

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	Modification
	6.0(2)N1(1)	This command was introduced.
Usage Guidelines		rrding 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 forwarding odule.

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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 information Base (FIB).
Command Default	None	
Command Modes	Any command mode	
Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
Examples	-	ow to display the forwarding information for unicast clients:
Related Commands	Command	Description

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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 (Opt	tional) Displays message information.
Command Default	None	
Command Modes	Any command mode	
Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
Usage Guidelines	This command does not	ot require a license.
Examples	This example shows how to display information about multicast distribution messages:	
	<pre>switch(config)# show forwarding distribution multicast Number of Multicast FIB Processes Active: 1 Slot FIB State 1 ACTIVE switch#</pre>	

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 arguments or keywords.		
Command Default	None		
Command Modes	Any command mode		
Command History	Release	Modification	
	6.0(2)N1(1)	This command was introduced.	
Usage Guidelines	This command does not	ot require a license.	
Examples	This example shows how to display information about the multicast FIB distribution client:		
		switch# show forwarding distribution multicast client Client-name Client-id Shared Memory Name mrib 1 mrib-mfdm	

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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 mo	ode
Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
Usage Guidelines	This command do	es not require a license.
Examples	-	ws how to display information about the multicast OIF list for Layer 3:

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			
	ір	(Optional) Specifies IPV4 information.	
	ipv4	(Optional) Specifies IPV4 information.	
	table <i>id</i>	(Optional) Specifies the multicast routing table ID. The range is from 0 to 2147483647.	
	vrf <i>vrf_name</i>	(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.	
ommand Default	None		
	None Any command n	mode	
ommand Modes		mode Modification	
ommand Modes	Any command n		
command Modes	Any command n Release 6.0(2)N1(1)	Modification	
Command Default Command Modes Command History Isage Guidelines	Any command the second	Modification This command was introduced.	

<pre>D = Drop Route G = Local Group (directly connected receivers) O = Drop on RPF Fail P = Punt to supervisor d = Decap Route</pre>
(*, 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
<pre>(*, 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#</pre>

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	ip	(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.	
ommand Default	None		
command Modes	Any command mod	de	
Command History	Release	Modification	
-	6.0(2)N1(1)	This command was introduced.	
Usage Guidelines	Use the show forw inconsistency com	varding inconsistency command to display the results of the test forwarding imand.	
xamples	This example shows how to display the forwarding inconsistency information for module 2:		
	switch# show for	warding inconsistency module 2	
Related Commands	Command	Description	
	clear forwarding inconsistency	Clears the forwarding inconsistency checker.	
	test forwarding	Triggers the forwarding inconsistency checker.	

inconsistency

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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	Modification	
	6.0(2)N1(1)	This command was introduced.	
Examples	This example shows how	to display information about the multicast FIB OIF list:	
Examples	-		
	switch# show forwardir	ng multicast outgoing-interface-list	
	Outgoing Interface List Index: 1 Reference Count: 1		
	Ethernet1/5		
	switch#		
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.	
	ір	(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	Modification	
	6.0(2)N1(1)	This command was introduced.	
Usage Guidelines	This command	does not require a license.	
Examples	This example shows how to display information about the IPv4 multicast FIB routes:		
	switch# show forwarding multicast route		
	IPv4 Multicast Routing table table-id:1 Total number of groups: 1		
Cisco	o Nexus 6000 Series N	X-OS Unicast Routing Command Reference	

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```
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]

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 <i>vrf-name</i> (Optional) Specifies the virtual router context (VRF) name. The name can be an 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.		
None			
Any command	mode		
· <u> </u>			
	Modification		
6.0(2)N1(1)	This command was introduced.		
	ues in the output of show ip adjacency { statistics detail } command are cleared after dule switchover.		
This example shows how to display a summary of the adjacency information:			
This example si	lows now to display a summary of the adjacency information.		
	p adjacency summary		
	interface detail non-best statistics summary vrf vrf-name all default management None Any command n Release 6.0(2)N1(1) The counter val a supervisor mo		

