

Show Commands

This chapter describes the Cisco NX-OS unicast Routing Information Base (RIB) and the Forwarding Information Base (FIB) **show** commands.

show forwarding

To display forwarding information, use the **show forwarding** command.

show forwarding [ip | ipv4] {adjacency | interfaces | route | trace [clear] | table id | pss | route}
[ethernet | port-channel | vlan slot] [vrf vrf-name]

Syntax Description	ір	(Optional) Displays the IPv4 forwarding information.
_	ipv4	(Optional) Displays the IPv4 forwarding information.
	adjacency	Displays the adjacency information.
	interfaces	Displays the forwarding information for interfaces on a module.
	route	Displays the forwarding information for routes on a module.
	trace	Displays the forwarding trace buffer on a module.
	clear	(Optional) Clears the forwarding trace buffer on a module.
	table id	Displays the forwarding information for a route table. The <i>id</i> range is from 0 to 2147483647.
	pss	Displays route information from persistent storage.
	route	Displays route information from the IP routing table.
	ethernet slot	(Optional) Displays information for the ethernet. The slot range depends on the hardware platform.
	port-channel slot	(Optional) Displays information for the port-channel. The slot range depends on the hardware platform.
	vlan	(Optional) Displays information for the vlan. The slot range depends on the hardware platform.
	vrf vrf-name	(Optional) Specifies the name of the virtual routing and forwarding (VRF) instance. The <i>vrf-name</i> argument can be specified as any case-sensitive, alphanumeric string up to 32 characters. The strings "default" and "all" are reserved VRF names.
Command Default	None	
Command Modes	Any command mode	e
Command History	Release	Modified
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines		Arding command on the supervisor to view forwarding information on a module. use the attach module command to attach to a module and use the show forwardin odule.

Examples This example shows how to display forwarding information for module 2: switch# show forwarding route ethernet 2

Related Commands	Command	Description
	show ip fib	Displays information about the FIB.

show forwarding distribution

To display forwarding distribution information, use the **show forwarding distribution** command.

show forwarding distribution [clients | fib-state]

Syntax Description	clients (Optional) Displays the forwarding distribution information for unicast clients
		Optional) Displays the forwarding distribution state for unicast Forwarding nformation Base (FIB).
Command Default	None	
Command Modes	Any command mode	
Command History	Release	Modified
	5.2(1)N1(1)	This command was introduced.
Examples	_	w to display the forwarding information for unicast clients:
	switch# show forward	ing distribution clients
Related Commands	Command	Description

show forwarding distribution multicast

To display information about multicast Forwarding Information Base (FIB) distribution messages, use the **show forwarding distribution multicast** command.

show forwarding distribution multicast [messages]

Syntax Description	messages	(Optional) Displays message information.
Command Default	None	
Command Modes	Any command n	node
Command History	Release	Modified
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command c	loes not require a license.
Examples	This example sh	ows how to display information about multicast distribution messages:
	Number of Mult Slot FIB S	# show forwarding distribution multicast icast FIB Processes Active: 1 tate TIVE

show forwarding distribution multicast client

To display information about the multicast Forwarding Information Base (FIB) distribution client, use the **show forwarding distribution multicast client** command.

show forwarding distribution multicast client

Syntax Description	This command has no a	arguments or keywords.
Command Default	None	
Command Modes	Any command mode	
Command History	Release	Modified
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command does no	t require a license.
Examples	This example shows ho	ow to display information about the multicast FIB distribution client:
		ing distribution multicast client id Shared Memory Name mrib-mfdm

show forwarding distribution multicast outgoing-interface-list

To display information about the multicast Forwarding Information Base (FIB) outgoing interface (OIF) list, use the **show forwarding distribution multicast outgoing-interface-list** command.

show forwarding distribution multicast outgoing-interface-list {L2 | L3} [index]

Syntax Description	L2	Specifies the Layer 2 OIF list.
	L3	Specifies the Layer 3 OIF list.
	index	(Optional) OIF list index.
Command Default	None	
Command Modes	Any command r	node
Command History	Release	Modified
Command History	Release 5.2(1)N1(1)	Modified This command was introduced.
Command History		
Command History Usage Guidelines	5.2(1)N1(1)	
	5.2(1)N1(1) This command o	This command was introduced.

show forwarding distribution multicast route

To display information about the multicast Forwarding Information Base (FIB) distribution routes, use the **show forwarding distribution multicast route** command.

