

S Commands

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

send-community

To send the Border Gateway Protocol (BGP) community attribute to a peer, use the **send-community** command. To revert to the defaults, use the **no** form of this command.

send-community [extended]

no send-community [extended]

Syntax Description	extended	(Optional) Specifies the BGP extended community.
Command Default	No community att	ributes are sent to the peer.
Command Modes	BGP neighbor add	lress-family configuration mode
Command History	Release	Modification
	5.0(3)N1(1)	This command was introduced.
Usage Guidelines	command.	is command, you must configure BGP communities using the set community quires the LAN Enterprise Services license.
Examples	This example show 192.168.1.3:	ws how to configure the router to send the community attribute to the neighbor
	<pre>switch# configur switch(config)# switch(config-ro switch(config-ro switch(config-ro</pre>	
Related Commands	Command	Description
	set community	Defines the BGP community attributes.

Displays the BGP configuration information.

show ip bgp

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set as-path

To modify an autonomous system path (as-path) for BGP routes, use the **set as-path** command. To not modify the autonomous system (AS) path, use the **no** form of this command.

set as-path {tag | {prepend as-num[...as-num] | last-as num}}

no as-path {**tag** | {**prepend** *as-num*[...*as-num*] | **last-as** *num*}}

Syntax Description	tag	Converts the tag of a route into an autonomous system path. Applies only when redistributing routes into Border Gateway Protocol (BGP).
	prepend as-num	Appends the specified AS number to the autonomous system path of the route that is matched by the route map. Applies to both inbound and outbound BGP route maps. Range: 1 to 65535. You can configure more than on AS number.
	last-as num	Prepends the last AS numbers to the as-path. Range: 1 to 10.
Command Default	Autonomous system	n path is not modified.
Command Modes	-	
	Release 5.0(3)N1(1)	Modification This command was introduced.
Usage Guidelines	The only global BG length. By varying t selection by a peer t By allowing you to command modifies prepend an arbitrary	te-map configuration mode, you can enter the set command. P metric available to influence the best path selection is the autonomous system path he length of the autonomous system path, a BGP speaker can influence the best-path further away. convert the tag into an autonomous system path, the set as-path tag variation of this the autonomous system length. The set as-path prepend variation allows you to y autonomous system path string to BGP routes. Usually, the local autonomous repended multiple times, increasing the autonomous system path length.
Examples	<pre>switch(config)# r switch(config-rou This example shows switch(config)# r switch(config-rou</pre>	te-map)# set as-path tag s how to prepend 100 to all the routes advertised to 10.108.1.1:
	switch(config)# r switch(config-rou	outer bgp 64496 ter)# neighbor 10.108.1.1 remote-as 64497

switch(config-router-neighbor)# address-family ipv4 unicast
switch(config-router-neighbor-af)# route-map set-as-path test1 out

Related Com	mands
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Command	Description
match as-path	Matches a BGP autonomous system path access list.
match community	Matches a BGP community.
match ip next-hop	Redistributes any routes that have a next-hop router address passed by one of the access lists specified.
match ip route-source	Redistributes routes that have been advertised by routers and access servers at the address specified by the access lists.
match metric	Redistributes routes with the metric specified.
match tag	Redistributes routes in the routing table that match the specified tags.
route-map (IP)	Defines the conditions for redistributing routes from one routing protocol into another.
set as-path	Modifies an autonomous system path for BGP routes.
set community	Sets the BGP communities attribute.
set level	Indicates where to import routes.
set local-preference	Specifies a preference value for the autonomous system path.
set metric	Sets the metric value for a routing protocol.
set metric-type	Sets the metric type for the destination routing protocol.
set next-hop	Specifies the address of the next hop.
set tag	Sets a tag value of the destination routing protocol.
set weight	Specifies the BGP weight for the routing table.

