AWS Network Manager

API Reference

API Version 2019-07-05

aws

AWS Network Manager: API Reference

Table of Contents

Welcome

Amazon Web Services enables you to centrally manage your AWS Cloud WAN core network and your Transit Gateway network across AWS accounts, Regions, and on-premises locations.

This document was last published on June 6, 2022.

Actions

The following actions are supported:

AcceptAttachment

Accepts a core network attachment request.

Once the attachment request is accepted by a core network owner, the attachment is created and connected to a core network.

Request Syntax

```
POST /attachments/attachmentId/accept HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

attachmentId (p. 4)

> The ID of the attachment.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: ^attachment-([0-9a-f]{8,17})$
>
> Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Attachment": {
      "AttachmentId": "string",
      "AttachmentPolicyRuleNumber": number,
      "AttachmentType": "string",
      "CoreNetworkArn": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "EdgeLocation": "string",
      "OwnerAccountId": "string",
      "ProposedSegmentChange": {
         "AttachmentPolicyRuleNumber": number,
         "SegmentName": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ]
      },
      "ResourceArn": "string",
      "SegmentName": "string",
```

```
      "State": "string",
      "Tags": [
         {
            "Key": "string",
            "Value": "string"
         }
      ],
      "UpdatedAt": 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.

Attachment (p. 4)

The response to the attachment request.

Type: Attachment (p. 254) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

AssociateConnectPeer

Associates a core network Connect peer with a device and optionally, with a link.

If you specify a link, it must be associated with the specified device. You can only associate core network Connect peers that have been created on a core network Connect attachment on a core network.

Request Syntax

```
POST /global-networks/globalNetworkId/connect-peer-associations HTTP/1.1
Content-type: application/json

{
   "ConnectPeerId": "string",
   "DeviceId": "string",
   "LinkId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 7)

>   The ID of your global network.

>   Length Constraints: Minimum length of 0. Maximum length of 50.

>   Pattern: `[\s\S]*`

>   Required: Yes

Request Body

The request accepts the following data in JSON format.

ConnectPeerId (p. 7)

>   The ID of the Connect peer.

>   Type: String

>   Length Constraints: Minimum length of 0. Maximum length of 50.

>   Pattern: `^connect-peer-([0-9a-f]{8,17})$`

>   Required: Yes

DeviceId (p. 7)

>   The ID of the device.

>   Type: String

>   Length Constraints: Minimum length of 0. Maximum length of 50.

>   Pattern: `[\s\S]*`

Required: Yes

LinkId (p. 7)

The ID of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

Response Syntax

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

{
    "ConnectPeerAssociation": {
        "ConnectPeerId": "string",
        "DeviceId": "string",
        "GlobalNetworkId": "string",
        "LinkId": "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.

ConnectPeerAssociation (p. 8)

The response to the Connect peer request.

Type: ConnectPeerAssociation (p. 268) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

AssociateCustomerGateway

Associates a customer gateway with a device and optionally, with a link. If you specify a link, it must be associated with the specified device.

You can only associate customer gateways that are connected to a VPN attachment on a transit gateway or core network registered in your global network. When you register a transit gateway or core network, customer gateways that are connected to the transit gateway are automatically included in the global network. To list customer gateways that are connected to a transit gateway, use the DescribeVpnConnections EC2 API and filter by `transit-gateway-id`.

You cannot associate a customer gateway with more than one device and link.

Request Syntax

```
POST /global-networks/globalNetworkId/customer-gateway-associations HTTP/1.1
Content-type: application/json

{
    "CustomerGatewayArn": "string",
    "DeviceId": "string",
    "LinkId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 10)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

CustomerGatewayArn (p. 10)

> The Amazon Resource Name (ARN) of the customer gateway.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 500.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

DeviceId (p. 10)

> The ID of the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

LinkId (p. 10)

The ID of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

Response Syntax

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

{
   "CustomerGatewayAssociation": {
      "CustomerGatewayArn": "string",
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "LinkId": "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.

CustomerGatewayAssociation (p. 11)

The customer gateway association.

Type: CustomerGatewayAssociation (p. 291) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

AssociateLink

Associates a link to a device. A device can be associated to multiple links and a link can be associated to multiple devices. The device and link must be in the same global network and the same site.

Request Syntax

```
POST /global-networks/globalNetworkId/link-associations HTTP/1.1
Content-type: application/json

{
    "DeviceId": "string",
    "LinkId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 13)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: [\s\S]*
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

DeviceId (p. 13)

> The ID of the device.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: [\s\S]*
>
> Required: Yes

LinkId (p. 13)

> The ID of the link.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: [\s\S]*
>
> Required: Yes

Response Syntax

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

{
   "LinkAssociation": {
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "LinkAssociationState": "string",
      "LinkId": "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.

LinkAssociation (p. 14)

> The link association.
>
> Type: LinkAssociation (p. 301) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.
>
> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.
>
> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.
>
> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.
>
> HTTP Status Code: 404

ServiceQuotaExceededException

> A service limit was exceeded.
>
> HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

AssociateTransitGatewayConnectPeer

Associates a transit gateway Connect peer with a device, and optionally, with a link. If you specify a link, it must be associated with the specified device.

You can only associate transit gateway Connect peers that have been created on a transit gateway that's registered in your global network.

You cannot associate a transit gateway Connect peer with more than one device and link.

Request Syntax

```
POST /global-networks/globalNetworkId/transit-gateway-connect-peer-associations HTTP/1.1
Content-type: application/json

{
    "DeviceId": "string",
    "LinkId": "string",
    "TransitGatewayConnectPeerArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 16)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

DeviceId (p. 16)

> The ID of the device.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

LinkId (p. 16)

> The ID of the link.
>
> Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

TransitGatewayConnectPeerArn (p. 16)

The Amazon Resource Name (ARN) of the Connect peer.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: Yes

Response Syntax

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

{
   "TransitGatewayConnectPeerAssociation": {
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "LinkId": "string",
      "State": "string",
      "TransitGatewayConnectPeerArn": "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.

TransitGatewayConnectPeerAssociation (p. 17)

The transit gateway Connect peer association.

Type: TransitGatewayConnectPeerAssociation (p. 332) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateConnectAttachment

Creates a core network Connect attachment from a specified core network attachment.

A core network Connect attachment is a GRE-based tunnel attachment that you can use to establish a connection between a core network and an appliance. A core network Connect attachment uses an existing VPC attachment as the underlying transport mechanism.

Request Syntax

```
POST /connect-attachments HTTP/1.1
Content-type: application/json

{
   "ClientToken": "string",
   "CoreNetworkId": "string",
   "EdgeLocation": "string",
   "Options": {
      "Protocol": "string"
   },
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ],
   "TransportAttachmentId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ClientToken (p. 19)

The client token associated with the request.

Type: String

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

Pattern: [\s\S]*

Required: No

CoreNetworkId (p. 19)

The ID of a core network where you want to create the attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: ^core-network-([0-9a-f]{8,17})$

Required: Yes

EdgeLocation (p. 19)

The Region where the edge is located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: Yes

Options (p. 19)

Options for creating an attachment.

Type: ConnectAttachmentOptions (p. 261) object

Required: Yes

Tags (p. 19)

The list of key-value tags associated with the request.

Type: Array of Tag (p. 331) objects

Required: No

TransportAttachmentId (p. 19)

The ID of the attachment between the two connections.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: Yes

Response Syntax

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

{
   "ConnectAttachment": {
      "Attachment": {
         "AttachmentId": "string",
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
```

```
                    "Value": "string"
                }
            ]
        },
        "ResourceArn": "string",
        "SegmentName": "string",
        "State": "string",
        "Tags": [
            {
                "Key": "string",
                "Value": "string"
            }
        ],
        "UpdatedAt": number
    },
    "Options": {
        "Protocol": "string"
    },
    "TransportAttachmentId": "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.

ConnectAttachment (p. 20)

> The response to a Connect attachment request.
>
> Type: ConnectAttachment (p. 260) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.
>
> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.
>
> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.
>
> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.
>
> HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateConnection

Creates a connection between two devices. The devices can be a physical or virtual appliance that connects to a third-party appliance in a VPC, or a physical appliance that connects to another physical appliance in an on-premises network.

Request Syntax

```
POST /global-networks/globalNetworkId/connections HTTP/1.1
Content-type: application/json

{
   "ConnectedDeviceId": "string",
   "ConnectedLinkId": "string",
   "Description": "string",
   "DeviceId": "string",
   "LinkId": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 23)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: [\s\S]*
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

ConnectedDeviceId (p. 23)

> The ID of the second device in the connection.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: [\s\S]*
>
> Required: Yes

ConnectedLinkId (p. 23)

> The ID of the link for the second device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

Description (p. 23)

A description of the connection.

Length Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

DeviceId (p. 23)

The ID of the first device in the connection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

LinkId (p. 23)

The ID of the link for the first device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

Tags (p. 23)

The tags to apply to the resource during creation.

Type: Array of Tag (p. 331) objects

Required: No

Response Syntax

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

{
   "Connection": {
      "ConnectedDeviceId": "string",
```

```
        "ConnectedLinkId": "string",
        "ConnectionArn": "string",
        "ConnectionId": "string",
        "CreatedAt": number,
        "Description": "string",
        "DeviceId": "string",
        "GlobalNetworkId": "string",
        "LinkId": "string",
        "State": "string",
        "Tags": [
            {
                "Key": "string",
                "Value": "string"
            }
        ]
    }
}
```

Response Elements

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

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

Connection (p. 24)

> Information about the connection.
>
> Type: Connection (p. 262) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.
>
> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.
>
> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.
>
> HTTP Status Code: 500

ServiceQuotaExceededException

> A service limit was exceeded.
>
> HTTP Status Code: 402

ThrottlingException

> The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateConnectPeer

Creates a core network Connect peer for a specified core network connect attachment between a core network and an appliance. The peer address and transit gateway address must be the same IP address family (IPv4 or IPv6).

Request Syntax

```
POST /connect-peers HTTP/1.1
Content-type: application/json

{
   "BgpOptions": {
      "PeerAsn": number
   },
   "ClientToken": "string",
   "ConnectAttachmentId": "string",
   "CoreNetworkAddress": "string",
   "InsideCidrBlocks": [ "string" ],
   "PeerAddress": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

BgpOptions (p. 27)

> The Connect peer BGP options.
>
> Type: BgpOptions (p. 259) object
>
> Required: No

ClientToken (p. 27)

> The client token associated with the request.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 256.
>
> Pattern: [\s\S]*
>
> Required: No

ConnectAttachmentId (p. 27)

> The ID of the connection attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: Yes

CoreNetworkAddress (p. 27)

A Connect peer core network address.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

InsideCidrBlocks (p. 27)

The inside IP addresses used for BGP peering.

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: Yes

PeerAddress (p. 27)

The Connect peer address.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

Tags (p. 27)

The tags associated with the peer request.

Type: Array of Tag (p. 331) objects

Required: No

Response Syntax

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

{
   "ConnectPeer": {
      "Configuration": {
         "BgpConfigurations": [
            {
               "CoreNetworkAddress": "string",
               "CoreNetworkAsn": number,
```

```
                "PeerAddress": "string",
                "PeerAsn": number
            }
        ],
        "CoreNetworkAddress": "string",
        "InsideCidrBlocks": [ "string" ],
        "PeerAddress": "string",
        "Protocol": "string"
    },
    "ConnectAttachmentId": "string",
    "ConnectPeerId": "string",
    "CoreNetworkId": "string",
    "CreatedAt": number,
    "EdgeLocation": "string",
    "State": "string",
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ]
  }
}
```

Response Elements

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

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

ConnectPeer (p. 28)

> The response to the request.
>
> Type: ConnectPeer (p. 266) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.
>
> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.
>
> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.
>
> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateCoreNetwork

Creates a core network as part of your global network, and optionally, with a core network policy.

Request Syntax

```
POST /core-networks HTTP/1.1
Content-type: application/json

{
   "ClientToken": "string",
   "Description": "string",
   "GlobalNetworkId": "string",
   "PolicyDocument": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ClientToken (p. 31)

The client token associated with a core network request.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Description (p. 31)

The description of a core network.

Type: String

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

Pattern: `[\s\S]*`

Required: No

GlobalNetworkId (p. 31)

The ID of the global network that a core network will be a part of.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

PolicyDocument (p. 31)

The policy document for creating a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Required: No

Tags (p. 31)

Key-value tags associated with a core network request.

Type: Array of Tag (p. 331) objects

Required: No

Response Syntax

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

{
    "CoreNetwork": {
        "CoreNetworkArn": "string",
        "CoreNetworkId": "string",
        "CreatedAt": number,
        "Description": "string",
        "Edges": [
            {
                "Asn": number,
                "EdgeLocation": "string",
                "InsideCidrBlocks": [ "string" ]
            }
        ],
        "GlobalNetworkId": "string",
        "Segments": [
            {
                "EdgeLocations": [ "string" ],
                "Name": "string",
                "SharedSegments": [ "string" ]
            }
        ],
        "State": "string",
        "Tags": [
            {
                "Key": "string",
                "Value": "string"
            }
        ]
    }
}
```

Response Elements

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

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

CoreNetwork (p. 32)

    Returns details about a core network.

    Type: CoreNetwork (p. 275) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

    You do not have sufficient access to perform this action.

    HTTP Status Code: 403

ConflictException

    There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

    HTTP Status Code: 409

CoreNetworkPolicyException

    Describes a core network policy exception.

    HTTP Status Code: 400

InternalServerException

    The request has failed due to an internal error.

    HTTP Status Code: 500

ServiceQuotaExceededException

    A service limit was exceeded.

    HTTP Status Code: 402

ThrottlingException

    The request was denied due to request throttling.

    HTTP Status Code: 429

ValidationException

    The input fails to satisfy the constraints.

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

CreateDevice

Creates a new device in a global network. If you specify both a site ID and a location, the location of the site is used for visualization in the Network Manager console.

Request Syntax

```
POST /global-networks/globalNetworkId/devices HTTP/1.1
Content-type: application/json

{
    "AWSLocation": {
        "SubnetArn": "string",
        "Zone": "string"
    },
    "Description": "string",
    "Location": {
        "Address": "string",
        "Latitude": "string",
        "Longitude": "string"
    },
    "Model": "string",
    "SerialNumber": "string",
    "SiteId": "string",
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ],
    "Type": "string",
    "Vendor": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 35)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

AWSLocation (p. 35)

> The AWS location of the device, if applicable. For an on-premises device, you can omit this parameter.
>
> Type: AWSLocation (p. 257) object

Required: No

Description (p. 35)

A description of the device.

Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Location (p. 35)

The location of the device.

Type: Location (p. 303) object

Required: No

Model (p. 35)

The model of the device.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

SerialNumber (p. 35)

The serial number of the device.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

SiteId (p. 35)

The ID of the site.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

Tags (p. 35)

The tags to apply to the resource during creation.

Type: Array of Tag (p. 331) objects

Required: No

Type (p. 35)

The type of the device.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Vendor (p. 35)

The vendor of the device.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Response Syntax

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

{
   "Device": {
      "AWSLocation": {
         "SubnetArn": "string",
         "Zone": "string"
      },
      "CreatedAt": number,
      "Description": "string",
      "DeviceArn": "string",
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "Location": {
         "Address": "string",
         "Latitude": "string",
         "Longitude": "string"
      },
      "Model": "string",
      "SerialNumber": "string",
      "SiteId": "string",
      "State": "string",
      "Tags": [
         {
            "Key": "string",
            "Value": "string"
         }
      ],
      "Type": "string",
```

```
        "Vendor": "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.

Device (p. 37)

> Information about the device.
>
> Type: Device (p. 293) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.
>
> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.
>
> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.
>
> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.
>
> HTTP Status Code: 404

ServiceQuotaExceededException

> A service limit was exceeded.
>
> HTTP Status Code: 402

ThrottlingException

> The request was denied due to request throttling.
>
> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.
>
> 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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateGlobalNetwork

Creates a new, empty global network.

Request Syntax

```
POST /global-networks HTTP/1.1
Content-type: application/json

{
    "Description": "string",
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Description (p. 40)

> A description of the global network.
>
> Constraints: Maximum length of 256 characters.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 256.
>
> Pattern: [\s\S]*
>
> Required: No

Tags (p. 40)

> The tags to apply to the resource during creation.
>
> Type: Array of Tag (p. 331) objects
>
> Required: No

Response Syntax

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

{
    "GlobalNetwork": {
        "CreatedAt": number,
```

```
      "Description": "string",
      "GlobalNetworkArn": "string",
      "GlobalNetworkId": "string",
      "State": "string",
      "Tags": [
         {
            "Key": "string",
            "Value": "string"
         }
      ]
   }
}
```

Response Elements

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

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

GlobalNetwork (p. 40)

    Information about the global network object.

    Type: GlobalNetwork (p. 296) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

    You do not have sufficient access to perform this action.

    HTTP Status Code: 403

ConflictException

    There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

    HTTP Status Code: 409

InternalServerException

    The request has failed due to an internal error.

    HTTP Status Code: 500

ServiceQuotaExceededException

    A service limit was exceeded.

    HTTP Status Code: 402

ThrottlingException

    The request was denied due to request throttling.

    HTTP Status Code: 429

ValidationException

    The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateLink

Creates a new link for a specified site.

Request Syntax

```
POST /global-networks/globalNetworkId/links HTTP/1.1
Content-type: application/json

{
    "Bandwidth": {
        "DownloadSpeed": number,
        "UploadSpeed": number
    },
    "Description": "string",
    "Provider": "string",
    "SiteId": "string",
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ],
    "Type": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 43)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: [\s\S]*
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

Bandwidth (p. 43)

> The upload speed and download speed in Mbps.
>
> Type: Bandwidth (p. 258) object
>
> Required: Yes

Description (p. 43)

> A description of the link.
>
> Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Provider (p. 43)

The provider of the link.