show forwarding distribution [ip | ipv4] multicast route [table id | vrf vrf_name] [[group
{group-addr [mask] | group-prefix}] [source {source-addr [source-mask] | source-prefix}] |
summary]

Syntax Description	!	(Optional) Specifies IPV4 information.
Syntax Description	ip	
	ipv4	(Optional) Specifies IPV4 information.
	table id	(Optional) Specifies the multicast routing table ID. The range is from 0 to 2147483647.
	<pre>vrf vrf_name</pre>	(Optional) Specifies a virtual routing and forwarding (VRF) name. The name can be a maximum of 32 alphanumeric characters.
	group	(Optional) Specifies an IPv4 multicast group.
	group-addr	IPv4 multicast group address.
	mask	(Optional) Mask for the group address.
	group-prefix	(Optional) IPv4 multicast group prefix.
	source	(Optional) Specifies an IPv4 multicast source.
	source-addr	IPv4 source address.
	source-mask	(Optional) Mask for the group address.
	source-prefix	(Optional) IPv4 multicast source prefix.
	summary	(Optional) Displays the route counts.
Command Modes	Any command	mode
Command History	Release	Modified
oonnana mistory	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command	does not require a license.
Examples	This example s	hows how to display information about all the multicast FIB distribution routes:

D = Drop Route G = Local Group (directly connected receivers) O = Drop on RPF Fail P = Punt to supervisor d = Decap Route (*, 224.0.0.0/4), RPF Interface: NULL, flags: D Received Packets: 0 Bytes: 0 Number of Outgoing Interfaces: 0 Null Outgoing Interface List (*, 224.0.0.0/24), RPF Interface: NULL, flags: CP Received Packets: 0 Bytes: 0 Number of Outgoing Interfaces: 0 Null Outgoing Interface List (*, 224.0.1.39/32), RPF Interface: NULL, flags: CP Received Packets: 0 Bytes: 0 Number of Outgoing Interfaces: 0 Null Outgoing Interface List (*, 224.0.1.40/32), RPF Interface: NULL, flags: CP Received Packets: 0 Bytes: 0 Number of Outgoing Interfaces: 0 Null Outgoing Interface List (*, 232.0.0.0/8), RPF Interface: NULL, flags: D Received Packets: 0 Bytes: 0 Number of Outgoing Interfaces: 0 Null Outgoing Interface List switch#

show forwarding inconsistency

To display the results of the forwarding inconsistency checker, use the **show forwarding inconsistency** command.

show forwarding inconsistency [ip | ipv4] [unicast] module slot [vrf vrf-name]

Syntax Description	ір	(Optional) Displays the IPv4 forwarding inconsistency information.
	ipv4	(Optional) Displays the IPv4 forwarding inconsistency information.
	unicast	(Optional) Displays the forwarding inconsistency information for unicast routes
	module <i>slot</i>	Displays inconsistency information for the module. The slot range depends on the hardware platform.
	vrf vrf-name	(Optional) Displays inconsistency information for the virtual routing and forwarding (VRF) instance. The <i>vrf-name</i> argument can be specified as any case-sensitive, alphanumeric string up to 32 characters. The strings "default" and "all" are reserved VRF names.
Command Default	None	
Command Modes	Any command mod	le
Command History	Release	Modified
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines		arding inconsistency command to display the results of the test forwarding
	inconsistency com	
Examples		
Examples	This example show	mand.
	This example show switch# show forw	mand. The second
	This example show switch# show forw Command	mand. The second secon
Examples Related Commands	This example show switch# show forw	mand. The second

show forwarding multicast outgoing-interface-list

To display information about the multicast Forwarding Information Base (FIB) outgoing interface (OIF) list, use the **show forwarding multicast outgoing-interface-list** command.

show forwarding multicast outgoing-interface-list [index]

Syntax Description	index (Optio	nal) OIF list index. The OIF list index is from 1 to 65535.
Command Default	None	
Command Modes	Any command mode	
Command History	Release	Modified
	5.2(1)N1(1)	This command was introduced.
Examples	This command does not	to display information about the multicast FIB OIF list:
Examples	This example shows how	to display information about the multicast FIB OIF list:
	switch# show forwardir	ng multicast outgoing-interface-list
	Outgoing Interface I Reference Count: 1 Ethernet1/5 switch#	ist Index: 1
Related Commands	Command	Description
	clear ip igmp interface statistics	Clears the IGMP statistics for an interface.
	ip igmp static-oif	Binds a multicast group to the outgoing interface (OIF).