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set comm-list delete

To remove communities from the community attribute of an inbound or outbound update, use the **set comm-list delete** command. To remove a previous **set comm-list delete** command, use the **no** form of this command.

set comm-list community-list-name delete

no set comm-list

Syntax Description	community-list-name	Standard or expanded community list name. The name is any alphanumeric string up to 63 characters.
Command Default	No communities are rem	noved.
Command Modes		
	Release	Modification
	5.0(3)N1(1)	This command was introduced.
Usage Guidelines	inbound or outbound up Depending upon whether community that passes t	iguration command removes communities from the community attribute of an date using a route map to filter and determine the communities to be deleted. If the route map is applied to the inbound or outbound update for a neighbor, each the route map permit clause and matches the given community list is removed ribute being received from or sent to the Border Gateway Protocol (BGP)
	comm-list delete comm	community list should list only one community when used with the set and. For example, in order to be able to delete communities 10:10 and 10:20, ing format to create the entries:
	switch(config)# ip co	mmunity-list 500 permit 10:10 mmunity-list 500 permit 10:20
	The following format for comm-list delete comm	r a community list entry, while acceptable otherwise, does not work with the set and:
	<pre>switch(config)# ip con</pre>	mmunity-list 500 permit 10:10 10:20
	in the same sequence of a	nunity <i>community-number</i> and set comm-list delete commands are configured a route map attribute, the deletion operation (set comm-list delete) is performed (set community <i>community-number</i>).
Examples	This example shows how outbound update:	v to remove communities from the community attribute of an inbound or
	<pre>switch(config)# route switch(config-route-m switch(config-route-m</pre>	-

Related Commands

Command	Description
match as-path	Matches a BGP autonomous system path access list.
match community	Matches a BGP community.
match ip next-hop	Redistributes any routes that have a next-hop router address passed by one of the access lists specified.
match ip route-source	Redistributes routes that have been advertised by routers and access servers at the address specified by the access lists.
match metric	Redistributes routes with the metric specified.
match tag	Redistributes routes in the routing table that match the specified tags.
route-map (IP)	Defines the conditions for redistributing routes from one routing protocol into another.
set as-path	Modifies an autonomous system path for BGP routes.
set community	Sets the BGP communities attribute.
set level	Indicates where to import routes.
set local-preference	Specifies a preference value for the autonomous system path.
set metric	Sets the metric value for a routing protocol.
set metric-type	Sets the metric type for the destination routing protocol.
set next-hop	Specifies the address of the next hop.
set tag	Sets a tag value of the destination routing protocol.
set weight	Specifies the BGP weight for the routing table.

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set community

To set the Border Gateway Protocol (BGP) communities attribute, use the **set community** command. To delete the entry, use the **no** form of this command.

set community {none | {aa:nn [...aa:nn] | additive | local-as | no-advertise | no-export}}

no set community {**none** | {*aa:nn* | **additive** | **local-as** | **no-advertise** | **no-export**}}

Syntax Description	none	Specifies the no community attribute.
		You cannot configure any other keyword if you configure the none keyword.
	aa:nn	Autonomous system (AS) number and network number entered in the 4-byte new community format. This value is configured with two 2-byte numbers separated by a colon. A number from 1 to 65535 can be entered as each 2-byte number. A single community can be entered or multiple communities can be entered, each separated by a space.
		You can configure one or more AS numbers.
		You can configure one or more keywords.
	additive	Adds to existing community.
		You can configure one or more keywords.
	local-as	Specifies the local-as community (well-known community). Routes with community are advertised to only peers that are part of the local autonomous system or to only peers within a subautonomous system of a confederation. These routes are not advertised to external peers or to other subautonomous systems within a confederation.
		You can configure one or more keywords.
	no-advertise	Specifies the no-advertise community (well-known community). Routes with this community are not advertised to any peer (internal or external).
		You can configure one or more keywords.
	no-export	Specifies the no-export community (well-known community). Routes with this community are advertised to only peers in the same autonomous system or to only other subautonomous systems within a confederation. These routes are not advertised to external peers.
		You can configure one or more keywords.

