-z]{17}`\$))

Required: Yes

### serviceIdentifier

The ID or ARN of the service.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:service/svc-[0-9a-z]{17}))

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### action

Information about the action for the specified listener rule.

Type: [RuleAction](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### match

The rule match.

Type: [RuleMatch](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### priority

The rule priority. A listener can't have multiple rules with the same priority.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 2000.

Required: No

## Response Syntax

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

{
  "action": { ... },
  "arn": "string",
  "id": "string",
  "isDefault": boolean,
  "match": { ... },
  "name": "string",
  "priority": number
}
```

## Response Elements

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

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

### action

Information about the action for the specified listener rule.

Type: [RuleAction](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### arn

The Amazon Resource Name (ARN) of the listener.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}/rule/rule-[0-9a-z]{17}`

## id

The ID of the listener.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 22.

Pattern: `rule-[0-9a-z]{17}`

## isDefault

Indicates whether this is the default rule.

Type: Boolean

## match

The rule match.

Type: [RuleMatch](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

## name

The name of the listener.

Type: String

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

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

## priority

The rule priority.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 2000.

## Errors

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

## **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 409

## **InternalServerErrorException**

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## **ResourceNotFoundException**

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## **ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**resourceId**

The resource ID.

**resourceType**

The resource type.

**serviceCode**

The service code.

HTTP Status Code: 402

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

## See Also

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

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

# UpdateService

Updates the specified service.

## Request Syntax

```
PATCH /services/serviceIdentifier HTTP/1.1
Content-type: application/json

{
  "authType": "string",
  "certificateArn": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### serviceIdentifier

The ID or ARN of the service.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((svc-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}))

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### authType

The type of IAM policy.

- **NONE**: The resource does not use an IAM policy. This is the default.
- **AWS\_IAM**: The resource uses an IAM policy. When this type is used, auth is enabled and an auth policy is required.

Type: String

Valid Values: NONE | AWS\_IAM

Required: No

### certificateArn

The Amazon Resource Name (ARN) of the certificate.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: (arn(:[a-z0-9]+(.[-][a-z0-9]+)\*){2}(:([a-z0-9]+(.[-][a-z0-9]+)\*)?)?){2}:certificate/[0-9a-z-]+)?

Required: No

## Response Syntax

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

```
{
  "arn": "string",
  "authType": "string",
  "certificateArn": "string",
  "customDomainName": "string",
  "id": "string",
  "name": "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.

### arn

The Amazon Resource Name (ARN) of the service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}`

### authType

The type of IAM policy.

Type: String

Valid Values: NONE | AWS\_IAM

### certificateArn

The Amazon Resource Name (ARN) of the certificate.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `(arn(:[a-z0-9]+([\.-][a-z0-9]+)*){2}(:([a-z0-9]+([\.-][a-z0-9]+)*)?)?){2}:certificate/[0-9a-z-]+)?`

### customDomainName

The custom domain name of the service.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

### id

The ID of the service.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `svc-[0-9a-z]{17}`

### name

The name of the service.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: (?!svc-)(?![-])(?!.\*[-]\$)(?!.\*[-]{2})[a-z0-9-]+

## Errors

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

### AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 409

### InternalServerError

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource that does not exist.

#### **resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**resourceId**

The resource ID.

**resourceType**

The resource type.

**serviceCode**

The service code.

HTTP Status Code: 402

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

## See Also

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

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

# UpdateServiceNetwork

Updates the specified service network.

## Request Syntax

```
PATCH /servicenetworks/serviceNetworkIdentifier HTTP/1.1  
Content-type: application/json
```

```
{  
  "authType": "string"  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### serviceNetworkIdentifier

The ID or ARN of the service network.

Length Constraints: Minimum length of 3. Maximum length of 2048.

Pattern: ((sn-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:  
\d{12}:servicenetwork/sn-[0-9a-z]{17}))

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### authType

The type of IAM policy.

- NONE: The resource does not use an IAM policy. This is the default.
- AWS\_IAM: The resource uses an IAM policy. When this type is used, auth is enabled and an auth policy is required.

Type: String

Valid Values: NONE | AWS\_IAM

Required: Yes

## Response Syntax

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

{
  "arn": "string",
  "authType": "string",
  "id": "string",
  "name": "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.

### arn

The Amazon Resource Name (ARN) of the service network.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetwork/sn-[0-9a-z]{17}`

### authType

The type of IAM policy.

Type: String

Valid Values: NONE | AWS\_IAM

### id

The ID of the service network.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `sn-[0-9a-z]{17}`

### name

The name of the service network.

Type: String

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

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

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 409

### **InternalServerError**

An unexpected error occurred while processing the request.

**retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

**ResourceNotFoundException**

The request references a resource that does not exist.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

**ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

## See Also

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

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

# UpdateServiceNetworkVpcAssociation

Updates the service network and VPC association. If you add a security group to the service network and VPC association, the association must continue to have at least one security group. You can add or edit security groups at any time. However, to remove all security groups, you must first delete the association and then recreate it without security groups.

