aws

Amazon VPC Lattice

API Version 2022-11-30

Amazon VPC Lattice: API Reference

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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

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Actions

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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 Amazon Resource Name (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 Amazon Resource Name (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 5 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 Errors.

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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

Type: String

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

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

Required: Yes

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"
}
```

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))-[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}$`

Errors

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

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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- [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 Amazon Resource Name (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 Errors.

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
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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 Amazon Resource Name (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 Amazon Resource Name (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 100.

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 100.

Errors

For information about the errors that are common to all actions, see [Common Errors](Common%20Errors).

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

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",
   "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

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"
}
```

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 32.

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 Errors.

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

CreateServiceNetworkServiceAssociation

Associates a service with a 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 Amazon Resource Name (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 Amazon Resource Name (ARN) of the service network. You must use the ARN if the resources specified in the operation 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 Errors.

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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",
   "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

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 Amazon Resource Name (ARN) of the service network. You must use the ARN when the resources specified in the operation 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",
   "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 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 Errors.

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Errors.

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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

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 Amazon Resource Name (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 Errors.

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

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 Amazon Resource Name (ARN) of the resource.

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

Pattern: `^(((((sn)|(svc))-[0-9a-z]{17})|(arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:((servicenetwork/sn)|(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 Errors](#).

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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

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 Amazon Resource Name (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 Amazon Resource Name (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 Errors](#).

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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}:((servicenetwork/sn)|(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 Errors.

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

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 Amazon Resource Name (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 Amazon Resource Name (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 Amazon Resource Name (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 Errors.

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Amazon Resource Name (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 Errors](#).

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Amazon Resource Name (ARN) or 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}))$`

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 Errors](#).

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)

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

- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

DeleteServiceNetworkServiceAssociation

Deletes the association between a specified service and the specific 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 Amazon Resource Name (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 Errors.

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

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 Amazon Resource Name (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 Errors](#).

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

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 Amazon Resource Name (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 Errors.

ConflictException

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

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Amazon Resource Name (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 Errors](#).

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Amazon Resource Name (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"
```

```
}
```

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, specified 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: `^als-[0-9a-z]{17}$`

lastUpdatedAt

The date and time that the access log subscription was last updated, specified 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))-[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}$`

Errors

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

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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

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

Pattern: ^(((((sn)|(svc))-[0-9a-z]{17})|(arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}
(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:((servicenetwork/sn)|(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, specified in ISO-8601 format.

Type: Timestamp

lastUpdatedAt

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

Type: Timestamp

policy

The auth policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000.

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 Errors](#).

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Amazon Resource Name (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 Amazon Resource Name (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, specified 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, specified 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}$`

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 Errors](#).

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

GetResourcePolicy

Retrieves information about the 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))-[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 Errors.

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

GetRule

Retrieves information about 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 Amazon Resource Name (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 Amazon Resource Name (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 Amazon Resource Name (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, specified 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, specified 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 100.

Errors

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

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Amazon Resource Name (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, specified 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, specified 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 Errors.

AccessDeniedException

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

>   HTTP Status Code: 403

InternalServerException

>   An unexpected error occurred while processing the request.

>   HTTP Status Code: 500

ResourceNotFoundException

>   The request references a resource that does not exist.

>   HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Amazon Resource Name (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
```

```
    }
```

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, specified in ISO-8601 format.

Type: Timestamp

id

The ID of the service network.

Type: String

Length Constraints: Fixed length of 32.

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

lastUpdatedAt

The date and time of the last update, specified 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

Errors

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

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Amazon Resource Name (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, specified 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 32.

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 Errors](#).

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

GetServiceNetworkVpcAssociation

Retrieves information about the 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 Amazon Resource Name (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",
   "failureCode": "string",
   "failureMessage": "string",
   "id": "string",
   "lastUpdatedAt": "string",
```

```
      "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, specified 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}$`

failureCode

The failure code.

Type: String

failureMessage

The failure message.

Type: String

id

The ID of the specified association between the service network and the VPC.

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, specified in ISO-8601 format.

Type: Timestamp

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 32.

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

vpcId

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 Errors.

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Amazon Resource Name (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, specified 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, specified 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 Errors.

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

ListAccessLogSubscriptions

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

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

   Pattern: ^(((((sn)|(svc))-[0-9a-z]{17})|(arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}
   (:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:((servicenetwork/sn)|(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"
      }
   ],
   "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 Errors.

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Amazon Resource Name (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 Errors.

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

ListRules

Lists the rules for the 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 Amazon Resource Name (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 Amazon Resource Name (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 Errors](#).

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)

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

ListServiceNetworks

Lists the service networks owned by the caller account or shared with the caller account. Also includes the account ID in the ARN to show 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",
        "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 Errors.

