

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 attrib	putes are sent to the peer.
Command Modes	BGP neighbor addre	ess-family configuration mode
Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
Usage Guidelines	command.	command, you must configure BGP communities using the set community
Examples	-	how to configure the router to send the community attribute to the neighbor
·	192.168.1.3: switch# configure switch(config)# rc switch(config-rout switch(config-rout	terminal puter bgp 102 :er)# neighbor 192.168.1.3 remote-as 64497 :er-neighbor)# address-family ipv4 multicast :er-neighbor-af)# send-community
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 syste	em path is not modified.	
Command Modes	Route-map config	guration mode	
Command History	Release	Modification	
	6.0(2)N1(1)	This command was introduced.	
Usage Guidelines	The only global B	oute-map configuration mode, you can enter the set command. GP metric available to influence the best path selection is the autonomous system path g the length of the autonomous system path, a BGP speaker can influence the best-path er further away.	
	By allowing you to convert the tag into an autonomous system path, the set as-path tag variation of this command modifies the autonomous system length. The set as-path prepend variation allows you to prepend an arbitrary autonomous system path string to BGP routes. Usually, the local autonomous system number is prepended multiple times, increasing the autonomous system path length.		
Examples	switch(config)#	ws how to convert the tag of a redistributed route into an autonomous system path: route-map test1 pute-map)# set as-path tag	
	This example shows how to prepend 100 to all the routes advertised to 10.108.1.1:		
	switch(config)# switch(config-ro	route-map test1 pute-map)# match as-path 1	
	<pre>switch(config-route-map)# set as-path prepend 100</pre>		

switch(config)# router bgp 64496

switch(config-router)# 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 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 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-nam	Standard or expanded community list name. The name is any alphanumeric string up to 63 characters.
Command Default	No communities are	removed.
Command Modes	Route-map configur	ation mode
Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
Usage Guidelines	inbound or outbound Depending upon who community that pass	configuration command removes communities from the community attribute of an d update using a route map to filter and determine the communities to be deleted. ether the route map is applied to the inbound or outbound update for a neighbor, each ses the route map permit clause and matches the given community list is removed attribute being received from or sent to the Border Gateway Protocol (BGP)
Each entry of a standard community list should list only one community when usec comm-list delete command. For example, in order to be able to delete communitie you must use the following format to create the entries:		mmand. For example, in order to be able to delete communities 10:10 and 10:20,
	<pre>switch(config)# ip community-list 500 permit 10:10 switch(config)# ip community-list 500 permit 10:20 The following format for a community list entry, while acceptable otherwise, does not work with comm-list delete command:</pre>	
	<pre>switch(config)# ip community-list 500 permit 10:10 10:20</pre>	
	When both the set community <i>community-number</i> and set comm-list delete commands are configured in the same sequence of a route map attribute, the deletion operation (set comm-list delete) is performed before the set operation (set community <i>community-number</i>).	
Examples	This example shows outbound update:	how to remove communities from the community attribute of an inbound or

switch(config)# route-map test1
switch(config-route-map)# match as-path 1
switch(config-route-map)# set comm-list list1 delete

Related	Commands	
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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 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 Route-map configuration mode

Command History	Release	Modification
	6.0(2)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
	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	1	
bymax bescription	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	Route-map configurat	ion mode
Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
	commands to define the conditions for redistributing routes from one routing protocol into anothe route-map command has a list of match and set commands associated with it. The match comma 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 a to perform if the criteria enforced by the match commands are met. The no route-map command	
Usage Guidelines	commands to define th route-map command specify the match crite route-map command.	he 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 eria—the conditions under which redistribution is allowed for the current. The set commands specify the set actions—the particular redistribution actions
Usage Guidelines	 commands to define the route-map command specify the match criter route-map command. to perform if the criter the route map. When a BGP peer is reader to the route map. 	he 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 eria—the conditions under which redistribution is allowed for the current. The set commands specify the set actions—the particular redistribution actions
Usage Guidelines Examples	commands to define the route-map command specify the match criter route-map command. to perform if the criter the route map. When a BGP peer is re withdrawal does not in This example sets the	he 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 eria—the conditions under which redistribution is allowed for the current . The set commands specify the set actions—the particular redistribution actions ia 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

