

Show Commands

This chapter describes the Cisco NX-OS Border Gateway Protocol (BGP) show commands.

show bgp

To display Border Gateway Protocol (BGP) routes, use the show bgp command.

show bgp {all | ipv4 {unicast | multicast} [addr | prefix [longer-prefixes]] [vrf vrf-name | all]}

Syntax Description	all	Displays BGP information for all address families.				
	ipv4	Displays BGP information for the IPv4 address family.				
	unicast	Displays BGP information for the unicast address family.				
	multicast	Displays BGP information for the multicast address family.				
	addr	IPv4.				
	prefix					
	longer-prefixes	(Optional) Displays the prefix and any more specific routes.				
	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 32 characters.				
	all	(Optional) Specifies all VRF.				
Command Default	None					
Command Modes	Any command m	ıode				
Command History	Release Modification					
	5.0(3)N1(1)	This command was introduced.				
Usage Guidelines	Use the show bg	p command to display information about BGP.				
	This command re	equires the LAN Enterprise Services license.				
Examples	This example sho	ows how to display an entry in the BGP table:				
•	switch# show bgp ipv4 multicast					
	BGP routing tak BGP table versi Status: s-suppr Path type: i-ir	ole information for VRF default, address family IPv4 Multicast ion is 5, local router ID is 2.2.2.3 ressed, x-deleted, S-stale, d-dampened, h-history, *-valid, >-best nternal, e-external, c-confed, l-local, a-aggregate, r-redist i - IGP, e - EGP, ? - incomplete, - multipath				
	Network 192.168.1.3 switch#	Next Hop Metric LocPrf Weight Path 0.0.0.0 100 32768 i				

Related Commands	Command	Description
	clear bgp	Clears entries in the BGP table.

show bgp community

To display Border Gateway Protocol (BGP) routes that match a community, use the **show bgp community** command.

show bgp {{ip | ipv4} {unicast | multicast}} community [as-number] [no-advertise] [no-export]
 [no-export-subconfed] [exact-match]} [vrf vrf-name]

Syntax Description	ip	Displays BGP information for the IPv4 address family.
	ipv4	Displays BGP information for the IPv4 address family.
	unicast	Displays BGP information for the unicast address family.
	multicast	Displays BGP information for the multicast address family.
	as-number	(Optional) AS number. The AS number can be a 16-bit integer or a 32-bit integer in the form of <higher 16-bit="" decimal="" number="">.<lower 16-bit="" decimal="" number="">.</lower></higher>
	no-advertise	(Optional) Displays the no-advertise community.
	no-export	(Optional) Displays the no-export community.
	no-export-subconfed	(Optional) Displays the no-export-subconfed community.
	exact-match	(Optional) Displays an exact match of the community.
	vrf vrf-name	(Optional) Specifies the virtual routing and forwarding (VRF) instance. The name can be any case-sensitive, alphanumeric string up to 32 characters.
Command Default	None	
Command Modes	Any command mode	
Command History	Release	Modification
Command History	Release 5.0(3)N1(1)	Modification This command was introduced.
Command History Usage Guidelines	5.0(3)N1(1)	
	5.0(3)N1(1) This command requires	This command was introduced.
Usage Guidelines	5.0(3)N1(1) This command requires This example shows ho	This command was introduced.
Usage Guidelines	5.0(3)N1(1) This command requires This example shows ho	This command was introduced. The LAN Enterprise Services license. we to display the routes that match a community:

show bgp community-list

To display Border Gateway Protocol (BGP) routes that match a community list, use the **show bgp community-list** command.

mu com exa	4 icast lticast nmlist-name ict-match ivrf-name	Displays BGP information for the IPv4 address family. Displays BGP information for the IPv4 address family. Displays BGP information for the unicast address family. Displays BGP information for the multicast address family. Name of a community-list. The commlist-name can be any case-sensitive, alphanumeric string up to 63 characters. (Optional) Displays an exact match of the communities. (Optional) Specifies the virtual router context (VRF) name. The name can be any
uni mu con	icast Iticast nmlist-name ict-match i vrf-name	Displays BGP information for the unicast address family. Displays BGP information for the multicast address family. Name of a community-list. The commlist-name can be any case-sensitive, alphanumeric string up to 63 characters. (Optional) Displays an exact match of the communities.
mu com exa	Iticast nmlist-name act-match	Displays BGP information for the multicast address family. Name of a community-list. The commlist-name can be any case-sensitive, alphanumeric string up to 63 characters. (Optional) Displays an exact match of the communities.
con exa	nmlist-name act-match i vrf-name	Name of a community-list. The commlist-name can be any case-sensitive, alphanumeric string up to 63 characters. (Optional) Displays an exact match of the communities.
exa	ct-match <i>vrf-name</i>	alphanumeric string up to 63 characters.(Optional) Displays an exact match of the communities.
	vrf-name	
vrf	v	(Optional) Specifies the virtual router context (VRF) name. The name can be any
		case-sensitive, alphanumeric string up to 32 characters.
Command Default Nor	ne	
Oursead Madage A		
Command Modes Any	command mo	de
Command History Rel	ease	Modification
5.2	(1)N1(1)	This command was introduced.
Usage Guidelines This	s command req	uires the LAN Enterprise Services license.
Examples This	s example show	vs how to display the routes that match a community list:
swi	tch(config)#	show bgp ip unicast community-list test1
Related Commands Cor	nmand	Description
ip o	community-lis	t Creates a community list.

