

Show Commands

This chapter describes the Cisco NX-OS security show commands.

show aaa accounting

To display authentication, authorization, and accounting (AAA) accounting configuration, use the **show aaa accounting** command.

show aaa accounting

Syntax Description	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 switch# show aaa default: switch#	-
Related Commands	Command	Description
	aaa accounting de	efault Configures AAA methods for accounting.

show aaa authentication

To display authentication, authorization, and accounting (AAA) authentication configuration information, use the **show aaa authentication** command.

show aaa authentication login [error-enable | mschap]

Syntax Description	error-enable	(Optional) Displays the authentication login error message enable configuration.	
	mschap	(Optional) Displays the authentication login Microsoft Challenge Handshake Authentication Protocol (MS-CHAP) enable configuration.	
Command Default	None		
Command Modes	EXEC mode		
Command History	Release	Modification	
-	5.2(1)N1(1)	This command was introduced.	
	switch# show aaa a default: console: switch#	group t1	
	This example shows how to display the authentication login error enable configuration:		
	switch# show aaa a disabled switch#	authentication login error-enable	
	This example shows how to display the authentication login MS-CHAP configuration:		
	switch# show aaa a MSCHAP is disabled switch#	authentication login mschap	
Related Commands	Command	Description	
	aaa authentication	•	
		<u> </u>	

show aaa authorization

To display AAA authorization configuration information, use the show aaa authorization command.

show aaa authorization [all]

Syntax Description	all	(Optional) Displays configured and default values.	
Command Default	None		
command Modes	EXEC mode		
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
Examples	This example shows how to display the configured authorization methods:		
	switch# show aaa authorization AAA command authorization:		
		chorization for config-commands: none	
	switch#		
Related Commands	Command	Description	
	aaa authorization commands default	Configures default AAA authorization methods for EXEC commands.	
	aaa authorization config-commands default	Configures default AAA authorization methods for configuration commands.	

show aaa groups

To display authentication, authorization, and accounting (AAA) server group configuration, use the **show aaa groups** command.

show aaa groups

Syntax Description 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 shows how to display AAA group information:

switch# show aaa groups
radius
t1
tacacs
rad1
switch#

Related Commands	Command	Description
	aaa group server radius	Creates a RADIUS server group.

show aaa user

To display the status of the default role assigned by the authentication, authorization, and accounting (AAA) server administrator for remote authentication, use the **show aaa user** command.

show aaa user default-role

Syntax Description	default-role	Displays the status of the default AAA role.
Command Default	None	
Command Modes	EXEC mode.	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Examples	This example shows how administrator for remote switch# show aaa user enabled switch#	
Related Commands	Command	Description
	aaa user default-role	Configures the default user for remote authentication.
	show aaa authentication	Displays AAA authentication information.

show access-lists

To display all IPv4 and MAC access control lists (ACLs) or a specific ACL, use the **show access-lists** command.

show access-lists [access-list-name]

Syntax Description	access-list-name	(Optional) Name of an ACL, which can be up to 64 alphanumeric, case-sensitive characters.	
Command Default	The switch shows all ACLs unless you use the <i>access-list-name</i> argument to specify an ACL.		
Command Modes	EXEC mode		
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
xamples	This example shows	how to display all IPv4 and MAC ACLs on the switch:	
	switch# show access-lists		
	In Cisco NX-OS Release 5.2(1)N1(1), the following output is displayed:		
	switch# show access-lists		
	<pre>IP access list BulkData 10 deny ip any any IP access list CriticalData 10 deny ip any any IP access list Scavenger 10 deny ip any any MAC access list acl-mac 10 permit any any IP access list denyv4 20 deny ip 10.10.10.0/24 10.20.10.0/24 fragments 30 permit udp 10.10.10.0/24 10.20.10.0/24 lt 400 40 permit icmp any any router-advertisement 60 deny tcp 10.10.10.0/24 10.20.10.0/24 syn 70 permit igmp any any host-report 80 deny tcp any any rst 90 deny tcp any any rst 90 deny tcp any any fin 110 permit tcp any gt 300 any lt 400</pre>		
	<pre>130 deny tcp any range 200 300 any lt 600 140 deny tcp any range 200 300 any lt 600 IP access list dot statistics per-entry 10 permit ip 20.1.1.1 255.255.255.0 20.10.1.1 255.255.255.0 precedence f lash-override 20 deny ip 20.1.1.1/24 20.10.1.1/24 fragments 30 permit tcp any any fragments</pre>		