Constraints: Maximum length of 128 characters. Cannot include the following characters: | \ ^

Type: String

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

Pattern: `[\s\S]*`

Required: No

SiteId (p. 43)

The ID of the site.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

Tags (p. 43)

The tags to apply to the resource during creation.

Type: Array of Tag (p. 331) objects

Required: No

Type (p. 43)

The type of the link.

Constraints: Maximum length of 128 characters. Cannot include the following characters: | \ ^

Type: String

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

Pattern: `[\s\S]*`

Required: No

Response Syntax

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

{
    "Link": {
```

```
        "Bandwidth": {
            "DownloadSpeed": number,
            "UploadSpeed": number
        },
        "CreatedAt": number,
        "Description": "string",
        "GlobalNetworkId": "string",
        "LinkArn": "string",
        "LinkId": "string",
        "Provider": "string",
        "SiteId": "string",
        "State": "string",
        "Tags": [
            {
                "Key": "string",
                "Value": "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.

Link (p. 44)

> Information about the link.

> Type: Link (p. 298) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

> HTTP Status Code: 404

ServiceQuotaExceededException

A service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateSite

Creates a new site in a global network.

Request Syntax

```
POST /global-networks/globalNetworkId/sites HTTP/1.1
Content-type: application/json

{
    "Description": "string",
    "Location": {
        "Address": "string",
        "Latitude": "string",
        "Longitude": "string"
    },
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ]
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 47)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 47)

> A description of your site.
>
> Constraints: Maximum length of 256 characters.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 256.
>
> Pattern: `[\s\S]*`
>
> Required: No

Location (p. 47)

The site location. This information is used for visualization in the Network Manager console. If you specify the address, the latitude and longitude are automatically calculated.

- `Address`: The physical address of the site.
- `Latitude`: The latitude of the site.
- `Longitude`: The longitude of the site.

Type: Location (p. 303) object

Required: No

Tags (p. 47)

The tags to apply to the resource during creation.

Type: Array of Tag (p. 331) objects

Required: No

Response Syntax

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

{
    "Site": {
        "CreatedAt": number,
        "Description": "string",
        "GlobalNetworkId": "string",
        "Location": {
            "Address": "string",
            "Latitude": "string",
            "Longitude": "string"
        },
        "SiteArn": "string",
        "SiteId": "string",
        "State": "string",
        "Tags": [
            {
                "Key": "string",
                "Value": "string"
            }
        ]
    }
}
```

Response Elements

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

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

Site (p. 48)

Information about the site.

Type: Site (p. 328) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateSiteToSiteVpnAttachment

Creates an Amazon Web Services site-to-site VPN attachment on an edge location of a core network.

Request Syntax

```
POST /site-to-site-vpn-attachments HTTP/1.1
Content-type: application/json

{
   "ClientToken": "string",
   "CoreNetworkId": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ],
   "VpnConnectionArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ClientToken (p. 51)

The client token associated with the request.

Type: String

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

Pattern: `[\s\S]*`

Required: No

CoreNetworkId (p. 51)

The ID of a core network where you're creating a site-to-site VPN attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

Tags (p. 51)

The tags associated with the request.

Type: Array of Tag (p. 331) objects

Required: No

VpnConnectionArn (p. 51)

The ARN identifying the VPN attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:vpn-connection\/vpn-[0-9a-f]{8,17}$`

Required: Yes

Response Syntax

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

{
   "SiteToSiteVpnAttachment": {
      "Attachment": {
         "AttachmentId": "string",
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "ResourceArn": "string",
         "SegmentName": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ],
         "UpdatedAt": number
      },
      "VpnConnectionArn": "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.

SiteToSiteVpnAttachment (p. 52)

Details about a site-to-site VPN attachment.

Type: SiteToSiteVpnAttachment (p. 330) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python

- [AWS SDK for Ruby V3](#)

CreateVpcAttachment

Creates a VPC attachment on an edge location of a core network.

Request Syntax

```
POST /vpc-attachments HTTP/1.1
Content-type: application/json

{
   "ClientToken": "string",
   "CoreNetworkId": "string",
   "Options": {
      "Ipv6Support": boolean
   },
   "SubnetArns": [ "string" ],
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ],
   "VpcArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ClientToken (p. 55)

> The client token associated with the request.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 256.
>
> Pattern: `[\s\S]*`
>
> Required: No

CoreNetworkId (p. 55)

> The ID of a core network for the VPC attachment.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^core-network-([0-9a-f]{8,17})$`
>
> Required: Yes

Options (p. 55)

> Options for the VPC attachment.

Type: VpcOptions (p. 338) object

Required: No

SubnetArns (p. 55)

The subnet ARN of the VPC attachment.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:subnet\/subnet-[0-9a-f]{8,17}$|^$`

Required: Yes

Tags (p. 55)

The key-value tags associated with the request.

Type: Array of Tag (p. 331) objects

Required: No

VpcArn (p. 55)

The ARN of the VPC.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:vpc\/vpc-[0-9a-f]{8,17}$`

Required: Yes

Response Syntax

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

{
   "VpcAttachment": {
      "Attachment": {
         "AttachmentId": "string",
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
```

```
            "ResourceArn": "string",
            "SegmentName": "string",
            "State": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ],
            "UpdatedAt": number
      },
      "Options": {
            "Ipv6Support": boolean
      },
      "SubnetArns": [ "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.

VpcAttachment (p. 56)

Provides details about the VPC attachment.

Type: VpcAttachment (p. 337) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteAttachment

Deletes an attachment. Supports all attachment types.

Request Syntax

```
DELETE /attachments/attachmentId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

attachmentId (p. 59)

> The ID of the attachment to delete.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^attachment-([0-9a-f]{8,17})$`
>
> Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Attachment": {
      "AttachmentId": "string",
      "AttachmentPolicyRuleNumber": number,
      "AttachmentType": "string",
      "CoreNetworkArn": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "EdgeLocation": "string",
      "OwnerAccountId": "string",
      "ProposedSegmentChange": {
         "AttachmentPolicyRuleNumber": number,
         "SegmentName": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ]
      },
      "ResourceArn": "string",
      "SegmentName": "string",
      "State": "string",
      "Tags": [
```

```
            {
                "Key": "string",
                "Value": "string"
            }
        ],
        "UpdatedAt": 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.

Attachment (p. 59)

Information about the deleted attachment.

Type: Attachment (p. 254) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteConnection

Deletes the specified connection in your global network.

Request Syntax

```
DELETE /global-networks/globalNetworkId/connections/connectionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

connectionId (p. 62)

> The ID of the connection.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

globalNetworkId (p. 62)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Connection": {
      "ConnectedDeviceId": "string",
      "ConnectedLinkId": "string",
      "ConnectionArn": "string",
      "ConnectionId": "string",
      "CreatedAt": number,
      "Description": "string",
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "LinkId": "string",
      "State": "string",
      "Tags": [
         {
            "Key": "string",
            "Value": "string"
```

```
            }
        ]
    }
}
```

Response Elements

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

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

Connection (p. 62)

Information about the connection.

Type: Connection (p. 262) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteConnectPeer

Deletes a Connect peer.

Request Syntax

```
DELETE /connect-peers/connectPeerId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

connectPeerId (p. 65)

> The ID of the deleted Connect peer.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: ^connect-peer-([0-9a-f]{8,17})$
>
> Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "ConnectPeer": {
      "Configuration": {
         "BgpConfigurations": [
            {
               "CoreNetworkAddress": "string",
               "CoreNetworkAsn": number,
               "PeerAddress": "string",
               "PeerAsn": number
            }
         ],
         "CoreNetworkAddress": "string",
         "InsideCidrBlocks": [ "string" ],
         "PeerAddress": "string",
         "Protocol": "string"
      },
      "ConnectAttachmentId": "string",
      "ConnectPeerId": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "EdgeLocation": "string",
      "State": "string",
      "Tags": [
         {
            "Key": "string",
            "Value": "string"
```

```
            }
        ]
    }
}
```

Response Elements

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

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

ConnectPeer (p. 65)

   Information about the deleted Connect peer.

   Type: ConnectPeer (p. 266) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

   You do not have sufficient access to perform this action.

   HTTP Status Code: 403

ConflictException

   There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

   HTTP Status Code: 409

InternalServerException

   The request has failed due to an internal error.

   HTTP Status Code: 500

ResourceNotFoundException

   The specified resource could not be found.

   HTTP Status Code: 404

ThrottlingException

   The request was denied due to request throttling.

   HTTP Status Code: 429

ValidationException

   The input fails to satisfy the constraints.

   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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteCoreNetwork

Deletes a core network along with all core network policies. This can only be done if there are no attachments on a core network.

Request Syntax

```
DELETE /core-networks/coreNetworkId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

coreNetworkId (p. 68)

> The network ID of the deleted core network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^core-network-([0-9a-f]{8,17})$`
>
> Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "CoreNetwork": {
      "CoreNetworkArn": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "Description": "string",
      "Edges": [
         {
            "Asn": number,
            "EdgeLocation": "string",
            "InsideCidrBlocks": [ "string" ]
         }
      ],
      "GlobalNetworkId": "string",
      "Segments": [
         {
            "EdgeLocations": [ "string" ],
            "Name": "string",
            "SharedSegments": [ "string" ]
         }
      ],
      "State": "string",
      "Tags": [
         {
            "Key": "string",
```

```
            "Value": "string"
        }
    ]
    }
}
```

Response Elements

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

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

CoreNetwork (p. 68)

> Information about the deleted core network.

> Type: CoreNetwork (p. 275) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.

> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.

> 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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteCoreNetworkPolicyVersion

Deletes a policy version from a core network. You can't delete the current LIVE policy.

Request Syntax

```
DELETE /core-networks/coreNetworkId/core-network-policy-versions/policyVersionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

coreNetworkId (p. 71)

>   The ID of a core network for the deleted policy.

>   Length Constraints: Minimum length of 0. Maximum length of 50.

>   Pattern: `^core-network-([0-9a-f]{8,17})$`

>   Required: Yes

policyVersionId (p. 71)

>   The version ID of the deleted policy.

>   Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "CoreNetworkPolicy": {
      "Alias": "string",
      "ChangeSetState": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "Description": "string",
      "PolicyDocument": "string",
      "PolicyErrors": [
         {
            "ErrorCode": "string",
            "Message": "string",
            "Path": "string"
         }
      ],
      "PolicyVersionId": 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.

CoreNetworkPolicy (p. 71)

Returns information about the deleted policy version.

Type: CoreNetworkPolicy (p. 282) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteDevice

Deletes an existing device. You must first disassociate the device from any links and customer gateways.

Request Syntax

```
DELETE /global-networks/globalNetworkId/devices/deviceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

deviceId (p. 74)

> The ID of the device.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: [\s\S]*
>
> Required: Yes

globalNetworkId (p. 74)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: [\s\S]*
>
> Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Device": {
      "AWSLocation": {
         "SubnetArn": "string",
         "Zone": "string"
      },
      "CreatedAt": number,
      "Description": "string",
      "DeviceArn": "string",
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "Location": {
         "Address": "string",
         "Latitude": "string",
         "Longitude": "string"
```

```
        },
        "Model": "string",
        "SerialNumber": "string",
        "SiteId": "string",
        "State": "string",
        "Tags": [
            {
                "Key": "string",
                "Value": "string"
            }
        ],
        "Type": "string",
        "Vendor": "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.

Device (p. 74)

Information about the device.

Type: Device (p. 293) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteGlobalNetwork

Deletes an existing global network. You must first delete all global network objects (devices, links, and sites), deregister all transit gateways, and delete any core networks.

Request Syntax

```
DELETE /global-networks/globalNetworkId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 77)

    The ID of the global network.

    Length Constraints: Minimum length of 0. Maximum length of 50.

    Pattern: `[\s\S]*`

    Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "GlobalNetwork": {
      "CreatedAt": number,
      "Description": "string",
      "GlobalNetworkArn": "string",
      "GlobalNetworkId": "string",
      "State": "string",
      "Tags": [
         {
            "Key": "string",
            "Value": "string"
         }
      ]
   }
}
```

Response Elements

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

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

[GlobalNetwork (p. 77)](#)

Information about the global network.

Type: [GlobalNetwork (p. 296)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 341)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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

- [AWS SDK for Ruby V3](#)

DeleteLink

Deletes an existing link. You must first disassociate the link from any devices and customer gateways.

Request Syntax

```
DELETE /global-networks/globalNetworkId/links/linkId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 80)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: [\s\S]*
>
> Required: Yes

linkId (p. 80)

> The ID of the link.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: [\s\S]*
>
> Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Link": {
      "Bandwidth": {
         "DownloadSpeed": number,
         "UploadSpeed": number
      },
      "CreatedAt": number,
      "Description": "string",
      "GlobalNetworkId": "string",
      "LinkArn": "string",
      "LinkId": "string",
      "Provider": "string",
      "SiteId": "string",
      "State": "string",
      "Tags": [
```

```
        {
            "Key": "string",
            "Value": "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.

Link (p. 80)

Information about the link.

Type: Link (p. 298) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteResourcePolicy

Deletes a resource policy for the specified resource. This revokes the access of the principals specified in the resource policy.

Request Syntax

```
DELETE /resource-policy/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn (p. 83)

> The ARN of the policy to delete.
>
> Length Constraints: Minimum length of 0. Maximum length of 1500.
>
> Pattern: `[\s\S]*`
>
> 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 (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.
>
> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.
>
> HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteSite

Deletes an existing site. The site cannot be associated with any device or link.

Request Syntax

```
DELETE /global-networks/globalNetworkId/sites/siteId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 85)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

siteId (p. 85)

> The ID of the site.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "Site": {
        "CreatedAt": number,
        "Description": "string",
        "GlobalNetworkId": "string",
        "Location": {
            "Address": "string",
            "Latitude": "string",
            "Longitude": "string"
        },
        "SiteArn": "string",
        "SiteId": "string",
        "State": "string",
        "Tags": [
            {
                "Key": "string",
```

```
            "Value": "string"
          }
        ]
      }
    }
}
```

Response Elements

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

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

Site (p. 85)

> Information about the site.
>
> Type: Site (p. 328) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.
>
> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.
>
> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.
>
> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.
>
> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.
>
> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.
>
> 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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeregisterTransitGateway

Deregisters a transit gateway from your global network. This action does not delete your transit gateway, or modify any of its attachments. This action removes any customer gateway associations.

Request Syntax

```
DELETE /global-networks/globalNetworkId/transit-gateway-registrations/transitGatewayArn
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 88)

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

transitGatewayArn (p. 88)

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

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "TransitGatewayRegistration": {
      "GlobalNetworkId": "string",
      "State": {
         "Code": "string",
         "Message": "string"
      },
      "TransitGatewayArn": "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.