show bgp extcommunity

To display Border Gateway Protocol (BGP) routes that match an extended community, use the **show bgp** extcommunity command.

show bgp {{ip | ipv4} {unicast | multicast}} extcommunity 4byteas-generic {non-transitive |
transitive} [as4-number] [exact-match] [vrf vrf-name]

Syntax Description	ip	Displays BGP information for the IPv4 address family.			
-,	ipv4	Displays BGP information for the IPv4 address family.			
	unicast	Displays BGP information for the unicast address family.			
	multicast	Displays BGP information for the multicast address family.			
	4byteas-generic	Displays the routes that match the generic specifice extended communities.			
	non-transitive Displays the routes that match the nontransitive extended communities.				
	transitive	Displays the routes that match the transitive extended communities.			
	as4-number	AS number. The <i>as4-number</i> is a 32-bit integer in the form of a plaintext integer or <higher 16-bit="" decimal="" number="">.<lower 16-bit="" decimal="" number="">.</lower></higher>			
	exact-match	(Optional) Displays an exact match of the extended community.			
	vrf vrf-name	(Optional) Specifies the virtual routing and forwarding (VRF) context name. The name can be any case-sensitive, alphanumeric string up to 32 characters.			
Command Default	None				
Command Modes	Any command mode				
Command Modes	Any command mode	Modification			
		Modification This command was introduced.			
Command History	Release 5.2(1)N1(1)				
	Release 5.2(1)N1(1) This command require This example shows here	This command was introduced.			
Command History Usage Guidelines	Release 5.2(1)N1(1) This command require This example shows here	This command was introduced. As the LAN Enterprise Services license. ow to display the routes that match an extended community:			

show bgp extcommunity-list

To display Border Gateway Protocol (BGP) routes that match an extended community list, use the **show bgp extcommunity-list** command.

show bgp {{ip | ipv4} {unicast | multicast}} extcommunity-list commlist-name [exact-match]
 [vrf vrf-name]

Syntax Description	ip	Displays BGP information for the IPv4 address family.				
	ipv4	Displays BGP information for the IPv4 address family.				
	unicast	Displays BGP information for the unicast address family.				
	multicast					
	commlist-name	Name of an extended community-list. The <i>commlist-name</i> can be any case-sensitive, alphanumeric string up to 63 characters.				
	exact-match	(Optional) Displays an exact match of the extended communities.				
	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 32 characters.				
Command Default	None					
Command Modes	Any command m	lode				
Command History	Release	Modification				
	5.2(1)N1(1)	This command was introduced.				
Usage Guidelines	This command re	equires the LAN Enterprise Services license.				
Examples	This example sho	ows how to display the routes that match a community list:				
	switch(config)# show bgp ipv4 unicast extcommunity-list test1					
Related Commands	Command	Description				
	ip extcommunit	-				
		• •				

show bgp neighbors

To display Border Gateway Protocol (BGP) neighbors, use the show bgp neighbors command.

show bgp {ip | ipv4} {unicast | multicast} neighbors [addr [advertised-routes | flap-statistics |
 paths | received-routes | routes [advertised | dampened | received]]] [vrf {all | vrf-name}]

Syntax Description	ip	Displays the IPv4 neighbor information.				
	ipv4	Displays the IPv4 neighbor information.				
	unicast	Displays the unicast neighbor information.				
	multicast	Displays the multicast neighbor information.IPv4 address. The format is x.x.x.x				
	addr					
	advertised-rou tes	(Optional) Displays all the routes advertised to this neighbor.				
	flap-statistics	(Optional) Displays flap statistics for the routes received from this neighbor.				
	paths	(Optional) Displays AS paths learned from this neighbor.				
	received-routes	es (Optional) Displays all the routes received from this neighbor.(Optional) Displays the routes received or advertised to or from this neighbor.				
	routes					
	advertised	(Optional) Displays all the routes advertised for this neighbor.				
	dampened	(Optional) Displays all dampened routes received from this neighbor.				
	received	(Optional) Displays all the routes received from this neighbor.				
	vrf vrf-name	<i>f-name</i> (Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 32 characters.				
	all Specifies all VRF.					
Command Default	None					
Command Modes	Any command me	ode				
Command History	Release	Modification				
	5.2(1)N1(1)	This command was introduced.				
Usage Guidelines	This command re	quires the LAN Enterprise Services license.				
Examples	This example shows how to display the BGP neighbors: switch(config)# show bgp ip unicast neighbors					

Related Commands	Command	Description
	show ip bgp neighbors	Displays the IPv4 BGP information.

show bgp sessions

To display Border Gateway Protocol (BGP) sessions, use the show bgp sessions command.

show bgp sessions [vrf vrf-name]