## Request Syntax

```
PATCH /servicenetworkvpcassociations/serviceNetworkVpcAssociationIdentifier HTTP/1.1
Content-type: application/json

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

## URI Request Parameters

The request uses the following URI parameters.

### serviceNetworkVpcAssociationIdentifier

The ID or ARN of the association.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((snva-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetworkvpcassociation/snva-[0-9a-z]{17}))

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### securityGroupIds

The IDs of the security groups.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Minimum length of 5. Maximum length of 200.

Pattern: `sg-(([0-9a-z]{8})|([0-9a-z]{17}))`

Required: Yes

## Response Syntax

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

{
  "arn": "string",
  "createdBy": "string",
  "id": "string",
  "securityGroupIds": [ "string" ],
  "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.

### arn

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetworkvpcassociation/snva-[0-9a-z]{17}`

### createdBy

The account that created the association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `[0-9]{12}`

## id

The ID of the association.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `snva-[0-9a-z]{17}`

## securityGroupIds

The IDs of the security groups.

Type: Array of strings

Length Constraints: Minimum length of 5. Maximum length of 200.

Pattern: `sg-((( [0-9a-z]{8} ) | ( [0-9a-z]{17} ) ) )`

## status

The status. You can retry the operation if the status is `DELETE_FAILED`. However, if you retry it while the status is `DELETE_IN_PROGRESS`, there is no change in the status.

Type: String

Valid Values: `CREATE_IN_PROGRESS | ACTIVE | UPDATE_IN_PROGRESS | DELETE_IN_PROGRESS | CREATE_FAILED | DELETE_FAILED | UPDATE_FAILED`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## ConflictException

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 409

## InternalServerError

An unexpected error occurred while processing the request.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource that does not exist.

### **resourceId**

The resource ID.

### **resourceType**

The resource type.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

### **quotaCode**

The ID of the service quota that was exceeded.

### **retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# UpdateTargetGroup

Updates the specified target group.

## Request Syntax

```
PATCH /targetgroups/targetGroupIdentifier HTTP/1.1  
Content-type: application/json
```

```
{  
  "healthCheck": {  
    "enabled": boolean,  
    "healthCheckIntervalSeconds": number,  
    "healthCheckTimeoutSeconds": number,  
    "healthyThresholdCount": number,  
    "matcher": { ... },  
    "path": "string",  
    "port": number,  
    "protocol": "string",  
    "protocolVersion": "string",  
    "unhealthyThresholdCount": number  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### targetGroupIdentifier

The ID or ARN of the target group.

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((tg-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:  
\d{12}:targetgroup/tg-[0-9a-z]{17}))

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## healthCheck

The health check configuration.

