# C Commands

This chapter describes the Cisco NX-OS Border Gateway Protocol (BGP) commands that begin with C.

# clear bgp

To clear Border Gateway Protocol (BGP) routes from the BGP table, use the **clear bgp** command.

**clear bgp** {**ipv4** {**multicast** | **unicast**} | **all**} {*neighbor* | **\*** | *as-number* | **peer-template** *name* | *prefix*} [**vrf** *vrf-name*]

**Syntax Description**

| | |
|---|---|
| **ipv4** | Clears the BGP information for the IPv4 address family. |
| **multicast** | Clears BGP information for the multicast address family. |
| **unicast** | Clears BGP information for the unicast address family. |
| **all** | Clears the BGP information for all address families. |
| *neighbor* | Network address. The format is A.B.C.D for IPv4. |
| **\*** | Clears all neighbors. |
| *as-number* | Autonomous system number. The range is from 1 to 65535. |
| **peer-template** *name* | Specifies a BGP peer template. The name can be any case-sensitive, alphanumeric string up to 63 characters. |
| *prefix* | Prefix from the selected address family. The format is A.B.C.D/length for IPv4. |
| **vrf** *vrf-name* | (Optional) Specifies a particular virtual routing and forwarding (VRF) context name or all VRF instances. The VRF name can be any case-sensitive, alphanumeric string up to 32 characters. |

**Command Default**

None

**Command Modes**

Any command mode

**Command History**

| Release | Modification |
|---|---|
| 5.0(3)N1(1) | This command was introduced. |

**Usage Guidelines**

This command requires the LAN Enterprise Services license.

**Examples**

This example shows how to clear all BGP entries:

```
switch# clear bgp all *
```

# clear bgp dampening

To clear Border Gateway Protocol (BGP) route flap dampening information, use the **clear bgp dampening** command.

**clear bgp** {**ipv4** {**unicast** | **multicast**} | **all**} **dampening** [*neighbor* | *prefix*] [**vrf** *vrf-name* | **all** | **default** | **management**]

| Syntax Description | | |
|---|---|---|
| **ipv4** | Clears BGP information for the IPv4 address family. | |
| **unicast** | Clears BGP information for the unicast address family. | |
| **multicast** | Clears BGP information for the multicast address family. | |
| **all** | Clears BGP information for all address families. | |
| *neighbor* | (Optional) Neighbor from the selected address family. The format is A.B.C.D for IPv4. | |
| *prefix* | (Optional) Prefix from the selected address family. The format is A.B.C.D/length for IPv4. | |
| **vrf** *vrf-name* | (Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name can be any case-sensitive, alphanumeric string up to 32 characters. | |
| **all** | (Optional) Clears BGP information from all VRFs. | |
| **default** | (Optional) Clears BGP information from the default VRF. | |
| **management** | (Optional) Clears BGP information from the management VRF. | |

**Command Default**   None

**Command Modes**   Any command mode

| Command History | Release | Modification |
|---|---|---|
| | 5.0(3)N1(1) | This command was introduced. |

**Usage Guidelines**   This command requires the LAN Enterprise Services license.

**Examples**   This example shows how to clear BGP route flap dampening information:

```
switch# clear bgp all dampening
```

# clear bgp flap-statistics

To clear Border Gateway Protocol (BGP) route flap statistics, use the **clear bgp flap-statistics** command.

**clear bgp** {**ipv4** {**multicast** | **unicast**} | **all**} **flap-statistics** [*neighbor* | *prefix*] [**vrf** *vrf-name* | **all** | **default** | **management**]

**Syntax Description**

| | |
|---|---|
| **ipv4** | Clears BGP information for the IPv4 address family. |
| **unicast** | Clears BGP information for the unicast address family. |
| **multicast** | Clears BGP information for the multicast address family. |
| **all** | Clears BGP information for all address families. |
| *neighbor* | (Optional) Neighbor from the selected address family. The format is *A.B.C.D* for IPv4. |
| *prefix* | (Optional) Prefix from the selected address family. The format is *A.B.C.D/length* for IPv4. |
| **vrf** *vrf-name* | (Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name can be any case-sensitive, alphanumeric string up to 32 characters. |
| **all** | (Optional) Clears BGP information from all VRFs. |
| **default** | (Optional) Clears BGP information from the default VRF. |
| **management** | (Optional) Clears BGP information from the management VRF. |

