

F Commands

This chapter describes the Cisco NX-OS unicast routing commands that begin with the letter F.

feature bgp

To enable the Border Gateway Protocol (BGP), use the **feature bgp** command. To disable BGP, use the **no** form of this command.

feature bgp

no feature bgp

- Defaults Disabled
- **Command Modes** Global configuration.
- SupportedUseiRoles network-admin vdc-admin

Command History	Release	Modified
	4.0(1)	This command was introduced.

Usage Guidelines You must enable the BGP feature before you can configure BGP.

This command requires the Enterprise Services license.

ExamplesThis example shows how to enable a BGP configuration:
switch(config)# feature bgp

Related Commands	Command Description		
show bgp Disp		Displays BGP configuration information.	
	router bgp	Creates a BGP instance.	

feature eigrp

To enable the Enhanced Interior Gateway Protocol (EIGRP), use the **feature eigrp** command. To disable EIGRP, use the **no** form of this command.

feature eigrp

no feature eigrp

Syntax Description This command has no arguments or key	words.
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- Defaults Disabled
- Command Modes Global configuration
- SupportedUserRoles network-admin vdc-admin

Command History	Release	Modified
	4.0(1)	This command was introduced.

Usage Guidelines You must enable the EIGRP feature before you can configure EIGRP.

This command requires the Enterprise Services license.

ExamplesThis example shows how to enable the EIGRP feature:
switch(config)# feature eigrp

Related Commands	Command	Description
show {ip ipv6} eigrp		Displays EIGRP configuration information.
router eigrp Creates a EIGRP instance.		Creates a EIGRP instance.

feature glbp

To enable the Gateway Load Balancing Protocol (GLBP), use the **feature glbp** command. To disable GLBP, use the **no** form of this command.

feature glbp

no feature glbp

Syntax Description	This command has n	no arguments	or keywords.
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- Defaults Disabled
- Command Modes Global configuration
- SupportedUserRoles network-admin vdc-admin
- Command History
 Release
 Modification

 4.0(1)
 This command was introduced.

Usage GuidelinesYou must globally enable GLBP before you can configure any GLBP options or create a GLBP group.This command does not require a license.

Examples This example shows how to enable GLBP: switch(config)# feature glbp

Related Commands	Command	Description
	authentication	Configures an authentication string for the GLBP group.
	forwarder preempt	Configures a gateway to take over as AVF for a GLBP group if it has a higher priority than the current AVF.
	ip (GLBP)	Activates the GLBP group.
	load-balancing	Specifies the load-balancing method used by the AVG of GLBP.
	preempt	Configures the gateway to take over as AVG for a GLBP group if it has a higher priority than the current AVG.
	priority	Sets the priority level of the gateway within a GLBP group.
	show glbp	Displays GLBP information.

Command	Description	
timers	Configures the time between hello packets sent by the GLBP gateway and the time for which the virtual gateway and virtual forwarder information is considered valid.	
timers redirect	Configures the time during which the AVG for a GLBP group continues to redirect clients to a secondary AVF.	
track	Configures an interface to be tracked where the GLBP weighting changes are based on the state of the interface.	
weighting	Specifies the initial weighting value of the GLBP gateway.	
weighting track	Specifies a tracking object where the GLBP weighting changes are based on the availability of the object being tracked.	

feature hsrp

To enter Hot Standby Router Protocol (HSRP) configuration mode and enable HSRP, use the **feature hsrp** command. To disable HSRP, use the **no** form of this command.

feature hsrp

no feature hsrp

- Defaults Disabled
- Command Modes Global configuration
- SupportedUserRoles network-admin vdc-admin
- Command History
 Release
 Modification

 4.0(1)
 This command was introduced.

Usage Guidelines Use the **feature hsrp** command to enter HSRP configuration mode and enable HSRP.

This command does not require a license.

