



Manage BGP peer groups

ONTAP 9.8 REST API reference

NetApp
May 08, 2024

This PDF was generated from https://docs.netapp.com/us-en/ontap-restapi-98/ontap/network_ip_bgp_peer-groups_endpoint_overview.html on May 08, 2024. Always check docs.netapp.com for the latest.

Table of Contents

- Manage BGP peer groups 1
 - Network IP BGP peer-groups endpoint overview 1
 - Retrieve all BGP peer group details for VIP 9
 - Create a new BGP peer group for VIP 17
 - Delete a BGP peer group for VIP 26
 - Retrieve details of a BGP peer group for VIP 27
 - Update a BGP peer group for VIP 33

Manage BGP peer groups

Network IP BGP peer-groups endpoint overview

Overview

The following operations are supported:

- Creation: POST network/ip/bgp/peer-groups
- Collection Get: GET network/ip/bgp/peer-groups
- Instance Get: GET network/ip/bgp/peer-groups/{uuid}
- Instance Patch: PATCH network/ip/bgp/peer-groups/{uuid}
- Instance Delete: DELETE network/ip/bgp/peer-groups/{uuid}

Retrieving network BGP sessions information

The IP BGP peer-groups GET API retrieves and displays relevant information pertaining to the BGP peer-groups configured in the cluster. The response can contain a list of multiple BGP peer-groups or a specific peer-group. Each BGP peer-group represents a BGP session configured between a local interface and a peer router.

Examples

Retrieving all BGP peer-groups in the cluster

The following example shows the list of all BGP peer-groups configured in a cluster.

```
# The API:
/api/network/ip/bgp/peer-groups

# The call:
curl -X GET "https://<mgmt-ip>/api/network/ip/bgp/peer-groups" -H "accept:
application/hal+json"

# The response:
{
  "records": [
    {
      "uuid": "5f22ae9d-87b2-11e9-a3a6-005056bb81a4",
      "name": "pg1",
      "_links": {
        "self": {
          "href": "/api/network/ip/bgp/peer-groups/5f22ae9d-87b2-11e9-a3a6-
005056bb81a4"
        }
      }
    },
    {
      "uuid": "5fd08be3-87b2-11e9-952f-005056bb2170",
      "name": "pg2",
      "_links": {
        "self": {
          "href": "/api/network/ip/bgp/peer-groups/5fd08be3-87b2-11e9-952f-
005056bb2170"
        }
      }
    }
  ],
  "num_records": 2,
  "_links": {
    "self": {
      "href": "/api/network/ip/bgp/peer-groups"
    }
  }
}
```

Retrieving a specific BGP peer-group

The following example shows the response when a specific BGP peer-group is requested. The system returns an error when there is no peer-group with the requested UUID.

```
# The API:
/api/network/ip/bgp/peer-groups/{uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/network/ip/bgp/peer-groups/5fd08be3-87b2-11e9-952f-005056bb2170" -H "accept: application/hal+json"

# The response:
{
  "uuid": "5fd08be3-87b2-11e9-952f-005056bb2170",
  "name": "pg2",
  "ipspace": {
    "uuid": "84fd3375-879a-11e9-a3a6-005056bb81a4",
    "name": "Default",
    "_links": {
      "self": {
        "href": "/api/network/ipspaces/84fd3375-879a-11e9-a3a6-005056bb81a4"
      }
    }
  },
  "local": {
    "interface": {
      "uuid": "5e76a305-87b2-11e9-952f-005056bb2170",
      "name": "bgp2",
      "ip": {
        "address": "10.10.10.2"
      }
    },
    "port": {
      "uuid": "f8ff73de-879a-11e9-952f-005056bb2170",
      "name": "e0h",
      "node": {
        "name": "node1"
      }
    }
  },
  "peer": {
    "address": "10.10.10.1",
    "asn": 65501
  },
  "state": "up",
  "_links": {
    "self": {
      "href": "/api/network/ip/bgp/peer-groups/5fd08be3-87b2-11e9-952f-005056bb2170"
    }
  }
}
```

```
}  
}  
}
```