I

40 deny tcp any eq 400 any eq 500 IP access list ipPacl statistics per-entry 10 deny tcp any eq 400 any eq 500 IP access list ipv4 10 permit ip 10.10.10.1 225.255.255.0 any fragments 20 permit ip any any dscp ef IP access list ipv4Acl 10 permit ip 10.10.10.1/32 10.10.10.2/32 MAC access list test statistics per-entry 10 deny 0000.1111.2222 0000.0000.0000 0000.1111.3333 ffff.0000.0000 IP access list voice 10 remark - avaya rtp range 20 permit udp any range 49072 50175 any range 49072 50175 dscp ef 30 permit udp any range 49072 50175 any range 50176 50353 dscp ef 40 permit udp any range 50176 50353 any range 49072 50175 dscp ef 50 permit udp any range 50176 50353 any range 50176 50353 dscp ef 60 permit udp any range 2048 2815 any range 2048 2815 dscp ef 70 permit udp any range 2048 2815 any range 2816 3028 dscp ef 80 permit udp any range 2816 3028 any range 2816 3028 dscp ef 90 permit udp any range 2816 3028 any range 2048 2815 dscp ef 100 remark -- cisco rtp range switch#

Related Commands

Command	Description
ip access-list	Configures an IPv4 ACL.
mac access-list	Configures a MAC ACL.
show ip access-lists	Displays all IPv4 ACLs or a specific IPv4 ACL.
show mac access-lists	Displays all MAC ACLs or a specific MAC ACL.

show accounting log

To display the accounting log contents, use the **show accounting log** command.

show accounting log [*size*] [**start-time** *year month day HH:MM:SS*] [**end-time** *year month day HH:MM:SS*]

Syntax Description	size	(Optional) Amount of the log to display in bytes. The range is from 0 to 250000.		
	start-time year month day HH:MM:SS	(Optional) Specifies a start time. The <i>year</i> argument is in <i>yyyy</i> format. The <i>month</i> is the three-letter English abbreviation. The <i>day</i> argument range is from 1 to 31. The <i>HH:MM:SS</i> argument is in standard 24-hour format.		
	end-time year month day HH:MM:SS	(Optional) Specifies an end time. The <i>year</i> argument is in <i>yyyy</i> format. The <i>month</i> is the three-letter English abbreviation. The <i>day</i> argument range is from 1 to 31. The <i>HH</i> : <i>MM</i> : <i>SS</i> argument is in standard 24-hour format.		
Command Default	None			
Command Modes	EXEC mode			
Command History	Release	Modification		
	5.2(1)N1(1)	This command was introduced.		
Examples	This example shows how switch# show accounti	v to display the entire accounting log: ng log		
	In Cisco NX-OS Release, this command displays the following output:			
	switch# show accounting log			
	Mon Aug 16 09:37:43 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=conf igure terminal ; interface vfc3 ; bind interface Ethernet1/12 (SUCCESS) Mon Aug 16 09:38:20 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=conf			
	igure terminal ; interface vfc3 ; no shutdown (REDIRECT) Mon Aug 16 09:38:20 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=Inte			
		ted to up 010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=conf rface vfc3 ; no shutdown (SUCCESS)		
	Mon Aug 16 09:38:20 2	010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=conf rface vfc3 ; no shutdown (SUCCESS)		
	Mon Aug 16 09:48:05 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=conf igure terminal ; interface Ethernet2/1 (SUCCESS) Mon Aug 16 09:55:27 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=conf			
	igure terminal ; vtp mode client (FAILURE) Mon Aug 16 09:55:35 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=conf			
	igure terminal ; vtp	mode server (FAILURE) 010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=conf		

Mon Aug 16 10:04:11 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=conf igure terminal ; vtp mode transparent (SUCCESS) Mon Aug 16 10:04:20 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=conf igure terminal ; vtp domain MyDomain (SUCCESS) Mon Aug 16 10:04:39 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=conf igure terminal ; vtp password MyPass (SUCCESS) Mon Aug 16 10:05:17 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=conf igure terminal ; no vtp password (SUCCESS) Mon Aug 16 10:06:46 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=conf igure terminal ; vtp pruning (SUCCESS) Mon Aug 16 10:09:11 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=conf igure terminal ; interface Ethernet1/12 (SUCCESS) Mon Aug 16 10:32:33 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=clea r vtp counters (SUCCESS) Mon Aug 16 10:35:20 2010:type=stop:id=72.163.177.184@pts/0:user=admin:cmd=shell terminated because of telnet closed --More-switch#