Type: [HealthCheckConfig](#) object

Required: Yes

## Response Syntax

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

{
  "arn": "string",
  "config": {
    "healthCheck": {
      "enabled": boolean,
      "healthCheckIntervalSeconds": number,
      "healthCheckTimeoutSeconds": number,
      "healthyThresholdCount": number,
      "matcher": { ... },
      "path": "string",
      "port": number,
      "protocol": "string",
      "protocolVersion": "string",
      "unhealthyThresholdCount": number
    },
    "ipAddressType": "string",
    "lambdaEventStructureVersion": "string",
    "port": number,
    "protocol": "string",
    "protocolVersion": "string",
    "vpcIdentifier": "string"
  },
  "id": "string",
  "name": "string",
  "status": "string",
  "type": "string"
}
```

## Response Elements

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

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

### arn

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:targetgroup/tg-[0-9a-z]{17}`

### config

The target group configuration.

Type: [TargetGroupConfig](#) object

### id

The ID of the target group.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `tg-[0-9a-z]{17}`

### name

The name of the target group.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

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

### status

The status.

Type: String

Valid Values: CREATE\_IN\_PROGRESS | ACTIVE | DELETE\_IN\_PROGRESS |  
CREATE\_FAILED | DELETE\_FAILED

### type

The target group type.

Type: String

Valid Values: IP | LAMBDA | INSTANCE | ALB

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

The request conflicts with the current state of the resource. Updating or deleting a resource can cause an inconsistent state.

#### **resourceId**

The resource ID.

#### **resourceType**

The resource type.

HTTP Status Code: 409

### **InternalServerError**

An unexpected error occurred while processing the request.

#### **retryAfterSeconds**

The number of seconds to wait before retrying.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource that does not exist.

**resourceId**

The resource ID.

**resourceType**

The resource type.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request would cause a service quota to be exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**resourceId**

The resource ID.

**resourceType**

The resource type.

**serviceCode**

The service code.

HTTP Status Code: 402

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

**quotaCode**

The ID of the service quota that was exceeded.

**retryAfterSeconds**

The number of seconds to wait before retrying.

**serviceCode**

The service code.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by an AWS service.

**fieldList**

The fields that failed validation.

**reason**

The reason.

HTTP Status Code: 400

**See Also**

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

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

# Data Types

The Amazon VPC Lattice 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:

- [AccessLogSubscriptionSummary](#)
- [ArnResource](#)
- [DnsEntry](#)
- [DnsOptions](#)
- [DnsResource](#)
- [DomainVerificationSummary](#)
- [FixedResponseAction](#)
- [ForwardAction](#)
- [HeaderMatch](#)
- [HeaderMatchType](#)
- [HealthCheckConfig](#)
- [HttpMatch](#)
- [IpResource](#)
- [ListenerSummary](#)
- [Matcher](#)
- [PathMatch](#)
- [PathMatchType](#)
- [ResourceConfigurationDefinition](#)
- [ResourceConfigurationSummary](#)
- [ResourceEndpointAssociationSummary](#)

- [ResourceGatewaySummary](#)
- [RuleAction](#)
- [RuleMatch](#)
- [RuleSummary](#)
- [RuleUpdate](#)
- [RuleUpdateFailure](#)
- [RuleUpdateSuccess](#)
- [ServiceNetworkEndpointAssociation](#)
- [ServiceNetworkResourceAssociationSummary](#)
- [ServiceNetworkServiceAssociationSummary](#)
- [ServiceNetworkSummary](#)
- [ServiceNetworkVpcAssociationSummary](#)
- [ServiceSummary](#)
- [SharingConfig](#)
- [Target](#)
- [TargetFailure](#)
- [TargetGroupConfig](#)
- [TargetGroupSummary](#)
- [TargetSummary](#)
- [TxtMethodConfig](#)
- [ValidationExceptionField](#)
- [WeightedTargetGroup](#)

# AccessLogSubscriptionSummary

Summary information about an access log subscription.

## Contents

### arn

The Amazon Resource Name (ARN) of the access log subscription

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:accesslogsubscription/als-[0-9a-z]{17}`

Required: Yes

### createdAt

The date and time that the access log subscription was created, in ISO-8601 format.

Type: Timestamp

Required: Yes

### destinationArn

The Amazon Resource Name (ARN) of the destination.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

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

Required: Yes

### id

The ID of the access log subscription.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `a1s-[0-9a-z]{17}`

Required: Yes

### **lastUpdatedAt**

The date and time that the access log subscription was last updated, in ISO-8601 format.

Type: Timestamp

Required: Yes

### **resourceArn**

The Amazon Resource Name (ARN) of the service or service network.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 200.

Pattern: `arn(:[a-z0-9]+([\.-][a-z0-9]+)*){2}(:([a-z0-9]+([\.-][a-z0-9]+)*)?)  
{2}:((servicenetwork/sn)|(service/svc)|(resourceconfiguration/rcfg))-  
[0-9a-z]{17}`

Required: Yes

### **resourceId**

The ID of the service or service network.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 50.

Pattern: `((sn)|(svc))-[0-9a-z]{17}`

Required: Yes

### **serviceNetworkLogType**

Log type of the service network.

Type: String

Valid Values: SERVICE | RESOURCE

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](#)

# ArnResource

The Amazon Resource Name (ARN) of the resource.

## Contents

### arn

The Amazon Resource Name (ARN) of the resource.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9][-.a-z0-9]{0,62}:[a-z0-9][-.a-z0-9]{0,62}:([a-z0-9][-.a-z0-9]{0,62})?:\d{12}?:[^/].{0,1023}`

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](#)

# DnsEntry

Describes the DNS information of a service.

## Contents

### domainName

The domain name of the service.

Type: String

Required: No

### hostedZoneId

The ID of the hosted zone.

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](#)

# DnsOptions

The DNS configuration options.

## Contents

### **privateDnsPreference**

The preference for which private domains have a private hosted zone created for and associated with the specified VPC. Only supported when private DNS is enabled and when the VPC endpoint type is ServiceNetwork or Resource.

- **ALL\_DOMAINS** - VPC Lattice provisions private hosted zones for all custom domain names.
- **VERIFIED\_DOMAINS\_ONLY** - VPC Lattice provisions a private hosted zone only if custom domain name has been verified by the provider.
- **VERIFIED\_DOMAINS\_AND\_SPECIFIED\_DOMAINS** - VPC Lattice provisions private hosted zones for all verified custom domain names and other domain names that the resource consumer specifies. The resource consumer specifies the domain names in the `privateDnsSpecifiedDomains` parameter.
- **SPECIFIED\_DOMAINS\_ONLY** - VPC Lattice provisions a private hosted zone for domain names specified by the resource consumer. The resource consumer specifies the domain names in the `privateDnsSpecifiedDomains` parameter.

Type: String

Valid Values: `VERIFIED_DOMAINS_ONLY` | `ALL_DOMAINS` | `VERIFIED_DOMAINS_AND_SPECIFIED_DOMAINS` | `SPECIFIED_DOMAINS_ONLY`

Required: No

### **privateDnsSpecifiedDomains**

Indicates which of the private domains to create private hosted zones for and associate with the specified VPC. Only supported when private DNS is enabled and the private DNS preference is `VERIFIED_DOMAINS_AND_SPECIFIED_DOMAINS` or `SPECIFIED_DOMAINS_ONLY`.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 255.