Command Default No BGP communities attributes exist.

Command Modes

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

Usage Guidelines	You must have a match clause (even if it points to a "permit everything" list) if you want to set tags.
	Use the route-map global configuration command and the match and set route map configuration commands to define the conditions for redistributing routes from one routing protocol into another. Each route-map command has a list of match and set commands associated with it. The match commands specify the match criteria—the conditions under which redistribution is allowed for the current route-map command. The set commands specify the set actions—the particular redistribution actions to perform if the criteria enforced by the match commands are met. The no route-map command deletes the route map.
	The set route map configuration commands specify the redistribution set actions to be performed when all of the match criteria of a route map are met. When all match criteria are met, all set actions are performed.
Examples	This example shows how to configure the routes that pass the autonomous system path access list 1 to have the community set to 109:02 and 33:40. Routes that pass the autonomous system path access list 2 have the community set to no-export (these routes are not advertised to any external BGP [eBGP] peers).
	<pre>switch(config)# route-map test1 10 permit switch(config-route-map)# match as-path 1 switch(config-route-map)# set community 109:02 33:40 switch(config-route-map)# exit switch(config)# route-map test1 20 permit switch(config-route-map)# match as-path 2 switch(config-route-map)# set community no-export</pre>
	This example shows how to configure the routes that pass the autonomous system path access list 1 to have the community set to 109:30. Routes that pass the autonomous system path access list 2 have the community set to local-as (the router does not advertise this route to peers outside the local autonomous system.
	<pre>switch(config)# route-map test1 10 permit switch(config-route-map)# match as-path 1 switch(config-route-map)# set community 109:30 additive switch(config-route-map)# exit switch(config)# route-map test1 20 permit switch(config-route-map)# match as-path 2 switch(config-route-map)# set community local-as</pre>
Related Commands	Command Description

Related Commands	Command	Description
	ip community-list	Creates a community list for BGP and control access to it.
	match community	Matches a BGP community.
	route-map (IP)	Defines the conditions for redistributing routes from one routing protocol into another.
	set comm-list delete	Removes communities from the community attribute of an inbound or outbound update.
	show ip bgp community	Displays routes that belong to specified BGP communities.

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set dampening

To set the Border Gateway Protocol (BGP) route dampening factors, use the **set dampening** command. To disable this function, use the **no** form of this command.

set dampening half-life reuse suppress max-suppress-time

no set dampening

Syntax Description	half-life	Time (in minutes) after which a penalty is decreased. Once the route has been assigned a penalty, the penalty is decreased by half after the half life period (which is 15 minutes by default). The process of reducing the penalty occurs every 5 seconds. The range is from 1 to 45, and the default is 15.
	reuse	Route that is unsuppressed if the penalty for a flapping route decreases enough to fall below this value. The process of unsuppressing routes occurs at 10-second increments. Range: 1 to 20000. Default: 750.
	suppress	Route that is suppressed when its penalty exceeds this limit. The range is from 1 to 20000, and the default is 2000.
	max-suppress-time	Maximum time (in minutes) that a route can be suppressed. The range is from 1 to 255, and the default is four times the <i>half-life</i> value. If the default <i>half-life</i> value is used, the maximum suppress time defaults to 60 minutes.
Command Default	Disabled	
Command Modes	Release	Modification
	5.0(3)N1(1)	This command was introduced.
Usage Guidelines	commands to define the route-map command specify the match criter route-map command. to perform if the criter the route map.	obal configuration command and the match and set route-map configuration the conditions for redistributing routes from one routing protocol into another. Each has a list of match and set commands associated with it. The match commands the conditions under which redistribution is allowed for the current The set commands specify the set actions—the particular redistribution actions is enforced by the match commands are met. The no route-map command deletes
	-	eset, the route is withdrawn and the flap statistics cleared. In this instance, the neur a penalty even though route flap dampening is enabled.
Examples	This example sets the the maximum suppres	half life to 30 minutes, the reuse value to 1500, the suppress value to 10000, and s time to 120 minutes:
		te-map test1 10 permit -map)# set dampening 30 1500 10000 120