This example shows how to display 400 bytes of the accounting log:

switch# show accounting log 400

This example shows how to display the accounting log starting at 16:00:00 on February 16, 2008:

switch# show accounting log start-time 2008 Feb 16 16:00:00

This example shows how to display the accounting log starting at 15:59:59 on February 1, 2008 and ending at 16:00:00 on February 29, 2008:

switch# show accounting log start-time 2008 Feb 1 15:59:59 end-time 2008 Feb 29 16:00:00

Related Commands	Command	Description
	clear accounting log	Clears the accounting log.

show checkpoint

To display the configuration at the time a checkpoint was implemented, use the **show checkpoint** command.

show checkpoint [checkpoint-name] [all [system | user]]

	checkpoint-name	(Optional) Checkpoint name. The name can be a maximum of 32 characters.
	all	(Optional) Displays user-configured and system-configured checkpoints.
	system	(Optional) Displays all system-configured checkpoints.
	user	(Optional) Displays all user-configured checkpoints.
Command Default	None	
Command Modes	EXEC mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Examples	-	now to display the rollback checkpoints configured in the local switch:
Examples	This example shows h switch# show checkp Name: chkpnt-1	
Examples	switch# show checkp	nt cmd vdc 1
Examples	switch# show checkp Name: chkpnt-1 !Command: Checkpoin !Time: Mon Sep 6 0 version 5.2(1)N1(1)	boint at cmd vdc 1 19:40:47 2010
Examples	switch# show checkp Name: chkpnt-1 !Command: Checkpoin !Time: Mon Sep 6 0 version 5.2(1)N1(1) feature telnet	boint at cmd vdc 1 19:40:47 2010
Examples	<pre>switch# show checkp Name: chkpnt-1 !Command: Checkpoin !Time: Mon Sep 6 0 version 5.2(1)N1(1) feature telnet feature tacacs+ cfs eth distribute</pre>	boint at cmd vdc 1 19:40:47 2010
Examples	<pre>switch# show checkp Name: chkpnt-1 !Command: Checkpoin !Time: Mon Sep 6 0 version 5.2(1)N1(1) feature telnet feature tacacs+</pre>	boint at cmd vdc 1 19:40:47 2010
Examples	<pre>switch# show checkp Name: chkpnt-1 !Command: Checkpoin !Time: Mon Sep 6 0 version 5.2(1)N1(1) feature telnet feature tacacs+ cfs eth distribute feature private-vla feature udld feature interface-v</pre>	point at cmd vdc 1 19:40:47 2010
Examples	<pre>switch# show checkp Name: chkpnt-1 !Command: Checkpoin !Time: Mon Sep 6 0 version 5.2(1)N1(1) feature telnet feature tacacs+ cfs eth distribute feature private-vla feature udld feature interface-v feature lacp</pre>	point at cmd vdc 1 19:40:47 2010 m
Examples	<pre>switch# show checkp Name: chkpnt-1 !Command: Checkpoin !Time: Mon Sep 6 0 version 5.2(1)N1(1) feature telnet feature tacacs+ cfs eth distribute feature private-vla feature udld feature interface-v feature lacp feature vpc feature lldp</pre>	point at cmd vdc 1 19:40:47 2010 m
Examples	<pre>switch# show checkp Name: chkpnt-1 !Command: Checkpoin !Time: Mon Sep 6 0 version 5.2(1)N1(1) feature telnet feature tacacs+ cfs eth distribute feature private-vla feature udld feature udld feature interface-v feature lacp feature vpc feature lldp feature fex</pre>	point at cmd vdc 1 19:40:47 2010 m

```
no password strength-check
ip domain-lookup
ip domain-lookup
hostname switch
ip access-list ip1
class-map type qos class-fcoe
 match cos 4
class-map type qos match-all cq1
 match cos 4
 match precedence 7
class-map type qos match-all cq2
 match cos 5
 match dscp 10
class-map type qos match-any cq3
 match precedence 7
<--output truncated-->
switch#
```