None Any command					
Any command					
-	mode				
Release	Mc	dification			
5.2(1)N1(1)	Th	is command was intr	oduced.		
This example sl	hows how to c	lisplay the BGP sess	ions:		
switch# show h Total peers 2, ASN 102 VRF default, 1 peers 2, estab	ogp sessions , established local ASN 102 plished peers	1 peers 0 2 5 0, local router-:	id 2.2.2.3	sing, S-Shuta	down
Neighbor 10.0.0.100	ASN Fla 64497 0	aps LastUpDn LastRo 01:31:58 never	ead LastWr: never	it St Port(L, I 0/0	/R) Notif(S/R) 0/0
192.168.1.3	0 0	00:03:25 never	never	I 0/0	0/0
	5.2(1)N1(1) This command This example sl switch# show h Total peers 2, ASN 102 VRF default, 1 peers 2, estak State: I-Idle, Neighbor	5.2(1)N1(1)ThisThis command requires the LThis example shows how to dswitch# show bgp sessionsTotal peers 2, establishedASN 102VRF default, local ASN 102peers 2, established peersState: I-Idle, A-Active, CNeighborASN Flat	5.2(1)N1(1)This command was intrThis command requires the LAN Enterprise ServiThis example shows how to display the BGP sessiswitch# show bgp sessionsTotal peers 2, established peers 0ASN 102VRF default, local ASN 102peers 2, established peers 0, local router-iState: I-Idle, A-Active, 0-Open, E-EstablishNeighborASNFlaps LastUpDn LastRe	5.2(1)N1(1) This command was introduced. This command requires the LAN Enterprise Services license. This example shows how to display the BGP sessions: switch# show bgp sessions Total peers 2, established peers 0 ASN 102 VRF default, local ASN 102 peers 2, established peers 0, local router-id 2.2.2.3 State: I-Idle, A-Active, 0-Open, E-Established, C-Clos Neighbor ASN Flaps LastUpDn LastRead LastWr:	5.2(1)N1(1) This command was introduced. This command requires the LAN Enterprise Services license. This example shows how to display the BGP sessions: switch# show bgp sessions Total peers 2, established peers 0 ASN 102 VRF default, local ASN 102 peers 2, established peers 0, local router-id 2.2.2.3 State: I-Idle, A-Active, 0-Open, E-Established, C-Closing, S-Shute Neighbor ASN Flaps LastUpDn LastRead LastWrit St Port(L)

Related Commands	Command	Description
clear bgp		Clears BGP sessions.

show bgp statistics

To display Border Gateway Protocol (BGP) traffic statistics, use the show bgp statistics command.

show bgp statistics

Syntax Description This command has no argument or keywords.

Command Default None

Command Modes Any command mode

Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	

Usage Guidelines This command requires the LAN Enterprise Services license.

Examples This example shows how to display the BGP traffic statistics:

switch# show bgp statistics

Neighbor ag	ggregated statistics (sent	/received)	
Msgs	Bytes	Opens	Updates
0/0	0/0	0/0	0/0

Keepalives	Notifications			Route-refresh	Capabilities
0/0	0/0			0/0	0/0
BGP I/O Information					
Active Open attempts			0		
Passive Open attempts		•	0		
BGP I/O Open loops		•	117		
BGP I/O Open calls		•	0		
BGP I/O Open recv cal	ls	:	0		
BGP I/O Send calls		:	0		
BGP I/O Recv calls		:	0		
BGP I/O Write calls		:	0		
BGP I/O Write loops		:	1		
BGP I/O Write loop yi	elds	:	0		
BGP I/O Read calls		:	0		
BGP I/O Read loops		:	117		
BGP I/O Read loop yie	lds	:	0		
BGP I/O process nlri	yields	:	0		
BGP I/O process withd	raw yields	:	0		
BGP Read time exceede	d	:	0		

BGP Update send pending	: 0
BGP Update buffer not available	: 0
BGP Update walk suspended	: 0
BGP Yielded in updates	: 0
BGP Yielded in packing	: 0
BGP No sendbuf for peer	: 0
BGP No withdraw buf for peer	: 0
BGP Yields in update peer loop	: 0
No updates pending or no buffers	: 1
No data to write	: 1
Msg queue recv errors	: 0
Sockets create/accept/close	: 2/0/0
Sockets create retries/failures	: 0/0
switch#	

Related Commands	Command	Description	
	clear bgp	Clears BGP sessions.	

Cisco Nexus 5500 Series NX-OS Unicast Routing Command Reference

show ip bgp

To display entries in the Border Gateway Protocol (BGP) table, use the show ip bgp command.

show ip bgp [ip-addr | ip-prefix [longer-prefixes]] [received-paths] [regexp expression]
[route-map map-name] [summary] [vrf vrf-name]

This command re	equires the LAN Enterprise Services license.
5.2(1)N1(1)	This command was introduced.
	Modification
None	
	can be any case-sensitive, alphanumeric string up to 32 characters.
summary vrf vrf-name	(Optional) Displays the summary of the routes.(Optional) Specifies the virtual routing and forwarding (VRF) instance. The name
map-name	case-sensitive, alphanumeric string up to 63 characters.
-	(Optional) Displays routes that match the route map. The map name can be any
regexp	(Optional) Displays information that matches the regular expression.
received-paths	(Optional) Displays paths stored for soft reconfiguration.
longer-prefixes	(Optional) Displays the prefix and any more specific routes.
ip-prefix	(Optional) Prefix from the BGP route table. The format is x.x.x./length.
	longer-prefixes received-paths regexp expression route-map map-name summary vrf vrf-name

show ip bgp all

To display the Border Gateway Protocol (BGP) entries for all address families, use the **show ip bgp all** command.