show forwarding multicast route

To display information about the IPv4 Forwarding Information Base (FIB) multicast routes, use the **show forwarding multicast route** command.

show forwarding [vrf {vrf-name | all}] [ip | ipv4] multicast route {[group {group-addr
 [group-mask] | group-prefix} | source {source-addr [source-mask] | source-prefix} | module
 num | vrf {vrf-name | all}] | summary [vrf {vrf-name | all}]}

Syntax Description	vrf	(Optional) Displays information for a specified virtual routing and forwarding (VRF) instance.
	vrf-name	VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive.
	all	Displays information for all VRFs.
	ip	(Optional) Specifies IPv4.
	ipv4	(Optional) Specifies IPv4.
	group	(Optional) Specifies an IPv4 multicast group address.
	group-addr	IPv4 multicast group address.
	group-mask	(Optional) IPv4 multicast group address mask.
	group-prefix	(Optional) IPv4 multicast group prefix.
	source	(Optional) Specifies an IPv4 multicast source address.
	source-addr	IPv4 multicast source address.
	source-mask	IPv4 multicast source address mask.
	source-prefix	IPv4 multicast source prefix.
	summary	Displays route counts.
Command Modes	Any command	mode
Command History	Release	Modified
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	This command	does not require a license.
Examples	This example sl	hows how to display information about the IPv4 multicast FIB routes:
Examples	-	hows how to display information about the IPv4 multicast FIB routes:

```
Legend:

C = Control Route

D = Drop Route

G = Local Group (directly connected receivers)

O = Drop on RPF failure

P = Punt to Supervisor

W = Wildcard

d = OTV Decap route

(*, 230.0.0.0/32), RPF Interface: NULL, flags: DG

Received Packets: 0 Bytes: 0

Number of Outgoing Interfaces: 1

Outgoing Interface List Index: 1

Ethernet1/5 Outgoing Packets:0 Bytes:0

switch#
```

This example shows how to display the summary information about the IPv4 multicast FIB routes:

```
switch# show forwarding multicast route summary
```

```
IPv4 Multicast Routing Table for Context "default"
Total number of routes: 1
Total number of (*,G) routes: 1
Total number of (S,G) routes: 0
Total number of (*,G-prefix) routes: 0
Group count: 1
Prefix insert fail count: 9
switch#
```

Related Commands	Command	Description
	clear ip mroute	Clears the multicast routing table.

show ip adjacency

To display adjacency information, use the **show ip adjacency** command.

show ip adjacency [ip-addr | interface] [detail] [non-best] [statistics] [summary]
 [vrf vrf-name | all | default | management]

Syntax Description	ip-addr	(Optional) IPv4 source address. The format is x.x.x.x.
	interface	(Optional) Interface. Use ? to determine the supported interface types.
	detail	(Optional) Displays detailed adjacency information.
	non-best	(Optional) Displays both the best and nonbest adjacency information.
	statistics	(Optional) Displays adjacency statistics.
	summary	(Optional) Displays a summary of the adjacency information.
	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) Displays adjacency statistics for all VRF entries.
	default	(Optional) Displays adjacency statistics for the default VRF.
	management	(Optional) Displays adjacency statistics for the management VRF.
Command Default	None	
Command Default	None	
Command Default	None	
Command Default	Any command i	node
		node
Command Modes	Any command 1	
	Any command n	Modified
Command Modes	Any command 1	
Command Modes	Any command n	Modified
Command Modes	Any command n Release 5.2(1)N1(1) The counter val	Modified
Command Modes Command History	Any command n Release 5.2(1)N1(1) The counter val a supervisor mo	Modified This command was introduced. ues in the output of show ip adjacency {statistics detail} command are cleared after
Command Modes Command History Usage Guidelines	Any command the formation of the formati	Modified This command was introduced. ues in the output of show ip adjacency {statistics detail} command are cleared after dule switchover.