TransitGatewayRegistration (p. 88)

>   The transit gateway registration information.

>   Type: TransitGatewayRegistration (p. 334) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

>   You do not have sufficient access to perform this action.

>   HTTP Status Code: 403

ConflictException

>   There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

>   HTTP Status Code: 409

InternalServerException

>   The request has failed due to an internal error.

>   HTTP Status Code: 500

ResourceNotFoundException

>   The specified resource could not be found.

>   HTTP Status Code: 404

ThrottlingException

>   The request was denied due to request throttling.

>   HTTP Status Code: 429

ValidationException

>   The input fails to satisfy the constraints.

>   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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeGlobalNetworks

Describes one or more global networks. By default, all global networks are described. To describe the objects in your global network, you must use the appropriate `Get*` action. For example, to list the transit gateways in your global network, use GetTransitGatewayRegistrations (p. 175).

Request Syntax

```
GET /global-networks?
globalNetworkIds=GlobalNetworkIds&maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

GlobalNetworkIds (p. 91)

The IDs of one or more global networks. The maximum is 10.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

MaxResults (p. 91)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 91)

The token for the next page of results.

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

Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
    "GlobalNetworks": [
        {
            "CreatedAt": number,
            "Description": "string",
            "GlobalNetworkArn": "string",
            "GlobalNetworkId": "string",
            "State": "string",
            "Tags": [
                {
```

```
            "Key": "string",
            "Value": "string"
         }
      ]
    }
  ],
  "NextToken": "string"
}
```

Response Elements

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

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

GlobalNetworks (p. 91)

> Information about the global networks.

> Type: Array of GlobalNetwork (p. 296) objects

NextToken (p. 91)

> The token for the next page of results.

> Type: String

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

> Pattern: `[\s\S]*`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.

> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DisassociateConnectPeer

Disassociates a core network Connect peer from a device and a link.

Request Syntax

```
DELETE /global-networks/globalNetworkId/connect-peer-associations/connectPeerId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

connectPeerId (p. 94)

The ID of the Connect peer to disassociate from a device.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^connect-peer-([0-9a-f]{8,17})$`

Required: Yes

globalNetworkId (p. 94)

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "ConnectPeerAssociation": {
      "ConnectPeerId": "string",
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "LinkId": "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.

ConnectPeerAssociation (p. 94)

Describes the Connect peer association.

Type: ConnectPeerAssociation (p. 268) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

DisassociateCustomerGateway

Disassociates a customer gateway from a device and a link.

Request Syntax

```
DELETE /global-networks/globalNetworkId/customer-gateway-associations/customerGatewayArn
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

customerGatewayArn (p. 97)

>   The Amazon Resource Name (ARN) of the customer gateway.

>   Length Constraints: Minimum length of 0. Maximum length of 500.

>   Pattern: `[\s\S]*`

>   Required: Yes

globalNetworkId (p. 97)

>   The ID of the global network.

>   Length Constraints: Minimum length of 0. Maximum length of 50.

>   Pattern: `[\s\S]*`

>   Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "CustomerGatewayAssociation": {
      "CustomerGatewayArn": "string",
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "LinkId": "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.

CustomerGatewayAssociation (p. 97)

> Information about the customer gateway association.

> Type: CustomerGatewayAssociation (p. 291) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.

> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.

> 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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

DisassociateLink

Disassociates an existing device from a link. You must first disassociate any customer gateways that are associated with the link.

Request Syntax

```
DELETE /global-networks/globalNetworkId/link-associations?deviceId=DeviceId&linkId=LinkId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DeviceId (p. 100)

> The ID of the device.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: [\s\S]*
>
> Required: Yes

globalNetworkId (p. 100)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: [\s\S]*
>
> Required: Yes

LinkId (p. 100)

> The ID of the link.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: [\s\S]*
>
> Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "LinkAssociation": {
      "DeviceId": "string",
      "GlobalNetworkId": "string",
```

```
        "LinkAssociationState": "string",
        "LinkId": "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.

LinkAssociation (p. 100)

> Information about the link association.
>
> Type: LinkAssociation (p. 301) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.
>
> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.
>
> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.
>
> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.
>
> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.
>
> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.
>
> 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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DisassociateTransitGatewayConnectPeer

Disassociates a transit gateway Connect peer from a device and link.

Request Syntax

```
DELETE /global-networks/globalNetworkId/transit-gateway-connect-peer-
associations/transitGatewayConnectPeerArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 103)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

transitGatewayConnectPeerArn (p. 103)

> The Amazon Resource Name (ARN) of the transit gateway Connect peer.
>
> Length Constraints: Minimum length of 0. Maximum length of 500.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "TransitGatewayConnectPeerAssociation": {
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "LinkId": "string",
      "State": "string",
      "TransitGatewayConnectPeerArn": "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.

TransitGatewayConnectPeerAssociation (p. 103)

> The transit gateway Connect peer association.

> Type: TransitGatewayConnectPeerAssociation (p. 332) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.

> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.

> 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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

ExecuteCoreNetworkChangeSet

Executes a change set on your core network. Deploys changes globally based on the policy submitted..

Request Syntax

```
POST /core-networks/coreNetworkId/core-network-change-sets/policyVersionId/execute HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

coreNetworkId (p. 106)

> The ID of a core network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^core-network-([0-9a-f]{8,17})$`
>
> Required: Yes

policyVersionId (p. 106)

> The ID of the policy version.
>
> 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 (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.
>
> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetConnectAttachment

Returns information about a core network Connect attachment.

Request Syntax

```
GET /connect-attachments/attachmentId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

attachmentId (p. 108)

> The ID of the attachment.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^attachment-([0-9a-f]{8,17})$`
>
> Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "ConnectAttachment": {
      "Attachment": {
         "AttachmentId": "string",
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "ResourceArn": "string",
         "SegmentName": "string",
         "State": "string",
         "Tags": [
            {
```

```
            "Key": "string",
            "Value": "string"
         }
      ],
      "UpdatedAt": number
   },
   "Options": {
      "Protocol": "string"
   },
   "TransportAttachmentId": "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.

ConnectAttachment (p. 108)

> Details about the Connect attachment.

> Type: ConnectAttachment (p. 260) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.

> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.

> 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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetConnections

Gets information about one or more of your connections in a global network.

Request Syntax

```
GET /global-networks/globalNetworkId/connections?
connectionIds=ConnectionIds&deviceId=DeviceId&maxResults=MaxResults&nextToken=NextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ConnectionIds (p. 111)

One or more connection IDs.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

DeviceId (p. 111)

The ID of the device.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

globalNetworkId (p. 111)

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

MaxResults (p. 111)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 111)

The token for the next page of results.

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

Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Connections": [
      {
         "ConnectedDeviceId": "string",
         "ConnectedLinkId": "string",
         "ConnectionArn": "string",
         "ConnectionId": "string",
         "CreatedAt": number,
         "Description": "string",
         "DeviceId": "string",
         "GlobalNetworkId": "string",
         "LinkId": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ]
      }
   ],
   "NextToken": "string"
}
```

Response Elements

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

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

Connections (p. 112)

   Information about the connections.

   Type: Array of Connection (p. 262) objects

NextToken (p. 112)

   The token to use for the next page of results.

   Type: String

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

   Pattern: `[\s\S]*`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

   You do not have sufficient access to perform this action.

   HTTP Status Code: 403

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetConnectPeer

Returns information about a core network Connect peer.

Request Syntax

```
GET /connect-peers/connectPeerId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

connectPeerId (p. 114)

The ID of the Connect peer.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^connect-peer-([0-9a-f]{8,17})$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "ConnectPeer": {
      "Configuration": {
         "BgpConfigurations": [
            {
               "CoreNetworkAddress": "string",
               "CoreNetworkAsn": number,
               "PeerAddress": "string",
               "PeerAsn": number
            }
         ],
         "CoreNetworkAddress": "string",
         "InsideCidrBlocks": [ "string" ],
         "PeerAddress": "string",
         "Protocol": "string"
      },
      "ConnectAttachmentId": "string",
      "ConnectPeerId": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "EdgeLocation": "string",
      "State": "string",
      "Tags": [
         {
            "Key": "string",
```

```
            "Value": "string"
        }
    ]
}
}
```

Response Elements

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

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

ConnectPeer (p. 114)

Returns information about a core network Connect peer.

Type: ConnectPeer (p. 266) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetConnectPeerAssociations

Returns information about a core network Connect peer associations.

Request Syntax

```
GET /global-networks/globalNetworkId/connect-peer-associations?
connectPeerIds=ConnectPeerIds&maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ConnectPeerIds (p. 117)

> The IDs of the Connect peers.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^connect-peer-([0-9a-f]{8,17})$`

globalNetworkId (p. 117)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

MaxResults (p. 117)

> The maximum number of results to return.
>
> Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 117)

> The token for the next page of results.
>
> Length Constraints: Minimum length of 0. Maximum length of 2048.
>
> Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "ConnectPeerAssociations": [
```

```
    {
        "ConnectPeerId": "string",
        "DeviceId": "string",
        "GlobalNetworkId": "string",
        "LinkId": "string",
        "State": "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.

ConnectPeerAssociations (p. 117)

> Displays a list of Connect peer associations.

> Type: Array of ConnectPeerAssociation (p. 268) objects

NextToken (p. 117)

> The token for the next page of results.

> Type: String

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

> Pattern: `[\s\S]*`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

> HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCoreNetwork

Returns information about the LIVE policy for a core network.

Request Syntax

```
GET /core-networks/coreNetworkId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

coreNetworkId (p. 120)

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "CoreNetwork": {
      "CoreNetworkArn": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "Description": "string",
      "Edges": [
         {
            "Asn": number,
            "EdgeLocation": "string",
            "InsideCidrBlocks": [ "string" ]
         }
      ],
      "GlobalNetworkId": "string",
      "Segments": [
         {
            "EdgeLocations": [ "string" ],
            "Name": "string",
            "SharedSegments": [ "string" ]
         }
      ],
      "State": "string",
      "Tags": [
         {
            "Key": "string",
```

```
            "Value": "string"
        }
    ]
  }
}
```

Response Elements

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

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

CoreNetwork (p. 120)

Details about a core network.

Type: CoreNetwork (p. 275) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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

GetCoreNetworkChangeSet

Returns a change set between the LIVE core network policy and a submitted policy.

Request Syntax

```
GET /core-networks/coreNetworkId/core-network-change-sets/policyVersionId?
maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

coreNetworkId (p. 123)

>   The ID of a core network.
>
>   Length Constraints: Minimum length of 0. Maximum length of 50.
>
>   Pattern: `^core-network-([0-9a-f]{8,17})$`
>
>   Required: Yes

MaxResults (p. 123)

>   The maximum number of results to return.
>
>   Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 123)

>   The token for the next page of results.
>
>   Length Constraints: Minimum length of 0. Maximum length of 2048.
>
>   Pattern: `[\s\S]*`

policyVersionId (p. 123)

>   The ID of the policy version.
>
>   Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "CoreNetworkChanges": [
      {
         "Action": "string",
         "Identifier": "string",
```

```
            "NewValues": {
                "Asn": number,
                "Cidr": "string",
                "DestinationIdentifier": "string",
                "EdgeLocations": [ "string" ],
                "InsideCidrBlocks": [ "string" ],
                "SegmentName": "string",
                "SharedSegments": [ "string" ]
            },
            "PreviousValues": {
                "Asn": number,
                "Cidr": "string",
                "DestinationIdentifier": "string",
                "EdgeLocations": [ "string" ],
                "InsideCidrBlocks": [ "string" ],
                "SegmentName": "string",
                "SharedSegments": [ "string" ]
            },
            "Type": "string"
        }
    ],
    "NextToken": "string"
}
```

Response Elements

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

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

CoreNetworkChanges (p. 123)

Describes a core network changes.

Type: Array of CoreNetworkChange (p. 277) objects

NextToken (p. 123)

The token for the next page of results.

Type: String

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

Pattern: [\s\S]*

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCoreNetworkPolicy

Gets details about a core network policy. You can get details about your current live policy or any previous policy version.

Request Syntax

```
GET /core-networks/coreNetworkId/core-network-policy?
alias=Alias&policyVersionId=PolicyVersionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Alias (p. 126)

> The alias of a core network policy
>
> Valid Values: `LIVE | LATEST`

coreNetworkId (p. 126)

> The ID of a core network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^core-network-([0-9a-f]{8,17})$`
>
> Required: Yes

PolicyVersionId (p. 126)

> The ID of a core network policy version.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "CoreNetworkPolicy": {
      "Alias": "string",
      "ChangeSetState": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "Description": "string",
      "PolicyDocument": "string",
      "PolicyErrors": [
         {
            "ErrorCode": "string",
            "Message": "string",
            "Path": "string"
         }
```

```
        ],
        "PolicyVersionId": 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.

CoreNetworkPolicy (p. 126)

> The details about a core network policy.

> Type: CoreNetworkPolicy (p. 282) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.

> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.

> 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

- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetCustomerGatewayAssociations

Gets the association information for customer gateways that are associated with devices and links in your global network.

Request Syntax

```
GET /global-networks/globalNetworkId/customer-gateway-associations?
customerGatewayArns=CustomerGatewayArns&maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

CustomerGatewayArns (p. 129)

One or more customer gateway Amazon Resource Names (ARNs). The maximum is 10.

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

globalNetworkId (p. 129)

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

MaxResults (p. 129)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 129)

The token for the next page of results.

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

Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
```

```
    "CustomerGatewayAssociations": [
      {
        "CustomerGatewayArn": "string",
        "DeviceId": "string",
        "GlobalNetworkId": "string",
        "LinkId": "string",
        "State": "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.

CustomerGatewayAssociations (p. 129)

> The customer gateway associations.

> Type: Array of CustomerGatewayAssociation (p. 291) objects

NextToken (p. 129)

> The token for the next page of results.

> Type: String

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

> Pattern: `[\s\S]*`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

> HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetDevices

Gets information about one or more of your devices in a global network.

Request Syntax

```
GET /global-networks/globalNetworkId/devices?
deviceIds=DeviceIds&maxResults=MaxResults&nextToken=NextToken&siteId=SiteId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DeviceIds (p. 132)

> One or more device IDs. The maximum is 10.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`

globalNetworkId (p. 132)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

MaxResults (p. 132)

> The maximum number of results to return.
>
> Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 132)

> The token for the next page of results.
>
> Length Constraints: Minimum length of 0. Maximum length of 2048.
>
> Pattern: `[\s\S]*`

SiteId (p. 132)

> The ID of the site.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "Devices": [
      {
         "AWSLocation": {
            "SubnetArn": "string",
            "Zone": "string"
         },
         "CreatedAt": number,
         "Description": "string",
         "DeviceArn": "string",
         "DeviceId": "string",
         "GlobalNetworkId": "string",
         "Location": {
            "Address": "string",
            "Latitude": "string",
            "Longitude": "string"
         },
         "Model": "string",
         "SerialNumber": "string",
         "SiteId": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ],
         "Type": "string",
         "Vendor": "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.

Devices (p. 132)

The devices.

Type: Array of Device (p. 293) objects

NextToken (p. 132)

The token for the next page of results.

Type: String

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

Pattern: [\s\S]*

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetLinkAssociations

Gets the link associations for a device or a link. Either the device ID or the link ID must be specified.