Related Commands

Command	Description
match as-path	Matches a BGP autonomous system path access list.
match community	Matches a BGP community.
match ip next-hop	Redistributes any routes that have a next-hop router address passed by one of the access lists specified.
match ip route-source	Redistributes routes that have been advertised by routers and access servers at the address specified by the access lists.
match metric	Redistributes routes with the metric specified.
match tag	Redistributes routes in the routing table that match the specified tags.
route-map (IP)	Defines the conditions for redistributing routes from one routing protocol into another.
set as-path	Modifies an autonomous system path for BGP routes.
set community	Sets the BGP communities attribute.
set level	Indicates where to import routes.
set local-preference	Specifies a preference value for the autonomous system path.
set metric	Sets the metric value for a routing protocol.
set metric-type	Sets the metric type for the destination routing protocol.
set next-hop	Specifies the address of the next hop.
set tag	Sets a tag value of the destination routing protocol.
set weight	Specifies the BGP weight for the routing table.

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set etxcommunity

To set the Border Gateway Protocol (BGP) extended communities attribute, use the **set extcommunity** command. To delete the entry, use the **no** form of this command.

set extcommunity {none | {generic {transitive | nontransitive} aa4:nn [...aa4:nn] } | additive}

no set extcommunity {none | {generic {transitive | nontransitive} aa4:nn [...aa4:nn] } | additive}

Syntax Description	none	Specifies the no community attribute.	
	generic	Specifies the generic specific extended community type.	
	transitive	Configures BGP to propagate the extended community attributes to other autonomous systems.	
	nontransitive	Configures BGP to propagate the extended community attributes to other autonomous systems.	
	aa4 : nn	Autonomous system number and network number. This value is configured with a 4-byte AS number and a 2-byte network number separated by a colon. The 4-byte AS number range is from 1 to 4294967295 in plaintext notation, or from 1.0 to 56636.65535 in AS.dot notation. You can enter a single community or multiple communities, each separated by a space.	
	additive	Adds to existing community.	
Command Default	No BGP communiti	es attributes exist.	
Command Modes			
	Release	Modification	
	5.0(3)N1(1)	This command was introduced.	
Usage Guidelines	Use the set extcommunity command in a route map to set the extended community attribute in a BGP route.		
	You must have a match clause in a route map (even if it points to a "permit everything" list) if you want to use set commands.		
	The set commands specify the set actions to be performed when all of the match criteria of a route map are met. When all match criteria are met, all set actions are performed.		
Examples	This example shows how to configure a route map that sets the extended community to 1.5:		
	<pre>switch(config)# route-map test1 10 permit switch(config-route-map)# match as-path 1 switch(config-route-map)# set extcommunity generic transitive 1.5 switch(config-route-map)# exit</pre>		

Related Commands	Command	Description
	ip extcommunity-list	Creates a community list for BGP and controls access to it.
	match extcommunity	Matches an extended community in a route map.
	route-map	Defines the conditions for redistributing routes from one routing protocol into another.
	send-community	Configures BGP to propagate community attributes to BGP peers.