- show ip bgp all [ip-addr | ip-prefix [longer-prefixes]] [filter-list list-name] [community-list
 commlist-name [exact-match]] [flap-statistics] [nexthop-database] [received-paths]
 [regexp expression][route-map map-name] [summary] [vrf {vrf-name | all}]
- show ip bgp all community [comm-name] [{{internet | no-advertise | no-export | no-export-subconfed} | exact-match}] [vrf {vrf-name | all}]
- show ip bgp all extcommunity 4byteas-generic {non-transitive | transitive} [as4-number]
 [exact-match] [vrf {vrf-name | all}]
- show ip bgp all dampening {dampened-paths [regexp expression] | flap-statistics |
 history-paths [regexp expression] | parameters} [vrf {vrf-name | all}]
- show ip bgp all neighbors [ip-addr [advertised-routes | flap-statistics | paths | received-routes |
 routes [advertised | dampened | received]]] [vrf {vrf-name | all}]

Syntax Description	ip-addr	(Optional) Network from the BGP route table. The format is x.x.x.x.
	ip-prefix	(Optional) Prefix from the BGP route table. The format is x.x.x.x/length.
	longer-prefixes	(Optional) Displays the prefix and any more specific routes.
	filter-list	(Optional) Displays BGP routes that match a filter list.
	list-name	Name of a filter list. The name can be any case-sensitive, alphanumeric string up to 63 characters.
	community-list commlist-name	(Optional) Display routes matching the community-list. The <i>commlist-name</i> can be any case-sensitive, alphanumeric string up to 63 characters.
	exact-match	(Optional) Displays an exact match of the communities.
	flap-statistics	Displays flap statistics for routes.
	nexthop-database	(Optional) Displays the BGP next-hop database.
	received-paths	(Optional) Displays paths stored for soft reconfiguration.
	regexp expression	(Optional) Displays information that matches the regular expression.
	route-map map-name	(Optional) Displays routes that match the route map. The map name can be any case-sensitive, alphanumeric string up to 63 characters.
	summary	(Optional) Displays the summary of the routes.
	community	Displays BGP routes that match a community list.
	community-number	(Optional) Community number. Valid value is a community number in the range from 1 to 4294967200, or AA:NN (autonomous system-community number/2-byte number).
	no-export	(Optional) Displays routes with this community that are advertised to only peers in the same autonomous system or to only other subautonomous systems within a confederation.
	no-advertise	(Optional) Displays routes that are not advertise to any peer (internal or external).

no-export-subconfed	(Optional) Displays routes that are part of the well-known community no-export-subconfed.		
internet	(Optional) Displays routes that are part of the well-known community internet community.		
extcommunity	Displays routes that match an extended community.		
4byteas-generic	(Optional) Displays the routes that match the generic specifice extended communities.		
non-transitive	(Optional) Displays the routes that match the non-transitive extended communities.		
transitive	(Optional) Displays the routes that match the transitive extended communities.		
as4-number	(Optional) AS number. The <i>as4-number</i> is a 32-bit integer in the form of a plaintext integer or <higher 16-bit="" decimal="" number="">.<lower 16-bit="" decimal="" number="">.</lower></higher>		
exact-match	(Optional) Displays an exact match of the extended community.		
dampening	Displays all dampening information.		
dampened-paths	(Optional) Displays all dampened paths.		
regexp expression	(Optional) Display information that matches the regular expression.		
history-paths	(Optional) Displays all history paths.		
parameters	(Optional) Displays all dampening parameters.		
neighbors	Displays all BGP neigbors.		
advertised-routes	(Optional) Displays all the routes advertised to this neighbor.		
flap-statistics	(Optional) Displays flap statistics for the routes received from this neighbor.		
paths	(Optional) Displays AS paths learned from this neighbor.		
received-routes	(Optional) Displays all the routes received from this neighbor.		
routes	(Optional) Displays the routes received or advertised to or from this neighbor.		
advertised	(Optional) Displays all the routes advertised for this neighbor.		
dampened	(Optional) Displays all dampened routes received from this neighbor.		
received	(Optional) Displays all the routes received from this neighbor.		
vrf vrf-name	(Optional) Specifies the virtual routing and forwarding (VRF) instance. The name can be any case-sensitive, alphanumeric string up to 32 characters.		
all	(Optional) Specifies the VFR reserved all name.		

Command Default

None

Command Modes Any command mode

Command History Release		Modification
	5.2(1)N1(1)	This command was introduced.

I

Usage Guidelines	This command requires the LAN Enterprise Services license.				
Examples	This example shows how to display the BGP entries for all address families:				
	switch# show ip bgp all BGP routing table information for VRF default, address family IPv4 Multicast BGP table version is 5, local router ID is 2.2.2.3 Status: s-suppressed, x-deleted, S-stale, d-dampened, h-history, *-valid, >-best Path type: i-internal, e-external, c-confed, l-local, a-aggregate, r-redist Origin codes: i - IGP, e - EGP, ? - incomplete, - multipath				
	Network Next Hop Metric LocPrf Weight Path 192.168.1.3/2 0.0.0.0 100 32768 i switch# 100 32768 i				
	This example shows how to display a summary of the state of the BGP route table:				
	switch# show ip bgp all summary BGP summary information for VRF default, address family IPv4 Multicast BGP router identifier 2.2.2.3, local AS number 102 BGP table version is 5, IPv4 Multicast config peers 2, capable peers 0 1 network entries and 1 paths using 104 bytes of memory BGP attribute entries [1/124], BGP AS path entries [0/0] BGP community entries [0/0], BGP clusterlist entries [0/0]				
	Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd 10.0.0.100 4 64497 0 0 0 0.3:20:10 Idle 192.168.1.3 4 0 0 0 0 0.1:51:38 Idle switch#				

Related Commands	Command	Description	
	clear ip bgp	Clears entries in the BGP route table.	