Examples This example shows how to enable HSRP on Ethernet interface 1/1: switch# config t switch(config)# feature hsrp switch(config-hsrp)#

Related Commands	Command	mand Description	
hsrp group Creates a		Creates and activates an HSRP group.	
	show hsrpDisplays HSRP information.		

feature imp

To enable the authentication package for Open Short Path First version 3 (OSPFv3) packets, use the **feature imp** command. To disable the authentication package, use the **no** form of this command.

feature imp

no feature imp

Syntax Description	The command has no	arguments or keywords.
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- Defaults Disabled
- **Command Modes** Global configuration
- SupportedUserRoles network-admin vdc-admin

 Release
 Modification

 7.3(1)D1(1)
 This command was introduced.

Usage Guidelines This command does not require a license.

 Examples
 This example shows how to enable authentication package:

 switch# config terminal

switch(config) # feature imp
switch(config) #

feature isis

To enable the Intermediate System to Intermediate System Protocol (IS-IS), use the **feature isis** command. To disable ISIS, use the **no** form of this command.

feature isis

no feature isis

Syntax Description	This command has a	no arguments or	keywords.
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- Defaults Disabled
- Command Modes Global configuration
- SupportedUserRoles network-admin vdc-admin

Command History	Release	Modified	
4.0(1)		This command was introduced.	

Usage Guidelines You must enable the IS-IS feature before you can configure IS-IS.

- This command requires the Enterprise Services license.
- ExamplesThis example shows how to enable the IS-IS feature:
switch(config)# feature isis

Related Commands	Command	Description	
show isis		Displays IS-IS configuration information.	
	router isis	Creates an IS-IS instance.	

feature ospf

To enable the Open Shortest Path First Protocol (OSPF), use the **feature ospf** command. To disable OSPF, use the **no** form of this command.

feature ospf

no feature ospf

- Defaults Disabled
- **Command Modes** Global configuration
- SupportedUserRoles network-admin vdc-admin

Command History	Release	Modified	
	4.0(1)	This command was introduced.	

Usage Guidelines You must enable the OSPF feature before you can configure OSPF.

This command requires the Enterprise Services license.

ExamplesThis example shows how to enable the OSPF feature:
switch(config)# feature ospf

Related Commands	s Command Description		
show ospf		Displays OSPF configuration information.	
	router ospf	Creates an OSPF instance.	

feature ospfv3

To enable the Open Shortest Path First version 3 Protocol (OSPFv3), use the **feature ospfv3** command. To disable OSPFv3, use the **no** form of this command.

feature ospfv3

no feature ospfv3

Syntax Description	This command ha	as no arguments of	r keywords.
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- Defaults Disabled
- **Command Modes** Global configuration
- SupportedUseiRoles network-admin vdc-admin
- Command HistoryReleaseModified4.0(1)This command was introduced.
- **Usage Guidelines** You must enable the OSPFv3 feature before you can configure OSPFv3.
 - This command requires the Enterprise Services license.
- ExamplesThis example shows how to enable the OSPv3 feature:
switch(config)# feature ospfv3

Related Commands	ds Command Description		
show ospfv3		Displays OSPFv3 configuration information.	
	router ospfv3	Creates an OSPFv3 instance.	

feature pbr

To enable the policy-based routing (PBR) feature, use the **feature pbr** command. To disable PBR, use the **no** form of this command.

feature pbr

no feature pbr

- Defaults Disabled
- Command Modes Global configuration
- SupportedUserRoles network-admin vdc-admin
- Command History
 Release
 Modified

 4.0(1)
 This command was introduced.

Usage GuidelinesYou must enable the PBR feature before you can configure policy-based routing.This command requires the Enterprise Services license.