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set extcomm-list delete

To remove extended communities from the extended community attribute of an inbound or outbound Border Gateway Protocol (BGP) update, use the **set extcomm-list delete** command. To remove a previous **set extcomm-list delete** command, use the **no** form of this command.

set extcomm-list community-list-name delete

no set extcomm-list

Syntax Description	community-list-name	Standard or expanded extended community list name. The name is any alphanumeric string up to 63 characters.	
Command Default	No communities are ren	noved.	
Command Modes			
	Release	Modification	
	5.0(3)N1(1)	This command was introduced.	
Usage Guidelines	Use the set extcomm-list delete command in a route map to delete the extended community attribute in a BGP route.		
	You must have a match clause in a route map (even if it points to a "permit everything" list) if you want to use set commands.		
	The set commands specify the set actions to be performed when all of the match criteria of a route map are met. When all match criteria are met, all set actions are performed.		
	When you configure both the set extcommunity <i>community-number</i> and set ext comm-list delete commands in the same sequence of a route map attribute, the deletion operation (set extcomm-list delete) is performed before the set operation (set extcommunity <i>community-number</i>).		
Examples	This example shows how inbound or outbound up	w to remove extended communities from the extended community attribute of an odate:	
	<pre>switch# configure terminal switch(config)# route-map test1 switch(config-route-map)# match as-path 1 switch(config-route-map)# set extcomm-list list1 delete switch(config-route-map)#</pre>		
Related Commands	Command	Description	
	match as-path	Matches a BGP autonomous system path access list.	
	match extcommunity	Matches a BGP extended community.	

Command	Description
set extcommunity	Sets the BGP extended communities attribute.
show route-map	Displays information about a route map.

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set local-preference

To specify a preference value for the autonomous system path, use the **set local-preference** command. To delete an entry, use the **no** form of this command.

set local-preference *number-value*

no set local-preference number-value

Syntax Description	number-value	Preference value. Range: 0 to 4294967295. Default: 100.	
Command Default	Preference value of 10	00 by default.	
Command Modes			
	Release	Modification	
	5.0(3)N1(1)	This command was introduced.	
Usage Guidelines	The preference is sent	only to all routers in the local autonomous system.	
	You must have a match	h clause (even if it points to a "permit everything" list) if you want to set tags.	
	Use the route-map global configuration command and the match and set route-map configuration commands to define the conditions for redistributing routes from one routing protocol into another. Each route-map command has a list of match and set commands associated with it. The match commands specify the match criteria—the conditions under which redistribution is allowed for the current route-map command. The set commands specify the set actions—the particular redistribution actions to perform if the criteria enforced by the match commands are met. The no route-map command deletes the route map.		
	-	figuration commands specify the redistribution set actions to be performed when of a route map are met. When all match criteria are met, all set actions are	
	You can change the de	fault preference value with the bgp default local-preference command.	
Examples	<pre>switch# configure to switch(config)# rout switch(config-route: switch(config-route)</pre>	te-map test1 r)# route-map map-preference -map)# match as-path 1 -map)# set local-preference 100	

Related	Commands
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Command	Description
match as-path	Matches a BGP autonomous system path access list.
route-map	Defines the conditions for redistributing routes from one routing protocol into another.
show route-map	Displays information about a route map.

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set metric

To set the metric value for a routing protocol, use the **set metric** command. To return to the default metric value, use the **no** form of this command.

set metric [+ | -] bandwidth-metric

set metric bandwidth-metric [delay-metric reliability-metric load-metric mtu]