Related Commands	Command	Description
	show forwarding adjacency	Displays forwarding adjacency information.

show ip adjacency summary

To display the IP adjacency summary, use the show ip adjacency summary command.

show ip adjacency summary

Syntax Description	This command has r	no arguments or keywords.
Defaults	None	
Command Modes	Any command mode	
Command History	Release	Modified
	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 IP adjacency summary:
	switch# show ip ad	ljacency summary
	I IP AM Table - Adja	acency Summary
	Static : 1 Dynamic : 0 Others : 0	
	Total : 1	
	switch#	

Related Commands	Command	Description
	ip arp timeout	Configures ARP.

show ip fib

To display forwarding information, use the show ip fib command.

show ip fib {adjacency | interfaces | route} module slot

Syntax Description	adjacency interfaces	Displays the adjacency information. Displays the forwarding information for interfaces on a module.	
	route	Displays the forwarding information for routes on a module.	
	module <i>slot</i>	Displays information for the module. The slot range depends on the ha platform.	rdware
Command Default	None		
Command Modes	Any command mode		
Command History	Release	Modified	
	5.2(1)N1(1)	This command was introduced.	
Usage Guidelines	-	ommand on the supervisor to view forwarding information on a module. On module command to attach to a module and use the show in fib command to attach to a module and use the show in fib command to attach to a module and use the show in fib command to attach to a module and use the show in fib command to attach to a module and use the show in fib command to attach to a module and use the show in fib command to attach to a module and use the show in fib command to attach to a module and use the show in fib command to attach to a module attac	
	you can use the attac l module.	h module command to attach to a module and use the show ip fib comm	
Usage Guidelines Examples	you can use the attach module. This example shows h	h module command to attach to a module and use the show ip fib command now to display the forwarding information for module 1:	
	you can use the attac l module.	h module command to attach to a module and use the show ip fib commons how to display the forwarding information for module 1:	
	you can use the attach module. This example shows h switch# show ip fik IPv4 routes for tak 	h module command to attach to a module and use the show ip fib commany now to display the forwarding information for module 1: o route module 1 ble default/base Next-hop Interface	
	you can use the attach module. This example shows h switch# show ip fik IPv4 routes for tak 	h module command to attach to a module and use the show ip fib command now to display the forwarding information for module 1: o route module 1 ble default/base Next-hop Interface Drop Null0	
	you can use the attach module. This example shows I switch# show ip fik IPv4 routes for tak Prefix	h module command to attach to a module and use the show ip fib commany now to display the forwarding information for module 1: o route module 1 ble default/base Next-hop Interface Drop Null0	

show ip fib distribution

To display forwarding distribution information, use the show ip fib distribution command.

show ip fib distribution [clients | state]

Syntax Description	clients	(Optional) Displays the forwarding distribution information for unicast clients.
	state	(Optional) Displays the forwarding distribution state for unicast FIB.
Command Default	None	
ommand Modes	Any command mod	le
command History	Release	Modified
	5.2(1)N1(1)	This command was introduced.
xamples	-	s how to display the forwarding information for unicast clients:
elated Commands	Command	Description
	show forwarding distribution	Displays distribution information about the FIB.

show ip load-sharing

To display IP load sharing information, use the show ip load-sharing command.

show ip load-sharing

Syntax Description	This command has no ar	guments or keywords.
Command Default	None	
Command Modes	Any command mode	
Command History	Release	Modified
	5.2(1)N1(1)	This command was introduced.
Examples	This example shows how	v to display the IP load sharing information:
	switch# show ip load-	sharing
Related Commands	Command	Description
	show ip load-sharing	Displays IP load sharing.

show ip process

To display formation about the IP process, use the show ip process command.

show ip process [vrf vrf-name]

Syntax Description	vrf vrf-name	instance. The	<i>vrf-name</i> argument string up to 32 char	the virtual routing and forwarding (VRF) can be specified as any case-sensitive, acters. The strings "default" and "all" are
Command Default	None			
Command Modes	Any command mode			
Command History	Release	Modified		
	5.2(1)N1(1)	This comman	d was introduced.	
Examples	This example shows	details about the IP	process:	
	Auto Punt broadca Static discard is Number of static	1 disabled not added ast is configured ast is configured s not configured default route co eachable configur	nfigured is 0	21.1.1.1

show ip route

To display routes from the unicast Routing Information Base (RIB), use the show ip route command.

show ip route [all | addr | hostname | prefix | route-type | interface type number | next-hop addr]]
[vrf vrf-name]

Syntax Description	all	(Optional) Displays all routes.
	addr	(Optional) IPv4 address. The format is x.x.x.x.
	hostname	Hostname. The <i>name</i> can be any case-sensitive, alphanumeric string up to 80 characters.
	prefix	(Optional) IPv4 prefix. The format is x.x.x.x/length. The length range is from 1 to 32.
	route-type	(Optional) Type of route. Use ? to see the list of types.
	interface type number	(Optional) Displays the routes for an interface. Use ? to see the supported interfaces.
	next-hop addr	(Optional) Displays routes with this next-hop 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 n	
	Any command n	Modified
Command Modes	Any command n	
Command Modes	Any command n Release 5.2(1)N1(1)	Modified
Command Modes	Any command n Release 5.2(1)N1(1) This example sh	Modified This command was introduced.
Command Modes	Any command n Release 5.2(1)N1(1) This example sh	Modified This command was introduced. ows how to display the route table:

show ip static-route

To display static routes from the unicast Routing Information Base (RIB), use the **show ip static-route** command.