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](#)

# DnsResource

The DNS name of the resource.

## Contents

### domainName

The domain name of the resource.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Required: No

### ipAddressType

The type of IP address. Dualstack is currently not supported.

Type: String

Valid Values: IPV4 | IPV6 | DUALSTACK

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](#)

# DomainVerificationSummary

Summary information about a domain verification.

## Contents

### arn

The Amazon Resource Name (ARN) of the domain verification.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9f\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:domainverification/dv-[a-fA-F0-9]{17}`

Required: Yes

### createdAt

The date and time that the domain verification was created, in ISO-8601 format.

Type: Timestamp

Required: Yes

### domainName

The domain name being verified.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Required: Yes

### id

The ID of the domain verification.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `dv-[a-fA-F0-9]{17}`

Required: Yes

### **status**

The current status of the domain verification process.

Type: String

Valid Values: VERIFIED | PENDING | VERIFICATION\_TIMED\_OUT

Required: Yes

### **lastVerifiedTime**

The date and time that the domain was last successfully verified, in ISO-8601 format.

Type: Timestamp

Required: No

### **tags**

The tags associated with the domain verification.

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.

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

Required: No

### **txtMethodConfig**

The TXT record configuration used for domain verification.

Type: [TxtMethodConfig](#) 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](#)

# FixedResponseAction

Describes an action that returns a custom HTTP response.

## Contents

### statusCode

The HTTP response code. Only `404` and `500` status codes are supported.

Type: Integer

Valid Range: Minimum value of 100. Maximum value of 599.

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](#)

# ForwardAction

Describes a forward action. You can use forward actions to route requests to one or more target groups.

## Contents

### targetGroups

The target groups. Traffic matching the rule is forwarded to the specified target groups. With forward actions, you can assign a weight that controls the prioritization and selection of each target group. This means that requests are distributed to individual target groups based on their weights. For example, if two target groups have the same weight, each target group receives half of the traffic.

The default value is 1. This means that if only one target group is provided, there is no need to set the weight; 100% of the traffic goes to that target group.

Type: Array of [WeightedTargetGroup](#) objects

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

Required: Yes

## See Also

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

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

# HeaderMatch

Describes the constraints for a header match. Matches incoming requests with rule based on request header value before applying rule action.

## Contents

### match

The header match type.

Type: [HeaderMatchType](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### name

The name of the header.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: Yes

### caseSensitive

Indicates whether the match is case sensitive.

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](#)

# HeaderMatchType

Describes a header match type.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### **contains**

A contains type match.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Required: No

### **exact**

An exact type match.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Required: No

### **prefix**

A prefix type match. Matches the value with the prefix.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

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](#)

# HealthCheckConfig

Describes the health check configuration of a target group. Health check configurations aren't used for target groups of type LAMBDA or ALB.

## Contents

### enabled

Indicates whether health checking is enabled.

Type: Boolean

Required: No

### healthCheckIntervalSeconds

The approximate amount of time, in seconds, between health checks of an individual target. The range is 5–300 seconds. The default is 30 seconds.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

Required: No

### healthCheckTimeoutSeconds

The amount of time, in seconds, to wait before reporting a target as unhealthy. The range is 1–120 seconds. The default is 5 seconds.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 120.

Required: No

### healthyThresholdCount

The number of consecutive successful health checks required before considering an unhealthy target healthy. The range is 2–10. The default is 5.

Type: Integer

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

Required: No

## matcher

The codes to use when checking for a successful response from a target.

Type: [Matcher](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## path

The destination for health checks on the targets. If the protocol version is HTTP/1.1 or HTTP/2, specify a valid URI (for example, /path?query). The default path is /. Health checks are not supported if the protocol version is gRPC, however, you can choose HTTP/1.1 or HTTP/2 and specify a valid URI.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*(^/[a-zA-Z0-9@:%_+~#?&/=-]*$|(^$)).*`

Required: No

## port

The port used when performing health checks on targets. The default setting is the port that a target receives traffic on.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: No

## protocol

The protocol used when performing health checks on targets. The possible protocols are HTTP and HTTPS. The default is HTTP.

Type: String

Valid Values: HTTP | HTTPS | TCP

Required: No

### **protocolVersion**

The protocol version used when performing health checks on targets. The possible protocol versions are HTTP1 and HTTP2.

Type: String

Valid Values: HTTP1 | HTTP2

Required: No

### **unhealthyThresholdCount**

The number of consecutive failed health checks required before considering a target unhealthy. The range is 2–10. The default is 2.

Type: Integer

Valid Range: Minimum value of 0. 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](#)

# HttpMatch

Describes criteria that can be applied to incoming requests.

## Contents

### headerMatches

The header matches. Matches incoming requests with rule based on request header value before applying rule action.

Type: Array of [HeaderMatch](#) objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

### method

The HTTP method type.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16.

Required: No

### pathMatch

The path match.

Type: [PathMatch](#) 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](#)

# IpResource

Describes an IP resource.

## Contents

### ipAddress

The IP address of the IP resource.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 39.

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](#)

# ListenerSummary

Summary information about a listener.

## Contents

### arn

The Amazon Resource Name (ARN) of the listener.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}`

Required: No

### createdAt

The date and time that the listener was created, in ISO-8601 format.

Type: Timestamp

Required: No

### id

The ID of the listener.

Type: String

Length Constraints: Fixed length of 26.

Pattern: `listener-[0-9a-z]{17}`