This example shows how to display information about a specific checkpoint:

switch# show checkpoint chkpnt-1

```
_____
                                                 _____
Name: chkpnt-1
!Command: Checkpoint cmd vdc 1
!Time: Mon Sep 6 09:40:47 2010
version 5.2(1)N1(1)
feature telnet
feature tacacs+
cfs eth distribute
feature private-vlan
feature udld
feature interface-vlan
feature lacp
feature vpc
feature lldp
feature fex
username adminbackup password 5 ! role network-operator
username admin password 5 $1$KIPRDtFF$7eUMjCAd7Nkhktzebsg5/0 role network-admin
no password strength-check
ip domain-lookup
ip domain-lookup
hostname switch
ip access-list ip1
class-map type qos class-fcoe
 match cos 4
class-map type qos match-all cq1
 match cos 4
 match precedence 7
--More--
switch#
```

This example shows how to display all configured rollback checkpoints:

switch# show checkpoint all

Related Commands

Command	Description
checkpoint	Creates a checkpoint.
rollback	Rolls back the configuration to any of the saved checkpoints.
show checkpoint summary	Displays configuration rollback checkpoints summary.
show checkpoint system	Displays system-defined rollback checkpoints.
show checkpoint user	Displays user-configured rollback checkpoints.

show checkpoint summary

To display a summary of the configured checkpoints, use the show checkpoint summary command.

show checkpoint summary [system | user]

Syntax Description	system	(Optional) Displays a summary of the system-configured checkpoints.	
	user	(Optional) Displays a summary of the user-configured checkpoints.	
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 configuration rollback checkpoints summary:	
	switch# show checkpoint summary User Checkpoint Summary User Checkpoint Summary		
	1) chkpnt-1: Created by admin Created at Tue, 08:10:23 14 Sep 2010 Size is 21,508 bytes Description: Checkpoint to save current configuration, Sep 9 10:02 A.M.		
	2) chkpnt-2: Created by admin Created at Tue, 08:11:46 14 Sep 2010 Size is 21,536 bytes Description: None		
	3) user-checkpoint-4: Created by admin Created at Tue, 08:16:48 14 Sep 2010 Size is 21,526 bytes Description: None		
	switch#		
	This example shows how to display the summary of the system-configured rollback checkpoints: switch# show checkpoint summary system		
	This example shows how to display the summary of the user-configured rollback checkpoints: switch# show checkpoint summary user		
	1) chkpnt-1:		

Created by admin Created at Tue, 08:10:23 14 Sep 2010 Size is 21,508 bytes Description: Checkpoint to save current configuration, Sep 9 10:02 A.M. 2) chkpnt-2: Created by admin Created at Tue, 08:11:46 14 Sep 2010 Size is 21,536 bytes Description: None 3) user-checkpoint-4: Created by admin Created at Tue, 08:16:48 14 Sep 2010 Size is 21,526 bytes Description: None

switch#

Related Commands

Command	Description
checkpoint	Creates a checkpoint.
rollback	Rolls back the configuration to any of the saved checkpoints.
show checkpoint	Displays rollback checkpoints.
show checkpoint system	Displays system-defined rollback checkpoints.
show checkpoint user	Displays user-configured rollback checkpoints.

show checkpoint system

To display only the system-configured checkpoints, use the **show checkpoint system** command.

show checkpoint system

Syntax Description	This command has r	no arguments or keywords.
Command Default	None	
Command Modes	EXEC mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

Related Commands	Command	Description
	checkpoint	Creates a checkpoint.
	rollback	Rolls back the configuration to any of the saved checkpoints.
	show checkpoint	Displays rollback checkpoints.
	show checkpoint user	Displays user-configured rollback checkpoints.

show checkpoint user

To display only the user-configured checkpoints, use the show checkpoint user command.

show checkpoint user

Syntax Description This command has no arguments or keywords. **Command Default** None **Command Modes** EXEC mode Modification **Command History** Release 5.2(1)N1(1) This command was introduced. **Examples** This example shows how to display the rollback checkpoints configured by the current user: switch# show checkpoint user Name: myChkpoint !Command: Checkpoint cmd vdc 1 !Time: Mon Sep 6 09:40:47 2010 version 5.2(1)N1(1) feature telnet feature tacacs+ cfs eth distribute feature private-vlan feature udld feature interface-vlan feature lacp feature vpc feature lldp feature fex username adminbackup password 5 ! role network-operator username admin password 5 \$1\$KIPRDtFF\$7eUMjCAd7Nkhktzebsg5/0 role network-admin no password strength-check ip domain-lookup ip domain-lookup hostname switch ip access-list ip1 class-map type qos class-fcoe match cos 4 class-map type qos match-all cq1 match cos 4 match precedence 7 <--output truncated-->