show ip static-route [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 virtual router contexts (VRF) name.
Command Default	None	
Command Modes	Any command	mode
Command History	Release	Modified
	5.2(1)N1(1)	This command was introduced.
Examples	This example s	hows how to display the static routes:
Examples	-	hows how to display the static routes:)# show ip static-route
Examples Related Commands	-	

show routing

To display routing information, use the show routing command.

show routing [**ip** | **ipv4**] [*address* | *hostname* | *prefix* | *route-type* | **clients** | **hidden-nh interface** *type number* | **next-hop** *addr* | **recursive-next-hop** [*addr*]] [**vrf** *vrf-name*]

Syntax Description	ір	(Optional) Displays the routing information for the network.
	ipv4	(Optional) Displays the routing information for the IPv4 network.
	address	(Optional) IPv4 address. IPv4 address format is x.x.x.x.
	hostname	Hostname. The <i>name</i> can be any case-sensitive, alphanumeric string up to 80 characters.
	prefix	(Optional) IPv4 prefix. IPv4 prefix format is x.x.x.x/length.
	route-type	(Optional) Type of route. Use ? to see the list of types.
	clients	(Optional) Displays the routing clients.
	hidden-nh	(Optional) Displays hidden next-hop information.
	interface <i>type number</i>	(Optional) Displays the routes for an interface. The interface can be one of the following:
		• mgmt —Management interface. The default management interface is 0.
		• vlan—VLAN interface. The VLAN interface number is from 1 to 4094.
	next-hop addr	(Optional) Displays routes with this next-hop address. The format is x.x.x.x.
	recursive next-hop addr	(Optional) Displays routes with this recursive next-hop address. The format is x.x.x.x.
	vrf vrf-name	(Optional) Specifies the virtual router context (VRF) name. The VRF can be one of the following:
		• <i>vrf-name</i> —VRF name. The name can be any case-sensitive, alphanumeric string up to 32 characters.
		• all—Specifies all VRFs.
		• default —Specifies the default VRF.
		• management—Specifies the management VRF.
Command Default	None	
Command Modes	Any command n	node
Command History	Release	Modified
	5.2(1)N1(1)	This command was introduced.
Examples	This example sh	ows how to display the route table:

switch(config)# show ip routing

Related Commands

Command

clear ip route

Description Clears entries in the route table.

show routing memory estimate

To display an estimate of routing memory requirements, use the **show routing memory estimate** command.

show routing memory estimate [routes num-routes next-hops num-hop-addresses]

Syntax Description	routes	(Optional) Specifies the unicast Routing Information Base (RIB) memory estimate
		for the number of routes.
	num-routes	Number of routes. The range is from 1000 to 1,000,000.
	next-hops	(Optional) Specifies the unicast RIB memory estimate for the number of next hops per route.
	num-hop- addresses	Number of next-hop addresses per route. The range is from 1 to 16.
Command Default	None	
Command Modes	Any command m	node
Command History	Release	Modified
Command History	Release 5.2(1)N1(1)	Modified This command was introduced.
	Use the show rot	
Command History Usage Guidelines Examples	5.2(1)N1(1) Use the show ro number of routes	This command was introduced. uting memory estimate command to estimate the memory required for a selected
Usage Guidelines	5.2(1)N1(1) Use the show ro number of routes This example sho	This command was introduced. uting memory estimate command to estimate the memory required for a selected and number of next-hop addresses per route.
Usage Guidelines	5.2(1)N1(1) Use the show roo number of routes This example sho switch# show roo Shared memory e	This command was introduced. uting memory estimate command to estimate the memory required for a selected is and number of next-hop addresses per route. bows how to display the route table: puting memory estimate routes 1000 next-hops 1 estimates:
Usage Guidelines	5.2(1)N1(1) Use the show roo number of routes This example sho switch# show ro Shared memory e Current max	This command was introduced. uting memory estimate command to estimate the memory required for a selected is and number of next-hop addresses per route. ows how to display the route table: puting memory estimate routes 1000 next-hops 1 estimates: 32 MB; 27495 routes with 16 nhs
Usage Guidelines	5.2(1)N1(1) Use the show roo number of routes This example sho switch# show roo Shared memory e	This command was introduced. uting memory estimate command to estimate the memory required for a selected is and number of next-hop addresses per route. ows how to display the route table: outing memory estimate routes 1000 next-hops 1 estimates: 32 MB; 27495 routes with 16 nhs se 1 MB; 11 routes with 1 nhs (average)

show routing hash

To display the route selected for a particular source and destination address, use the **show routing hash** command.