Required: No

### lastUpdatedAt

The date and time that the listener was last updated, in ISO-8601 format.

Type: Timestamp

Required: No

### **name**

The name of the listener.

Type: String

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

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

Required: No

### **port**

The listener port.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: No

### **protocol**

The listener protocol.

Type: String

Valid Values: HTTP | HTTPS | TLS\_PASSTHROUGH

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](#)

# Matcher

Describes the codes to use when checking for a successful response from a target for health checks.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

## httpCode

The HTTP code to use when checking for a successful response from a target.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2000.

Pattern: `.*([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](#)

# PathMatch

Describes the conditions that can be applied when matching a path for incoming requests.

## Contents

### match

The type of path match.

Type: [PathMatchType](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### caseSensitive

Indicates whether the match is case sensitive.

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](#)

# PathMatchType

Describes a path match type. Each rule can include only one of the following types of paths.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### exact

An exact match of the path.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: `/[a-zA-Z0-9@:%_+.\~#?&/=-]*`

Required: No

### prefix

A prefix match of the path.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: `/[a-zA-Z0-9@:%_+.\~#?&/=-]*`

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](#)

# ResourceConfigurationDefinition

Describes a resource configuration.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### arnResource

The Amazon Resource Name (ARN) of the resource.

Type: [ArnResource](#) object

Required: No

### dnsResource

The DNS name of the resource.

Type: [DnsResource](#) object

Required: No

### ipResource

The IP resource.

Type: [IpResource](#) 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](#)

# ResourceConfigurationSummary

Summary information about a resource configuration.

## Contents

### **amazonManaged**

Indicates whether the resource configuration was created and is managed by Amazon.

Type: Boolean

Required: No

### **arn**

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9f\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}`

Required: No

### **createdAt**

The date and time that the resource configuration was created, in ISO-8601 format.

Type: Timestamp

Required: No

### **customDomainName**

The custom domain name.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Required: No

**domainVerificationId**

The domain verification ID.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `dv-[a-fA-F0-9]{17}`

Required: No

**groupDomain**

(GROUP) The group domain for a group resource configuration. Any domains that you create for the child resource are subdomains of the group domain. Child resources inherit the verification status of the domain.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Required: No

**id**

The ID of the resource configuration.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `rcfg-[0-9a-z]{17}`

Required: No

**lastUpdatedAt**

The most recent date and time that the resource configuration was updated, in ISO-8601 format.

Type: Timestamp

Required: No

**name**

The name of the resource configuration.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: (?!\rcfg-)(?![-])(?!.\*[-]) (?!.\*[-]{2})[a-z0-9-]+

Required: No

**resourceConfigurationGroupId**

The ID of the group resource configuration.

Type: String

Length Constraints: Fixed length of 22.

Pattern: rcfg-[0-9a-z]{17}

Required: No

**resourceGatewayId**

The ID of the resource gateway.

Type: String

Length Constraints: Fixed length of 21.

Pattern: rgw-[0-9a-z]{17}

Required: No

**status**

The status of the resource configuration.

Type: String

Valid Values: ACTIVE | CREATE\_IN\_PROGRESS | UPDATE\_IN\_PROGRESS | DELETE\_IN\_PROGRESS | CREATE\_FAILED | UPDATE\_FAILED | DELETE\_FAILED

Required: No

## type

The type of resource configuration.

- SINGLE - A single resource.
- GROUP - A group of resources. You must create a group resource configuration before you create a child resource configuration.
- CHILD - A single resource that is part of a group resource configuration.
- ARN - An AWS resource.

Type: String

Valid Values: GROUP | CHILD | SINGLE | ARN

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](#)

# ResourceEndpointAssociationSummary

Summary information about a VPC endpoint association.

## Contents

### arn

The Amazon Resource Name (ARN) of the VPC endpoint association.

Type: String

Length Constraints: Minimum length of 21. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:resourceendpointassociation/rea-[0-9a-f]{17}`

Required: No

### createdAt

The date and time that the VPC endpoint association was created, in ISO-8601 format.

Type: Timestamp

Required: No

### createdBy

The account that created the association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `[0-9]{12}`

Required: No

### id

The ID of the VPC endpoint association.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `rea-[0-9a-f]{17}`

Required: No

### **resourceConfigurationArn**

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9f\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}`

Required: No

### **resourceConfigurationId**

The ID of the resource configuration.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `rcfg-[0-9a-z]{17}`

Required: No

### **resourceConfigurationName**

The name of the resource configuration.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: `(?!rcfg-)(?![-])(?!.*[-]$)(?!.*[-]{2})[a-z0-9-]{3,40}`

Required: No

### **vpcEndpointId**

The ID of the VPC endpoint.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `vpce-[0-9a-f]{17}`

Required: No

### **vpcEndpointOwner**

The owner of the VPC endpoint.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

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](#)

# ResourceGatewaySummary

Summary information about a resource gateway.

## Contents

### arn

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:resourcegateway/rgw-[0-9a-z]{17}`

Required: No

### createdAt

The date and time that the VPC endpoint association was created, in ISO-8601 format.

Type: Timestamp

Required: No

### id

The ID of the resource gateway.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `rgw-[0-9a-z]{17}`

Required: No

### ipAddressType

The type of IP address used by the resource gateway.

Type: String

Valid Values: IPV4 | IPV6 | DUALSTACK

Required: No

### **ipv4AddressesPerEni**

The number of IPv4 addresses in each ENI for the resource gateway.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 62.

Required: No

### **lastUpdatedAt**

The most recent date and time that the resource gateway was updated, in ISO-8601 format.

Type: Timestamp

Required: No

### **name**

The name of the resource gateway.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

Pattern: (?!\rgw-)(?![-])(?!.\*[-]\$)(?!.\*[-]{2})[a-z0-9-]+

Required: No

### **securityGroupIds**

The IDs of the security groups applied to the resource gateway.

Type: Array of strings

Length Constraints: Minimum length of 5. Maximum length of 200.

Pattern: sg-(([\0-9a-z]{8})|([\0-9a-z]{17}))

Required: No

## status

The name of the resource gateway.

Type: String

Valid Values: ACTIVE | CREATE\_IN\_PROGRESS | UPDATE\_IN\_PROGRESS | DELETE\_IN\_PROGRESS | CREATE\_FAILED | UPDATE\_FAILED | DELETE\_FAILED