show ip bgp community

To display Border Gateway Protocol (BGP) routes that match a community list, use the **show ip bgp community** command.

show ip bgp community {community-number] [{internet | no-advertise | no-export |
 no-export-subconfed}] [vrf {vrf-name | all}]

Syntax Description	community-number	Community number. Valid value is a community number in the range from 1 to 4294967200, or AA:NN (autonomous system-community number/2-byte number).	
	internet	Displays routes that are part of the well-known community internet community.	
	no-advertise	Displays routes that are not advertise to any peer (internal or external).	
	no-export	Displays routes with this community that are advertised to only peers in the same autonomous system or to only other subautonomous systems within a confederation.	
	no-export-subconfed	Displays routes that are part of the well-known community no-export-subconfed.	
	vrf vrf-name	(Optional) Specifies the virtual routing and forwarding (VRF) instance. The name can be any case-sensitive, alphanumeric string up to 32 characters.	
	all	(Optional) Specifies the reserved all VRF.	
Command Modes	Any command mode	Modification	
oonmana mistory	5.2(1)N1(1)	This command was introduced.	
Usage Guidelines	This command requires the LAN Enterprise Services license.		
Examples	This example shows how to display the routes that are part of the 201 BGP community:		
	switch# show ip bgp community 201		
	This example shows how VRF:	w to display the routes that are part of the no-advertise BGP community and all	
	switch# show ip bgp c	community no-advertise	

Related Commands	Command	Description
	set community	Sets the attributes for BGP communities.
	show ip bgp community-list	Displays BGP routes that are permitted by the BGP community list.
	show ip bgp community exact-match	Displays the routes that have exactly the same specified BGP communities.

show ip bgp community exact-match

To display routes that matches a specific Border Gateway Protocol (BGP) community, use the **show ip bgp community exact-match** command.

show ip bgp community community-number exact-match [vrf {all | vrf-name}]

Syntax Description	community-number	Community number. Valid value is a community number in the range from 1 to 4294967200, or AA:NN (autonomous system-community number/2-byte number).
	exact-match	Displays only routes that have exactly the same specified communities.
	all	(Optional) Specifies the reserved all VRF.
	vrf vrf-name	(Optional) Specifies the virtual routing and forwarding (VRF) instance. The name can be any case-sensitive, alphanumeric string up to 32 characters.
Command Default	None	
Command Modes	Any command mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command requires	s the LAN Enterprise Services license.
Examples	-	ow to display the routes that have exactly the same specified BGP communities:
	Switchin Show ip Sg	
Related Commands	Command	Description
	set community	Sets the attributes for BGP communities.
	show ip bgp community	Displays the BGP routes that match a community list.
	show ip bgp community-list	Displays BGP routes that are permitted by the BGP community list.

show ip bgp community-list

To display Border Gateway Protocol (BGP) routes that are permitted by the BGP community list, use the **show ip bgp community-list** command.

show ip bgp [ipv4 {unicast | multicast} | all] community-list commlist-name [exact-match]} [vrf
vrf-name]

Syntax Description	ipv4	(Optional) Displays BGP information for the IPv4 address family.
	unicast	Displays BGP information for the unicast address family.
	multicast	Displays BGP information for the multicast address family.
	all	Displays BGP information for all address families.
	community-list	Display routes matching the community-list. The commlist-name can be any
	commlist-name	case-sensitive, alphanumeric string up to 63 characters.
	exact-match	(Optional) Displays an exact match of the communities.
	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 32 characters.
Command Default	None	
Command Modes	Any command me	ode
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Jsage Guidelines		This command was introduced. quires the LAN Enterprise Services license.
	This command re	
Usage Guidelines Examples	This command re This example sho	quires the LAN Enterprise Services license.
	This command re This example sho	quires the LAN Enterprise Services license. we how to display routes that match a community list:

show ip bgp dampening

To display Border Gateway Protocol (BGP) dampening information, use the **show ip bgp dampening** command.

Syntax Description	ipv4	(Optional) Displays BGP information for the IPv4 address family.
	unicast	Displays BGP information for the unicast address family.
	multicast	Displays BGP information for the multicast address family.
	all	(Optional) Displays BGP information for all address families.
	dampened-paths	Displays all dampened paths.
	regexp expression	(Optional) Display information that matches the regular expression.
	flap-statistics	Displays flap statistics for routes.
	history-paths	Displays all history paths.
	parameters	Displays all dampening parameters.
	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 32 characters.
Command Default	None	
Command Modes	Any command mo	de
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command req	uires the LAN Enterprise Services license.
Examples	This example show	vs how to display the dampening information:
	switch(config)# :	show ip bgp dampening dampened-paths
Related Commands	Command	Description
	address-family (H router)	•
	dampening (BGP	Configures the route flap dampening.

show ip bgp extcommunity

To display Border Gateway Protocol (BGP) routes that match an extended community, use the **show ip bgp extcommunity** command.

show ip bgp extcommunity generic {non-transitive | transitive } [as4-number] [exact-match]
[vrf vrf-name]