Request Syntax

```
GET /global-networks/globalNetworkId/link-associations?
deviceId=DeviceId&linkId=LinkId&maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DeviceId (p. 135)

    The ID of the device.

    Length Constraints: Minimum length of 0. Maximum length of 50.

    Pattern: [\s\S]*

globalNetworkId (p. 135)

    The ID of the global network.

    Length Constraints: Minimum length of 0. Maximum length of 50.

    Pattern: [\s\S]*

    Required: Yes

LinkId (p. 135)

    The ID of the link.

    Length Constraints: Minimum length of 0. Maximum length of 50.

    Pattern: [\s\S]*

MaxResults (p. 135)

    The maximum number of results to return.

    Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 135)

    The token for the next page of results.

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

    Pattern: [\s\S]*

Request Body

The request does not have a request body.

Response Syntax

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

{
   "LinkAssociations": [
      {
         "DeviceId": "string",
         "GlobalNetworkId": "string",
         "LinkAssociationState": "string",
         "LinkId": "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.

LinkAssociations (p. 136)

   The link associations.

   Type: Array of LinkAssociation (p. 301) objects

NextToken (p. 136)

   The token for the next page of results.

   Type: String

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

   Pattern: [\s\S]*

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

   You do not have sufficient access to perform this action.

   HTTP Status Code: 403

InternalServerException

   The request has failed due to an internal error.

   HTTP Status Code: 500

ResourceNotFoundException

   The specified resource could not be found.

   HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetLinks

Gets information about one or more links in a specified global network.

If you specify the site ID, you cannot specify the type or provider in the same request. You can specify the type and provider in the same request.

Request Syntax

```
GET /global-networks/globalNetworkId/links?
linkIds=LinkIds&maxResults=MaxResults&nextToken=NextToken&provider=Provider&siteId=SiteId&type=Type
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 138)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

LinkIds (p. 138)

> One or more link IDs. The maximum is 10.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`

MaxResults (p. 138)

> The maximum number of results to return.
>
> Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 138)

> The token for the next page of results.
>
> Length Constraints: Minimum length of 0. Maximum length of 2048.
>
> Pattern: `[\s\S]*`

Provider (p. 138)

> The link provider.
>
> Length Constraints: Minimum length of 0. Maximum length of 256.
>
> Pattern: `[\s\S]*`

SiteId (p. 138)

> The ID of the site.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Type (p. 138)

The link type.

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

Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Links": [
      {
         "Bandwidth": {
            "DownloadSpeed": number,
            "UploadSpeed": number
         },
         "CreatedAt": number,
         "Description": "string",
         "GlobalNetworkId": "string",
         "LinkArn": "string",
         "LinkId": "string",
         "Provider": "string",
         "SiteId": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ],
         "Type": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

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

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

Links (p. 139)

The links.

Type: Array of Link (p. 298) objects

NextToken (p. 139)

The token for the next page of results.

Type: String

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

Pattern: `[\s\S]*`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetNetworkResourceCounts

Gets the count of network resources, by resource type, for the specified global network.

Request Syntax

```
GET /global-networks/globalNetworkId/network-resource-count?
maxResults=MaxResults&nextToken=NextToken&resourceType=ResourceType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 141)

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

MaxResults (p. 141)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 141)

The token for the next page of results.

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

Pattern: `[\s\S]*`

ResourceType (p. 141)

The resource type.

The following are the supported resource types for AWS Direct Connect:

- `dxcon`
- `dx-gateway`
- `dx-vif`

The following are the supported resource types for Network Manager:

- `connection`
- `device`
- `link`
- `site`

The following are the supported resource types for Amazon VPC:

- `customer-gateway`
- `transit-gateway`
- `transit-gateway-attachment`

- `transit-gateway-connect-peer`
- `transit-gateway-route-table`
- `vpn-connection`

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

Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
    "NetworkResourceCounts": [
        {
            "Count": number,
            "ResourceType": "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.

NetworkResourceCounts (p. 142)

> The count of resources.

> Type: Array of NetworkResourceCount (p. 307) objects

NextToken (p. 142)

> The token for the next page of results.

> Type: String

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

> Pattern: `[\s\S]*`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetNetworkResourceRelationships

Gets the network resource relationships for the specified global network.

Request Syntax

```
GET /global-networks/globalNetworkId/network-resource-relationships?
accountId=AccountId&awsRegion=AwsRegion&coreNetworkId=CoreNetworkId&maxResults=MaxResults&nextToken=Nex
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

AccountId (p. 144)

> The AWS account ID.
>
> Length Constraints: Fixed length of 12.
>
> Pattern: `[\s\S]*`

AwsRegion (p. 144)

> The AWS Region.
>
> Length Constraints: Minimum length of 1. Maximum length of 63.
>
> Pattern: `[\s\S]*`

CoreNetworkId (p. 144)

> The ID of a core network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^core-network-([0-9a-f]{8,17})$`

globalNetworkId (p. 144)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

MaxResults (p. 144)

> The maximum number of results to return.
>
> Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 144)

> The token for the next page of results.
>
> Length Constraints: Minimum length of 0. Maximum length of 2048.
>
> Pattern: `[\s\S]*`

RegisteredGatewayArn (p. 144)

The ARN of the registered gateway.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

ResourceArn (p. 144)

The ARN of the gateway.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

ResourceType (p. 144)

The resource type.

The following are the supported resource types for AWS Direct Connect:

- `dxcon`
- `dx-gateway`
- `dx-vif`

The following are the supported resource types for Network Manager:

- `connection`
- `device`
- `link`
- `site`

The following are the supported resource types for Amazon VPC:

- `customer-gateway`
- `transit-gateway`
- `transit-gateway-attachment`
- `transit-gateway-connect-peer`
- `transit-gateway-route-table`
- `vpn-connection`

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

Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "NextToken": "string",
   "Relationships": [
```

```
        {
            "From": "string",
            "To": "string"
        }
    ]
}
```

Response Elements

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

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

NextToken (p. 145)

> The token for the next page of results.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 2048.
>
> Pattern: `[\s\S]*`

Relationships (p. 145)

> The resource relationships.
>
> Type: Array of Relationship (p. 319) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.
>
> HTTP Status Code: 403

InternalServerException

> The request has failed due to an internal error.
>
> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.
>
> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.
>
> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.
>
> 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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetNetworkResources

Describes the network resources for the specified global network.

The results include information from the corresponding Describe call for the resource, minus any sensitive information such as pre-shared keys.

Request Syntax

```
GET /global-networks/globalNetworkId/network-resources?
accountId=AccountId&awsRegion=AwsRegion&coreNetworkId=CoreNetworkId&maxResults=MaxResults&nextToken=Nex
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

AccountId (p. 148)

> The AWS account ID.
>
> Length Constraints: Fixed length of 12.
>
> Pattern: [\s\S]*

AwsRegion (p. 148)

> The AWS Region.
>
> Length Constraints: Minimum length of 1. Maximum length of 63.
>
> Pattern: [\s\S]*

CoreNetworkId (p. 148)

> The ID of a core network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: ^core-network-([0-9a-f]{8,17})$

globalNetworkId (p. 148)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: [\s\S]*
>
> Required: Yes

MaxResults (p. 148)

> The maximum number of results to return.
>
> Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 148)

> The token for the next page of results.
>
> Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

RegisteredGatewayArn (p. 148)

The ARN of the gateway.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

ResourceArn (p. 148)

The ARN of the resource.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

ResourceType (p. 148)

The resource type.

The following are the supported resource types for AWS Direct Connect:

- `dxcon` - The definition model is Connection.
- `dx-gateway` - The definition model is DirectConnectGateway.
- `dx-vif` - The definition model is VirtualInterface.

The following are the supported resource types for Network Manager:

- `connection` - The definition model is Connection.
- `device` - The definition model is Device.
- `link` - The definition model is Link.
- `site` - The definition model is Site.

The following are the supported resource types for Amazon VPC:

- `customer-gateway` - The definition model is CustomerGateway.
- `transit-gateway` - The definition model is TransitGateway.
- `transit-gateway-attachment` - The definition model is TransitGatewayAttachment.
- `transit-gateway-connect-peer` - The definition model is TransitGatewayConnectPeer.
- `transit-gateway-route-table` - The definition model is TransitGatewayRouteTable.
- `vpn-connection` - The definition model is VpnConnection.

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

Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "NetworkResources": [
```

```
      {
         "AccountId": "string",
         "AwsRegion": "string",
         "CoreNetworkId": "string",
         "Definition": "string",
         "DefinitionTimestamp": number,
         "Metadata": {
            "string" : "string"
         },
         "RegisteredGatewayArn": "string",
         "ResourceArn": "string",
         "ResourceId": "string",
         "ResourceType": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ]
      }
   ],
   "NextToken": "string"
}
```

Response Elements

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

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

NetworkResources (p. 149)

> The network resources.

> Type: Array of NetworkResource (p. 304) objects

NextToken (p. 149)

> The token for the next page of results.

> Type: String

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

> Pattern: `[\s\S]*`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetNetworkRoutes

Gets the network routes of the specified global network.

Request Syntax

```
POST /global-networks/globalNetworkId/network-routes HTTP/1.1
Content-type: application/json

{
    "DestinationFilters": {
        "string" : [ "string" ]
    },
    "ExactCidrMatches": [ "string" ],
    "LongestPrefixMatches": [ "string" ],
    "PrefixListIds": [ "string" ],
    "RouteTableIdentifier": {
        "CoreNetworkSegmentEdge": {
            "CoreNetworkId": "string",
            "EdgeLocation": "string",
            "SegmentName": "string"
        },
        "TransitGatewayRouteTableArn": "string"
    },
    "States": [ "string" ],
    "SubnetOfMatches": [ "string" ],
    "SupernetOfMatches": [ "string" ],
    "Types": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 152)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

DestinationFilters (p. 152)

> Filter by route table destination. Possible Values: TRANSIT_GATEWAY_ATTACHMENT_ID, RESOURCE_ID, or RESOURCE_TYPE.
>
> Type: String to array of strings map
>
> Key Length Constraints: Maximum length of 128.
>
> Key Pattern: `^[0-9a-zA-Z\.-]*$`

Length Constraints: Maximum length of 255.

Pattern: `^[0-9a-zA-Z\*\.\\/\?-]*$`

Required: No

ExactCidrMatches (p. 152)

An exact CIDR block.

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: No

LongestPrefixMatches (p. 152)

The most specific route that matches the traffic (longest prefix match).

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: No

PrefixListIds (p. 152)

The IDs of the prefix lists.

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: No

RouteTableIdentifier (p. 152)

The ID of the route table.

Type: RouteTableIdentifier (p. 327) object

Required: Yes

States (p. 152)

The route states.

Type: Array of strings

Valid Values: `ACTIVE | BLACKHOLE`

Required: No

SubnetOfMatches (p. 152)

The routes with a subnet that match the specified CIDR filter.

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: No

SupernetOfMatches (p. 152)

The routes with a CIDR that encompasses the CIDR filter. Example: If you specify 10.0.1.0/30, then the result returns 10.0.1.0/29.

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: No

Types (p. 152)

The route types.

Type: Array of strings

Valid Values: `PROPAGATED | STATIC`

Required: No

Response Syntax

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

{
   "CoreNetworkSegmentEdge": {
      "CoreNetworkId": "string",
      "EdgeLocation": "string",
      "SegmentName": "string"
   },
   "NetworkRoutes": [
      {
         "DestinationCidrBlock": "string",
         "Destinations": [
            {
               "CoreNetworkAttachmentId": "string",
               "EdgeLocation": "string",
               "ResourceId": "string",
               "ResourceType": "string",
               "SegmentName": "string",
               "TransitGatewayAttachmentId": "string"
            }
         ],
         "PrefixListId": "string",
         "State": "string",
         "Type": "string"
      }
   ],
   "RouteTableArn": "string",
   "RouteTableTimestamp": number,
   "RouteTableType": "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.

CoreNetworkSegmentEdge (p. 154)

Describes a core network segment edge.

Type: CoreNetworkSegmentEdgeIdentifier (p. 288) object

NetworkRoutes (p. 154)

The network routes.

Type: Array of NetworkRoute (p. 310) objects

RouteTableArn (p. 154)

The ARN of the route table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

RouteTableTimestamp (p. 154)

The route table creation time.

Type: Timestamp

RouteTableType (p. 154)

The route table type.

Type: String

Valid Values: `TRANSIT_GATEWAY_ROUTE_TABLE | CORE_NETWORK_SEGMENT`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetNetworkTelemetry

Gets the network telemetry of the specified global network.

Request Syntax

```
GET /global-networks/globalNetworkId/network-telemetry?
accountId=AccountId&awsRegion=AwsRegion&coreNetworkId=CoreNetworkId&maxResults=MaxResults&nextToken=Nex
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

AccountId (p. 157)

> The AWS account ID.
>
> Length Constraints: Fixed length of 12.
>
> Pattern: `[\s\S]*`

AwsRegion (p. 157)

> The AWS Region.
>
> Length Constraints: Minimum length of 1. Maximum length of 63.
>
> Pattern: `[\s\S]*`

CoreNetworkId (p. 157)

> The ID of a core network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^core-network-([0-9a-f]{8,17})$`

globalNetworkId (p. 157)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

MaxResults (p. 157)

> The maximum number of results to return.
>
> Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 157)

> The token for the next page of results.
>
> Length Constraints: Minimum length of 0. Maximum length of 2048.
>
> Pattern: `[\s\S]*`

RegisteredGatewayArn (p. 157)

> The ARN of the gateway.
>
> Length Constraints: Minimum length of 0. Maximum length of 1500.
>
> Pattern: `[\s\S]*`

ResourceArn (p. 157)

> The ARN of the resource.
>
> Length Constraints: Minimum length of 0. Maximum length of 1500.
>
> Pattern: `[\s\S]*`

ResourceType (p. 157)

> The resource type.
>
> The following are the supported resource types for AWS Direct Connect:
>
> - `dxcon`
> - `dx-gateway`
> - `dx-vif`
>
> The following are the supported resource types for Network Manager:
>
> - `connection`
> - `device`
> - `link`
> - `site`
>
> The following are the supported resource types for Amazon VPC:
>
> - `customer-gateway`
> - `transit-gateway`
> - `transit-gateway-attachment`
> - `transit-gateway-connect-peer`
> - `transit-gateway-route-table`
> - `vpn-connection`
>
> Length Constraints: Minimum length of 0. Maximum length of 256.
>
> Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "NetworkTelemetry": [
      {
```

```
        "AccountId": "string",
        "Address": "string",
        "AwsRegion": "string",
        "CoreNetworkId": "string",
        "Health": {
            "Status": "string",
            "Timestamp": number,
            "Type": "string"
        },
        "RegisteredGatewayArn": "string",
        "ResourceArn": "string",
        "ResourceId": "string",
        "ResourceType": "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.

NetworkTelemetry (p. 158)

    The network telemetry.

    Type: Array of NetworkTelemetry (p. 314) objects

NextToken (p. 158)

    The token for the next page of results.

    Type: String

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

    Pattern: `[\s\S]*`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

    You do not have sufficient access to perform this action.

    HTTP Status Code: 403

InternalServerException

    The request has failed due to an internal error.

    HTTP Status Code: 500

ResourceNotFoundException

    The specified resource could not be found.

    HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetResourcePolicy

Returns information about a resource policy.

Request Syntax

```
GET /resource-policy/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn (p. 161)

The ARN of the resource.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "PolicyDocument": "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.

PolicyDocument (p. 161)

The resource policy document.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetRouteAnalysis

Gets information about the specified route analysis.