**Command Default**   None

**Command Modes**

| Release | Modification |
|---|---|
| 5.0(3)N1(1) | This command was introduced. |

**Usage Guidelines**   This command requires the LAN Enterprise Services license.

**Examples**   This example shows how to clear BGP route flap statistics:

```
switch# clear bgp ipv4 multicast flap-statistics
```

# clear bgp policy statistics aggregate-address

To clear policy statistics for the Border Gateway Protocol (BGP) topology table, use the **clear bgp policy statistics aggregate address** command.

**clear bgp policy statistics aggregate-address** *prefix* {**advertise-map** | **suppress-map**}

**Syntax Description**

| | |
|---|---|
| *prefix* | Summary address. The format is *x.x.x.x* or *x.x.x.x/length*. The range is from 1 to 32. |
| **advertise-map** | Clears policy statistics for the advertise policy. |
| **suppress-map** | Clears policy statistics for the suppress policy. |

**Command Default**

None

**Command Modes**

| Release | Modification |
|---|---|
| 5.0(3)N1(1) | This command was introduced. |

**Usage Guidelines**

This command requires the LAN Enterprise Services license.

**Examples**

This example shows how to clear policy statistics for an aggregate address:

```
switch# clear bgp policy statistics aggregate-address 192.0.2.0/8
```

**Related Commands**

| Command | Description |
|---|---|
| **show bgp policy statistics** | Displays BGP policy statistics. |

# clear bgp policy statistics dampening

To clear policy statistics for the Border Gateway Protocol (BGP) dampening, use the **clear bgp policy statistics dampening** command.

**clear bgp policy statistics dampening**

**Syntax Description**

This command has no arguments or keywords.

**Command Default**

None

**Command Modes**

| Release | Modification |
|---------|-------------|
| 5.0(3)N1(1) | This command was introduced. |

**Usage Guidelines**

This command requires the LAN Enterprise Services license.

**Examples**

This example shows how to clear policy statistics for dampening:

```
switch# clear bgp policy statistics dampening
```

**Related Commands**

| Command | Description |
|---------|-------------|
| **show bgp policy statistics** | Displays BGP policy statistics. |

# clear bgp policy statistics neighbor

To clear policy statistics for the Border Gateway Protocol (BGP) neighbor, use the **clear bgp policy statistics neighbor** command.

**clear bgp policy statistics neighbor** *prefix* [**default-originate** | {**filter-list** | **prefix-list** | **route-map**} {**in** | **out**}]

**Syntax Description**

| | |
|---|---|
| *prefix* | Neighbor address. The format is x.x.x.x. |
| **default-originate** | (Optional) Clears policy statistics for the default originate policy. |
| **filter-list** | (Optional) Clears policy statistics for the neighbor filter list. |
| **prefix-list** | (Optional) Clears policy statistics for the neighbor prefix list. |
| **route-map** | (Optional) Clears policy statistics for the neighbor route map. |
| **in** | (Optional) Clears inbound policy statistics. |
| **out** | (Optional) Clears outbound policy statistics. |

**Command Default**    None

**Command Modes**

| Release | Modification |
|---|---|
| 5.0(3)N1(1) | This command was introduced. |

**Usage Guidelines**    This command requires the LAN Enterprise Services license.

**Examples**    This example shows how to clear policy statistics for an aggregate address:

```
switch# clear bgp policy statistics neighbor 192.0.2.1 filter-list in
```

**Related Commands**

| Command | Description |
|---|---|
| **show bgp policy statistics** | Displays BGP policy statistics. |

# clear bgp policy statistics redistribute

To clear policy statistics for the Border Gateway Protocol (BGP) topology table, use the **clear bgp policy statistics redistribute** command.