switch(config-route-map)# set dampening 30 1500 10000 120

Related	Commands
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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 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 commun	ities attributes exist.		
Command Modes	Route-map config	guration mode		
Command History	Release	Modification		
	6.0(2)N1(1)	This command was introduced.		
Usage Guidelines	Use the set extco route.	mmunity command in a route map to set the extended community attribute in a BGP		
	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.			
		Is specify the set actions to be performed when all of the match criteria of a route map match criteria are met, all set actions are performed.		
Examples	This example sho	This example shows how to configure a route map that sets the extended community to 1.5:		
	switch(config-r	<pre>route-map test1 10 permit oute-map)# match as-path 1 oute-map)# set extcommunity generic transitive 1.5</pre>		

switch(config-route-map)# exit

	Related	Commands
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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 pro 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 1	removed.	
Command Modes	Route-map configura	tion mode	
Command History	Release	Modification	
	6.0(2)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	<pre>delete) is performed before the set operation (set extcommunity community-number). This example shows how to remove extended communities from the extended community attribute of inbound or outbound update: 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.
	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 100 by default.		
Command Modes	Route-map configu	iration mode	
Command History	Release	Modification	
	6.0(2)N1(1)	This command was introduced.	
Usage Guidelines	The preference is s	sent only to all routers in the local autonomous system.	
	You must have a match clause (even if it points to a "permit everything" list) if you want to set tags.		
commands to define the conditions for redistr route-map command has a list of match and specify the match criteria—the conditions un route-map command. The set commands sp		b global configuration command and the match and set route-map configuration e the conditions for redistributing routes from one routing protocol into another. Each and has a list of match and set commands associated with it. The match commands criteria—the conditions under which redistribution is allowed for the current and. The set commands specify the set actions—the particular redistribution actions iteria enforced by the match commands are met. The no route-map command deletes	
	-	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	
	You can change the	e default preference value with the bgp default local-preference command.	
Examples	<pre>switch# configure switch(config)# 1 switch(config-rou switch(config-rou switch(config-rou</pre>	route-map test1 uter)# route-map map-preference ute-map)# match as-path 1 ute-map)# set local-preference 100	

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 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