Syntax Description	generic	Displays the routes that match the generic specifice extended communities.
	non-transitive	Displays the routes that match the non-transitive extended communities.
	transitive	Displays the routes that match the transitive extended communities.
	as4-number	(Optional) AS number. The <i>as4-number</i> is a 32-bit integer in the form of a plaintext integer or <higher 16-bit="" decimal="" number="">.<lower 16-bit="" decimal="" number="">.</lower></higher>
	exact-match	(Optional) Displays an exact match of the extended community.
	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 32 characters.
Command Default	None	
Command Modes	Any command mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command require	s the LAN Enterprise Services license.
Examples	This example shows ho	ow to display routes that match an extended community:
	switch(config)# show	v ip bgp extcommunity generic transitive 1.3:30
Related Commands	Command	Description
	ip extcommunity-list	Creates an extended community list.
	1 5	

show ip bgp extcommunity-list

To display Border Gateway Protocol (BGP) routes that match an extended community list, use the **show ip bgp extcommunity-list** command.

show ip bgp extcommunity-list commlist-name [exact-match] [vrf vrf-name]

Syntax Description	commlist-name	Name of an extended community-list. The <i>commlist-name</i> can be any case-sensitive,
	. <u></u>	alphanumeric string up to 63 characters.
	exact-match	(Optional) Displays an exact match of the extended communities.
	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 32 characters.
Command Default	None	
Command Modes	Any command m	iode
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command re	equires the LAN Enterprise Services license.
Examples	This example sho	ows how to display routes that match a community list:
	switch(config)#	show ip bgp extcommunity-list test1
Related Commands	Command	Description
	ip extcommunit	•
	ip exiconinum	y-nst Creates an extended community rst.

show ip bgp filter-list

To display Border Gateway Protocol (BGP) routes that match a filter list, use the **show ip bgp filter-list** command.

show ip bgp filter-list list-name [exact-match] [vrf vrf-name]

Syntax Description	list-name	Name of a filterlist. The name can be any case-sensitive, alphanumeric string up to 63 characters.
	exact-match	(Optional) Displays an exact match of the filter.
	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 32 characters.
Command Default	None	
Command Modes	Any command 1	mode
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command	requires the LAN Enterprise Services license.
Examples	This example sh	nows how to display routes that match a filter list:
	switch(config)	# show ip bgp filter-list test1
Related Commands	Command	Description
	filter-list	Assigns an autonomous system (AS) path filter to a BGP peer.
	show ip bgp al	Displays the BGP entries for all address families.

show ip bgp flap-statistics

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

show ip bgp flap-statistics [vrf vrf-name]

Syntax Description	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 32 characters.
Command Default	None	
Command Modes	Any command r	node
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command 1	requires the LAN Enterprise Services license.
Examples	This example sh	nows how to display the flap statistics:
	switch(config)	# show ip bgp flap-statistics
Related Commands	Command	Description
	clear bgp flap-statistics	Clears BGP route flap statistics.

show ip bgp neighbors

To display Border Gateway Protocol (BGP) neighbors, use the show ip bgp neighbors command.

show ip bgp neighbors [addr [advertised-routes | flap-statistics | paths | received-routes | routes
[advertised | dampened | received]]] [vrf {all | vrf-name}]

Syntax Description	addr	(Optional) IPv4 address. The format is x.x.x.x
	advertised-routes	(Optional) Displays all the routes advertised to this neighbor.
	flap-statistics	(Optional) Displays flap statistics for the routes received from this neighbor.
	paths	(Optional) Displays AS paths learned from this neighbor.
	received-routes	(Optional) Displays all the routes received from this neighbor.
	routes	(Optional) Displays the routes received or advertised to or from this neighbor.
	advertised	(Optional) Displays all the routes advertised for this neighbor.
	dampened	(Optional) Displays all dampened routes received from this neighbor.
	received	(Optional) Displays all the routes received from this neighbor.
	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 32 characters.
	all	(Optional) Specifies all VRF.
Command Default Command Modes	None Any command mod	e
Command Modes	Any command mod	
		e Modification This command was introduced.
Command Modes Command History	Any command mod Release 5.2(1)N1(1)	Modification
Command Modes Command History Jsage Guidelines	Any command mod Release 5.2(1)N1(1) This command require This example shows	Modification This command was introduced.
Command Modes	Any command mod Release 5.2(1)N1(1) This command require This example shows	Modification This command was introduced. ires the LAN Enterprise Services license. s how to display the BGP neighbors:

show ip bgp nexthop

To display Border Gateway Protocol (BGP) next-hop information, use the **show ip bgp nexthop** command.

show ip bgp nexthop addr [vrf vrf-name]

Syntax Description	addr	IPv4 address. The format is x.x.x.x
	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 32 characters.
Command Default	None	
Command Modes	Any command	mode
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Jsage Guidelines	This command	requires the LAN Enterprise Services license.
Examples	This example sl	nows how to display the BGP next-hop information:
	switch(config)	# show ip bgp nexthop 192.0.2.1
Related Commands	Command	Description
	show ip bgp n	

show ip bgp nexthop-database

To display Border Gateway Protocol (BGP) next-hop database, use the **show ip bgp nexthop-database** command.

show ip bgp nexthop-database [vrf vrf-name]

Syntax Description	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 32 characters.
Command Default	None	
Command Modes	Any command	mode
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command	requires the LAN Enterprise Services license.
Examples	-	hows how to display the BGP next-hop database: # show ip bgp nexthop-database
Related Commands	Command	Description
	show ip bgp no	eighbors Displays BGP neighbor information.

show ip bgp paths

To display all the Border Gateway Protocol (BGP) paths in the database, use the **show ip bgp paths** command.