**clear bgp policy statistics redistribute** {**direct** | **eigrp** *id* | **ospf** *id* | **rip** *id* | **static**} [**vrf** {*vrf-name* | **all** | **default** | **management**}]

| Syntax Description | | |
|---|---|---|
| | **direct** | Clears policy statistics for directly connected routes only. |
| | **eigrp** | Clears policy statistics for Enhanced Interior Gateway Routing Protocol (EIGRP). |
| | **ospf** | Clears policy statistics for the Open Shortest Path First (OSPF) protocol. |
| | **rip** | Clears policy statistics for the Routing Information Protocol (RIP). |
| | **static** | Clears policy statistics for IP static routes. |
| | *id* | For the **eigrp** keyword, an EIGRP instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco NX-OS stores it internally as a string. |
| | | For the **ospf** keyword, an OSPF instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco NX-OS stores it internally as a string. |
| | **vrf** *vrf-name* | (Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name is an alphanumeric string of up to 32 characters. |
| | **all** | (Optional) Specifies the "all" VRF instance. |
| | **default** | (Optional) Specifies the default VRF. |
| | **management** | (Optional) Specifies the management VRF. |

**Command Default**   None

**Command Modes**

| Release | Modification |
|---|---|
| 5.0(3)N1(1) | This command was introduced. |

**Usage Guidelines**   This command requires the LAN Enterprise Services license.

**Examples**   This example shows how to clear policy statistics for RIP:

```
switch# clear bgp policy statistics redistribute rip 201
```

**Related Commands**

| Command | Description |
| --- | --- |
| **show bgp policy statistics** | Displays BGP policy statistics. |

# clear ip bgp

To clear Border Gateway Protocol (BGP) routes from the BGP table, use the **clear ip bgp** command.

**clear ip bgp** {**ipv4** {**unicast** | **multicast**} | **all**} {*neighbor* | **\*** | *as-number* | **peer-template** *name* | *prefix*} [**vrf** *vrf-name* | **all** | **default** | **management**]

**Syntax Description**

| | |
|---|---|
| **ipv4** | (Optional) Clears BGP information for the IPv4 address family. |
| **unicast** | Clears BGP information for the unicast address family. |
| **multicast** | Clears BGP information for the multicast address family. |
| **all** | Clears the BGP information for all address families. |
| *neighbor* | Network address. The format is A.B.C.D for IPv4. |
| **\*** | Clears all BGP routes. |
| *as-number* | Autonomous system (AS) number. The range is from 1 to 65535. |
| **peer-template** *name* | Specifies a BGP peer template. The name can be any case-sensitive, alphanumeric string up to 63 characters. |
| *prefix* | Prefix from the selected address family. The format is A.B.C.D/length for IPv4. |
| **vrf** *vrf-name* | (Optional) Specifies a particular VPN routing and forwarding (VRF) instance. The VRF name can be any case-sensitive, alphanumeric string up to 32 characters. |
| **all** | (Optional) Clears the BGP information from all VRF entries. |
| **default** | (Optional) Clears the BGP information from the default VRF. |
| **management** | (Optional) Clears the BGP information from the management VRF. |

**Command Default**   None

**Command Modes**

| Release | Modification |
|---|---|
| 5.0(3)N1(1) | This command was introduced. |

**Usage Guidelines**   This command requires the LAN Enterprise Services license.

**Examples**   This example shows how to clear all BGP entries for the IPv4 address family:

```
switch# clear ip bgp *
```

# clear ip bgp dampening

To clear Border Gateway Protocol (BGP) route flap dampening information, use the **clear ip bgp dampening** command.

**clear ip bgp** [**ipv4** {**unicast** | **multicast**} | **all**] **dampening** [*neighbor* | *prefix*]
[**vrf** *vrf-name* | **all** | **default** | **management**]

**Syntax Description**

| | |
|---|---|
| **ipv4** | (Optional) Clears BGP information for the IPv4 address family. |
| **unicast** | (Optional) Clears BGP information for the unicast address family. |
| **multicast** | (Optional) Clears BGP information for the multicast address family. |
| **all** | (Optional) Clears the BGP information for all address families. |
| *neighbor* | (Optional) Neighbor from the selected address family. The format is A.B.C.D for IPv4. |
| *prefix* | (Optional) Prefix from the selected address family. The format is A.B.C.D/length for IPv4. |
| **vrf** *vrf-name* | (Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name can be any case-sensitive, alphanumeric string up to 32 characters. |
| **all** | (Optional) Clears the BGP information from all VRF entries. |
| **default** | (Optional) Clears the BGP information from the default VRF. |
| **management** | (Optional) Clears the BGP information from the management VRF. |