Required: No

## subnetIds

The IDs of the VPC subnets for the resource gateway.

Type: Array of strings

Length Constraints: Minimum length of 5. Maximum length of 200.

Required: No

## vpIdentifier

The ID of the VPC for the resource gateway.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 50.

Pattern: vpc-((( [0-9a-z]{8} ) | ( [0-9a-z]{17} ) ) )

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](#)

# RuleAction

Describes the action for a rule.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### **fixedResponse**

The fixed response action. The rule returns a custom HTTP response.

Type: [FixedResponseAction](#) object

Required: No

### **forward**

The forward action. Traffic that matches the rule is forwarded to the specified target groups.

Type: [ForwardAction](#) 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](#)

# RuleMatch

Describes a rule match.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

## httpMatch

The HTTP criteria that a rule must match.

Type: [HttpMatch](#) 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](#)

# RuleSummary

Summary information about a listener rule.

## Contents

### arn

The Amazon Resource Name (ARN) of the rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}/rule/rule-[0-9a-z]{17}`

Required: No

### createdAt

The date and time that the listener rule was created, in ISO-8601 format.

Type: Timestamp

Required: No

### id

The ID of the rule.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 22.

Pattern: `rule-[0-9a-z]{17}`

Required: No

### isDefault

Indicates whether this is the default listener rule.

Type: Boolean

Required: No

### **lastUpdatedAt**

The date and time that the listener rule was last updated, in ISO-8601 format.

Type: Timestamp

Required: No

### **name**

The name of the rule.

Type: String

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

Pattern: (?!rule-)(?![-])(?!.\*[-]\$)(?!.\*[-]{2})[a-z0-9-]+

Required: No

### **priority**

The priority of the rule.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 2000.

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](#)

# RuleUpdate

Describes a rule update.

## Contents

### ruleIdentifier

The ID or ARN of the rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: ((rule-[0-9a-z]{17})|(^arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}/rule/rule-[0-9a-z]{17}\$))

Required: Yes

### action

The rule action.

Type: [RuleAction](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### match

The rule match.

Type: [RuleMatch](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### priority

The rule priority. A listener can't have multiple rules with the same priority.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 2000.

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](#)

# RuleUpdateFailure

Describes a rule update that failed.

## Contents

### failureCode

The failure code.

Type: String

Required: No

### failureMessage

The failure message.

Type: String

Required: No

### ruleIdentifier

The ID or ARN of the rule.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `((rule-[0-9a-z]{17})|(^arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}/rule/rule-[0-9a-z]{17}$))`

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](#)

# RuleUpdateSuccess

Describes a successful rule update.

## Contents

### action

The action for the rule.

Type: [RuleAction](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### arn

The Amazon Resource Name (ARN) of the listener.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}/listener/listener-[0-9a-z]{17}/rule/rule-[0-9a-z]{17}`

Required: No

### id

The ID of the listener.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 22.

Pattern: `rule-[0-9a-z]{17}`

Required: No

### isDefault

Indicates whether this is the default rule.

Type: Boolean

Required: No

### match

The rule match.

Type: [RuleMatch](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### name

The name of the listener.

Type: String

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

Pattern: (?!rule-)(?![-])(?!.\*[-]\$)(?!.\*[-]{2})[a-z0-9-]+

Required: No

### priority

The rule priority.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 2000.

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](#)



# ServiceNetworkEndpointAssociation

Describes the association between a service network and a VPC endpoint.

## Contents

### **createdAt**

The date and time that the association was created, in ISO-8601 format.

Type: Timestamp

Required: No

### **id**

The ID of the association.

Type: String

Required: No

### **serviceNetworkArn**

The Amazon Resource Name (ARN) of the service network.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetwork/sn-[0-9a-z]{17}`

Required: No

### **state**

The state of the association.

Type: String

Required: No

### **vpcEndpointId**

The ID of the VPC endpoint associated with the service network.

Type: String

Required: No

### **vpcEndpointOwnerId**

The owner of the VPC endpoint associated with the service network.

Type: String

Required: No

### **vpcId**

The ID of the VPC for the association.

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](#)

# ServiceNetworkResourceAssociationSummary

Summary information about an association between a service network and a resource configuration.

## Contents

### arn

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 22. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:servicenetworkresourceassociation/snra-[0-9a-f]{17}`

Required: No

### createdAt

The date and time that the association was created, in ISO-8601 format.

Type: Timestamp

Required: No

### createdBy

The account that created the association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `[0-9]{12}`

Required: No

### dnsEntry

The DNS entry for the service.

Type: [DnsEntry](#) object

Required: No

### **failureCode**

The failure code.

Type: String

Required: No

### **id**

The ID of the association between the service network and resource configuration.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `snra-[0-9a-f]{17}`

Required: No

### **isManagedAssociation**

Specifies whether the association is managed by Amazon.

Type: Boolean

Required: No

### **privateDnsEnabled**

Indicates if private DNS is enabled for the service network resource association.

Type: Boolean

Required: No

### **privateDnsEntry**

The private DNS entry for the service.

Type: [DnsEntry](#) object

Required: No

## resourceConfigurationArn

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9f\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}`

Required: No

## resourceConfigurationId

The ID of the resource configuration associated with the service network.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `rcfg-[0-9a-z]{17}`

Required: No

## resourceConfigurationName

The name of the resource configuration associated with the service network.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

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

Required: No

## serviceNetworkArn

The Amazon Resource Name (ARN) of the service network associated with the resource configuration.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 2048.

Required: No

### **serviceNetworkId**

The ID of the service network associated with the resource configuration.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 2048.

Required: No

### **serviceNetworkName**

The name of the service network associated with the resource configuration.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

### **status**

The status of the service network's association with the resource configuration. If the deletion fails, try to delete again.