Retrieving specific fields and limiting the output using filters

The following example shows the response when a filter is applied (`location.port.node.name=node1`) and only certain fields are requested. Filtered fields are in the output in addition to the default fields and requested fields.

```
# The API:  
/api/network/ip/bgp/peer-groups  
  
# The call:  
curl -X GET "https://<mgmt-ip>/api/network/ip/bgp/peer-  
groups?local.port.node.name=node1&fields=local.interface.ip,peer" -H  
"accept: application/hal+json"  
  
# The response:  
{  
  "records": [  
    {  
      "uuid": "5f22ae9d-87b2-11e9-a3a6-005056bb81a4",  
      "name": "pg1",  
      "local": {  
        "interface": {  
          "ip": {  
            "address": "10.10.10.1"  
          }  
        },  
        "port": {  
          "node": {  
            "name": "node1"  
          }  
        }  
      },  
      "peer": {  
        "address": "10.10.10.2",  
        "asn": 65501  
      },  
      "_links": {  
        "self": {  
          "href": "/api/network/ip/bgp/peer-groups/5f22ae9d-87b2-11e9-a3a6-
```

```
005056bb81a4"
    }
  }
},
"num_records": 1,
"_links": {
  "self": {
    "href": "/api/network/ip/bgp/peer-
groups?local.port.node.name=node1&fields=local.interface.ip,peer"
  }
}
}
```

Creating a BGP peer-group

The BGP peer-group POST API is used to create a peer-group as shown in the following examples.

Examples

Creating a BGP peer-group with an existing interface

The following example shows how to create a BGP peer-group between an existing interface "bgp1" and peer router with the address "10.10.10.10". The local interface "bgp1" needs to support the management-bgp service, otherwise the system returns an error.

```
# The API:
/api/network/ip/bgp/peer-groups

# The call:
curl -X POST "https://<mgmt-ip>/api/network/ip/bgp/peer-
groups?return_records=true" -d '{"name": "newPg", "ipspace.name": "Default",
"local.interface.name": "bgp1", "peer.address": "10.10.10.10"}'

# The response:
{
  "num_records": 1,
  "records": [
    {
      "uuid": "e3faacc6-87cb-11e9-a3a6-005056bb81a4",
      "name": "newPg",
      "ipspace": {
        "name": "Default"
      },
      "local": {
        "interface": {
          "name": "bgp1"
        }
      },
      "peer": {
        "address": "10.10.10.10"
      },
      "_links": {
        "self": {
          "href": "/api/network/ip/bgp/peer-groups/e3faacc6-87cb-11e9-a3a6-
005056bb81a4"
        }
      }
    }
  ]
}
```

Creating a BGP peer-group and provisioning a new local interface

The following example shows how to create a BGP peer-group with any local interface. If the local interface doesn't exist, the system will create it first before creating the peer-group.

```

# The API:
/api/network/ip/bgp/peer-groups

# The call:
curl -X POST "https://<mgmt-ip>/api/network/ip/bgp/peer-
groups?return_records=true" -d'{"name": "newPg1",
"ipspace.name": "Default", "local": {"interface": {"name": "newlif"}, "ip":
{"address": "9.9.9.9", "netmask": "24"}, "port": {"name": "e0f", "node":
{"name": "node1"}}}, "peer.address": "10.10.10.10"}'

# The response:
{
  "num_records": 1,
  "records": [
    {
      "uuid": "c292f069-8872-11e9-a3a6-005056bb81a4",
      "name": "newPg1",
      "ipspace": {
        "name": "Default"
      },
      "local": {
        "interface": {
          "name": "newlif"
        },
        "port": {
          "name": "e0f",
          "node": {
            "name": "node1"
          }
        }
      },
      "peer": {
        "address": "10.10.10.10"
      },
      "_links": {
        "self": {
          "href": "/api/network/ip/bgp/peer-groups/c292f069-8872-11e9-a3a6-
005056bb81a4"
        }
      }
    }
  ]
}

```

Updating BGP peer-groups

The BGP peer-groups PATCH API is used to update attributes of a peer-group.

