



## C Commands

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

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# 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**

<b>ipv4</b>	Clears the BGP information for the IPv4 address family.
<b>multicast</b>	Clears BGP information for the multicast address family.
<b>unicast</b>	Clears BGP information for the unicast address family.
<b>all</b>	Clears the BGP information for all address families.
<i>neighbor</i>	Network address. The format is A.B.C.D for IPv4.
*	Clears all neighbors.
<i>as-number</i>	Autonomous system number. The range is from 1 to 65535.
<b>peer-template</b> <i>name</i>	Specifies a BGP peer template. The name can be any case-sensitive, alphanumeric string up to 63 characters.
<i>prefix</i>	Prefix from the selected address family. The format is A.B.C.D/length for IPv4.
<b>vrf</b> <i>vrf-name</i>	(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
6.0(2)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 *
```

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

<b>Command Default</b>	None
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<b>Command Modes</b>	Any command mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

<b>Usage Guidelines</b>	This command requires the LAN Enterprise Services license.
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<b>Examples</b>	<p>This example shows how to clear BGP route flap dampening information:</p> <pre>switch# clear bgp all dampening</pre>
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# 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		
<b>ipv4</b>		Clears BGP information for the IPv4 address family.
<b>unicast</b>		Clears BGP information for the unicast address family.
<b>multicast</b>		Clears BGP information for the multicast address family.
<b>all</b>		Clears BGP information for all address families.
<i>neighbor</i>		(Optional) Neighbor from the selected address family. The format is <i>A.B.C.D</i> for IPv4.
<i>prefix</i>		(Optional) Prefix from the selected address family. The format is <i>A.B.C.D/length</i> for IPv4.
<b>vrf</b> <i>vrf-name</i>		(Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name can be any case-sensitive, alphanumeric string up to 32 characters.
<b>all</b>		(Optional) Clears BGP information from all VRFs.
<b>default</b>		(Optional) Clears BGP information from the default VRF.
<b>management</b>		(Optional) Clears BGP information from the management VRF.

<b>Command Default</b>	None
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<b>Command Modes</b>	Any command mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

<b>Usage Guidelines</b>	This command requires the LAN Enterprise Services license.
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<b>Examples</b>	<p>This example shows how to clear BGP route flap statistics:</p> <pre>switch# <b>clear bgp ipv4 multicast flap-statistics</b></pre>
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# 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** }

<b>Syntax Description</b>	<i>prefix</i>	Summary address. The format is <i>x.x.x.x</i> or <i>x.x.x.x/length</i> . The range is from 1 to 32.
	<b>advertise-map</b>	Clears policy statistics for the advertise policy.
	<b>suppress-map</b>	Clears policy statistics for the suppress policy.

<b>Command Default</b>	None
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<b>Command Modes</b>	Any command mode
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

<b>Usage Guidelines</b>	This command requires the LAN Enterprise Services license.
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<b>Examples</b>	This example shows how to clear policy statistics for an aggregate address:  switch# <b>clear bgp policy statistics aggregate-address 192.0.2.0/8</b>
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<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show bgp policy statistics</b>	Displays BGP policy statistics.

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# 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**

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

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**Command Default** None

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**Command Modes** Any command mode

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Release	Modification
6.0(2)N1(1)	This command was introduced.

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

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

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

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Command	Description
show bgp policy statistics	Displays BGP policy statistics.

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# 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	<i>prefix</i>	Neighbor address. The format is x.x.x.x.
	<b>default-originate</b>	(Optional) Clears policy statistics for the default originate policy.
	<b>filter-list</b>	(Optional) Clears policy statistics for the neighbor filter list.
	<b>prefix-list</b>	(Optional) Clears policy statistics for the neighbor prefix list.
	<b>route-map</b>	(Optional) Clears policy statistics for the neighbor route map.
	<b>in</b>	(Optional) Clears inbound policy statistics.
	<b>out</b>	(Optional) Clears outbound policy statistics.

Command Default	None
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Command Modes	Any command mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command requires the LAN Enterprise Services license.
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Examples	This example shows how to clear policy statistics for an aggregate address:  switch# <b>clear bgp policy statistics neighbor 192.0.2.1 filter-list in</b>
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Related Commands	Command	Description
	<b>show bgp policy statistics</b>	Displays BGP policy statistics.

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# 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		
<b>direct</b>		Clears policy statistics for directly connected routes only.
<b>eigrp</b>		Clears policy statistics for Enhanced Interior Gateway Routing Protocol (EIGRP).
<b>ospf</b>		Clears policy statistics for the Open Shortest Path First (OSPF) protocol.
<b>rip</b>		Clears policy statistics for the Routing Information Protocol (RIP).
<b>static</b>		Clears policy statistics for IP static routes.
<i>id</i>		For the <b>eigrp</b> 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 Nexus 6000 stores it internally as a string.  For the <b>ospf</b> 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 Nexus 6000 stores it internally as a string.
<b>vrf</b> <i>vrf-name</i>		(Optional) Specifies a particular virtual routing and forwarding (VRF) instance. The VRF name is an alphanumeric string of up to 32 characters.
<b>all</b>		(Optional) Specifies the “all” VRF instance.
<b>default</b>		(Optional) Specifies the default VRF.
<b>management</b>		(Optional) Specifies the management VRF.

**Command Default** None

**Command Modes** Any command mode

Command History	Release	Modification
	6.0(2)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
```



***Review Draft -- Cisco Confidential*****Related Commands**

Command	Description
show bgp policy statistics	Displays BGP policy statistics.

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

**Command Default** None

**Command Modes** Any command mode

Command History	Release	Modification
	6.0(2)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 *
```

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

<b>Command Default</b>	None
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<b>Command Modes</b>	Any command mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

**Command History**

<b>Usage Guidelines</b>	This command requires the LAN Enterprise Services license.
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<b>Examples</b>	<p>This example shows how to clear BGP route flap dampening information:</p> <pre>switch# clear ip bgp dampening</pre>
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# 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**]

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

**Command Default** None

**Command Modes** Any command mode

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)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
```

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## 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
6.0(2)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
<b>address-family (BGP router)</b>	Places the router in address family configuration mode for configuring routing sessions that use standard IPv4 address prefixes.
<b>show ip bgp</b>	Displays entries in the BGP routing table.

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# confederation

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

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

Syntax Description	<b>identifier</b>	Sets the routing domain confederation autonomous system (AS) number.
	<b>peers</b>	Sets the peer AS numbers for a BGP confederation.
	<i>as-number</i>	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
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Command Modes	Router configuration mode VRF configuration mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command requires the LAN Enterprise Services license.
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Examples	<p>This example shows how to configure the confederation identifier:</p> <pre>switch# <b>configure terminal</b> switch(config)# <b>router bgp 65536.33</b> switch(config-router)# <b>confederation identifier 65536.33</b></pre>
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Related Commands	Command	Description
	<b>show bgp</b>	Displays information about BGP.