Request Syntax

```
GET /global-networks/globalNetworkId/route-analyses/routeAnalysisId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 163)

>   The ID of the global network.

>   Length Constraints: Minimum length of 0. Maximum length of 50.

>   Pattern: `[\s\S]*`

>   Required: Yes

routeAnalysisId (p. 163)

>   The ID of the route analysis.

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

>   Pattern: `[\s\S]*`

>   Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "RouteAnalysis": {
        "Destination": {
            "IpAddress": "string",
            "TransitGatewayArn": "string",
            "TransitGatewayAttachmentArn": "string"
        },
        "ForwardPath": {
            "CompletionStatus": {
                "ReasonCode": "string",
                "ReasonContext": {
                    "string" : "string"
                },
                "ResultCode": "string"
            },
```

```
        "Path": [
            {
                "DestinationCidrBlock": "string",
                "Resource": {
                    "Definition": "string",
                    "IsMiddlebox": boolean,
                    "NameTag": "string",
                    "RegisteredGatewayArn": "string",
                    "ResourceArn": "string",
                    "ResourceType": "string"
                },
                "Sequence": number
            }
        ]
    },
    "GlobalNetworkId": "string",
    "IncludeReturnPath": boolean,
    "OwnerAccountId": "string",
    "ReturnPath": {
        "CompletionStatus": {
            "ReasonCode": "string",
            "ReasonContext": {
                "string" : "string"
            },
            "ResultCode": "string"
        },
        "Path": [
            {
                "DestinationCidrBlock": "string",
                "Resource": {
                    "Definition": "string",
                    "IsMiddlebox": boolean,
                    "NameTag": "string",
                    "RegisteredGatewayArn": "string",
                    "ResourceArn": "string",
                    "ResourceType": "string"
                },
                "Sequence": number
            }
        ]
    },
    "RouteAnalysisId": "string",
    "Source": {
        "IpAddress": "string",
        "TransitGatewayArn": "string",
        "TransitGatewayAttachmentArn": "string"
    },
    "StartTimestamp": number,
    "Status": "string",
    "UseMiddleboxes": boolean
    }
}
```

Response Elements

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

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

RouteAnalysis (p. 163)

The route analysis.

Type: RouteAnalysis (p. 320) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetSites

Gets information about one or more of your sites in a global network.

Request Syntax

```
GET /global-networks/globalNetworkId/sites?
maxResults=MaxResults&nextToken=NextToken&siteIds=SiteIds HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 166)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

MaxResults (p. 166)

> The maximum number of results to return.
>
> Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 166)

> The token for the next page of results.
>
> Length Constraints: Minimum length of 0. Maximum length of 2048.
>
> Pattern: `[\s\S]*`

SiteIds (p. 166)

> One or more site IDs. The maximum is 10.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "NextToken": "string",
   "Sites": [
      {
```

```
            "CreatedAt": number,
            "Description": "string",
            "GlobalNetworkId": "string",
            "Location": {
                "Address": "string",
                "Latitude": "string",
                "Longitude": "string"
            },
            "SiteArn": "string",
            "SiteId": "string",
            "State": "string",
            "Tags": [
                {
                    "Key": "string",
                    "Value": "string"
                }
            ]
        }
    ]
}
```

Response Elements

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

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

NextToken (p. 166)

> The token for the next page of results.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 2048.
>
> Pattern: `[\s\S]*`

Sites (p. 166)

> The sites.
>
> Type: Array of Site (p. 328) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.
>
> HTTP Status Code: 403

InternalServerException

> The request has failed due to an internal error.
>
> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetSiteToSiteVpnAttachment

Returns information about a site-to-site VPN attachment.

Request Syntax

```
GET /site-to-site-vpn-attachments/attachmentId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

attachmentId (p. 169)

> The ID of the attachment.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^attachment-([0-9a-f]{8,17})$`
>
> Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "SiteToSiteVpnAttachment": {
      "Attachment": {
         "AttachmentId": "string",
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "ResourceArn": "string",
         "SegmentName": "string",
         "State": "string",
         "Tags": [
```

```
            {
                "Key": "string",
                "Value": "string"
            }
        ],
        "UpdatedAt": number
    },
    "VpnConnectionArn": "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.

SiteToSiteVpnAttachment (p. 169)

> Describes the site-to-site attachment.

> Type: SiteToSiteVpnAttachment (p. 330) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.

> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.

> 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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetTransitGatewayConnectPeerAssociations

Gets information about one or more of your transit gateway Connect peer associations in a global network.

Request Syntax

```
GET /global-networks/globalNetworkId/transit-gateway-connect-peer-associations?
maxResults=MaxResults&nextToken=NextToken&transitGatewayConnectPeerArns=TransitGatewayConnectPeerArns
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 172)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

MaxResults (p. 172)

> The maximum number of results to return.
>
> Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 172)

> The token for the next page of results.
>
> Length Constraints: Minimum length of 0. Maximum length of 2048.
>
> Pattern: `[\s\S]*`

TransitGatewayConnectPeerArns (p. 172)

> One or more transit gateway Connect peer Amazon Resource Names (ARNs).
>
> Length Constraints: Minimum length of 0. Maximum length of 500.
>
> Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
```

```
    "NextToken": "string",
    "TransitGatewayConnectPeerAssociations": [
        {
            "DeviceId": "string",
            "GlobalNetworkId": "string",
            "LinkId": "string",
            "State": "string",
            "TransitGatewayConnectPeerArn": "string"
        }
    ]
}
```

Response Elements

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

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

NextToken (p. 172)

The token to use for the next page of results.

Type: String

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

Pattern: `[\s\S]*`

TransitGatewayConnectPeerAssociations (p. 172)

Information about the transit gateway Connect peer associations.

Type: Array of TransitGatewayConnectPeerAssociation (p. 332) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetTransitGatewayRegistrations

Gets information about the transit gateway registrations in a specified global network.

Request Syntax

```
GET /global-networks/globalNetworkId/transit-gateway-registrations?
maxResults=MaxResults&nextToken=NextToken&transitGatewayArns=TransitGatewayArns HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 175)

The ID of the global network. You can also use `$ALL` to return all transit gateway registrations. If multi-account is enabled, this returns all transit gateway registrations from all global networks in the AWS Organization that this account has access to.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

MaxResults (p. 175)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 175)

The token for the next page of results.

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

Pattern: `[\s\S]*`

TransitGatewayArns (p. 175)

The Amazon Resource Names (ARNs) of one or more transit gateways. The maximum is 10.

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
```

```
    "NextToken": "string",
    "TransitGatewayRegistrations": [
        {
            "GlobalNetworkId": "string",
            "State": {
                "Code": "string",
                "Message": "string"
            },
            "TransitGatewayArn": "string"
        }
    ]
}
```

Response Elements

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

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

NextToken (p. 175)

> The token for the next page of results.

> Type: String

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

> Pattern: `[\s\S]*`

TransitGatewayRegistrations (p. 175)

> The transit gateway registrations.

> Type: Array of TransitGatewayRegistration (p. 334) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.

> HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetVpcAttachment

Returns information about a VPC attachment.

Request Syntax

```
GET /vpc-attachments/attachmentId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

attachmentId (p. 178)

> The ID of the attachment.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^attachment-([0-9a-f]{8,17})$`
>
> Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "VpcAttachment": {
      "Attachment": {
         "AttachmentId": "string",
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "ResourceArn": "string",
         "SegmentName": "string",
         "State": "string",
         "Tags": [
            {
```

```
                "Key": "string",
                "Value": "string"
            }
        ],
        "UpdatedAt": number
    },
    "Options": {
        "Ipv6Support": boolean
    },
    "SubnetArns": [ "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.

VpcAttachment (p. 178)

> Returns details about a VPC attachment.
>
> Type: VpcAttachment (p. 337) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.
>
> HTTP Status Code: 403

InternalServerException

> The request has failed due to an internal error.
>
> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.
>
> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.
>
> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.
>
> 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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListAttachments

Returns a list of core network attachments.

Request Syntax

```
GET /attachments?
attachmentType=AttachmentType&coreNetworkId=CoreNetworkId&edgeLocation=EdgeLocation&maxResults=MaxResul
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

AttachmentType (p. 181)

    The type of attachment.

    Valid Values: `CONNECT | SITE_TO_SITE_VPN | VPC`

CoreNetworkId (p. 181)

    The ID of a core network.

    Length Constraints: Minimum length of 0. Maximum length of 50.

    Pattern: `^core-network-([0-9a-f]{8,17})$`

EdgeLocation (p. 181)

    The Region where the edge is located.

    Length Constraints: Minimum length of 1. Maximum length of 63.

    Pattern: `[\s\S]*`

MaxResults (p. 181)

    The maximum number of results to return.

    Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 181)

    The token for the next page of results.

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

    Pattern: `[\s\S]*`

State (p. 181)

    The state of the attachment.

    Valid Values: `REJECTED | PENDING_ATTACHMENT_ACCEPTANCE | CREATING | FAILED | AVAILABLE | UPDATING | PENDING_NETWORK_UPDATE | PENDING_TAG_ACCEPTANCE | DELETING`

Request Body

The request does not have a request body.

Response Syntax

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

{
    "Attachments": [
        {
            "AttachmentId": "string",
            "AttachmentPolicyRuleNumber": number,
            "AttachmentType": "string",
            "CoreNetworkArn": "string",
            "CoreNetworkId": "string",
            "CreatedAt": number,
            "EdgeLocation": "string",
            "OwnerAccountId": "string",
            "ProposedSegmentChange": {
                "AttachmentPolicyRuleNumber": number,
                "SegmentName": "string",
                "Tags": [
                    {
                        "Key": "string",
                        "Value": "string"
                    }
                ]
            },
            "ResourceArn": "string",
            "SegmentName": "string",
            "State": "string",
            "Tags": [
                {
                    "Key": "string",
                    "Value": "string"
                }
            ],
            "UpdatedAt": 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.

Attachments (p. 182)

Describes the list of attachments.

Type: Array of Attachment (p. 254) objects

NextToken (p. 182)

The token for the next page of results.

Type: String

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

Pattern: `[\s\S]*`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListConnectPeers

Returns a list of core network Connect peers.

Request Syntax

```
GET /connect-peers?
connectAttachmentId=ConnectAttachmentId&coreNetworkId=CoreNetworkId&maxResults=MaxResults&nextToken=Nex
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ConnectAttachmentId (p. 184)

The ID of the attachment.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

CoreNetworkId (p. 184)

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

MaxResults (p. 184)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 184)

The token for the next page of results.

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

Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "ConnectPeers": [
      {
         "ConnectAttachmentId": "string",
```

```
            "ConnectPeerId": "string",
            "ConnectPeerState": "string",
            "CoreNetworkId": "string",
            "CreatedAt": number,
            "EdgeLocation": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         }
      ],
      "NextToken": "string"
}
```

Response Elements

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

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

ConnectPeers (p. 184)

Describes the Connect peers.

Type: Array of ConnectPeerSummary (p. 273) objects

NextToken (p. 184)

The token for the next page of results.

Type: String

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

Pattern: `[\s\S]*`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListCoreNetworkPolicyVersions

Returns a list of core network policy versions.

Request Syntax

```
GET /core-networks/coreNetworkId/core-network-policy-versions?
maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

coreNetworkId (p. 187)

> The ID of a core network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^core-network-([0-9a-f]{8,17})$`
>
> Required: Yes

MaxResults (p. 187)

> The maximum number of results to return.
>
> Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 187)

> The token for the next page of results.
>
> Length Constraints: Minimum length of 0. Maximum length of 2048.
>
> Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "CoreNetworkPolicyVersions": [
      {
         "Alias": "string",
         "ChangeSetState": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "Description": "string",
         "PolicyVersionId": 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.

CoreNetworkPolicyVersions (p. 187)

> Describes core network policy versions.

> Type: Array of CoreNetworkPolicyVersion (p. 285) objects

NextToken (p. 187)

> The token for the next page of results.

> Type: String

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

> Pattern: `[\s\S]*`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.

> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.

> 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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListCoreNetworks

Returns a list of owned and shared core networks.

Request Syntax

```
GET /core-networks?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults (p. 190)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 190)

The token for the next page of results.

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

Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
    "CoreNetworks": [
        {
            "CoreNetworkArn": "string",
            "CoreNetworkId": "string",
            "Description": "string",
            "GlobalNetworkId": "string",
            "OwnerAccountId": "string",
            "State": "string",
            "Tags": [
                {
                    "Key": "string",
                    "Value": "string"
                }
            ]
        }
    ],
    "NextToken": "string"
}
```

Response Elements

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

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

CoreNetworks (p. 190)

> Describes the list of core networks.

> Type: Array of CoreNetworkSummary (p. 289) objects

NextToken (p. 190)

> The token for the next page of results.

> Type: String

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

> Pattern: [\s\S]*

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ThrottlingException

> The request was denied due to request throttling.

> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.

> 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
- AWS SDK for Java V2

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

ListOrganizationServiceAccessStatus

Gets the status of the Service Linked Role (SLR) deployment for the accounts in a given Amazon Web Services Organization.

Request Syntax

```
GET /organizations/service-access?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults (p. 193)

> The maximum number of results to return.
>
> Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 193)

> The token for the next page of results.
>
> Length Constraints: Minimum length of 0. Maximum length of 2048.
>
> Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "NextToken": "string",
   "OrganizationStatus": {
      "AccountStatusList": [
         {
            "AccountId": "string",
            "SLRDeploymentStatus": "string"
         }
      ],
      "OrganizationAwsServiceAccessStatus": "string",
      "OrganizationId": "string",
      "SLRDeploymentStatus": "string"
   }
}
```

Response Elements

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

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

NextToken (p. 193)

> The token for the next page of results.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 2048.
>
> Pattern: `[\s\S]*`

OrganizationStatus (p. 193)

> Displays the status of an Amazon Web Services Organization.
>
> Type: OrganizationStatus (p. 316) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTagsForResource

Lists the tags for a specified resource.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn (p. 195)

>   The Amazon Resource Name (ARN) of the resource.
>
>   Length Constraints: Minimum length of 0. Maximum length of 1500.
>
>   Pattern: `[\s\S]*`
>
>   Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "TagList": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

Response Elements

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

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

TagList (p. 195)

>   The list of tags.
>
>   Type: Array of Tag (p. 331) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutCoreNetworkPolicy

Creates a new, immutable version of a core network policy. A subsequent change set is created showing the differences between the LIVE policy and the submitted policy.

Request Syntax

```
POST /core-networks/coreNetworkId/core-network-policy HTTP/1.1
Content-type: application/json

{
   "ClientToken": "string",
   "Description": "string",
   "LatestVersionId": number,
   "PolicyDocument": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

coreNetworkId (p. 197)

> The ID of a core network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^core-network-([0-9a-f]{8,17})$`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

ClientToken (p. 197)

> The client token associated with the request.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 256.
>
> Pattern: `[\s\S]*`
>
> Required: No

Description (p. 197)

> a core network policy description.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 256.
>
> Pattern: `[\s\S]*`
>
> Required: No

LatestVersionId (p. 197)

> The ID of a core network policy.
>
> Type: Integer
>
> Required: No

PolicyDocument (p. 197)

> The policy document.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 10000000.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Response Syntax

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

{
   "CoreNetworkPolicy": {
      "Alias": "string",
      "ChangeSetState": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "Description": "string",
      "PolicyDocument": "string",
      "PolicyErrors": [
         {
            "ErrorCode": "string",
            "Message": "string",
            "Path": "string"
         }
      ],
      "PolicyVersionId": 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.

CoreNetworkPolicy (p. 198)

> Describes the changed core network policy.
>
> Type: CoreNetworkPolicy (p. 282) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

CoreNetworkPolicyException

Describes a core network policy exception.

HTTP Status Code: 400

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutResourcePolicy

Creates or updates a resource policy.

Request Syntax

```
POST /resource-policy/resourceArn HTTP/1.1
Content-type: application/json

{
    "PolicyDocument": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn (p. 200)

> The ARN of the resource policy.
>
> Length Constraints: Minimum length of 0. Maximum length of 1500.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

PolicyDocument (p. 200)

> The JSON resource policy document.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 10000000.
>
> Pattern: `[\s\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 (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ServiceQuotaExceededException

A service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

RegisterTransitGateway

Registers a transit gateway in your global network. The transit gateway can be in any AWS Region, but it must be owned by the same AWS account that owns the global network. You cannot register a transit gateway in more than one global network.