Examples

Updating the peer router address

The following example shows how the PATCH request changes the peer router IP address.

```
# The API:
/api/network/ip/bgp/peer-groups/{uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/network/ip/bgp/peer-groups/80d271c9-1f43-11e9-803e-005056a7646a" -H "accept: application/hal+json" -d
'{"peer.address": "10.10.10.20" }'
{
}
```

Updating the peer-group to a new name

The following example shows how the PATCH request renames the peer-group.

```
# The API:
/api/network/ip/bgp/peer-groups/{uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/network/ip/bgp/peer-groups/80d271c9-1f43-11e9-803e-005056a7646a" -H "accept: application/hal+json" -d
'{"name": "NewName"}'
{
}
```

Deleting BGP peer-groups

The BGP peer-groups DELETE API is used to delete an BGP peer-group.

Example

Deleting a BGP peer-group

The following DELETE request deletes a BGP peer-group.

```
# The API:
/api/network/ip/bgp/peer-group/{uuid}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/network/ip/bgp/peer-groups/80d271c9-1f43-11e9-803e-005056a7646a"
{
}
```

Retrieve all BGP peer group details for VIP

GET /network/ip/bgp/peer-groups

Introduced In: 9.7

Retrieves the details of all BGP peer groups for VIP.

Related ONTAP Commands

- `network bgp peer-group show`

Parameters

| Name | Type | In | Required | Description |
|----------------------|--------|-------|----------|--------------------------------|
| state | string | query | False | Filter by state |
| local.port.name | string | query | False | Filter by local.port.name |
| local.port.node.name | string | query | False | Filter by local.port.node.name |
| local.port.uuid | string | query | False | Filter by local.port.uuid |

| Name | Type | In | Required | Description |
|----------------------------|---------------|-------|----------|---|
| local.interface.name | string | query | False | Filter by local.interface.name |
| local.interface.uuid | string | query | False | Filter by local.interface.uuid |
| local.interface.ip.address | string | query | False | Filter by local.interface.ip.address |
| uuid | string | query | False | Filter by uuid |
| peer.asn | integer | query | False | Filter by peer.asn |
| peer.address | string | query | False | Filter by peer.address |
| name | string | query | False | Filter by name |
| ipspace.name | string | query | False | Filter by ipspace.name |
| ipspace.uuid | string | query | False | Filter by ipspace.uuid |
| fields | array[string] | query | False | Specify the fields to return. |
| max_records | integer | query | False | Limit the number of records returned. |
| return_records | boolean | query | False | <p>The default is true for GET calls. When set to false, only the number of records is returned.</p> <ul style="list-style-type: none"> • Default value: 1 |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|--|
| return_timeout | integer | query | False | <p>The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.</p> <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|---|-------------|
| _links | _links | |
| num_records | integer | |
| records | array[bgp_peer_group] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": "1",
  "records": {
    "ipspace": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "exchange",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "local": {
      "interface": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "ip": {
          "address": "10.10.10.7"
        },
        "name": "lif1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "ip": {
        "address": "10.10.10.7",
        "netmask": "24"
      },
      "port": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "elb",
```

```

    "node": {
      "name": "node1"
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "name": "bgpv4peer",
  "peer": {
    "address": "10.10.10.7"
  },
  "state": "up",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}

```

Error

Status: Default, Error

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```

{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}

```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| next | href | |
| self | href | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

ipspace

Either the UUID or name is supplied on input.

| Name | Type | Description |
|--------|------------------------|--------------|
| _links | _links | |
| name | string | IPspace name |
| uuid | string | IPspace UUID |

ip

IP information

| Name | Type | Description |
|---------|--------|----------------------|
| address | string | IPv4 or IPv6 address |

interface

| Name | Type | Description |
|--------|------------------------|----------------------------|
| _links | _links | |
| ip | ip | IP information |
| name | string | The name of the interface. |

| Name | Type | Description |
|------|--------|--|
| uuid | string | The UUID that uniquely identifies the interface. |

ip

IP information to create a new interface.