Examples This example shows how to enable the PBR feature: switch(config)# feature pbr

Related Commands	Command	Description
ip policy route-map		Assigns a policy-based route map to an interface.
	show ip policy	Displays information about policy-based routing.

feature rip

To enable the Routing Information Protocol (RIP), use the **feature rip** command. To disable RIP, use the **no** form of this command.

feature rip

no feature rip

- Syntax Description This command has no arguments or keywords.
- Defaults Disabled
- Command Modes Global configuration
- SupportedUserRoles network-admin vdc-admin
- Command History
 Release
 Modified

 4.0(1)
 This command was introduced.
- Usage GuidelinesYou must enable the RIP feature before you can configure RIP.This command does not require a license.
- ExamplesThis example shows how to enable the RIP feature:
switch(config)# feature rip

Related Commands	Command	mmand Description	
	show rip	Displays RIP configuration information.	
	router rip	Creates a RIP instance.	

feature vrrp

To enable the Virtual Router Redundancy Protocol (VRRP), use the **feature vrrp** command. To disable VRRP, use the **no** form of this command.

feature vrrp

no feature vrrp

Syntax Description	This command has	no arguments	or keywords.
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- Defaults Disabled
- **Command Modes** Global configuration
- SupportedUserRoles network-admin vdc-admin
- Command History
 Release
 Modified

 4.0(1)
 This command was introduced.
- **Usage Guidelines** You must enable the VRRP feature before you can configure VRRP.
 - This command does not require a license.
- ExamplesThis example shows how to enable the VRRP feature:
switch(config)# feature vrrp

Related Commands	Command	Description
	show vrrp	Displays VRRP configuration information.
	clear vrrp	Clears all the software counters for the specified virtual router.

feature vrrpv3

To enable Virtual Router Redundancy Protocol (VRRP) version 3 and Virtual Router Redundancy Service (VRRS), use the **feature vrrpv3** command. To disable VRRPv3 and VRRS in a VDC, use the **no** form of this command.

feature vrrpv3

no feature vrrpv3

Syntax Description	This command has no arguments or keywords.	
Defaults	Disabled	
Command Modes	Global configuration mode	
SupportedUserRoles	network-admin vdc-admin	
Command History	Release Mo	odification
	6.2(2) Th	is command was introduced.
Usage Guidelines	If VRRPv2 is configured, use the no feature vrrp command in global configuration mode to remove the VRRPv2 configuration and then use the feature vrrpv3 command to enable VRRPv3. This command requires the Enterprise Services license.	
Examples	This example shows how to enable VRRPv3 and VRRS: switch# configure terminal switch(config)# feature vrrpv3 switch(config)# This example shows how to disable VRRPv3 and VRRS: switch(config)# no feature vrrpv3	
Related Commands	Command	Description
	vrrpv3 address-family	Creates a VRRPv3 group and enters VRRPv3 group configuration mode.

feature wccp

To enable the Web Cache Communication Protocol (WCCP), use the **feature wccp** command. To disable WCCP, use the **no** form of this command.

feature wccp

no feature wccp

Syntax Description	This command l	has no arguments	or keywords.
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- Defaults Disabled
- Command Modes Global configuration
- SupportedUseiRoles network-admin vdc-admin

 Command History
 Release
 Modified

 4.2(1)
 This command was introduced.

Usage Guidelines You must enable the WCCP feature before you can configure WCCPv2.

This command does not require a license.

Examples This example shows how to enable the WCCP feature:

<pre>switch(config)# feature wccp switch(config)# show ip wccp Global WCCP information:</pre>	
Router information:	
Router Identifier:	20.20.20.2
Protocol Version:	2.0

Related Commands	Command	Description
	clear ip wccp	Clears all the software counters for WCCPv2.
	show running-config wccp	Displays the WCCPv2 configuration.
	show ip wccp	Displays the status of the WCCP service group.

flush-routes (OSPF)

To flush routes on a nongraceful controlled restart for the Open Shortest Path First (OSPF) protocol, use the **flush-routes** command. To disable this feature, use the **no** form of this command.

flush-routes

no flush-routes

Syntax Description	None	
Defaults	Disabled	
Command Modes	Router configuration	
SupportedUseiRoles	network-admin vdc-admin	
Command History	Release	Modification
·	4.0(1)	This command was introduced.
Usage Guidelines	This commands causes RIB removes all the ro command, OSPF will r removed from the unic mode, the routes will b	command when the OSPF Graceful Restart feature is not enabled. Is OSPF to unregister from the unicast RIB when OSPF shuts down. The unicast utes associated with this OSPF instance. If you do not configure the flush-routes not unregister and the OSPF routes will be stale. The OSPF routs are eventually east RIB after a timeout period. If OSPF comes back up in p in graceful restart be refreshed in the unicast RIB. Is the Enterprise Services license.
Examples	This example shows how to flush routes for a nongraceful restart: switch(config)# router ospf 202 switch(config-router)# flush-routes	
Related Commands	Command	Description
	graceful-restart	Enables OSPF Graceful Restart.