Γ

switch#

Related Commands

Command	Description
checkpoint Creates a checkpoint.	
rollback	Rolls back the configuration to any of the saved checkpoints.
show checkpoint	Displays rollback checkpoints.
show checkpoint summary	Displays a summary of all configured rollback checkpoints.
show checkpoint system	Displays system-defined rollback checkpoints.

show diff rollback-patch checkpoint

To display the configuration differences between two checkpoints, use the **show diff rollback-patch checkpoint** command.

show diff rollback-patch checkpoint src-checkpoint-name checkpoint dest-checkpoint-name

Syntax Description	src-checkpoint-name	Source checkpoint name. The name can be a maximum of 32 characters.	
	dest-checkpoint-name	Destination checkpoint name. The name can be a maximum of 32 characters.	
Command Default	None		
Command Modes	EXEC mode		
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
Usage Guidelines	current or saved configu	ew the differences between the source and destination checkpoints that reference irations. The configuration differences based on the current running expointed configuration are applied to the system to restore the running state of	
Examples	switch# checkpoint ch < modify configurat switch# checkpoint ch	ion in running configuration>	
	user-checkpoint-4 created Successfully		
	Done switch# < modify configuration in running configuration> switch# show diff rollback-patch checkpoint user-checkpoint-4 checkpoint chkpnt-1 #Generating Rollback Patch !! interface Ethernet1/2 no untagged cos		
	no description Samp exit ! interface Ethernet1/2 channel-group 1		

! line vty switch# rollback chkpnt-1 switch#

Related Commands

Command	Description
checkpoint	Creates a checkpoint.
rollback	Rolls back the configuration to any of the saved checkpoints.
show checkpoint	Displays checkpoint information.
show diff rollback-patch file	Displays the differences between the current checkpoint file and the saved configuration.
show diff rollback-patch running-config	Displays the differences between the current running configuration and the saved checkpoint configuration.

show diff rollback-patch file

To display the differences between the two checkpoint configuration files, use the **show diff rollback-patch file** command.

show diff rollback-patch file {bootflash: | volatile: }[//server][directory/][src-filename]
{checkpoint dest-checkpoint-name | file {bootflash: |
volatile: }[//server][directory/][dest-filename] | running-config | startup-config}

Syntax Description	bootflash:	Specifies the bootflash local writable storage file system.	
Oyntax Description	volatile:	Specifies the volatile local writable storage file system.	
	<i>Ilserver</i>	(Optional) Name of the server. Valid values are ///, //module-1/, //sup-1/, //sup-active/, or //sup-local/. The double slash (//) is required.	
	directory/	(Optional) Name of a directory. The directory name is case sensitive.	
	src-filename	(Optional) Name of the source checkpoint configuration file. The filename is case sensitive.	
	dest-filename	(Optional) Name of the destination checkpoint configuration file. The filename is case sensitive.	
	checkpoint	Specifies a destination checkpoint.	
	dest-checkpoint-name	Destination checkpoint name. The name can be a maximum of 32 characters.	
	file	Specifies the destination checkpoint file.	
	running-config	Specifies that the running configuration be used as the destination.	
	startup-config	Specifies that the startup configuration be used as the destination.	
Command Default	None	colons (:) and slashes (/).	
Command Modes	EXEC mode		
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
Usage Guidelines	files that reference curre	ew the differences between the source and destination checkpoint configuration ent or saved configurations. The configuration differences based on the current nd checkpointed configuration are applied to the system to restore the running	

Examples

This example shows how to view the changes between two checkpoint configurations stored in files in the bootflash storage system:

```
switch# checkpoint chkpnt-1
<-- modify configuration in running configuration--->
switch# checkpoint file bootflash://chkpnt_configSep9-1.txt
<-- modify configuration in running configuration--->
switch# checkpoint file bootflash://chkpnt_configSep9-2.txt
<-- modify configuration in running configuration--->
switch# checkpoint chkpnt-2
switch# show diff rollback-patch file bootflash://chkpnt_configSep9-2.txt file
bootflash://chkpnt_configSep9-1.txt
switch# rollback file bootflash:///chkpnt_configSep9-1.txt
```

```
switch#
```