| Name | Type | Description |
|---------|--------|---|
| address | string | IPv4 or IPv6 address |
| netmask | string | Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, you must set the netmask length. The default value is 64. Output is always netmask length. |

node

| Name | Type | Description |
|------|--------|--|
| name | string | Name of node on which the port is located. |

port

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| name | string | |
| node | node | |
| uuid | string | |

local

Information describing the local interface that is being used to peer with a router using BGP. On a POST operation, an existing BGP interface is used by specifying the interface, or create a new one by specifying the port and IP address.

| Name | Type | Description |
|-----------|---------------------------|---|
| interface | interface | |
| ip | ip | IP information to create a new interface. |
| port | port | |

peer

Information describing the router to peer with

| Name | Type | Description |
|---------|---------|----------------------------------|
| address | string | Peer router address |
| asn | integer | Autonomous system number of peer |

bgp_peer_group

A BGP peer group between a local network interface and a router, for the purpose of announcing VIP interface locations for SVMs in this IPspace.

| Name | Type | Description |
|---------|-------------------------|---|
| ipspace | ipspace | Either the UUID or name is supplied on input. |
| local | local | Information describing the local interface that is being used to peer with a router using BGP. On a POST operation, an existing BGP interface is used by specifying the interface, or create a new one by specifying the port and IP address. |
| name | string | Name of the peer group |
| peer | peer | Information describing the router to peer with |
| state | string | State of the peer group |
| uuid | string | UUID of the peer group |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|--|---|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Create a new BGP peer group for VIP

POST /network/ip/bgp/peer-groups

Introduced In: 9.7

Creates a new BGP peer group for VIP. Multipath-routing is turned on cluster-wide automatically if the peer group being created results in multiple paths being available for an existing or future VIP interface.

Required properties

- `name` - Name of the peer-group to create.
- `ipspace.name` or `ipspace.uuid`
 - Required with `local.interface.name` to identify a local interface
 - Optional when `local.interface.uuid` is specified
- `local.interface.uuid` or `local.interface.name`
 - Required when specifying an existing local interface.
- `local.interface.name`, `local.ip` and `local.port`
 - Required to create a new local interface.
- `peer.address` - IP address of the peer router

Related ONTAP commands

- `network bgp peer-group create`

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|---|
| return_records | boolean | query | False | <p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none"> • Default value: |

Request Body

| Name | Type | Description |
|---------|-------------------------|---|
| ipspace | ipspace | Either the UUID or name is supplied on input. |
| local | local | Information describing the local interface that is being used to peer with a router using BGP. On a POST operation, an existing BGP interface is used by specifying the interface, or create a new one by specifying the port and IP address. |
| name | string | Name of the peer group |
| peer | peer | Information describing the router to peer with |
| state | string | State of the peer group |
| uuid | string | UUID of the peer group |

Example request

```
{
  "ipspace": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "exchange",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "local": {
    "interface": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "ip": {
        "address": "10.10.10.7"
      },
      "name": "lif1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "ip": {
      "address": "10.10.10.7",
      "netmask": "24"
    },
    "port": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "e1b",
      "node": {
        "name": "node1"
      },
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  },
  "name": "bgpv4peer",
  "peer": {
    "address": "10.10.10.7"
  },
}
```

```
"state": "up",  
"uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"  
}
```

Response

Status: 201, Created

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 1376963 | Duplicate IP address is specified. |
| 1966133 | Since masking an address with a netmask represents an entire IP subnet, the masked and unmasked IP addresses cannot be the same. |
| 1966267 | IPv6 addresses must have a prefix length of 64. |
| 1966269 | IPv4 addresses must have a netmask length between 1 and 32. |
| 1967082 | IPspace name and UUID must match if both are given. |
| 1967155 | The specified local.port.name does not match the location.port.name for the specified local.interface. |
| 1967156 | The specified local.port.node.name does not match the location.port.node.name for the specified local.interface. |
| 1967157 | The specified local.port.uuid does not match the location.port.uuid for the specified local.interface. |
| 1967158 | The specified local.interface.name does not exist in the associated IPspace. local.ip.address and local.ip.netmask are required to create a new LIF. |
| 1967159 | local.interface does not support management-bgp service. |
| 1967160 | The specified local.interface.name does not match the specified interface name of local.interface.uuid. |
| 1967161 | The specified local.interface.uuid does not exist in the specified IPspace. |