Request Syntax

```
POST /global-networks/globalNetworkId/transit-gateway-registrations HTTP/1.1
Content-type: application/json

{
    "TransitGatewayArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 202)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: [\s\S]*
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

TransitGatewayArn (p. 202)

> The Amazon Resource Name (ARN) of the transit gateway.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 500.
>
> Pattern: [\s\S]*
>
> Required: Yes

Response Syntax

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

{
    "TransitGatewayRegistration": {
        "GlobalNetworkId": "string",
        "State": {
            "Code": "string",
```

```
        "Message": "string"
      },
      "TransitGatewayArn": "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.

TransitGatewayRegistration (p. 202)

> Information about the transit gateway registration.

> Type: TransitGatewayRegistration (p. 334) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.

> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.

> 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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

RejectAttachment

Rejects a core network attachment request.

Request Syntax

```
POST /attachments/attachmentId/reject HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

attachmentId (p. 205)

The ID of the attachment.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: ^attachment-([0-9a-f]{8,17})$

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Attachment": {
      "AttachmentId": "string",
      "AttachmentPolicyRuleNumber": number,
      "AttachmentType": "string",
      "CoreNetworkArn": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "EdgeLocation": "string",
      "OwnerAccountId": "string",
      "ProposedSegmentChange": {
         "AttachmentPolicyRuleNumber": number,
         "SegmentName": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ]
      },
      "ResourceArn": "string",
      "SegmentName": "string",
      "State": "string",
      "Tags": [
```

```
        {
            "Key": "string",
            "Value": "string"
        }
    ],
    "UpdatedAt": 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.

Attachment (p. 205)

> Describes the rejected attachment request.

> Type: Attachment (p. 254) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.

> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.

> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.

> 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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

RestoreCoreNetworkPolicyVersion

Restores a previous policy version as a new, immutable version of a core network policy. A subsequent change set is created showing the differences between the LIVE policy and restored policy.

Request Syntax

```
POST /core-networks/coreNetworkId/core-network-policy-versions/policyVersionId/restore HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

coreNetworkId (p. 208)

> The ID of a core network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^core-network-([0-9a-f]{8,17})$`
>
> Required: Yes

policyVersionId (p. 208)

> The ID of the policy version to restore.
>
> Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "CoreNetworkPolicy": {
      "Alias": "string",
      "ChangeSetState": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "Description": "string",
      "PolicyDocument": "string",
      "PolicyErrors": [
         {
            "ErrorCode": "string",
            "Message": "string",
            "Path": "string"
         }
      ],
      "PolicyVersionId": 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.

CoreNetworkPolicy (p. 208)

Describes the restored core network policy.

Type: CoreNetworkPolicy (p. 282) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartOrganizationServiceAccessUpdate

Enables for the Network Manager service for an Amazon Web Services Organization. This can only be called by a management account within the organization.

Request Syntax

```
POST /organizations/service-access HTTP/1.1
Content-type: application/json

{
    "Action": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Action (p. 211)

The action to take for the update request. This can be either `ENABLE` or `DISABLE`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Required: Yes

Response Syntax

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

{
    "OrganizationStatus": {
        "AccountStatusList": [
            {
                "AccountId": "string",
                "SLRDeploymentStatus": "string"
            }
        ],
        "OrganizationAwsServiceAccessStatus": "string",
        "OrganizationId": "string",
        "SLRDeploymentStatus": "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.

OrganizationStatus (p. 211)

> The status of the service access update request for an Amazon Web Services Organization.

> Type: OrganizationStatus (p. 316) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.

> HTTP Status Code: 500

ServiceQuotaExceededException

> A service limit was exceeded.

> HTTP Status Code: 402

ThrottlingException

> The request was denied due to request throttling.

> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.

> 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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

StartRouteAnalysis

Starts analyzing the routing path between the specified source and destination. For more information, see Route Analyzer.

Request Syntax

```
POST /global-networks/globalNetworkId/route-analyses HTTP/1.1
Content-type: application/json

{
    "Destination": {
        "IpAddress": "string",
        "TransitGatewayAttachmentArn": "string"
    },
    "IncludeReturnPath": boolean,
    "Source": {
        "IpAddress": "string",
        "TransitGatewayAttachmentArn": "string"
    },
    "UseMiddleboxes": boolean
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 214)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

Destination (p. 214)

> The destination.
>
> Type: RouteAnalysisEndpointOptionsSpecification (p. 325) object
>
> Required: Yes

IncludeReturnPath (p. 214)

> Indicates whether to analyze the return path. The default is `false`.
>
> Type: Boolean
>
> Required: No

The source from which traffic originates.

Type: RouteAnalysisEndpointOptionsSpecification (p. 325) object

Required: Yes

Indicates whether to include the location of middlebox appliances in the route analysis. The default is `false`.

Type: Boolean

Required: No

Response Syntax

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

{
   "RouteAnalysis": {
      "Destination": {
         "IpAddress": "string",
         "TransitGatewayArn": "string",
         "TransitGatewayAttachmentArn": "string"
      },
      "ForwardPath": {
         "CompletionStatus": {
            "ReasonCode": "string",
            "ReasonContext": {
               "string" : "string"
            },
            "ResultCode": "string"
         },
         "Path": [
            {
               "DestinationCidrBlock": "string",
               "Resource": {
                  "Definition": "string",
                  "IsMiddlebox": boolean,
                  "NameTag": "string",
                  "RegisteredGatewayArn": "string",
                  "ResourceArn": "string",
                  "ResourceType": "string"
               },
               "Sequence": number
            }
         ]
      },
      "GlobalNetworkId": "string",
      "IncludeReturnPath": boolean,
      "OwnerAccountId": "string",
      "ReturnPath": {
         "CompletionStatus": {
            "ReasonCode": "string",
            "ReasonContext": {
               "string" : "string"
            },
            "ResultCode": "string"
         },
```

```
            "Path": [
                {
                    "DestinationCidrBlock": "string",
                    "Resource": {
                        "Definition": "string",
                        "IsMiddlebox": boolean,
                        "NameTag": "string",
                        "RegisteredGatewayArn": "string",
                        "ResourceArn": "string",
                        "ResourceType": "string"
                    },
                    "Sequence": number
                }
            ]
        },
        "RouteAnalysisId": "string",
        "Source": {
            "IpAddress": "string",
            "TransitGatewayArn": "string",
            "TransitGatewayAttachmentArn": "string"
        },
        "StartTimestamp": number,
        "Status": "string",
        "UseMiddleboxes": boolean
    }
}
```

Response Elements

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

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

RouteAnalysis (p. 215)

The route analysis.

Type: RouteAnalysis (p. 320) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

TagResource

Tags a specified resource.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

{
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn (p. 218)

> The Amazon Resource Name (ARN) of the resource.
>
> Length Constraints: Minimum length of 0. Maximum length of 1500.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

Tags (p. 218)

> The tags to apply to the specified resource.
>
> Type: Array of Tag (p. 331) objects
>
> 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 (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UntagResource

Removes tags from a specified resource.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=TagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn (p. 221)

>   The Amazon Resource Name (ARN) of the resource.
>
>   Length Constraints: Minimum length of 0. Maximum length of 1500.
>
>   Pattern: `[\s\S]*`
>
>   Required: Yes

TagKeys (p. 221)

>   The tag keys to remove from the specified resource.
>
>   Length Constraints: Minimum length of 0. Maximum length of 10000000.
>
>   Pattern: `[\s\S]*`
>
>   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 (p. 341).

AccessDeniedException

>   You do not have sufficient access to perform this action.
>
>   HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateConnection

Updates the information for an existing connection. To remove information for any of the parameters, specify an empty string.

Request Syntax

```
PATCH /global-networks/globalNetworkId/connections/connectionId HTTP/1.1
Content-type: application/json

{
   "ConnectedLinkId": "string",
   "Description": "string",
   "LinkId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

connectionId (p. 223)

> The ID of the connection.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

globalNetworkId (p. 223)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

ConnectedLinkId (p. 223)

> The ID of the link for the second device in the connection.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: No

Description (p. 223)

> A description of the connection.

Length Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

LinkId (p. 223)

The ID of the link for the first device in the connection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

Response Syntax

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

{
    "Connection": {
        "ConnectedDeviceId": "string",
        "ConnectedLinkId": "string",
        "ConnectionArn": "string",
        "ConnectionId": "string",
        "CreatedAt": number,
        "Description": "string",
        "DeviceId": "string",
        "GlobalNetworkId": "string",
        "LinkId": "string",
        "State": "string",
        "Tags": [
            {
                "Key": "string",
                "Value": "string"
            }
        ]
    }
}
```

Response Elements

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

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

Connection (p. 224)

Information about the connection.

Type: Connection (p. 262) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateCoreNetwork

Updates the description of a core network.

Request Syntax

```
PATCH /core-networks/coreNetworkId HTTP/1.1
Content-type: application/json

{
    "Description": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

coreNetworkId (p. 226)

> The ID of a core network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^core-network-([0-9a-f]{8,17})$`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 226)

> The description of the update.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 256.
>
> Pattern: `[\s\S]*`
>
> Required: No

Response Syntax

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

{
    "CoreNetwork": {
        "CoreNetworkArn": "string",
        "CoreNetworkId": "string",
        "CreatedAt": number,
        "Description": "string",
        "Edges": [
```

```
        {
            "Asn": number,
            "EdgeLocation": "string",
            "InsideCidrBlocks": [ "string" ]
        }
    ],
    "GlobalNetworkId": "string",
    "Segments": [
        {
            "EdgeLocations": [ "string" ],
            "Name": "string",
            "SharedSegments": [ "string" ]
        }
    ],
    "State": "string",
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ]
  }
}
```

Response Elements

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

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

CoreNetwork (p. 226)

Returns information about a core network update.

Type: CoreNetwork (p. 275) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateDevice

Updates the details for an existing device. To remove information for any of the parameters, specify an empty string.

Request Syntax

```
PATCH /global-networks/globalNetworkId/devices/deviceId HTTP/1.1
Content-type: application/json

{
    "AWSLocation": {
        "SubnetArn": "string",
        "Zone": "string"
    },
    "Description": "string",
    "Location": {
        "Address": "string",
        "Latitude": "string",
        "Longitude": "string"
    },
    "Model": "string",
    "SerialNumber": "string",
    "SiteId": "string",
    "Type": "string",
    "Vendor": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

deviceId (p. 229)

> The ID of the device.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

globalNetworkId (p. 229)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

AWSLocation (p. 229)

> The AWS location of the device, if applicable. For an on-premises device, you can omit this parameter.

Type: AWSLocation (p. 257) object

Required: No

Description (p. 229)

A description of the device.

Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: [\s\S]*

Required: No

Location (p. 229)

Describes a location.

Type: Location (p. 303) object

Required: No

Model (p. 229)

The model of the device.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: [\s\S]*

Required: No

SerialNumber (p. 229)

The serial number of the device.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: [\s\S]*

Required: No

SiteId (p. 229)

The ID of the site.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

Required: No

Type (p. 229)

The type of the device.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Vendor (p. 229)

The vendor of the device.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Response Syntax

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

{
   "Device": {
      "AWSLocation": {
         "SubnetArn": "string",
         "Zone": "string"
      },
      "CreatedAt": number,
      "Description": "string",
      "DeviceArn": "string",
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "Location": {
         "Address": "string",
         "Latitude": "string",
         "Longitude": "string"
      },
      "Model": "string",
      "SerialNumber": "string",
      "SiteId": "string",
      "State": "string",
      "Tags": [
         {
            "Key": "string",
            "Value": "string"
         }
      ],
      "Type": "string",
      "Vendor": "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.

Device (p. 231)

> Information about the device.
>
> Type: Device (p. 293) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

> You do not have sufficient access to perform this action.
>
> HTTP Status Code: 403

ConflictException

> There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.
>
> HTTP Status Code: 409

InternalServerException

> The request has failed due to an internal error.
>
> HTTP Status Code: 500

ResourceNotFoundException

> The specified resource could not be found.
>
> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.
>
> HTTP Status Code: 429

ValidationException

> The input fails to satisfy the constraints.
>
> 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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateGlobalNetwork

Updates an existing global network. To remove information for any of the parameters, specify an empty string.

Request Syntax

```
PATCH /global-networks/globalNetworkId HTTP/1.1
Content-type: application/json

{
    "Description": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 234)

> The ID of your global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 234)

> A description of the global network.
>
> Constraints: Maximum length of 256 characters.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 256.
>
> Pattern: `[\s\S]*`
>
> Required: No

Response Syntax

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

{
    "GlobalNetwork": {
        "CreatedAt": number,
```

```
      "Description": "string",
      "GlobalNetworkArn": "string",
      "GlobalNetworkId": "string",
      "State": "string",
      "Tags": [
         {
            "Key": "string",
            "Value": "string"
         }
      ]
   }
}
```

Response Elements

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

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

GlobalNetwork (p. 234)

Information about the global network object.

Type: GlobalNetwork (p. 296) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateLink

Updates the details for an existing link. To remove information for any of the parameters, specify an empty string.

Request Syntax

```
PATCH /global-networks/globalNetworkId/links/linkId HTTP/1.1
Content-type: application/json

{
    "Bandwidth": {
        "DownloadSpeed": number,
        "UploadSpeed": number
    },
    "Description": "string",
    "Provider": "string",
    "Type": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 237)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

linkId (p. 237)

> The ID of the link.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

Bandwidth (p. 237)

> The upload and download speed in Mbps.
>
> Type: Bandwidth (p. 258) object
>
> Required: No

Description (p. 237)

> A description of the link.

Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Provider (p. 237)

The provider of the link.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Type (p. 237)

The type of the link.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Response Syntax

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

{
   "Link": {
      "Bandwidth": {
         "DownloadSpeed": number,
         "UploadSpeed": number
      },
      "CreatedAt": number,
      "Description": "string",
      "GlobalNetworkId": "string",
      "LinkArn": "string",
      "LinkId": "string",
      "Provider": "string",
      "SiteId": "string",
      "State": "string",
      "Tags": [
         {
            "Key": "string",
            "Value": "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.

Link (p. 238)

>   Information about the link.

>   Type: Link (p. 298) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

>   You do not have sufficient access to perform this action.

>   HTTP Status Code: 403

ConflictException

>   There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

>   HTTP Status Code: 409

InternalServerException

>   The request has failed due to an internal error.

>   HTTP Status Code: 500

ResourceNotFoundException

>   The specified resource could not be found.

>   HTTP Status Code: 404

ServiceQuotaExceededException

>   A service limit was exceeded.

>   HTTP Status Code: 402

ThrottlingException

>   The request was denied due to request throttling.

>   HTTP Status Code: 429

ValidationException

>   The input fails to satisfy the constraints.

>   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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateNetworkResourceMetadata

Updates the resource metadata for the specified global network.

Request Syntax

```
PATCH /global-networks/globalNetworkId/network-resources/resourceArn/metadata HTTP/1.1
Content-type: application/json

{
    "Metadata": {
        "string" : "string"
    }
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 241)

>   The ID of the global network.

>   Length Constraints: Minimum length of 0. Maximum length of 50.

>   Pattern: `[\s\S]*`

>   Required: Yes

resourceArn (p. 241)

>   The ARN of the resource.

>   Length Constraints: Minimum length of 0. Maximum length of 1500.

>   Pattern: `[\s\S]*`

>   Required: Yes

Request Body

The request accepts the following data in JSON format.

Metadata (p. 241)

>   The resource metadata.

>   Type: String to string map

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

>   Key Pattern: `[\s\S]*`

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

>   Value Pattern: `[\s\S]*`

Required: Yes

Response Syntax

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

{
    "Metadata": {
        "string" : "string"
    },
    "ResourceArn": "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.

Metadata (p. 242)

The updated resource metadata.

Type: String to string map

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

Key Pattern: `[\s\S]*`

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

Value Pattern: `[\s\S]*`

ResourceArn (p. 242)

The ARN of the resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateSite

Updates the information for an existing site. To remove information for any of the parameters, specify an empty string.

Request Syntax

```
PATCH /global-networks/globalNetworkId/sites/siteId HTTP/1.1
Content-type: application/json

{
    "Description": "string",
    "Location": {
        "Address": "string",
        "Latitude": "string",
        "Longitude": "string"
    }
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 244)

> The ID of the global network.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

siteId (p. 244)

> The ID of your site.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 244)

> A description of your site.
>
> Constraints: Maximum length of 256 characters.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[\s\S]*`

Required: No

Location (p. 244)

The site location:
- `Address`: The physical address of the site.
- `Latitude`: The latitude of the site.
- `Longitude`: The longitude of the site.