flush-routes (OSPFv3)

To flush routes on a nongraceful controlled restart for the Open Shortest Path First version 3 (OSPFv3) protocol, use the **flush-routes** command. To disable this feature, use the **no** form of this command.

flush-routes

no flush-routes

Syntax Description	None	
Defaults	Disabled	
Command Modes	Router configuration	
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This commands causes (RIB removes all the rou command, OSPFv3 will eventually removed from graceful restart mode, th	ommand when the OSPFv3 Graceful Restart feature is not enabled. OSPF to unregister from the unicast RIB when OSPFv3 shuts down. The unicast tes associated with this OSPF instance. If you do not configure the flush-routes not unregister and the OSPFv3 routes will be stale. The OSPFv3 routs are n the unicast RIB after a timeout period. If OSPFv3 comes back up in p in the routes will be refreshed in the unicast RIB. the Enterprise Services license.
Examples	This example shows how to flush routes for a nongraceful restart: switch(config)# router ospfv3 202 switch(config-router)# flush-routes	
Related Commands	Command	Description
	graceful-restart	Enables OSPFv3 graceful restart.

follow

To configure a regular Hot Standby Redundancy Protocol (HSRP) group as a slave group, use the **follow** command. To return the slave group to a regular HSRP group, use the **no** form of this command.

follow master-group

no follow master-group

Syntax Description	master-group	Master group.
Defaults	None	
Command Modes	config-if-hsrp mode	
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	6.2(2)	This command was introduced.
Usage Guidelines	IP address without no Slave groups may fo	P group as a slave group clears the group's other configurations, such as its virtual otification, so you must enter the follow command before you enter the ip command. orward reference master group names that are undefined.
Examples	<pre>switch# configure switch(config)# ir switch(config-if)# switch(config-if)# switch(config-if)# switch(config-if)# switch(config-if-h</pre>	<pre>aterface ethernet 3/5 ip address 11.0.0.1/24 hsrp version 2 hsrp mac-refresh 90 hsrp 10 nsrp)# name Master-Group-1 nsrp)# follow Master-Group-1</pre>
	This example shows	how to remove a regular HSRP group from a slave group:

switch(config-if-hsrp)# no follow Master-Group-1

Related Commands	Command	Description
	hsrp	Creates an HSRP group and enters HSRP configuration mode.

forwarder preempt

To configure a gateway to take over as the active virtual forwarder (AVF) for a Gateway Load Balancing Protocol (GLBP) group if the current AVF falls below its low weighting threshold, use the **forwarder preempt** command. To disable this function, use the **no** form of this command.

forwarder preempt [delay minimum seconds]

no forwarder preempt [delay minimum seconds]

Syntax Description	delay minimum seconds	(Optional) Specifies a minimum number of seconds that the gateway delays before taking over the role of AVF. The range is from 0 to 3600 seconds with a default delay of 30 seconds.
Defaults	Forwarder preemptic	on is enabled with a default delay of 30 seconds.
Command Modes	GLBP configuration	
SupportedUserRoles	network-admin vdc-admin	
Command History	Release 4.0(1)	Modification This command was introduced.
Usage Guidelines	This command does	not require a license.
Examples	-	how to configure a gateway to preempt the current AVF when the current AVF falls ing threshold. If the gateway preempts the current AVF, it waits 60 seconds before of the AVF.
	switch(config-if)#	terface ethernet 1/1 glbp 2)# forwarder preempt delay minimum 60
Related Commands	Command	Description
	glbp	Enters GLBP configuration mode and creates a GLBP group.