Syntax Description	+	(Optional) Adds to the existing delay metric value.	
	-	(Optional) Subtracts from the existing delay metric value.	
	bandwidth-metric	<i>th-metric</i> Interior Gateway Routing Protocol (IGRP) bandwith metric, in Kb/s. The ran is from 0 to 4294967295.	
	delay-metric	(Optional) Interior Gateway Routing Protocol (IGRP) delay metric, in 10 microsecond units. The range is from 1 to 4294967295.	
	reliability-metric	(Optional) IGRP reliability metric. The range is from 0 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.	
Command Default	None		
Command Modes	Route-map configuration mode		
Command History	Release	Modification	
	6.0(2)N1(1)	This command was introduced.	
Usage Guidelines <u>Note</u>		command to modify the IGRP metric values. you consult your Cisco technical support representative before changing the default	
NOLE	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 **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)#
```

Related Commands	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.

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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}

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

	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	Route-map config	guration mode
Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
	commands to define the conditions for redistributing routes from one routing protocol into anot route-map command has a list of match and set commands associated with it. The match con- 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 to perform if the criteria enforced by the match commands are met. The no route-map commant the route map. The set route-map configuration commands specify the redistribution set actions to be perform	
	route-map comm to perform if the c the route map. The set route-map	a criteria—the conditions under which redistribution is allowed for the current hand. The set commands specify the set actions—the particular redistribution actions criteria enforced by the match commands are met. The no route-map command deletes p configuration commands specify the redistribution set actions to be performed when
	route-map comm to perform if the c the route map. The set route-map	a criteria—the conditions under which redistribution is allowed for the current hand. The set commands specify the set actions—the particular redistribution actions criteria enforced by the match commands are met. The no route-map command deletes
Note	route-map comm to perform if the c the route map. The set route-may all the match critic performed.	a criteria—the conditions under which redistribution is allowed for the current hand. The set commands specify the set actions—the particular redistribution actions criteria enforced by the match commands are met. The no route-map command deletes p configuration commands specify the redistribution set actions to be performed when

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, ba	used on route in main IP routing table.
Command Modes	Route-map config	guration mode
Command History	Release	Modification
	6.0(2)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 Use the route-map global configuration command, and the match and set route-map config commands, to define the conditions for redistributing routes from one routing protocol into an route-map command has a list of match and set commands associated with it. The match of specify the match criteria—the conditions under which redistribution is allowed for the curr route-map command. The set commands specify the set actions—the particular redistributi to perform if the criteria enforced by the match commands are met. The no route-map command the route map.	
		p configuration commands specify the redistribution set actions to be performed when riteria of a route map are met. When all match criteria are met, all set actions are
Examples	<pre>switch# configu: switch(config)# switch(config-red)</pre>	<pre>route-map set_origin oute-map)# match as-path 10 oute-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.	



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, t destination proto Route-map config	
Command History	Release	Modification
	6.0(2)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. Ex route-map command has a list of match and set commands associated with it. The match comman 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 action to perform if the criteria enforced by the match commands are met. The no route-map command delet the route map. The set route-map configuration commands specify the redistribution set actions to be performed wh all the match criteria of a route map are met. When all match criteria are met, all set actions are	
Examples	switch(config)#	bws how to set the tag value of the destination routing protocol to 5: route-map test route-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 changed by the specified route map.		
Command Modes	Route-map configuration mode		
Command History	Release	Modification	
	6.0(2)N1(1)	This command was introduced.	
Usage Guidelines	-	eight is based on the first matched autonomous system path. Weights indicated when the mem path is matched override the weights assigned by global neighbor commands.	
Examples	access list to 200: switch# configure switch(config)# r switch(config-row	oute-map set-weight te-map)# match as-path 10 te-map)# set weight 200	
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-lis	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.	

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 or keywords.		
Command Default	Enabled		
Command Modes	Router configurati	on mode	
Command History	Release 6.0(2)N1(1)	Modification This command was introduced.	
Usage Guidelines		command to disable an instance of BGP without removing the configuration. uires the LAN Enterprise Services license.	
Examples	This example shows how to disable BGP 64496: <pre>switch# configure terminal switch(config)# router bgp 64496 switch(config-router)# shutdown switch(config-router)#</pre>		
Related Commands	Command show bgp	Description 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 ha	as 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
	6.0(2)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
switch(config)# router bgp 102
switch(config-router)# neighbor 192.168.0.1 remote-as 201
switch(config-router-neighbor)# address-family ipv4 unicast
switch(config-router-neighbor-af)# soft-reconfiguration inbound
switch(config-router-neighbor-af)#
```

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

- **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** Neighbor address-family configuration mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
Usage Guidelines	Use the suppress	-inactive command to advertise only active routes to a BGP peer.
j		quires the LAN Enterprise Services license.
	This command re	quites the LAW Enterprise Services needse.

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
<pre>switch(config)# router bgp 64496</pre>
<pre>switch(config-router)# neighbor 192.0.2.1/8 remote-as 64497</pre>
<pre>switch(config-router-neighbor)# address-family ipv4 unicast</pre>
<pre>switch(config-router-neighbor af)# suppress-inactive</pre>
<pre>switch(config-router-neighbor af)#</pre>

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