show routing hash source-addr dest-addr [source-port dest-port]] [vrf vrf-name]

Syntax Description	source-addr	Source IPv4 address. IPv4 address format is x.x.x.x.
oyntax Description	dest-addr	Destination IPv4 address. IPv4 address format is x.x.x.x.
	source-port	(Optional) Source port. The range is from 1 to 65535.
	dest-port	(Optional) Destination port. The range is from 1 to 65535.
	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 Modes Command History	Release	Modified
Command History	Release 5.2(1)N1(1)	Modified
	Release 5.2(1)N1(1) This example sl	Modified This command was introduced.
Command History	Release 5.2(1)N1(1) This example sl	Modified This command was introduced. nows how to display the route selected to reach 30.0.0.2 from 10.0.0.5:

show sockets client

To display information about the sockets clients, use the show sockets client command.

show sockets client [pid id] [raw | tcp | udp] [detail]

Syntax Description	pid id	(Optional) Displays the socket client information for a specific process. The <i>id</i> range is from 1 to 65535.			
	raw	(Optional) Displays information about the raw client.			
	tcp	(Optional) Displays information about the TCP client.			
	udp	(Optional) Displays information about the UDP client.			
	detail	(Optional) Displays information about the detailed client.			
command Default	None				
ommand Modes	Any command	mode			
command History	Release	Modified			
	5.2(1)N1(1)	This command was introduced.			
	switch# show sockets client udp Total number of UDP clients: 9				
	Total number of UDP clients: 9 client: syslogd, pid: 4367, sockets: 2				
	client: ntpd, pid: 4602, sockets: 3				
	client: ntp, pid: 4591, sockets: 2				
	client: radiusd, pid: 4586, sockets: 2				
	client: dhcp_snoop, pid: 5260, sockets: 1 client: pim, pid: 5296, sockets: 1				
	client: mcecm, pid: 5265, sockets: 1				
	client: snmpd, pid: 4609, sockets: 2				
	client: hsrp_engine, pid: 9588, sockets: 2				
	Statistics: Cancels 12777, Cancel-unblocks 11257, Cancel-misses 0 Select-drops 1520, Select-wakes 11257, switch#				

Related Commands	Command	Description
	clear sockets statistics	Clears socket statistics.
	show sockets connection	Displays information about the socket connection.
	show sockets statistics	Displays information about the socket statistics.

show sockets connection

To display information about the sockets connection, use the **show sockets connection** command.

show sockets connection [pid id] [local address | foreign address | raw | tcp | udp] [detail]

Syntax Description	pid id	· •	onal) Displ m 1 to 655.	ays the socket client information for a specific process. the <i>id</i> range 35.	
	local address	· •		ays information about all the TCP connections with the specified ne <i>address</i> can be an IPv4 address.	
	foreign addre	· •		ays information about all the TCP connections with the specified The <i>address</i> can be an IPv4 address.	
	raw	(Optio	onal) Displ	ays information about the raw client.	
	tcp	(Optio	onal) Displ	ays information about the TCP client.	
	udp	(Optio	onal) Displ	ays information about the UDP client.	
	detail	(Optio	onal) Displ	ays information about the detailed client.	
Command Default	None				
Command Modes	Any command	l mode			
Command History	Release		Modifie	d	
	5.2(1)N1(1)		This cor	nmand was introduced.	
Examples	This example	shows hov	w to displa	y the TCP socket connection information:	
	switch# show sockets connection tcp				
	Total number of tcp sockets: 4 Active connections (including servers)				
	Protocol Stat		Recv-Q/	Local Address(port)/	
	Cont		Send-Q	Remote Address(port)	
	tcp6 LIS Wild	ren dcard	0 0	* (22) * (*)	
	tcp6 LIS	ren	0	* (23)	
	Wild	dcard	0	* (*)	
	tcp LIS		0	*(161)	
	Wild	dcard	0	* (*)	
	tcp ESTA	ABLISHED	0	172.29.231.33(23)	
	-	agement	4	72.163.177.151(1559)	