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 n	o arguments or keywords.
Defaults	None	
Command Modes	Any command mode	,
Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
Usage Guidelines		not require a license.
Examples	-	how to display the IP adjacency summary:
	switch# show ip ad I IP AM Table - Adja	
	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	Displays the adjacency information.
	interfaces	Displays the forwarding information for interfaces on a module.
	route	Displays the forwarding information for routes on a module.
		Displays information for the module. The slot range depends on the hardwa platform.
Command Default	None	
Command Modes	Any command mode	
Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
Usage Guidelines	you can use the attack	ommand on the supervisor to view forwarding information on a module. Option a module command to attach to a module and use the show ip fib command o
Usage Guidelines Examples	you can use the attacl module.	
	you can use the attacl module.	n module command to attach to a module and use the show ip fib command on module the show ip fib command on the show to display the forwarding information for module 1:
	you can use the attach module. This example shows h	n module command to attach to a module and use the show ip fib command on now to display the forwarding information for module 1:
	you can use the attack module. This example shows h switch# show ip fib IPv4 routes for tab 	n module command to attach to a module and use the show ip fib command of now to display the forwarding information for module 1: o route module 1 ble default/base Next-hop Interface
	you can use the attack module. This example shows h switch# show ip fib IPv4 routes for tab 	n module command to attach to a module and use the show ip fib command of 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 attack module. This example shows h switch# show ip fib IPv4 routes for tab Prefix 0.0.0.0/32 255.255.255.255/32	n module command to attach to a module and use the show ip fib command of 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 mode	
Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
xamples	-	how to display the forwarding information for unicast clients: b distribution 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

show ip load-sharing

Syntax Description	This command has no a	rguments or keywords.
Command Default	None	
Command Modes	Any command mode	
Command History	Release 6.0(2)N1(1)	Modification This command was introduced.
Examples	This example shows how switch# show ip load -	w to display the IP load sharing information: -sharing
Related Commands	Command	Description

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	cifies the name of the virtual routing an <i>orf-name</i> argument can be specified as a string up to 32 characters. The strings "chames.	any case-sensitive,
Command Default	None			
Command Modes	Any command mode	e		
Command History	Release	Modification		
	6.0(2)N1(1)	This command	was introduced.	
Examples	This example shows	details about the IP	process:	
	This example shows details about the IP process: switch(config)# show ip process VRF default VRF id is 1 Base table id is 1 Auto discard is disabled Auto discard is not added Auto Null broadcast is configured Auto Punt broadcast is configured Static discard is not configured Number of static default route configured is 0 Number of ip unreachable configured is 0 Iodlist: 73 74 Local address list: 1.1.1.1 2.2.2.1 21.1.1.1			

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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. (Optional) IPv4 prefix. The format is x.x.x.x/length. The length range is from 1 to 32.		
	prefix			
	<i>route-type</i> (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.		
	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 Any command m	node		
		node		
Command Modes	Any command n			
Command Modes	Any command m	Modification		
Command Modes Command History	Any command m Release 6.0(2)N1(1) This example sho	Modification This command was introduced.		
Command Modes	Any command m Release 6.0(2)N1(1) This example sho	Modification 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	Modification
	6.0(2)N1(1)	This command was introduced.
Examples	This example s	hows how to display the static routes:
	switch(config))# show ip static-route
Related Commands	Command	Description

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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 type number	(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.
	recursive next-hop addr	(Optional) Displays routes with this recursive next-hop address. The format is 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	Modification
	6.0(2)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.