show ip bgp paths

Syntax Description	This command has no arg	guments or keywords.
Command Default	None	
Command Modes	Any command mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines Examples	This command requires the LAN Enterprise Services license. This example shows how to display the BGP paths in the database:	
	switch(config)# show i Address Hash Refcou 0x5a5e46bc 2001 switch#	
Related Commands	Command	Description
	maximum-paths	Controls the maximum number of parallel routes that the Border Gateway Protocol (BGP) can support.
	show ip bgp	Displays the BGP table information.
	show ip bgp neighbors	Displays BGP neighbor information.

show ip bgp peer-policy

To display Border Gateway Protocol (BGP) peer policy template information, use the **show ip bgp peer-policy** command.

show ip bgp peer-policy name

Syntax Description		to 63 characters.
Command Default	None	
Command Modes	Any command mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command requir	res the LAN Enterprise Services license.
Examples	-	how to display the BGP peer policy:
	switch(config)# sh	ow ip bgp peer-policy test1
Related Commands	Command	Description
	inherit peer-policy	Inherits a peer policy template for a neighbor.
	template peer-polic	y Configures a peer policy template.

show ip bgp peer-session

To display Border Gateway Protocol (BGP) peer session template information, use the **show ip bgp peer-session** command.

show ip bgp peer-session name

Syntax Description		e of a BGP template. The name can be any case-sensitive, alphanumeric string 63 characters.
Command Default	None	
Command Modes	Any command mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command requires	the LAN Enterprise Services license.
Examples	-	w to display the BGP peer session: ip bgp peer-session test1
Related Commands	Command	Description
	inherit peer-session	Inherits a peer session template for a neighbor.
	template peer-session	Configures a peer session template.

show ip bgp peer-template

To display Border Gateway Protocol (BGP) peer template information, use the **show ip bgp peer-template** command.

show ip bgp peer-template name

Syntax Description		e of a BGP template. The name can be any case-sensitive, alphanumeric string 63 characters.
Command Default	None	
Command Modes	Any command mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command requires	the LAN Enterprise Services license.
Examples	This example shows how	w to display the BGP peer template:
	<pre>switch(config)# show</pre>	ip bgp peer-template peer1
Related Commands	Command	Description
	inherit peer-template	Inherits a peer template for a neighbor.
	template peer	Configures a peer template.

show ip bgp prefix-list

To display Border Gateway Protocol (BGP) routes that match a prefix list, use the **show ip bgp prefix-list** command.

show ip bgp prefix-list list-name [exact-match] [vrf vrf-name]

Syntax Description	list-name	Name of a prefix list. The commlist-name can be any case-sensitive, alphanumeric string up to 63 characters.			
	exact-match	(Optional) Displays an exact match of the filter.			
	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 32 characters.			
Command Default	None				
Command Modes	Any command r	node			
Command History	Release	Modification			
	5.2(1)N1(1)	This command was introduced.			
Usage Guidelines	This command 1	requires the LAN Enterprise Services license.			
Examples	This example sh	nows how to display routes that match a prefix list:			
Examples	1	nows how to display routes that match a prefix list: # show ip bgp prefix-list test1			
Examples Related Commands	1				

show ip bgp received-paths

To display the routes received from a Border Gateway Protocol (BGP) peer, use the **show ip bgp received-paths** command.

show ip bgp received-paths [vrf vrf-name | all]

Syntax Description	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 32 characters.
	all	(Optional) Specifies all VRF.
Command Default	None	
Command Modes	Any command mod	e
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command requ	ires the LAN Enterprise Services license.
Examples	This example show:	s how to display the received routes from a BGP peer:
	switch(config)# s	how ip bgp received-paths
Related Commands	Command	Description
		bors Displays BGP neighbor information.

show ip bgp route-map

To display the Border Gateway Protocol (BGP) route maps from the BGP table, use the **show ip bgp route-map** command.

show ip bgp route-map route-map-name [vrf vrf-name | all]

Syntax Description	route-map-name	Route map name.
	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The name can
		be any case-sensitive, alphanumeric string up to 32 characters.
	all	(Optional) Specifies all VRF.
Command Default	None	
Command Modes	Any command mode	e
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command requ	ires the LAN Enterprise Services license.
Examples	This example shows	s how to display the BGP route maps from the BGP table:
	switch(config)# s	how ip bgp route-map
Related Commands	Command	Description
	route-map	Creates route maps.
	•	Clear BGP routes from the BGP table.
	clear ip bgp	Clear BOF Toules from the BOF table.

show ip bgp summary

To display the status of all Border Gateway Protocol (BGP) connections, use the **show ip bgp summary** command.

show ip bgp summary [vrf vrf-name | all]

Syntax Description	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The name can be any case-sensitive, alphanumeric string up to 32 characters.		
	all	(Optional) Specifies all VRF.		
Command Default	None			
Command Modes	Any command mode			
Command History	Release	Modification		
	5.2(1)N1(1)	This command was introduced.		
Usage Guidelines	This command require	s the LAN Enterprise Services license.		
Examples	This example shows how to display the status of BGP connections:			
	switch(config)# show	vip bgp summary		
Related Commands	Command	Description		
	maximum-prefix	Controls the number of prefixes that can be received from a BGP neighbor.		
	router bgp	Assigns an autonomous system (AS) number to a router.		

show ip community-list

To display community lists for the Border Gateway Protocol (BGP), use the **show ip community-list** command.

show ip community-list [name]