Related Commands	Command	Description
	clear sockets statistics	Clears the socket statistics.
	show sockets client	Displays information about the socket client.
	show sockets statistics	Displays the socket statistics.

show sockets statistics

To display the socket statistics, use the **show sockets statistics** command.

show sockets statistics [all | raw | rawsum | tcp | tcpsum | udp | udpsum]

Syntax Description	all	(Optional) Displays all the socket statistics.			
	raw	raw (Optional) Displays the socket statistics for the raw IPv4 protocol socket statist			
	rawsum	(Optional) Displays a summary of the socket statistics for the raw IPv4 protocol			
		socket statistics.			
	tcp	(Optional) Displays the socket statistics for the TCP IPv4 protocol.			
	tcpsum	(Optional) Displays a summary of the socket statistics for the TCP IPv4 protocols.			
	udp	(Optional) Displays the socket statistics for the UDP IPv4 protocol.			
	udpsum	(Optional) Displays a summary of the socket statistics for the UDP IPv4 protocols.			
Command Default	None				
Command Modes	Any command 1	mode			
Command History	Release	Modified			
oommanu mistory					
	5.2(1)N1(1)	This command was introduced.			
	5.2(1)N1(1) This example sh switch# show s TCP v4 Receive	nows how to display the TCP socket statistics: sockets statistics tcp			
	5.2(1)N1(1) This example sh switch# show a TCP v4 Receive 11622	nows how to display the TCP socket statistics:			
	5.2(1)N1(1) This example show so switch# show so TCP v4 Receive 11622 0 chec 8782 p	nows how to display the TCP socket statistics: sockets statistics tcp ed: packets total cksum error, 0 bad offset, 0 too short, 0 MD5 error backets (33566 bytes) in sequence			
	5.2(1)N1(1) This example show so switch# show so TCP v4 Receive 11622 0 chec 8782 p 0 dupl	nows how to display the TCP socket statistics: sockets statistics tcp ed: packets total eksum error, 0 bad offset, 0 too short, 0 MD5 error backets (33566 bytes) in sequence Licate packets (0 bytes)			
	5.2(1)N1(1) This example show so switch# show so TCP v4 Receive 11622 0 chec 8782 p 0 dupl 0 part 0 out-	nows how to display the TCP socket statistics: sockets statistics tcp ed: packets total cksum error, 0 bad offset, 0 too short, 0 MD5 error backets (33566 bytes) in sequence Licate packets (0 bytes) cially dup packets (0 bytes) of-order packets (0 bytes)			
	5.2(1)N1(1) This example show so switch# show so TCP v4 Receive 11622 0 chec 8782 p 0 dupl 0 part 0 out- 0 pack	nows how to display the TCP socket statistics: sockets statistics tcp ed: packets total cksum error, 0 bad offset, 0 too short, 0 MD5 error backets (33566 bytes) in sequence Licate packets (0 bytes) cially dup packets (0 bytes) cof-order packets (0 bytes) tets (0 bytes) with data after window			
	5.2(1)N1(1) This example show so switch# show so TCP v4 Receive 11622 0 chec 8782 p 0 dupl 0 part 0 out- 0 pack 0 pack	nows how to display the TCP socket statistics: sockets statistics tcp ed: packets total cksum error, 0 bad offset, 0 too short, 0 MD5 error backets (33566 bytes) in sequence Licate packets (0 bytes) cially dup packets (0 bytes) of-order packets (0 bytes)			
	5.2(1)N1(1) This example show a switch# show a TCP v4 Receive 11622 0 chec 8782 p 0 dupl 0 part 0 out- 0 pack 0 pack 0 wind 2 dupl	nows how to display the TCP socket statistics: sockets statistics tcp ed: packets total eksum error, 0 bad offset, 0 too short, 0 MD5 error backets (33566 bytes) in sequence licate packets (0 bytes) cially dup packets (0 bytes) cof-order packets (0 bytes) cof-order packets (0 bytes) tets (0 bytes) with data after window tets after close dow probe packets, 0 window update packets licate ack packets, 0 ack packets with unsent data			
	5.2(1)N1(1) This example show a switch# show a TCP v4 Receive 11622 0 chec 8782 p 0 dupl 0 part 0 out- 0 pack 0 pack 0 wind 2 dupl	nows how to display the TCP socket statistics: sockets statistics tcp ed: packets total eksum error, 0 bad offset, 0 too short, 0 MD5 error backets (33566 bytes) in sequence licate packets (0 bytes) cially dup packets (0 bytes) cof-order packets (0 bytes) cof-order packets (0 bytes) tets (0 bytes) with data after window tets after close dow probe packets, 0 window update packets			