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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 hoper 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	Modification		
-	6.0(2)N1(1)	This command was introduced.		
Usage Guidelines		uting memory estimate command to estimate the memory required for a selected s and number of next-hop addresses per route.		
Examples	This example sho	ows how to display the route table:		
	switch# show rc Shared memory e Current max	Duting memory estimate routes 1000 next-hops 1 estimates: 32 MB; 27495 routes with 16 nhs		
	in-us			
	Configured ma Estimate	ax 32 MB; 27495 routes with 16 nhs 0 MB; 1000 routes with 1 nhs		

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.
	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
	Any command a	mode Modification
Command History	Release 6.0(2)N1(1)	Modification
Command History	Release 6.0(2)N1(1) This example sl	Modification This command was introduced.
Command Modes Command History Examples	Release 6.0(2)N1(1) This example sl	Modification This command was introduced. nows how to display the route selected to reach 30.0.0.2 from 10.0.0.5:

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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					
Command Modes	Any command r	mode				
Command History	Release	Modification				
	6.0(2)N1(1)	This command was introduced.				
	Total number c	of UDP clients: 9				
	Total number c	of UDP clients: 9				
		yd, 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_e	engine, pid: 9588, sockets: 2				
		ancels 12777, Cancel-unblocks 11257, Cancel-misses 0 elect-drops 1520, Select-wakes 11257,				

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.	

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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]

Cuntou Decenintien		(0	1) D' 1		
Syntax Description	pid id	· •	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 addres	· -		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	mode			
Command History	Release		Modifica	ation	
	6.0(2)N1(1)		This cor	nmand was introduced.	
Examples	This example s	hows how	w to displa	y the TCP socket connection information:	
•	<pre>switch# show sockets connection tcp Total number of tcp sockets: 4 Active connections (including servers) Protocol State/ Recv-Q/ Local Address(port)/</pre>				
	Cont		Send-Q	Remote Address(port)	
	tcp6 LIST Wild		0 0	* (22) * (*)	
	tcp6 LIST Wild		0 0	* (23) * (*)	
	tcp LIST Wild		0 0	*(161) *(*)	
	-	BLISHED gement	0 4	172.29.231.33(23) 72.163.177.151(1559)	
	switch#				

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.		

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show sockets statistics

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

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

aw () awsum () cp () cpsum () dp () dpsum () one () ny command mode () celease () .0(2)N1(1) ()	(Optional) Displays all the socket statistics. (Optional) Displays the socket statistics for the raw IPv4 protocol socket statistics. (Optional) Displays a summary of the socket statistics for the raw IPv4 protocol. (Optional) Displays the socket statistics for the TCP IPv4 protocol. (Optional) Displays a summary of the socket statistics for the TCP IPv4 protocol. (Optional) Displays a summary of the socket statistics for the TCP IPv4 protocol. (Optional) Displays the socket statistics for the UDP IPv4 protocol. (Optional) Displays a summary of the socket statistics for the UDP IPv4 protocol. (Optional) Displays a summary of the socket statistics for the UDP IPv4 protocol. (Optional) Displays a summary of the socket statistics for the UDP IPv4 protocol. (Optional) Displays a summary of the socket statistics for the UDP IPv4 protocol. (Optional) Displays a summary of the socket statistics for the UDP IPv4 protocol. (Optional) Displays a summary of the socket statistics for the UDP IPv4 protocol. ode Modification This command was introduced. ws how to display the TCP socket statistics:				
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his example show					
his example show					
_	ackets total				
0 checksum error, 0 bad offset, 0 too short, 0 MD5 error 8782 packets (33566 bytes) in sequence					
0 duplicate packets (0 bytes) 0 partially dup packets (0 bytes)					
0 partially dup packets (0 bytes) 0 out-of-order packets (0 bytes)					
0 packets (0 bytes) with data after window 0 packets after close					
0 window probe packets, 0 window update packets 2 duplicate ack packets, 0 ack packets with unsent data 9349 ack packets (890960 bytes)					
CP v4 Sent: 9543 tota	al, 0 urgent packets				
9492 data 0 data pa 48 ack or	a packets (890955 bytes) backets (0 bytes) retransmitted bnly packets				
0 window probe packets, 0 window update packets TCP v4:					
connections in connections clo					
	0 partia 0 out-of 0 packet 0 packet 0 window 2 duplic 9349 ack CP v4 Sent: 9543 tot 3 contro 9492 dat 0 data p 48 ack c 0 window				

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

Related Commands

S	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.	