| Error Code | Description |
|------------|---|
| 1967162 | Either local.interface or local.ip and local.port are required to specify a local LIF. |
| 1967163 | The specified local.port.name does not match the specified port name of local.port.uuid. |
| 1967164 | The specified local.port.node.name does not match the specified node name of local.port.uuid. |
| 1967165 | The specified local.port does not exist. |
| 1967166 | ipspace.uuid or ipspace.name must be provided with local.interface.name together to identify a LIF. |
| 1967167 | Internal error. Failed to update BGP configuration for node. Retry the command, if necessary. |
| 1967168 | Internal error. Failed to create a VIP port for IPspace on node. Retry the command, if necessary. |
| 1967169 | Internal error. BGP configuration changed during the operation. Retry the command, if necessary. |
| 1967170 | Internal error. VIP port configuration changed during the operation. Retry the command, if necessary. |
| 1967171 | Internal error. Fail to access or update BGP peer group. Retry the command, if necessary. |
| 1967172 | Peer group could not be updated because IPspace does not exist. Retry the command, if necessary. |
| 1967173 | The specified local.ip.address does not match the address for the specified local.interface. |
| 1967174 | The specified local.ip.netmask does not match the netmask for the specified local.interface. |
| 1967176 | The specified local.interface.name does not exist in the associated IPspace. local.port.name, local.port.node.name, or local.port.uuid is required to create a new LIF. |
| 1967177 | Internal error. Failed to access the local interface. Retry the command, if necessary. |
| 1967178 | The IPv6 address specified with local.ip.address is not supported because it is link-local, multicast, v4-compatible, v4-mapped, loopback or "::". |
| 1967179 | The IPv4 address specified with local.ip.address is not supported because it is multicast, loopback or 0.0.0.0. |
| 53281985 | Internal error. Failed to update BGP peer group because BGP LIF moved during the operation. Wait a few minutes and try the command again. |

| Error Code | Description |
|------------|---|
| 53282006 | BGP peer group could not be updated to use a peer address because the value provided is not a valid peer address. If necessary, try the command again with a routable host address. |
| 53282007 | BGP peer group could not be updated to use a peer address because the address represents a different address family to the address of the associated BGP LIF. If necessary, try the command again with a matching address family. |
| 53282018 | Failed to create BGP peer group because an existing peer group has already established a BGP session between LIF and peer address. If necessary, try the command again with a different BGP LIF or a different peer address. |

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

ipspace

Either the UUID or name is supplied on input.

| Name | Type | Description |
|--------|------------------------|--------------|
| _links | _links | |
| name | string | IPspace name |
| uuid | string | IPspace UUID |

ip

IP information

| Name | Type | Description |
|---------|--------|----------------------|
| address | string | IPv4 or IPv6 address |

interface

| Name | Type | Description |
|--------|------------------------|--|
| _links | _links | |
| ip | ip | IP information |
| name | string | The name of the interface. |
| uuid | string | The UUID that uniquely identifies the interface. |

ip

IP information to create a new interface.

| Name | Type | Description |
|---------|--------|---|
| address | string | IPv4 or IPv6 address |
| netmask | string | Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, you must set the netmask length. The default value is 64. Output is always netmask length. |

node

| Name | Type | Description |
|------|--------|--|
| name | string | Name of node on which the port is located. |

port

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| name | string | |
| node | node | |
| uuid | string | |

local

Information describing the local interface that is being used to peer with a router using BGP. On a POST operation, an existing BGP interface is used by specifying the interface, or create a new one by specifying the port and IP address.

| Name | Type | Description |
|-----------|---------------------------|---|
| interface | interface | |
| ip | ip | IP information to create a new interface. |
| port | port | |

peer

Information describing the router to peer with

| Name | Type | Description |
|---------|--------|---------------------|
| address | string | Peer router address |

| Name | Type | Description |
|------|---------|----------------------------------|
| asn | integer | Autonomous system number of peer |

bgp_peer_group

A BGP peer group between a local network interface and a router, for the purpose of announcing VIP interface locations for SVMs in this IPspace.