	5.2(1)N1(1) This example shares a switch# show so that the show so that the show so that the show so that the show so the sho	nows how to display the TCP socket statistics: sockets statistics tcp ed: packets total cksum error, 0 bad offset, 0 too short, 0 MD5 error backets (33566 bytes) in sequence licate packets (0 bytes) cially dup packets (0 bytes) cof-order packets (0 bytes) cof-order packets (0 bytes) tets (0 bytes) with data after window tets after close dow probe packets, 0 window update packets licate ack packets, 0 ack packets with unsent data ack packets (890960 bytes) cotal, 0 urgent packets			
	5.2(1)N1(1) This example show as switch# show as TCP v4 Receive 11622 0 chec 8782 p 0 dupl 0 part 0 out- 0 pack 0 pack 0 wind 2 dupl 9349 as TCP v4 Sent: 9543 t 3 cont	nows how to display the TCP socket statistics: sockets statistics tcp ed: packets total eksum error, 0 bad offset, 0 too short, 0 MD5 error backets (33566 bytes) in sequence licate packets (0 bytes) cially dup packets (0 bytes) cof-order packets (0 bytes) tets (0 bytes) with data after window tets after close dow probe packets, 0 window update packets licate ack packets, 0 ack packets with unsent data ack packets (890960 bytes)			
	5.2(1)N1(1) This example show as switch# show as TCP v4 Receive 11622 0 chec 8782 p 0 dupl 0 part 0 out- 0 pack 0 pack 0 wind 2 dupl 9349 as TCP v4 Sent: 9543 t 3 cont 9492 d 0 data	nows how to display the TCP socket statistics: sockets statistics top ed: packets total cksum error, 0 bad offset, 0 too short, 0 MD5 error packets (33566 bytes) in sequence licate packets (0 bytes) tially dup packets (0 bytes) tof-order packets (0 bytes) tof-order packets (0 bytes) tets (0 bytes) with data after window tets after close dow probe packets, 0 window update packets licate ack packets, 0 ack packets with unsent data ack packets (890960 bytes) total, 0 urgent packets trol packets data packets (890955 bytes) a packets (0 bytes) retransmitted			
Examples	5.2(1)N1(1) This example show as switch# show as TCP v4 Receive 11622 0 chec 8782 p 0 dupl 0 part 0 out- 0 pack 0 pack 0 wind 2 dupl 9349 at TCP v4 Sent: 9543 tt 3 cont 9492 dt 0 data 48 ack	nows how to display the TCP socket statistics: sockets statistics tcp ed: packets total cksum error, 0 bad offset, 0 too short, 0 MD5 error mackets (33566 bytes) in sequence licate packets (0 bytes) tially dup packets (0 bytes) tof-order packets (0 bytes) tof-order packets (0 bytes) tets (0 bytes) with data after window tets after close dow probe packets, 0 window update packets licate ack packets, 0 ack packets with unsent data ack packets (890960 bytes) total, 0 urgent packets licata packets (890955 bytes) a packets (0 bytes) retransmitted t only packets			
	5.2(1)N1(1) This example show as switch# show as TCP v4 Receive 11622 0 chec 8782 p 0 dupl 0 part 0 out- 0 pack 0 wind 2 dupl 9349 as TCP v4 Sent: 9543 tt 3 cont 9492 do 0 data 48 ack 0 wind TCP v4:	nows how to display the TCP socket statistics: sockets statistics top ed: packets total cksum error, 0 bad offset, 0 too short, 0 MD5 error packets (33566 bytes) in sequence licate packets (0 bytes) tially dup packets (0 bytes) tially dup packets (0 bytes) cof-order packets (0 bytes) tests (0 bytes) with data after window tests after close dow probe packets, 0 window update packets licate ack packets, 0 ack packets with unsent data ack packets (890960 bytes) total, 0 urgent packets trol packets data packets (890955 bytes) a packets (0 bytes) retransmitted			

0 total rxmt timeout, 0 connections dropped in rxmt timeout 0 keepalive timeout, 0 keepalive probe, 0 connections dropped in keepalive switch#

Related Commands

nands	Command	Description
	clear sockets statistics	Clears socket statistics.
	show sockets client	Displays information about the socket client.
	show sockets connection	Displays information about the socket connection.