no set metric

+ - bandwidth-metric delay-metric reliability-metric load-metric mtu	 (Optional) Adds to the existing delay metric value. (Optional) Subtracts from the existing delay metric value. Interior Gateway Routing Protocol (IGRP) bandwith metric, in Kb/s. The range is from 0 to 4294967295. (Optional) Interior Gateway Routing Protocol (IGRP) delay metric, in 10 microsecond units. The range is from 1 to 4294967295. (Optional) IGRP reliability metric. The range is from 0 to 255. (Optional) IGRP load metric. The range is from 1 to 255. 	
delay-metric reliability-metric load-metric	 Interior Gateway Routing Protocol (IGRP) bandwith metric, in Kb/s. The range is from 0 to 4294967295. (Optional) Interior Gateway Routing Protocol (IGRP) delay metric, in 10 microsecond units. The range is from 1 to 4294967295. (Optional) IGRP reliability metric. The range is from 0 to 255. (Optional) IGRP load metric. The range is from 1 to 255. 	
delay-metric reliability-metric load-metric	 is from 0 to 4294967295. (Optional) Interior Gateway Routing Protocol (IGRP) delay metric, in 10 microsecond units. The range is from 1 to 4294967295. (Optional) IGRP reliability metric. The range is from 0 to 255. (Optional) IGRP load metric. The range is from 1 to 255. 	
reliability-metric load-metric	microsecond units. The range is from 1 to 4294967295.(Optional) IGRP reliability metric. The range is from 0 to 255.(Optional) IGRP load metric. The range is from 1 to 255.	
load-metric	(Optional) IGRP load metric. The range is from 1 to 255.	
mtu		
	(Optional) IGRP maximum transmission unit (MTU) of the path. The range is from 1 to 4294967295.	
None		
Release	Modification	
5.0(3)N1(1)	This command was introduced.	
Use the set metric command to modify the IGRP metric values. We recommend that you consult your Cisco technical support representative before changing the default value.		
When you confiture the <i>reliability-metric</i> and the <i>load-metric</i> arguments, 255 means 100 percent reliability.		
Use the + or - keywords to modify the existing delay metric value. You can modify only the delay metric with these keywords.		
Use the route-map global configuration command and the match and set route-map configuration command to define the conditions for redistributing routes from one routing protocol into another. Each route-map command has a list of match and set commands associated with it. The match commands specify the match criteria—the conditions under which redistribution is allowed for the current		
	Release 5.0(3)N1(1) Use the set metric of We recommend that value. When you confiture reliability. Use the + or - keywork with these keywords Use the route-map command to define to route-map command to define to route-map command	

route-map command. The **set** commands specify the set actions—the particular redistribution actions to perform if the criteria enforced by the **match** commands are met. The **no route-map** command deletes the route map.

The **set** route-map configuration commands specify the redistribution set actions to be performed when all the match criteria of a route map are met. When all match criteria are met, all set actions are performed.

Examples

This example shows how to set the bandwith metric value for the routing protocol to 100:

```
switch# configure terminal
switch(config)# route-map set-metric
switch(config-route-map)# set metric 100
switch(config-route-map)#
```

This example shows how to increase the bandwith metric value for the routing protocol by 100:

```
switch# configure terminal
switch(config)# route-map set-metric
switch(config-route-map)# set metric +100
switch(config-route-map)#
```

Command	Description	
route-map	Defines the conditions for redistributing routes from one routing protocol into another.	
show route-map	Displays information about a route map.	

set metric-type

To set the metric type for the destination routing protocol, use the **set metric-type** command. To return to the default, use the **no** form of this command.

set metric-type {internal | type-1 | type-2}

switch(config) # route-map map-type

switch(config-route-map)#

switch(config-route-map)# set metric-type type-1

no set metric-type {internal | type-1 | type-2}

Syntax Description	internal	Specifies the Interior Gateway Protocol (IGP) metric as the multi-exit discriminator (MED) for BGP.	
	type-1	Specifies the Open Shortest Path First (OSPF) external Type 1 metric.	
	type-2	Specifies the OSPF external Type 2 metric.	
Command Default	This command is disabled by default.		
Command Modes			
	Release	Modification	
	5.0(3)N1(1)	This command was introduced.	
	route-map command has a list of match and set commands associated with it. The match commands specify the match criteria—the conditions under which redistribution is allowed for the current route-map command. The set commands specify the set actions—the particular redistribution actions to perform if the criteria enforced by the match commands are met. The no route-map command deletes the route map.		
•	The set route-map configuration commands specify the redistribution set actions to be performed when all the match criteria of a route map are met. When all match criteria are met, all set actions are performed.		
<u> </u>	This command is n	not supported for redistributing routes into Border Gateway Protocol (BGP).	
Examples	This example show switch# configure	ys how to set the metric type of the destination protocol to OSPF external Type 1:	

Related Commands	Command	Description
	route-map	Defines the conditions for redistributing routes from one routing protocol into another.
	show ip community-list	Displays information about a community list.
	show ip extcommunity-list	Displays information about an extended community list.
	show ip prefix-list	Displays information about IPv4 prefix lists.
	show route-map	Displays information about a route map.