| Name | Type | Description |
|---------|-------------------------|---|
| ipspace | ipspace | Either the UUID or name is supplied on input. |
| local | local | Information describing the local interface that is being used to peer with a router using BGP. On a POST operation, an existing BGP interface is used by specifying the interface, or create a new one by specifying the port and IP address. |
| name | string | Name of the peer group |
| peer | peer | Information describing the router to peer with |
| state | string | State of the peer group |
| uuid | string | UUID of the peer group |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|--|-------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |

| Name | Type | Description |
|---------|--------|---|
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Delete a BGP peer group for VIP

DELETE /network/ip/bgp/peer-groups/{uuid}

Introduced In: 9.7

Deletes a BGP peer group for VIP.

Related ONTAP commands

- `network bgp peer-group delete`

Parameters

| Name | Type | In | Required | Description |
|------|--------|------|----------|------------------------|
| uuid | string | path | True | UUID of the peer group |

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 53282019 | Internal error. Failed to remove BGP peer group on node. Wait a few minutes and try the command again. |

| Name | Type | Description |
|-------|-----------------------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|--|---|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Retrieve details of a BGP peer group for VIP

GET /network/ip/bgp/peer-groups/{uuid}

Introduced In: 9.7

Retrieves details of a BGP peer group for VIP.

Related ONTAP commands

- `network bgp peer-group show`

Parameters

| Name | Type | In | Required | Description |
|--------|---------------|-------|----------|-------------------------------|
| uuid | string | path | True | UUID of the peer group |
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|---------|-------------------------|---|
| ipspace | ipspace | Either the UUID or name is supplied on input. |
| local | local | Information describing the local interface that is being used to peer with a router using BGP. On a POST operation, an existing BGP interface is used by specifying the interface, or create a new one by specifying the port and IP address. |
| name | string | Name of the peer group |
| peer | peer | Information describing the router to peer with |
| state | string | State of the peer group |
| uuid | string | UUID of the peer group |

Example response

```
{
  "ipspace": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "exchange",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "local": {
    "interface": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      }
    },
    "ip": {
      "address": "10.10.10.7"
    },
    "name": "lif1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "ip": {
    "address": "10.10.10.7",
    "netmask": "24"
  },
  "port": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "e1b",
    "node": {
      "name": "node1"
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "name": "bgpv4peer",
  "peer": {
    "address": "10.10.10.7"
  },
}
```

```
"state": "up",
"uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
```

Error

Status: Default, Error

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

ipspace

Either the UUID or name is supplied on input.

| Name | Type | Description |
|--------|------------------------|--------------|
| _links | _links | |
| name | string | IPspace name |
| uuid | string | IPspace UUID |

ip

IP information

| Name | Type | Description |
|---------|--------|----------------------|
| address | string | IPv4 or IPv6 address |

interface

| Name | Type | Description |
|--------|------------------------|--|
| _links | _links | |
| ip | ip | IP information |
| name | string | The name of the interface. |
| uuid | string | The UUID that uniquely identifies the interface. |

ip

IP information to create a new interface.

| Name | Type | Description |
|---------|--------|---|
| address | string | IPv4 or IPv6 address |
| netmask | string | Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, you must set the netmask length. The default value is 64. Output is always netmask length. |

node

| Name | Type | Description |
|------|--------|--|
| name | string | Name of node on which the port is located. |

port

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| name | string | |
| node | node | |
| uuid | string | |

local

Information describing the local interface that is being used to peer with a router using BGP. On a POST operation, an existing BGP interface is used by specifying the interface, or create a new one by specifying the port and IP address.

| Name | Type | Description |
|-----------|---------------------------|---|
| interface | interface | |
| ip | ip | IP information to create a new interface. |
| port | port | |

peer

Information describing the router to peer with

| Name | Type | Description |
|---------|--------|---------------------|
| address | string | Peer router address |

| Name | Type | Description |
|------|---------|----------------------------------|
| asn | integer | Autonomous system number of peer |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|--|---|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Update a BGP peer group for VIP

PATCH /network/ip/bgp/peer-groups/{uuid}

Introduced In: 9.7

Updates a BGP peer group for VIP.