Type: String

Valid Values: CREATE\_IN\_PROGRESS | ACTIVE | PARTIAL | DELETE\_IN\_PROGRESS | CREATE\_FAILED | DELETE\_FAILED

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](#)

# ServiceNetworkServiceAssociationSummary

Summary information about an association between a service network and a service.

## Contents

### arn

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetworkserviceassociation/snsa-[0-9a-z]{17}`

Required: No

### createdAt

The date and time that the association was created, in ISO-8601 format.

Type: Timestamp

Required: No

### createdBy

The account that created the association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `[0-9]{12}`

Required: No

### customDomainName

The custom domain name of the service.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Required: No

### **dnsEntry**

The DNS information.

Type: [DnsEntry](#) object

Required: No

### **id**

The ID of the association.

Type: String

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: `((snsa-[0-9a-z]{17})|(arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetworkserviceassociation/snsa-[0-9a-z]{17}))`

Required: No

### **serviceArn**

The Amazon Resource Name (ARN) of the service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}`

Required: No

### **serviceId**

The ID of the service.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `svc-[0-9a-z]{17}`

Required: No

### **serviceName**

The name of the service.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

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

Required: No

### **serviceNetworkArn**

The Amazon Resource Name (ARN) of the service network.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:servicenetwork/sn-[0-9a-z]{17}`

Required: No

### **serviceNetworkId**

The ID of the service network.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `sn-[0-9a-z]{17}`

Required: No

### **serviceNetworkName**

The name of the service network.

Type: String

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

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

Required: No

## status

The status of the service network's association with the service. If the deletion fails, try to delete again.

Type: String

Valid Values: `CREATE_IN_PROGRESS` | `ACTIVE` | `DELETE_IN_PROGRESS` | `CREATE_FAILED` | `DELETE_FAILED`

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](#)

# ServiceNetworkSummary

Summary information about a service network.

## Contents

### arn

The Amazon Resource Name (ARN) of the service network.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetwork/sn-[0-9a-z]{17}`

Required: No

### createdAt

The date and time that the service network was created, in ISO-8601 format.

Type: Timestamp

Required: No

### id

The ID of the service network.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `sn-[0-9a-z]{17}`

Required: No

### lastUpdatedAt

The date and time that the service network was last updated, in ISO-8601 format.

Type: Timestamp

Required: No

### **name**

The name of the service network.

Type: String

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

Pattern: (?![ -])(?!.\*[ -]\$)(?!.\*[ -]{2})[a-z0-9-]+

Required: No

### **numberOfAssociatedResourceConfigurations**

The number of resource configurations associated with a service network.

Type: Long

Required: No

### **numberOfAssociatedServices**

The number of services associated with the service network.

Type: Long

Required: No

### **numberOfAssociatedVPCs**

The number of VPCs associated with the service network.

Type: Long

Required: No

## **See Also**

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

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

- [AWS SDK for Ruby V3](#)

# ServiceNetworkVpcAssociationSummary

Summary information about an association between a service network and a VPC.

## Contents

### arn

The Amazon Resource Name (ARN) of the association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:servicenetworkvpcassociation/snva-[0-9a-z]{17}`

Required: No

### createdAt

The date and time that the association was created, in ISO-8601 format.

Type: Timestamp

Required: No

### createdBy

The account that created the association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `[0-9]{12}`

Required: No

### dnsOptions

The DNS options for the service network VPC association.

Type: [DnsOptions](#) object

Required: No

**id**

The ID of the association.

Type: String

Length Constraints: Fixed length of 22.

Pattern: `snva-[0-9a-z]{17}`

Required: No

**lastUpdatedAt**

The date and time that the association was last updated, in ISO-8601 format.

Type: Timestamp

Required: No

**privateDnsEnabled**

Indicates if private DNS is enabled for the service network VPC association.

Type: Boolean

Required: No

**serviceNetworkArn**

The Amazon Resource Name (ARN) of the service network.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:servicenetwork/sn-[0-9a-z]{17}`

Required: No

**serviceNetworkId**

The ID of the service network.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `sn-[0-9a-z]{17}`

Required: No

### **serviceNetworkName**

The name of the service network.

Type: String

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

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

Required: No

### **status**

The status.

Type: String

Valid Values: `CREATE_IN_PROGRESS | ACTIVE | UPDATE_IN_PROGRESS | DELETE_IN_PROGRESS | CREATE_FAILED | DELETE_FAILED | UPDATE_FAILED`

Required: No

### **vpclId**

The ID of the VPC.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 50.

Pattern: `vpc-((( [0-9a-z]{8} ) | ( [0-9a-z]{17} ) ) )`

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](#)

# ServiceSummary

Summary information about a service.

## Contents

### arn

The Amazon Resource Name (ARN) of the service.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\+]:vpc-lattice:[a-zA-Z0-9\-\+]:\d{12}:service/svc-[0-9a-z]{17}`

Required: No

### createdAt

The date and time that the service was created, in ISO-8601 format.

Type: Timestamp

Required: No

### customDomainName

The custom domain name of the service.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Required: No

### dnsEntry

The DNS information.

Type: [DnsEntry](#) object

Required: No

## **id**

The ID of the service.

Type: String

Length Constraints: Fixed length of 21.

Pattern: `svc-[0-9a-z]{17}`

Required: No

## **lastUpdatedAt**

The date and time that the service was last updated, in ISO-8601 format.

Type: Timestamp

Required: No

## **name**

The name of the service.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 40.

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

Required: No

## **status**

The status.

Type: String

Valid Values: ACTIVE | CREATE\_IN\_PROGRESS | DELETE\_IN\_PROGRESS |  
CREATE\_FAILED | DELETE\_FAILED

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](#)

# SharingConfig

Specifies if the service network should be enabled for sharing.

## Contents

### enabled

Specifies if the service network is enabled for sharing.

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](#)

# Target

Describes a target.

## Contents

### id

The ID of the target. If the target group type is `INSTANCE`, this is an instance ID. If the target group type is `IP`, this is an IP address. If the target group type is `LAMBDA`, this is the ARN of a Lambda function. If the target group type is `ALB`, this is the ARN of an Application Load Balancer.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Required: Yes

### port

The port on which the target is listening. For HTTP, the default is 80. For HTTPS, the default is 443.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