**Command Default**    None

**Command Modes**

| Release | Modification |
|---|---|
| 5.0(3)N1(1) | This command was introduced. |

**Usage Guidelines**    This command requires the LAN Enterprise Services license.

**Examples**    This example shows how to clear BGP route flap dampening information:

```
switch# clear ip bgp dampening
```

# clear ip bgp flap-statistics

To clear Border Gateway Protocol (BGP) route flap statistics, use the **clear ip bgp flap-statistics** command.

**clear ip bgp flap-statistics** [*neighbor* | *prefix*] [**vrf** *vrf-name* | **all** | **default** | **management**]

**Syntax Description**

| | |
|---|---|
| *neighbor* | (Optional) Neighbor from the selected address family. The format is A.B.C.D for IPv4. |
| *prefix* | (Optional) Prefix from the selected address family. The format is A.B.C.D/length for IPv4. |
| **vrf** *vrf-name* | (Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name can be any case-sensitive, alphanumeric string up to 32 characters. |
| **all** | (Optional) Clears the BGP information from all VRF entries. |
| **default** | (Optional) Clears the BGP information from the default VRF. |
| **management** | (Optional) Clears the BGP information from the management VRF. |

**Command Default**  None

**Command Modes**

| Release | Modification |
|---|---|
| 5.0(3)N1(1) | This command was introduced. |

**Usage Guidelines**  This command requires the LAN Enterprise Services license.

**Examples**  This example shows how to clear BGP route flap statistics:

```
switch# clear ip bgp flap-statistics
```

# client-to-client reflection

To enable or restore route reflection from a Border Gateway Protocol (BGP) route reflector to clients, use the **client-to-client reflection** command. To disable client-to-client route reflection, use the **no** form of this command.

**client-to-client reflection**

**no client-to-client reflection**

**Syntax Description**     This command has no arguments or keywords.

**Command Default**     Client-to-client route reflection is enabled by default; when a route reflector is configured, the route reflector reflects routes from a client to other clients.

**Command Modes**     Router address-family configuration mode

**Command History**

| Release | Modification |
|---|---|
| 5.0(3)N1(1) | This command was introduced. |

**Usage Guidelines**     By default, the clients of a route reflector are not required to be fully meshed and the routes from a client are reflected to other clients. However, if the clients are fully meshed, route reflection is not required. In this case, use the **no client-to-client reflection** command to disable client-to-client reflection.

**Examples**     This example shows how to configure a router as a route reflector:

```
switch(config)# router bgp 50000
switch(config-router)# address-family ipv4 multicast
switch(config-router-af)# client-to-client reflection
switch(config-router-af)#
```

**Related Commands**

| Command | Description |
|---|---|
| **address-family (BGP router)** | Places the router in address family configuration mode for configuring routing sessions that use standard IPv4 address prefixes. |
| **show ip bgp** | Displays entries in the BGP routing table. |

# confederation

To configure the confederation parameters for the Border Gateway Protocol (BGP), use the **confederation** command.

confederation {**identifier** | **peers**} *as-number*

**Syntax Description**

| | |
|---|---|
| **identifier** | Sets the routing domain confederation autonomous system (AS) number. |
| **peers** | Sets the peer AS numbers for a BGP confederation. |
| *as-number* | Autonomous system number. The AS number can be a 16-bit integer or a 32-bit integer in the form of <higher 16-bit decimal number>.<lower 16-bit decimal number>. |

**Command Default**   None

**Command Modes**

| Release | Modification |
|---|---|
| 5.0(3)N1(1) | This command was introduced. |

**Usage Guidelines**   This command requires the LAN Enterprise Services license.

**Examples**   This example shows how to configure the confederation identifier:

```
switch# configure terminal
switch(config)# router bgp 65536.33
switch(config-router)# confederation identifier 65536.33
```

**Related Commands**

| Command | Description |
|---|---|
| **show bgp** | Displays information about BGP. |