Related Commands	Command	Description
	rollback	Rolls back the switch to any of the saved checkpoints.
	show checkpoint	Displays checkpoint information.
	show diff rollback-patch checkpoint	Displays the differences between the current checkpoint and the saved configuration.
	show diff rollback-patch running-config	Displays the differences between the current running configuration and the saved checkpoint configuration.

show diff rollback-patch running-config

To display the differences between the current running configuration and the saved (checkpointed) configuration, use the **show diff rollback-patch running-config** command.

show diff rollback-patch running-config {checkpoint checkpoint-name | file {bootflash: |
volatile:}[//server][directory/][filename] | running-config | startup-config}

Syntax Description	checkpoint	Specifies that the checkpoint be used as the destination in the comparison.
	checkpoint-name	Checkpoint name. The name can be a maximum of 32 characters.
	file	Specifies that the checkpoint configuration file be used as the destination in the comparison.
	bootflash:	Specifies the bootflash local writable storage file system.
	volatile:	Specifies the volatile local writable storage file system.
	llserver	(Optional) Name of the server. Valid values are ///, //module-1/, //sup-1/, //sup-active/, or //sup-local/. The double slash (//) is required.
	directoryl	(Optional) Name of a directory. The directory name is case sensitive.
	filename	(Optional) Name of the checkpoint configuration file. The filename is case sensitive.
	running-config	Specifies that the running configuration be used as the destination in the comparison.
	startup-config	Specifies that the startup configuration be used as the destination in the comparison.

Note

There can be no spaces in the *filesystem://server/directory/filename* string. Individual elements of this string are separated by colons (:) and slashes (/).

Command Default None

Command Modes EXEC mode

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

Usage Guidelines

Use this command to view the differences between the current running configuration and destination checkpoints that reference a saved configuration. The configuration differences based on the current running configuration and checkpointed configuration are applied to the system to restore the running state of the system.

Examples

This example shows how to view the configuration changes between the current running configuration and a checkpoint named chkpnt-1:

```
switch# checkpoint chkpnt-1
<-- modify configuration in running configuration--->
switch# checkpoint chkpnt-2
<-- modify configuration in running configuration--->
switch# show diff rollback-patch running-config checkpoint chkpnt-1
Collecting Running-Config
#Generating Rollback Patch
!!
interface Ethernet1/2
    no description Sample config
    exit
switch#
```

This example shows how to view the configuration changes between the current running configuration and a saved configuration in the bootflash storage system:

```
switch# checkpoint chkpnt-1
<-- modify configuration in running configuration--->
switch# checkpoint file bootflash:///chkpnt_configSep9-1.txt
<-- modify configuration in running configuration--->
switch# checkpoint file bootflash:///chkpnt_configSep9-2.txt
<-- modify configuration in running configuration--->
switch# show diff rollback-patch running-config file chkpnt_configSep9-1.txt
```

This example shows how to view the configuration changes between the current running configuration and a checkpointed running configuration:

```
switch# checkpoint chkpnt-1
<-- modify configuration in running configuration--->
switch# checkpoint file bootflash:///chkpnt_configSep9-1.txt
<-- modify configuration in running configuration--->
switch# checkpoint file bootflash:///chkpnt_configSep9-2.txt
<-- modify configuration in running configuration--->
switch# show diff rollback-patch running-config running-config
```

This example shows how to view the configuration changes between the current running configuration and a saved startup configuration:

```
switch# checkpoint chkpnt-1
<-- modify configuration in running configuration--->
switch# checkpoint file bootflash:///chkpnt_configSep9-1.txt
<-- modify configuration in running configuration--->
switch# copy running-config startup-config
switch# checkpoint file bootflash:///chkpnt_configSep9-2.txt
<-- modify configuration in running configuration--->
switch# checkpoint chkpnt-2
switch# show diff rollback-patch running-config startup-config
Collecting Running-Config
Collecting Startup-Config
#Generating Rollback Patch
11
interface Ethernet1/2
 no untagged cos
  no description Sample config
  exit
password strength-check
no username admin
no username adminbackup
1
```

interface Ethernet1/2
 channel-group 1
no feature ssh
no feature telnet
switch#

Related Commands

Command	Description
rollback	Rolls back the switch to any of the saved checkpoints.
show checkpoint	Displays checkpoint information.
show diff rollback-patch checkpoint	Displays the differences between the current checkpoint and the saved configuration.
show diff rollback-patch file	Displays the differences between the current checkpoint file and the saved configuration.
show diff rollback-patch startup-config	Displays the differences between the current startup configuration and the saved checkpoint configuration.