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set origin

To set the Border Gateway Protocol (BGP) origin code, use the **set origin** command. To delete the entry, use the **no** form of this command.

set origin {egp as-num [:as-num] | igp | incomplete}

no set origin

Syntax Description	egp as-num	Specifies the autonomous system (AS) number for a remote exterior gateway protocol (EGP) system. You can specify the AS number as a 2-byte integer or a 4-byte integer in aa:nn format. Range is from 1 to 65535.	
	igp	Specifies a local interior gateway protocol (IGP) system.	
	incomplete	Specifies an unknown heritage.	
Command Default	Default origin, base	ed on route in main IP routing table.	
Command Modes			
	Release	Modification	
	5.0(3)N1(1)	This command was introduced.	
Usage Guidelines	Use the route-map global configuration command, and the match and set route-map commands, to define the conditions for redistributing routes from one routing protocol route-map command has a list of match and set commands associated with it. The r specify the match criteria—the conditions under which redistribution is allowed for t route-map command. The set commands specify the set actions—the particular redi to perform if the criteria enforced by the match commands are met. The no route-map the route map.		
		configuration commands specify the redistribution set actions to be performed when teria of a route map are met. When all match criteria are met, all set actions are	
Examples	switch# configure switch(config)# 1 switch(config-rou	<pre>coute-map set_origin ate-map)# match as-path 10 ate-map)# set origin igp</pre>	

Related Commands

Command	Description
match as-path	Matches a BGP autonomous system path access list.
route-map	Defines the conditions for redistributing routes from one routing protocol into another.
show ip community-list	Displays information about a community list.
show ip extcommunity-list	Displays information about an extended community list.
show ip prefix-list	Displays information about IPv4 prefix lists.
show route-map	Displays information about a route map.

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set tag

To set a tag value of the destination routing protocol, use the **set tag** command. To delete the entry, use the **no** form of this command.

set tag tag-value

no set tag tag-value

Syntax Description	tag-value	Name for the tag. The value is an integer from 0 to 4294967295.	
Command Default	If not specified, the default action is to <i>forward</i> the tag in the source routing protocol onto the new destination protocol.		
Command Modes			
	Release	Modification	
	5.0(3)N1(1)	This command was introduced.	
Usage Guidelines	Use the route-map global configuration command and the match and set route-map configuration commands to define the conditions for redistributing routes from one routing protocol into another. Each route-map command has a list of match and set commands associated with it. The match commands specify the match criteria—the conditions under which redistribution is allowed for the current route-map command. The set commands specify the set actions—the particular redistribution actions to perform if the criteria enforced by the match commands are met. The no route-map command deletes the route map.		
		configuration commands specify the redistribution set actions to be performed when ia of a route map are met. When all match criteria are met, all set actions are	
Examples	This example shows how to set the tag value of the destination routing protocol to 5: switch(config)# route-map test		
	switch(config-rou	ate-map)# set tag 5	
Related Commands	Command	Description	
	match tag	Redistributes routes in the routing table that match the specified tags.	
	route-map	Defines the conditions for redistributing routes from one routing protocol	

into another.

set weight

To specify the Border Gateway Protocol (BGP) weight for the routing table, use the **set weight** command. To delete an entry, use the **no** form of this command.

set weight number

no set weight [number]