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

ListServiceNetworkServiceAssociations

Lists the associations between the service network and the 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 is given 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 that is shared with another account, the association includes the local account ID as the prefix in the ARN for each account the resource is shared with.

Request Syntax

```
GET /servicenetworkserviceassociations?
maxResults=maxResults&nextToken=nextToken&serviceIdentifier=serviceIdentifier&serviceNetworkIde
  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 Amazon Resource Name (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 Amazon Resource Name (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 Errors.

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

ListServiceNetworkVpcAssociations

Lists the service network and VPC associations. You can filter the list either by VPC or service network. You must provide either the service network identifier or the VPC identifier.

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 Amazon Resource Name (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 Amazon Resource Name (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",
            "id": "string",
            "lastUpdatedAt": "string",
            "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 Errors.

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

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 Errors.

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Errors.

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Amazon Resource Name (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 Errors.

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

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 Amazon Resource Name (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 Errors.

AccessDeniedException

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

>   HTTP Status Code: 403

InternalServerException

>   An unexpected error occurred while processing the request.

>   HTTP Status Code: 500

ResourceNotFoundException

>   The request references a resource that does not exist.

>   HTTP Status Code: 404

ThrottlingException

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

>   HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Amazon Resource Name (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))-[0-9a-z]{17})|(arn(:[a-z0-9]+([.-][a-z0-9]+)*){2}(:([a-z0-9]+([.-][a-z0-9]+)*)?){2}:((servicenetwork/sn)|(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 10000.

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 10000.

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 Errors.

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

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 Amazon Resource Name (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))-[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 Errors](#).

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Amazon Resource Name (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 Errors](#).

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Errors](#).

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Errors](#).

AccessDeniedException

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

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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

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 Amazon Resource Name (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))-[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 Errors.

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Amazon Resource Name (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 Amazon Resource Name (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 Errors.

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

UpdateRule

Updates a 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 Amazon Resource Name (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 Amazon Resource Name (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 Amazon Resource Name (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 100.

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 100.

Errors

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

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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

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 Amazon Resource Name (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 Errors](#).

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 Amazon Resource Name (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 32.

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 Errors.

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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 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

```
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 Amazon Resource Name (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 Errors.

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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

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 Amazon Resource Name (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 Errors.

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.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

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

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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

- DnsEntry

- FixedResponseAction

- ForwardAction

- HeaderMatch

- HeaderMatchType

- HealthCheckConfig

- HttpMatch

- ListenerSummary

- Matcher

- PathMatch

- PathMatchType

- RuleAction

- RuleMatch

- RuleSummary

- RuleUpdate

- RuleUpdateFailure

- RuleUpdateSuccess

- ServiceNetworkServiceAssociationSummary

- ServiceNetworkSummary

- [ServiceNetworkVpcAssociationSummary](#)
- [ServiceSummary](#)
- [Target](#)
- [TargetFailure](#)
- [TargetGroupConfig](#)
- [TargetGroupSummary](#)
- [TargetSummary](#)
- [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, specified 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: `^als-[0-9a-z]{17}$`

Required: Yes

lastUpdatedAt

The date and time that the access log subscription was last updated, specified 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))-[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

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](#)

FixedResponseAction

Describes an action that returns a custom HTTP response.

Contents

statusCode

The HTTP response code.

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 2 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](#)

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, specified 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, specified 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 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](#)

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 the 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, specified 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, specified 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 100.

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 Amazon Resource Name (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 100.

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 Amazon Resource Name (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 100.

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 the 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, specified 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 32.

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. 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, specified in ISO-8601 format.

Type: Timestamp

Required: No

id

The ID of the service network.

Type: String

Length Constraints: Fixed length of 32.

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

Required: No

lastUpdatedAt

The date and time that the service network was last updated, specified 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

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, specified 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 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, specified in ISO-8601 format.

Type: Timestamp

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 32.

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

vpcId

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, specified 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. The format is ISO-8601.

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](#)

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

vpcIdentifier

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, specified 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, specified 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 5 minutes.

- 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](#)

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 Amazon Resource Name (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*.

Action

    The action to be performed.

    Type: string

    Required: Yes

Version

    The API version that the request is written for, expressed in the format YYYY-MM-DD.

    Type: string

    Required: Yes

X-Amz-Algorithm

    The hash algorithm that you used to create the request signature.

    Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

    Type: string

    Valid Values: `AWS4-HMAC-SHA256`

    Required: Conditional

X-Amz-Credential

    The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key*/*YYYYMMDD*/*region*/*service*/aws4_request.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

UnrecognizedClientException

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

UnknownOperationException

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 404

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400