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](#)

# TargetFailure

Describes a target failure.

## Contents

### **failureCode**

The failure code.

Type: String

Required: No

### **failureMessage**

The failure message.

Type: String

Required: No

### **id**

The ID of the target. If the target group type is `INSTANCE`, this is an instance ID. If the target group type is `IP`, this is an IP address. If the target group type is `LAMBDA`, this is the ARN of a Lambda function. If the target group type is `ALB`, this is the ARN of an Application Load Balancer.

Type: String

Required: No

### **port**

The port on which the target is listening. This parameter doesn't apply if the target is a Lambda function.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

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](#)

# TargetGroupConfig

Describes the configuration of a target group.

For more information, see [Target groups](#) in the *Amazon VPC Lattice User Guide*.

## Contents

### healthCheck

The health check configuration. Not supported if the target group type is LAMBDA or ALB.

Type: [HealthCheckConfig](#) object

Required: No

### ipAddressType

The type of IP address used for the target group. Supported only if the target group type is IP. The default is IPV4.

Type: String

Valid Values: IPV4 | IPV6

Required: No

### lambdaEventStructureVersion

The version of the event structure that your Lambda function receives. Supported only if the target group type is LAMBDA. The default is V1.

Type: String

Valid Values: V1 | V2

Required: No

### port

The port on which the targets are listening. For HTTP, the default is 80. For HTTPS, the default is 443. Not supported if the target group type is LAMBDA.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: No

### **protocol**

The protocol to use for routing traffic to the targets. The default is the protocol of the target group. Not supported if the target group type is LAMBDA.

Type: String

Valid Values: HTTP | HTTPS | TCP

Required: No

### **protocolVersion**

The protocol version. The default is HTTP1. Not supported if the target group type is LAMBDA.

Type: String

Valid Values: HTTP1 | HTTP2 | GRPC

Required: No

### **vpIdentifier**

The ID of the VPC. Not supported if the target group type is LAMBDA.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 50.

Pattern: vpc-((( [0-9a-z]{8} ) | ( [0-9a-z]{17} ) ) )

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](#)

# TargetGroupSummary

Summary information about a target group.

For more information, see [Target groups](#) in the *Amazon VPC Lattice User Guide*.

## Contents

### arn

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

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:targetgroup/tg-[0-9a-z]{17}`

Required: No

### createdAt

The date and time that the target group was created, in ISO-8601 format.

Type: Timestamp

Required: No

### id

The ID of the target group.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `tg-[0-9a-z]{17}`

Required: No

### ipAddressType

The type of IP address used for the target group. The possible values are IPV4 and IPV6. This is an optional parameter. If not specified, the default is IPV4.

Type: String

Valid Values: IPV4 | IPV6

Required: No

### **lambdaEventStructureVersion**

The version of the event structure that your Lambda function receives. Supported only if the target group type is LAMBDA.

Type: String

Valid Values: V1 | V2

Required: No

### **lastUpdatedAt**

The date and time that the target group was last updated, in ISO-8601 format.

Type: Timestamp

Required: No

### **name**

The name of the target group.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

Pattern: (?!tg-)(?![-])(?!.\*[-]\$)(?!.\*[-]{2})[a-z0-9-]+

Required: No

### **port**

The port of the target group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: No

## protocol

The protocol of the target group.

Type: String

Valid Values: HTTP | HTTPS | TCP

Required: No

## serviceArns

The Amazon Resource Names (ARNs) of the service.

Type: Array of strings

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:service/svc-[0-9a-z]{17}`

Required: No

## status

The status.

Type: String

Valid Values: CREATE\_IN\_PROGRESS | ACTIVE | DELETE\_IN\_PROGRESS | CREATE\_FAILED | DELETE\_FAILED

Required: No

## type

The target group type.

Type: String

Valid Values: IP | LAMBDA | INSTANCE | ALB

Required: No

## vpcIdentifier

The ID of the VPC of the target group.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 50.

Pattern: `vpc-(([0-9a-z]{8})|([0-9a-z]{17}))`

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](#)

# TargetSummary

Summary information about a target.

## Contents

### id

The ID of the target. If the target group type is `INSTANCE`, this is an instance ID. If the target group type is `IP`, this is an IP address. If the target group type is `LAMBDA`, this is the ARN of a Lambda function. If the target type is `ALB`, this is the ARN of an Application Load Balancer.

Type: String

Required: No

### port

The port on which the target is listening.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: No

### reasonCode

The code for why the target status is what it is.

Type: String

Required: No

### status

The status of the target.

- **DRAINING**: The target is being deregistered. No new connections are sent to this target while current connections are being drained. The default draining time is 1 minute.
- **UNAVAILABLE**: Health checks are unavailable for the target group.
- **HEALTHY**: The target is healthy.
- **UNHEALTHY**: The target is unhealthy.

- **INITIAL:** Initial health checks on the target are being performed.
- **UNUSED:** Target group is not used in a service.

Type: String

Valid Values: DRAINING | UNAVAILABLE | HEALTHY | UNHEALTHY | INITIAL | UNUSED

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](#)

# TxtMethodConfig

Configuration for TXT record-based domain verification method.

## Contents

### name

The name of the TXT record that must be created for domain verification.

Type: String

Required: Yes

### value

The value that must be added to the TXT record for domain verification.

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](#)

# ValidationExceptionField

Describes a validation failure.

## Contents

### message

Additional information about why the validation failed.

Type: String

Required: Yes

### name

The name of the validation exception.

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](#)

# WeightedTargetGroup

Describes the weight of a target group.

## Contents

### targetGroupIdentifier

The ID or ARN of the target group.

Type: String

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: ((tg-[0-9a-z]{17})|(arn:[a-z0-9\-\-]+:vpc-lattice:[a-zA-Z0-9\-\-]+:\d{12}:targetgroup/tg-[0-9a-z]{17}))

Required: Yes

### weight

Only required if you specify multiple target groups for a forward action. The weight determines how requests are distributed to the target group. For example, if you specify two target groups, each with a weight of 10, each target group receives half the requests. If you specify two target groups, one with a weight of 10 and the other with a weight of 20, the target group with a weight of 20 receives twice as many requests as the other target group. If there's only one target group specified, then the default value is 100.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 999.

Required: No

## See Also

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

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

- [AWS SDK for Ruby V3](#)

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## 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