Syntax Description	number	Weight value. Range: 0 to 65535.		
Command Default	The weight is not char	nged by the specified route map.		
Command Modes				
	Release	Modification		
	5.0(3)N1(1)	This command was introduced.		
Usage Guidelines		The implemented weight is based on the first matched autonomous system path. Weights indicated when an autonomous system path is matched override the weights assigned by global neighbor commands.		
Examples	This example shows how to set the BGP weight for the routes that match the autonomous system path access list to 200:			
		<pre>ce-map set-weight -map)# match as-path 10 -map)# set weight 200</pre>		
Related Commands	Command	Description		
	match as-path	Matches a BGP autonomous system path access list.		
	route-map	Defines the conditions for redistributing routes from one routing protocol into another.		
	show ip	Displays information about a community list.		
	community-list			
	community-list show ip extcommunity-list	Displays information about an extended community list.		
	show ip	Displays information about an extended community list. Displays information about IPv4 prefix lists.		

shutdown (BGP)

To shut down an instance of the Border Gateway Protocol (BGP), use the **shutdown** command. To disable this function, use the **no** form of this command.

shutdown

no shutdown

Syntax Description	This command has no arguments	s or keywords.
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Command Default Enabled

Command Modes

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

Usage GuidelinesUse the shutdown command to disable an instance of BGP without removing the configuration.This command requires the LAN Enterprise Services license.

Examples This example shows how to disable BGP 64496: switch# configure terminal switch(config)# router bgp 64496 switch(config-router)# shutdown switch(config-router)#

Related Commands	Command	Description
	show bgp	Displays BGP routes.

soft-reconfiguration inbound (BGP)

To configure the switch software to start storing Border Gateway Protocol (BGP) peer updates, use the **soft-reconfiguration** command. To not store received updates, use the no form of this command.

soft-reconfiguration inbound

no soft-reconfiguration inbound

Syntax Description	This command has	no arguments	or keywords.
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Command Default Disabled

Command Modes Neighbor address-family configuration mode

route refresh capability.

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

Usage GuidelinesEntering this command starts the storage of updates, which is required to do inbound soft
reconfiguration.To use soft reconfiguration, or soft reset, without preconfiguration, both BGP peers must support the soft

Examples This example shows how to configure the soft reconfiguration on the neighbor at 192.168.0.1:

switch# configure terminal	
<pre>switch(config)# router bgp 102</pre>	
switch(config-router)# neighbor	192.168.0.1 remote-as 201
<pre>switch(config-router-neighbor)#</pre>	address-family ipv4 unicast
switch(config-router-neighbor-af) # soft-reconfiguration inbound
<pre>switch(config-router-neighbor-af</pre>) #

Related Commands	Command	Description
	address-family (BGP)	Enters the router in address family configuration mode for configuring BGP
		routing sessions.
	neighbor	Configures a BGP neighbor.
	show ip bgp neighbors	Displays BGP peer information.

suppress-inactive

To advertise the active routes to a Border Gateway Protocol (BGP) peer only, use the **suppress-inactive** command. To remove the restriction, use the **no** form of this command. To return to the default setting, use the **default** form of this command.

suppress-inactive

no	default	suppress-inactive	•
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Syntax Description	This command ha	as no arguments	or keywords.
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Command Default BGP advertises routes to a peer as soon as they are installed in the local routing table, even if the routes are not the active routes in the table.

Command Modes	Release	Modification
	5.0(3)N1(1)	This command was introduced.

Use the suppress-inactive command to advertise only active routes to a BGP peer.

This command requires the LAN Enterprise Services license.

Examples This example shows how to create a summary address. The path advertised for this route is an autonomous system set consisting of all elements contained in all paths that are being summarized.

```
switch# configure terminal
switch(config)# router bgp 64496
switch(config-router)# neighbor 192.0.2.1/8 remote-as 64497
switch(config-router-neighbor)# address-family ipv4 unicast
switch(config-router-neighbor af)# suppress-inactive
switch(config-router-neighbor af)#
```

Related Commands	Command	Description
	route-map	Creates a route map.