Related ONTAP commands

- `network bgp peer-group modify`
- `network bgp peer-group rename`

Parameters

| Name | Type | In | Required | Description |
|------|--------|------|----------|------------------------|
| uuid | string | path | True | UUID of the peer group |

Request Body

| Name | Type | Description |
|---------|-------------------------|---|
| ipspace | ipspace | Either the UUID or name is supplied on input. |
| local | local | Information describing the local interface that is being used to peer with a router using BGP. On a POST operation, an existing BGP interface is used by specifying the interface, or create a new one by specifying the port and IP address. |
| name | string | Name of the peer group |
| peer | peer | Information describing the router to peer with |
| state | string | State of the peer group |
| uuid | string | UUID of the peer group |

Example request

```
{
  "ipspace": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "exchange",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "local": {
    "interface": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      }
    },
    "ip": {
      "address": "10.10.10.7"
    },
    "name": "lif1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "ip": {
    "address": "10.10.10.7",
    "netmask": "24"
  },
  "port": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "e1b",
    "node": {
      "name": "node1"
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "name": "bgpv4peer",
  "peer": {
    "address": "10.10.10.7"
  },
}
```

```
"state": "up",  
"uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"  
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|---|
| 1967171 | Internal error. Fail to access or update BGP peer group. Retry the command, if necessary. |
| 53281998 | Failed to rename the BGP peer group because that name is already assigned to a different peer group in the IPspace. |
| 53282006 | BGP peer group could not be updated to use a peer address because the value provided is not a valid peer address. If necessary, try the command again with a routable host address. |
| 53282007 | BGP peer group could not be updated to use a peer address because the address represents a different address family to the address of the associated BGP LIF. If necessary, try the command again with a matching address family. |
| 53282018 | Failed to create BGP peer group because an existing peer group has already established a BGP session between LIF and peer address. If necessary, try the command again with a different BGP LIF or a different peer address. |

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

ipspace

Either the UUID or name is supplied on input.

| Name | Type | Description |
|--------|------------------------|--------------|
| _links | _links | |
| name | string | IPspace name |
| uuid | string | IPspace UUID |

ip

IP information

| Name | Type | Description |
|---------|--------|----------------------|
| address | string | IPv4 or IPv6 address |

interface

| Name | Type | Description |
|--------|------------------------|--|
| _links | _links | |
| ip | ip | IP information |
| name | string | The name of the interface. |
| uuid | string | The UUID that uniquely identifies the interface. |

ip

IP information to create a new interface.

| Name | Type | Description |
|---------|--------|---|
| address | string | IPv4 or IPv6 address |
| netmask | string | Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, you must set the netmask length. The default value is 64. Output is always netmask length. |

node

| Name | Type | Description |
|------|--------|--|
| name | string | Name of node on which the port is located. |

port

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| name | string | |
| node | node | |
| uuid | string | |

local

Information describing the local interface that is being used to peer with a router using BGP. On a POST operation, an existing BGP interface is used by specifying the interface, or create a new one by specifying the port and IP address.

| Name | Type | Description |
|-----------|---------------------------|---|
| interface | interface | |
| ip | ip | IP information to create a new interface. |
| port | port | |

peer

Information describing the router to peer with

| Name | Type | Description |
|---------|--------|---------------------|
| address | string | Peer router address |

| Name | Type | Description |
|------|---------|----------------------------------|
| asn | integer | Autonomous system number of peer |

bgp_peer_group

A BGP peer group between a local network interface and a router, for the purpose of announcing VIP interface locations for SVMs in this IPspace.

| Name | Type | Description |
|---------|-------------------------|---|
| ipspace | ipspace | Either the UUID or name is supplied on input. |
| local | local | Information describing the local interface that is being used to peer with a router using BGP. On a POST operation, an existing BGP interface is used by specifying the interface, or create a new one by specifying the port and IP address. |
| name | string | Name of the peer group |
| peer | peer | Information describing the router to peer with |
| state | string | State of the peer group |
| uuid | string | UUID of the peer group |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|--|-------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |

| Name | Type | Description |
|---------|--------|---|
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Copyright information

Copyright © 2024 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

Trademark information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.