Type: Location (p. 303) object

Required: No

Response Syntax

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

{
   "Site": {
      "CreatedAt": number,
      "Description": "string",
      "GlobalNetworkId": "string",
      "Location": {
         "Address": "string",
         "Latitude": "string",
         "Longitude": "string"
      },
      "SiteArn": "string",
      "SiteId": "string",
      "State": "string",
      "Tags": [
         {
            "Key": "string",
            "Value": "string"
         }
      ]
   }
}
```

Response Elements

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

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

Site (p. 245)

Information about the site.

Type: Site (p. 328) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateVpcAttachment

Updates a VPC attachment.

Request Syntax

```
PATCH /vpc-attachments/attachmentId HTTP/1.1
Content-type: application/json

{
   "AddSubnetArns": [ "string" ],
   "Options": {
      "Ipv6Support": boolean
   },
   "RemoveSubnetArns": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

attachmentId (p. 247)

> The ID of the attachment.
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `^attachment-([0-9a-f]{8,17})$`
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

AddSubnetArns (p. 247)

> Adds a subnet ARN to the VPC attachment.
>
> Type: Array of strings
>
> Length Constraints: Minimum length of 0. Maximum length of 500.
>
> Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:subnet\/subnet-[0-9a-f]{8,17}$|^$`
>
> Required: No

Options (p. 247)

> Additional options for updating the VPC attachment.
>
> Type: VpcOptions (p. 338) object
>
> Required: No

RemoveSubnetArns (p. 247)

Removes a subnet ARN from the attachment.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:subnet\/subnet-[0-9a-f]{8,17}$|^$`

Required: No

Response Syntax

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

{
   "VpcAttachment": {
      "Attachment": {
         "AttachmentId": "string",
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "ResourceArn": "string",
         "SegmentName": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ],
         "UpdatedAt": number
      },
      "Options": {
         "Ipv6Support": boolean
      },
      "SubnetArns": [ "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.

VpcAttachment (p. 248)

Describes the updated VPC attachment.

Type: VpcAttachment (p. 337) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 341).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

Data Types

The AWS Network Manager 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:

- [NetworkTelemetry (p. 314)](#)
- [OrganizationStatus (p. 316)](#)
- [PathComponent (p. 317)](#)
- [ProposedSegmentChange (p. 318)](#)
- [Relationship (p. 319)](#)
- [RouteAnalysis (p. 320)](#)
- [RouteAnalysisCompletion (p. 322)](#)
- [RouteAnalysisEndpointOptions (p. 324)](#)
- [RouteAnalysisEndpointOptionsSpecification (p. 325)](#)
- [RouteAnalysisPath (p. 326)](#)
- [RouteTableIdentifier (p. 327)](#)
- [Site (p. 328)](#)
- [SiteToSiteVpnAttachment (p. 330)](#)
- [Tag (p. 331)](#)
- [TransitGatewayConnectPeerAssociation (p. 332)](#)
- [TransitGatewayRegistration (p. 334)](#)
- [TransitGatewayRegistrationStateReason (p. 335)](#)
- [ValidationExceptionField (p. 336)](#)
- [VpcAttachment (p. 337)](#)
- [VpcOptions (p. 338)](#)

AccountStatus

Describes the current status of an account within an Amazon Web Services Organization, including service-linked roles (SLRs).

Contents

AccountId

The ID of an account within the Amazon Web Services Organization.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Required: No

SLRDeploymentStatus

The status of SLR deployment for the account.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Attachment

Describes a core network attachment.

Contents

AttachmentId

The ID of the attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: No

AttachmentPolicyRuleNumber

The policy rule number associated with the attachment.

Type: Integer

Required: No

AttachmentType

The type of attachment.

Type: String

Valid Values: `CONNECT | SITE_TO_SITE_VPN | VPC`

Required: No

CoreNetworkArn

The ARN of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

CoreNetworkId

A core network ID.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

CreatedAt

The timestamp when the attachment was created.

Type: Timestamp

Required: No

EdgeLocation

The Region where the edge is located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: [\s\S]*

Required: No

OwnerAccountId

The ID of the attachment account owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [\s\S]*

Required: No

ProposedSegmentChange

The attachment to move from one segment to another.

Type: ProposedSegmentChange (p. 318) object

Required: No

ResourceArn

The attachment resource ARN.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: [\s\S]*

Required: No

SegmentName

The name of the segment attachment.

Type: String

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

Pattern: [\s\S]*

Required: No

State

The state of the attachment.

Type: String

Valid Values: `REJECTED | PENDING_ATTACHMENT_ACCEPTANCE | CREATING | FAILED | AVAILABLE | UPDATING | PENDING_NETWORK_UPDATE | PENDING_TAG_ACCEPTANCE | DELETING`

Required: No

Tags

The tags associated with the attachment.

Type: Array of Tag (p. 331) objects

Required: No

UpdatedAt

The timestamp when the attachment was last updated.

Type: Timestamp

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AWSLocation

Specifies a location in AWS.

Contents

SubnetArn

The Amazon Resource Name (ARN) of the subnet that the device is located in.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:subnet\/subnet-[0-9a-f]{8,17}$|^$`

Required: No

Zone

The Zone that the device is located in. Specify the ID of an Availability Zone, Local Zone, Wavelength Zone, or an Outpost.

Type: String

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

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Bandwidth

Describes bandwidth information.

Contents

DownloadSpeed

Download speed in Mbps.

Type: Integer

Required: No

UploadSpeed

Upload speed in Mbps.

Type: Integer

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BgpOptions

Describes the BGP options.

Contents

PeerAsn

The Peer ASN of the BGP.

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectAttachment

Describes a core network Connect attachment.

Contents

Attachment

The attachment details.

Type: Attachment (p. 254) object

Required: No

Options

Options for connecting an attachment.

Type: ConnectAttachmentOptions (p. 261) object

Required: No

TransportAttachmentId

The ID of the transport attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectAttachmentOptions

Describes a core network Connect attachment options.

Contents

Protocol

The protocol used for the attachment connection.

Type: String

Valid Values: `GRE`

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

Connection

Describes a connection.

Contents

ConnectedDeviceId

The ID of the second device in the connection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

ConnectedLinkId

The ID of the link for the second device in the connection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

ConnectionArn

The Amazon Resource Name (ARN) of the connection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

ConnectionId

The ID of the connection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

CreatedAt

The date and time that the connection was created.

Type: Timestamp

Required: No

Description

> The description of the connection.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 256.
>
> Pattern: `[\s\S]*`
>
> Required: No

DeviceId

> The ID of the first device in the connection.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: No

GlobalNetworkId

> The ID of the global network.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: No

LinkId

> The ID of the link for the first device in the connection.
>
> Type: String
>
> Length Constraints: Minimum length of 0. Maximum length of 50.
>
> Pattern: `[\s\S]*`
>
> Required: No

State

> The state of the connection.
>
> Type: String
>
> Valid Values: `PENDING | AVAILABLE | DELETING | UPDATING`
>
> Required: No

Tags

> The tags for the connection.
>
> Type: Array of Tag (p. 331) objects
>
> Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectionHealth

Describes connection health.

Contents

Status

The connection status.

Type: String

Valid Values: `UP | DOWN`

Required: No

Timestamp

The time the status was last updated.

Type: Timestamp

Required: No

Type

The connection type.

Type: String

Valid Values: `BGP | IPSEC`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectPeer

Describes a core network Connect peer.

Contents

Configuration

The configuration of the Connect peer.

Type: ConnectPeerConfiguration (p. 271) object

Required: No

ConnectAttachmentId

The ID of the attachment to connect.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: No

ConnectPeerId

The ID of the Connect peer.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^connect-peer-([0-9a-f]{8,17})$`

Required: No

CoreNetworkId

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

CreatedAt

The timestamp when the Connect peer was created.

Type: Timestamp

Required: No

EdgeLocation

The Connect peer Regions where edges are located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

State

The state of the Connect peer.

Type: String

Valid Values: `CREATING | FAILED | AVAILABLE | DELETING`

Required: No

Tags

The tags associated with the Connect peer.

Type: Array of Tag (p. 331) objects

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectPeerAssociation

Describes a core network Connect peer association.

Contents

ConnectPeerId

The ID of the Connect peer.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^connect-peer-([0-9a-f]{8,17})$`

Required: No

DeviceId

The ID of the device to connect to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

LinkId

The ID of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

State

The state of the Connect peer association.

Type: String

Valid Values: `PENDING | AVAILABLE | DELETING | DELETED`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectPeerBgpConfiguration

Describes a core network BGP configuration.

Contents

CoreNetworkAddress

The address of a core network.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

CoreNetworkAsn

The ASN of the Coret Network.

Type: Long

Required: No

PeerAddress

The address of a core network Connect peer.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

PeerAsn

The ASN of the Connect peer.

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectPeerConfiguration

Describes a core network Connect peer configuration.

Contents

BgpConfigurations

The Connect peer BGP configurations.

Type: Array of ConnectPeerBgpConfiguration (p. 270) objects

Required: No

CoreNetworkAddress

The IP address of a core network.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

InsideCidrBlocks

The inside IP addresses used for a Connect peer configuration.

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: No

PeerAddress

The IP address of the Connect peer.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

Protocol

The protocol used for a Connect peer configuration.

Type: String

Valid Values: `GRE`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ConnectPeerSummary

Summary description of a Connect peer.

Contents

ConnectAttachmentId

The ID of a Connect peer attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: No

ConnectPeerId

The ID of a Connect peer.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^connect-peer-([0-9a-f]{8,17})$`

Required: No

ConnectPeerState

The state of a Connect peer.

Type: String

Valid Values: `CREATING | FAILED | AVAILABLE | DELETING`

Required: No

CoreNetworkId

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

CreatedAt

The timestamp when a Connect peer was created.

Type: Timestamp

Required: No

EdgeLocation

The Region where the edge is located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

Tags

The tags associated with a Connect peer summary.

Type: Array of Tag (p. 331) objects

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CoreNetwork

Describes a core network.

Contents

CoreNetworkArn

The ARN of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

CoreNetworkId

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

CreatedAt

The timestamp when a core network was created.

Type: Timestamp

Required: No

Description

The description of a core network.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Edges

The edges within a core network.

Type: Array of CoreNetworkEdge (p. 281) objects

Required: No

GlobalNetworkId

The ID of the global network that your core network is a part of.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

Segments

The segments within a core network.

Type: Array of CoreNetworkSegment (p. 287) objects

Required: No

State

The current state of a core network.

Type: String

Valid Values: `CREATING | UPDATING | AVAILABLE | DELETING`

Required: No

Tags

The tags associated with a core network.

Type: Array of Tag (p. 331) objects

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CoreNetworkChange

Details describing a core network change.

Contents

Action

The action to take for a core network.

Type: String

Valid Values: `ADD | MODIFY | REMOVE`

Required: No

Identifier

The resource identifier.

Type: String

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

Pattern: `[\s\S]*`

Required: No

NewValues

The new value for a core network

Type: CoreNetworkChangeValues (p. 279) object

Required: No

PreviousValues

The previous values for a core network.

Type: CoreNetworkChangeValues (p. 279) object

Required: No

Type

The type of change.

Type: String

Valid Values: `CORE_NETWORK_SEGMENT | CORE_NETWORK_EDGE | ATTACHMENT_MAPPING | ATTACHMENT_ROUTE_PROPAGATION | ATTACHMENT_ROUTE_STATIC`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CoreNetworkChangeValues

Describes a core network change.

Contents

Asn

The ASN of a core network.

Type: Long

Required: No

Cidr

The IP addresses used for a core network.

Type: String

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

Pattern: [\s\S]*

Required: No

DestinationIdentifier

The ID of the destination.

Type: String

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

Pattern: [\s\S]*

Required: No

EdgeLocations

The Regions where edges are located in a core network.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: [\s\S]*

Required: No

InsideCidrBlocks

The inside IP addresses used for core network change values.

Type: Array of strings

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

Pattern: [\s\S]*

Required: No

SegmentName

The names of the segments in a core network.

Type: String

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

Pattern: [\s\S]*

Required: No

SharedSegments

The shared segments for a core network change value.

Type: Array of strings

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

Pattern: [\s\S]*

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CoreNetworkEdge

Describes a core network edge.

Contents

Asn

The ASN of a core network edge.

Type: Long

Required: No

EdgeLocation

The Region where a core network edge is located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

InsideCidrBlocks

The inside IP addresses used for core network edges.

Type: Array of strings

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

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CoreNetworkPolicy

Describes a core network policy. You can have only one LIVE Core Policy.

Contents

Alias

Whether a core network policy is the current LIVE policy or the most recently submitted policy.

Type: String

Valid Values: `LIVE | LATEST`

Required: No

ChangeSetState

The state of a core network policy.

Type: String

Valid Values: `PENDING_GENERATION | FAILED_GENERATION | READY_TO_EXECUTE | EXECUTING | EXECUTION_SUCCEEDED | OUT_OF_DATE`

Required: No

CoreNetworkId

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

CreatedAt

The timestamp when a core network policy was created.

Type: Timestamp

Required: No

Description

The description of a core network policy.

Type: String

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

Pattern: `[\s\S]*`

Required: No

PolicyDocument

Describes a core network policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Required: No

PolicyErrors

Describes any errors in a core network policy.

Type: Array of CoreNetworkPolicyError (p. 284) objects

Required: No

PolicyVersionId

The ID of the policy version.

Type: Integer

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CoreNetworkPolicyError

Provides details about an error in a core network policy.

Contents

ErrorCode

The error code associated with a core network policy error.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: [\s\S]*

Required: Yes

Message

The message associated with a core network policy error code.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: [\s\S]*

Required: Yes

Path

The JSON path where the error was discovered in the policy document.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: [\s\S]*

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CoreNetworkPolicyVersion

Describes a core network policy version.

Contents

Alias

Whether a core network policy is the current policy or the most recently submitted policy.

Type: String

Valid Values: `LIVE | LATEST`

Required: No

ChangeSetState

The status of the policy version change set.

Type: String

Valid Values: `PENDING_GENERATION | FAILED_GENERATION | READY_TO_EXECUTE | EXECUTING | EXECUTION_SUCCEEDED | OUT_OF_DATE`

Required: No

CoreNetworkId

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

CreatedAt

The timestamp when a core network policy version was created.

Type: Timestamp

Required: No

Description

The description of a core network policy version.

Type: String

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

Pattern: `[\s\S]*`

Required: No

PolicyVersionId

The ID of the policy version.

Type: Integer

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CoreNetworkSegment

Describes a core network segment, which are dedicated routes. Only attachments within this segment can communicate with each other.

Contents

EdgeLocations

The Regions where the edges are located.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

Name

The name of a core network segment.

Type: String

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

Pattern: `[\s\S]*`

Required: No

SharedSegments

The shared segments of a core network.

Type: Array of strings

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

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CoreNetworkSegmentEdgeIdentifier

Returns details about a core network edge.

Contents

CoreNetworkId

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

EdgeLocation

The Region where the segment edge is located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

SegmentName

The name of the segment edge.

Type: String

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

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CoreNetworkSummary

Returns summary information about a core network.

Contents

CoreNetworkArn

a core network ARN.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

CoreNetworkId

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

Description

The description of a core network.

Type: String

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

Pattern: `[\s\S]*`

Required: No

GlobalNetworkId

The global network ID.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

OwnerAccountId

The ID of the account owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[\s\S]*`

Required: No

State

The state of a core network.

Type: String

Valid Values: `CREATING | UPDATING | AVAILABLE | DELETING`

Required: No

Tags

The key-value tags associated with a core network summary.

Type: Array of Tag (p. 331) objects

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CustomerGatewayAssociation

Describes the association between a customer gateway, a device, and a link.