Syntax Description		Optional) Name of the community list. The name can be any case-sensitive, lphanumeric string up to 63 characters.
Command Default	None	
Command Modes	Any command mod	le
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

show ip prefix-list

To display prefix lists for the Border Gateway Protocol (BGP), use the show ip prefix-list command.

show ip prefix-list [name]

Syntax Description		Optional) Name of community list. The name can be any case-sensitive, lphanumeric string up to 63 characters.
Command Default	None	
Command Modes	Any command mod	le
Command History	Release 5.2(1)N1(1)	Modification This command was introduced.
Examples		s how to display the prefix lists:
	switch(config)# s	show ip prefix-list
Related Commands	Command	Description
	ip prefix-list	Configures a BGP prefix list.

show mac-list

To display the entries in a MAC list, use the show mac-list command.

show mac-list [name]

Syntax Description	name	(Optional) MAC list name. The name can be any case-sensitive, alphanumeric string up to 32 characters.		
Command Default	No match values are	defined.		
Command Modes	Any command mode			
Command History	Release	Modification		
	5.2(1)N1(1)	This command was introduced.		
Jsage Guidelines	This command requir	res the LAN Enterprise license.		
Examples	This example shows how to display information about the Red MAC list:			
	switch(config)# sh	ow mac-list Red		
Related Commands	Command	Description		
	mac-list	Creates a MAC list.		
	match mac-list	Matches a MAC address in a MAC list.		

show vrf

To display the virtual routing and forwarding (VRF) instances, use the **show vrf** command.

show vrf

Syntax Description	This command has no arguments or key	words.
e finan Decemption	This command has no arguments of key	

- **Command Default** None
- **Command Modes** EXEC mode

Command History Release Modification 5.2(1)N1(1) This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the VRF instances configured on the switch: switch# show vrf

Switch# snow vri			
VRF-Name	VRF-ID	State	Reason
default	1	Up	
management	2	Up	
switch#			

Related Co

Commands	Command	Description
	vrf	Configures a VRF instance.
	vrf context	Creates a VRF instance.
	vrf member	Adds an interface to a VRF.

show vrf detail

To display the detailed information of virtual routing and forwarding (VRF) instances, use the **show vrf detail** command.

show vrf detail

Syntax Description	n This command has no arguments or keywords.	
Command Default	None	
Command Modes	EXEC mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Examples	This example show	vs how to display the detailed information of VRF instances configured on the switch:
Examples	switch# show vrf VRF-Name: default Table-ID: 0x8	
	VRF-Name: managen Table-ID: 0x8	ment, VRF-ID: 2, State: Up 30000002, AF: IPv6, Fwd-ID: 0x80000002, State: Up 00000002, AF: IPv4, Fwd-ID: 0x0000002, State: Up
	switch#	
Related Commands	Command	Description
	vrf	Configures a VRE instance

	vrf	Configures a VRF instance.
	vrf context	Creates a VRF instance.
	vrf member	Adds an interface to a VRF.

show vrf interface

To display the virtual routing and forwarding (VRF) information for interfaces, use the **show vrf interface** command.

show vrf interface [mgmt mgmt-number | vlan vlan-ID]

Syntax Description	mgmt mgmt-number	(Optional) Displays the management interfaces	that are added to a VRF	
	0 0	The management interface number is 0.		
	vlan vlan-ID	(Optional) Displays the VLAN interfaces that an VLAN interface range is from 1 to 4094.	re added to a VRF. The	
command Default	All interfaces			
uninanu Delaut	All Interfaces			
Command Modes	EXEC mode			
Command History	Release Modification			
-	-	w to display the VRF information for all configure	d interfaces:	
	This command does not	require a license. w to display the VRF information for all configure prface	d interfaces: VRF-ID 1 1 1	
	This command does not This example shows how switch# show vrf inte Interface Vlan1 Vlan5 loopback1 mgmt0 switch#	w to display the VRF information for all configured prface VRF-Name default default default management	VRF-ID 1 1 2	
	This command does not This example shows how switch# show vrf inte Interface Vlan1 Vlan5 loopback1 mgmt0 switch# This example shows how	w to display the VRF information for all configured w to display the VRF information for all configured wrface VRF-Name default default default management w to display the VRF information for management	VRF-ID 1 1 2	
	This command does not This example shows how switch# show vrf inte Interface Vlan1 Vlan5 loopback1 mgmt0 switch#	w to display the VRF information for all configured w to display the VRF information for all configured w VRF-Name default default default default management w to display the VRF information for management wrface mgmt 0	VRF-ID 1 1 2	
	This command does not This example shows how switch# show vrf inte Interface Vlan1 Vlan5 loopback1 mgmt0 switch# This example shows how switch# show vrf inte Interface mgmt0 switch#	require a license. w to display the VRF information for all configured prface VRF-Name default default default management w to display the VRF information for management prface mgmt 0 VRF-Name	VRF-ID 1 1 2 interfaces: VRF-ID 2	
Usage Guidelines Examples	This command does not This example shows how switch# show vrf inte Interface Vlan1 Vlan5 loopback1 mgmt0 switch# This example shows how switch# show vrf inte Interface mgmt0 switch#	w to display the VRF information for all configured w to display the VRF information for all configured w to default default default management w to display the VRF information for management w TF-Name management w to display the VRF information for VLAN interference w to display the VRF information for VLAN interference management	VRF-ID 1 1 2 interfaces: VRF-ID 2	

Related Commands	Command	Description
	vrf member	Adds an interface to a VRF.