Contents

CustomerGatewayArn

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

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

DeviceId

The ID of the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

LinkId

The ID of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

State

The association state.

Type: String

Valid Values: `PENDING | AVAILABLE | DELETING | DELETED`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Device

Describes a device.

Contents

AWSLocation

The AWS location of the device.

Type: AWSLocation (p. 257) object

Required: No

CreatedAt

The date and time that the site was created.

Type: Timestamp

Required: No

Description

The description of the device.

Type: String

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

Pattern: `[\s\S]*`

Required: No

DeviceArn

The Amazon Resource Name (ARN) of the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

DeviceId

The ID of the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

Location

The site location.

Type: Location (p. 303) object

Required: No

Model

The device model.

Type: String

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

Pattern: `[\s\S]*`

Required: No

SerialNumber

The device serial number.

Type: String

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

Pattern: `[\s\S]*`

Required: No

SiteId

The site ID.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

State

The device state.

Type: String

Valid Values: `PENDING | AVAILABLE | DELETING | UPDATING`

Required: No

Tags

The tags for the device.

Type: Array of Tag (p. 331) objects

Required: No

Type

The device type.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Vendor

The device vendor.

Type: String

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

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

GlobalNetwork

Describes a global network. This is a single private network acting as a high-level container for your network objects, including an AWS-managed Core Network.

Contents

CreatedAt

The date and time that the global network was created.

Type: Timestamp

Required: No

Description

The description of the global network.

Type: String

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

Pattern: `[\s\S]*`

Required: No

GlobalNetworkArn

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

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

State

The state of the global network.

Type: String

Valid Values: `PENDING | AVAILABLE | DELETING | UPDATING`

Required: No

Tags

The tags for the global network.

Type: Array of Tag (p. 331) objects

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Link

Describes a link.

Contents

Bandwidth

The bandwidth for the link.

Type: Bandwidth (p. 258) object

Required: No

CreatedAt

The date and time that the link was created.

Type: Timestamp

Required: No

Description

The description of the link.

Type: String

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

Pattern: `[\s\S]*`

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

LinkArn

The Amazon Resource Name (ARN) of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

LinkId

The ID of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

Provider

The provider of the link.

Type: String

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

Pattern: `[\s\S]*`

Required: No

SiteId

The ID of the site.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

State

The state of the link.

Type: String

Valid Values: `PENDING | AVAILABLE | DELETING | UPDATING`

Required: No

Tags

The tags for the link.

Type: Array of Tag (p. 331) objects

Required: No

Type

The type of the link.

Type: String

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

Pattern: `[\s\S]*`

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

LinkAssociation

Describes the association between a device and a link.

Contents

DeviceId

The device ID for the link association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

LinkAssociationState

The state of the association.

Type: String

Valid Values: `PENDING | AVAILABLE | DELETING | DELETED`

Required: No

LinkId

The ID of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2

- AWS SDK for Ruby V3

Location

Describes a location.

Contents

Address

The physical address.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Latitude

The latitude.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Longitude

The longitude.

Type: String

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

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NetworkResource

Describes a network resource.

Contents

AccountId

The AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[\s\S]*`

Required: No

AwsRegion

The AWS Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

CoreNetworkId

a core network ID.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

Definition

Information about the resource, in JSON format. Network Manager gets this information by describing the resource using its Describe API call.

Type: String

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

Pattern: `[\s\S]*`

Required: No

DefinitionTimestamp

The time that the resource definition was retrieved.

Type: Timestamp

Required: No

Metadata

The resource metadata.

Type: String to string map

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

Key Pattern: `[\s\S]*`

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

Value Pattern: `[\s\S]*`

Required: No

RegisteredGatewayArn

The ARN of the gateway.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: No

ResourceArn

The ARN of the resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: No

ResourceId

The ID of the resource.

Type: String

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

Pattern: `[\s\S]*`

Required: No

ResourceType

The resource type.

The following are the supported resource types for AWS Direct Connect:

- `dxcon`
- `dx-gateway`
- `dx-vif`

The following are the supported resource types for Network Manager:

- `connection`

- `device`
- `link`
- `site`

The following are the supported resource types for Amazon VPC:

- `customer-gateway`
- `transit-gateway`
- `transit-gateway-attachment`
- `transit-gateway-connect-peer`
- `transit-gateway-route-table`
- `vpn-connection`

Type: String

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

Pattern: `[\s\S]*`

Required: No

Tags

The tags.

Type: Array of Tag (p. 331) objects

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NetworkResourceCount

Describes a resource count.

Contents

Count

The resource count.

Type: Integer

Required: No

ResourceType

The resource type.

Type: String

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

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NetworkResourceSummary

Describes a network resource.

Contents

Definition

Information about the resource, in JSON format. Network Manager gets this information by describing the resource using its Describe API call.

Type: String

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

Pattern: [\s\S]*

Required: No

IsMiddlebox

Indicates whether this is a middlebox appliance.

Type: Boolean

Required: No

NameTag

The value for the Name tag.

Type: String

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

Pattern: [\s\S]*

Required: No

RegisteredGatewayArn

The ARN of the gateway.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: [\s\S]*

Required: No

ResourceArn

The ARN of the resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: [\s\S]*

Required: No

ResourceType

The resource type.

Type: String

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

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NetworkRoute

Describes a network route.

Contents

DestinationCidrBlock

A unique identifier for the route, such as a CIDR block.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Destinations

The destinations.

Type: Array of objects

Required: No

PrefixListId

The ID of the prefix list.

Type: String

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

Pattern: `[\s\S]*`

Required: No

State

The route state. The possible values are `active` and `blackhole`.

Type: String

Valid Values: `ACTIVE | BLACKHOLE`

Required: No

Type

The route type. The possible values are `propagated` and `static`.

Type: String

Valid Values: `PROPAGATED | STATIC`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NetworkRouteDestination

Describes the destination of a network route.

Contents

CoreNetworkAttachmentId

The ID of a core network attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: No

EdgeLocation

The edge location for the network destination.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

ResourceId

The ID of the resource.

Type: String

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

Pattern: `[\s\S]*`

Required: No

ResourceType

The resource type.

Type: String

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

Pattern: `[\s\S]*`

Required: No

SegmentName

The name of the segment.

Type: String

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

Pattern: `[\s\S]*`

Required: No

TransitGatewayAttachmentId

The ID of the transit gateway attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

NetworkTelemetry

Describes the telemetry information for a resource.

Contents

AccountId

The AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[\s\S]*`

Required: No

Address

The address.

Type: String

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

Pattern: `[\s\S]*`

Required: No

AwsRegion

The AWS Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

CoreNetworkId

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

Health

The connection health.

Type: ConnectionHealth (p. 265) object

Required: No

RegisteredGatewayArn

The ARN of the gateway.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: No

ResourceArn

The ARN of the resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: No

ResourceId

The ID of the resource.

Type: String

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

Pattern: `[\s\S]*`

Required: No

ResourceType

The resource type.

Type: String

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

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OrganizationStatus

The status of an Amazon Web Services Organization and the accounts within that organization.

Contents

AccountStatusList

The current service-linked role (SLR) deployment status for an Amazon Web Services Organization's accounts. This will be either `SUCCEEDED` or `IN_PROGRESS`.

Type: Array of AccountStatus (p. 253) objects

Required: No

OrganizationAwsServiceAccessStatus

The status of the organization's AWS service access. This will be `ENABLED` or `DISABLED`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Required: No

OrganizationId

The ID of an Amazon Web Services Organization.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^o-([0-9a-f]{8,17})$`

Required: No

SLRDeploymentStatus

The status of the SLR deployment for the account. This will be either `SUCCEEDED` or `IN_PROGRESS`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PathComponent

Describes a path component.

Contents

DestinationCidrBlock

The destination CIDR block in the route table.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Resource

The resource.

Type: NetworkResourceSummary (p. 308) object

Required: No

Sequence

The sequence number in the path. The destination is 0.

Type: Integer

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ProposedSegmentChange

Describes a proposed segment change. In some cases, the segment change must first be evaluated and accepted.

Contents

AttachmentPolicyRuleNumber

The rule number in the policy document that applies to this change.

Type: Integer

Required: No

SegmentName

The name of the segment to change.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Tags

The key-value tags that changed for the segment.

Type: Array of Tag (p. 331) objects

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Relationship

Describes a resource relationship.

Contents

From

The ARN of the resource.

Type: String

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

Pattern: `[\s\S]*`

Required: No

To

The ARN of the resource.

Type: String

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

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RouteAnalysis

Describes a route analysis.

Contents

Destination

The destination.

Type: RouteAnalysisEndpointOptions (p. 324) object

Required: No

ForwardPath

The forward path.

Type: RouteAnalysisPath (p. 326) object

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

Required: No

IncludeReturnPath

Indicates whether to analyze the return path. The return path is not analyzed if the forward path analysis does not succeed.

Type: Boolean

Required: No

OwnerAccountId

The ID of the AWS account that created the route analysis.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [\s\S]*

Required: No

ReturnPath

The return path.

Type: RouteAnalysisPath (p. 326) object

Required: No

RouteAnalysisId

The ID of the route analysis.

Type: String

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

Pattern: `[\s\S]*`

Required: No

Source

The source.

Type: RouteAnalysisEndpointOptions (p. 324) object

Required: No

StartTimestamp

The time that the analysis started.

Type: Timestamp

Required: No

Status

The status of the route analysis.

Type: String

Valid Values: `RUNNING | COMPLETED | FAILED`

Required: No

UseMiddleboxes

Indicates whether to include the location of middlebox appliances in the route analysis.

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RouteAnalysisCompletion

Describes the status of an analysis at completion.

Contents

ReasonCode

The reason code. Available only if a connection is not found.

- `BLACKHOLE_ROUTE_FOR_DESTINATION_FOUND` - Found a black hole route with the destination CIDR block.
- `CYCLIC_PATH_DETECTED` - Found the same resource multiple times while traversing the path.
- `INACTIVE_ROUTE_FOR_DESTINATION_FOUND` - Found an inactive route with the destination CIDR block.
- `MAX_HOPS_EXCEEDED` - Analysis exceeded 64 hops without finding the destination.
- `ROUTE_NOT_FOUND` - Cannot find a route table with the destination CIDR block.
- `TGW_ATTACH_ARN_NO_MATCH` - Found an attachment, but not with the correct destination ARN.
- `TGW_ATTACH_NOT_FOUND` - Cannot find an attachment.
- `TGW_ATTACH_NOT_IN_TGW` - Found an attachment, but not to the correct transit gateway.
- `TGW_ATTACH_STABLE_ROUTE_TABLE_NOT_FOUND` - The state of the route table association is not associated.

Type: String

Valid Values: `TRANSIT_GATEWAY_ATTACHMENT_NOT_FOUND | TRANSIT_GATEWAY_ATTACHMENT_NOT_IN_TRANSIT_GATEWAY | CYCLIC_PATH_DETECTED | TRANSIT_GATEWAY_ATTACHMENT_STABLE_ROUTE_TABLE_NOT_FOUND | ROUTE_NOT_FOUND | BLACKHOLE_ROUTE_FOR_DESTINATION_FOUND | INACTIVE_ROUTE_FOR_DESTINATION_FOUND | TRANSIT_GATEWAY_ATTACHMENT_ATTACH_ARN_NO_MATCH | MAX_HOPS_EXCEEDED | POSSIBLE_MIDDLEBOX | NO_DESTINATION_ARN_PROVIDED`

Required: No

ReasonContext

Additional information about the path. Available only if a connection is not found.

Type: String to string map

Key Length Constraints: Minimum length of 0. Maximum length of 10000000.

Key Pattern: `[\s\S]*`

Value Length Constraints: Minimum length of 0. Maximum length of 10000000.

Value Pattern: `[\s\S]*`

Required: No

ResultCode

The result of the analysis. If the status is `NOT_CONNECTED`, check the reason code.

Type: String

Valid Values: `CONNECTED | NOT_CONNECTED`

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

RouteAnalysisEndpointOptions

Describes a source or a destination.

Contents

IpAddress

The IP address.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

TransitGatewayArn

The ARN of the transit gateway.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

TransitGatewayAttachmentArn

The ARN of the transit gateway attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RouteAnalysisEndpointOptionsSpecification

Describes a source or a destination.

Contents

IpAddress

The IP address.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

TransitGatewayAttachmentArn

The ARN of the transit gateway attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RouteAnalysisPath

Describes a route analysis path.

Contents

CompletionStatus

The status of the analysis at completion.

Type: RouteAnalysisCompletion (p. 322) object

Required: No

Path

The route analysis path.

Type: Array of PathComponent (p. 317) objects

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RouteTableIdentifier

Describes a route table.

Contents

CoreNetworkSegmentEdge

The segment edge in a core network.

Type: CoreNetworkSegmentEdgeIdentifier (p. 288) object

Required: No

TransitGatewayRouteTableArn

The ARN of the transit gateway route table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: [\s\S]*

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Site

Describes a site.

Contents

CreatedAt

The date and time that the site was created.

Type: Timestamp

Required: No

Description

The description of the site.

Type: String

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

Pattern: [\s\S]*

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

Required: No

Location

The location of the site.

Type: Location (p. 303) object

Required: No

SiteArn

The Amazon Resource Name (ARN) of the site.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: [\s\S]*

Required: No

SiteId

The ID of the site.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

State

The state of the site.

Type: String

Valid Values: `PENDING | AVAILABLE | DELETING | UPDATING`

Required: No

Tags

The tags for the site.

Type: Array of Tag (p. 331) objects

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SiteToSiteVpnAttachment

Creates a site-to-site VPN attachment.

Contents

Attachment

Provides details about a site-to-site VPN attachment.

Type: Attachment (p. 254) object

Required: No

VpnConnectionArn

The ARN of the site-to-site VPN attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:vpn-connection\/vpn-[0-9a-f]{8,17}$`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Tag

Describes a tag.

Contents

Key

The tag key.

Constraints: Maximum length of 128 characters.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Required: No

Value

The tag value.

Constraints: Maximum length of 256 characters.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TransitGatewayConnectPeerAssociation

Describes a transit gateway Connect peer association.

Contents

DeviceId

The ID of the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

LinkId

The ID of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

State

The state of the association.

Type: String

Valid Values: `PENDING | AVAILABLE | DELETING | DELETED`

Required: No

TransitGatewayConnectPeerArn

The Amazon Resource Name (ARN) of the transit gateway Connect peer.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TransitGatewayRegistration

Describes the registration of a transit gateway to a global network.

Contents

GlobalNetworkId

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

State

The state of the transit gateway registration.

Type: TransitGatewayRegistrationStateReason (p. 335) object

Required: No

TransitGatewayArn

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

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TransitGatewayRegistrationStateReason

Describes the status of a transit gateway registration.

Contents

Code

The code for the state reason.

Type: String

Valid Values: `PENDING | AVAILABLE | DELETING | DELETED | FAILED`

Required: No

Message

The message for the state reason.

Type: String

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

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ValidationExceptionField

Describes a validation exception for a field.

Contents

Message

The message for the field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Required: Yes

Name

The name of the field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

VpcAttachment

Describes a VPC attachment.

Contents

Attachment

Provides details about the VPC attachment.

Type: Attachment (p. 254) object

Required: No

Options

Provides details about the VPC attachment.

Type: VpcOptions (p. 338) object

Required: No

SubnetArns

The subnet ARNs.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:subnet\/subnet-[0-9a-f]{8,17}$|^$`

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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

VpcOptions

Describes the VPC options.

Contents

Ipv6Support

Indicates whether IPv6 is supported.

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 Go
- 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 Signature Version 4 Signing Process in the *Amazon Web Services General Reference*.

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

For more information, see Task 2: Create a String to Sign for Signature Version 4 in the *Amazon Web Services General Reference*.

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

Type: string

Required: Conditional

X-Amz-Date

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

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is

not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Handling Dates in Signature Version 4 in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to AWS Services That Work with IAM in the *IAM User Guide*.

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Task 1: Create a Canonical Request For Signature Version 4 in the *Amazon Web Services General Reference*.

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

InvalidQueryParameter

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400