show diff rollback-patch startup-config

To display the differences between the current startup configuration and the saved (checkpointed) configuration, use the **show diff rollback-patch startup-config** command.

show diff rollback-patch startup-config {checkpoint checkpoint-name | file {bootflash: |
 volatile: }[//server][directory/][filename] | running-config | startup-config }

Syntax Description	checkpoint	Specifies that the checkpoint be used as the destination in the comparison.
	checkpoint-name	Checkpoint name. The name can be a maximum of 32 characters.
	file	Specifies that the checkpoint configuration file be used as the destination in the comparison.
	bootflash:	Specifies the bootflash local writable storage file system.
	volatile:	Specifies the volatile local writable storage file system.
	llserver	(Optional) Name of the server. Valid values are ///, //module-1/, //sup-1/, //sup-active/, or //sup-local/. The double slash (//) is required.
	directory/	(Optional) Name of a directory. The directory name is case sensitive.
	filename	(Optional) Name of the checkpoint configuration file. The filename is case sensitive.
	running-config	Specifies that the running configuration be used as the destination in the comparison.
	startup-config	Specifies that the startup configuration be used as the destination in the comparison.
Note		es in the <i>filesystem://server/directory/filename</i> string. Individual elements of this by colons (:) and slashes (/).
Command Default	None	
Command Modes	EXEC mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	checkpoints that refer	view the differences between the current startup configuration and destination rence a saved configuration. The configuration differences based on the current and checkpointed configuration are applied to the system to restore the running

state of the system.

Examples

This example shows how to view the configuration changes between the current startup configuration and a checkpoint named chkpnt-1:

```
switch# checkpoint chkpnt-1
<-- modify configuration in running configuration--->
switch# checkpoint chkpnt-2
<-- modify configuration in running configuration--->
switch# copy running-config startup-config
switch# show diff rollback-patch startup-config checkpoint chkpnt-1
Collecting Startup-Config
#Generating Rollback Patch
1.1
1
feature telnet
feature ssh
username adminbackup password 5 ! role network-operator
username admin password 5 $1$KIPRDtFF$7eUMjCAd7Nkhktzebsg5/0 role network-admin
no password strength-check
switch#
```

This example shows how to view the configuration changes between the current startup configuration and a saved configuration in the bootflash storage system:

```
switch# checkpoint chkpnt-1
<-- modify configuration in running configuration--->
switch# checkpoint file bootflash:///chkpnt_configSep9-1.txt
<-- modify configuration in running configuration--->
switch# checkpoint file bootflash:///chkpnt_configSep9-2.txt
<-- modify configuration in running configuration--->
switch# copy running-config startup-config
switch# show diff rollback-patch startup-config file chkpnt_configSep9-1.txt
```

switch#

This example shows how to view the configuration changes between the current startup configuration and a checkpointed running configuration:

```
<-- modify configuration in running configuration--->
switch# checkpoint file bootflash:///chkpnt_configSep9-1.txt
<-- modify configuration in running configuration--->
switch# checkpoint file bootflash:///chkpnt_configSep9-2.txt
<-- modify configuration in running configuration--->
switch# copy running-config startup-config
<-- modify configuration in running configuration--->
switch# show diff rollback-patch startup-config running-config
Collecting Running-Config
Collecting Startup-Config
#Generating Rollback Patch
1.1
feature telnet
feature ssh
username adminbackup password 5 ! role network-operator
username admin password 5 $1$KIPRDtFF$7eUMjCAd7Nkhktzebsg5/0 role network-admin
no password strength-check
switch#
```

This example shows how to view the configuration changes between the current startup configuration and a saved startup configuration:

```
switch# checkpoint chkpnt-1
```

switch# checkpoint chkpnt-1

<-- modify configuration in running configuration---> switch# checkpoint file bootflash:///chkpnt_configSep9-1.txt <-- modify configuration in running configuration---> switch# copy running-config startup-config switch# checkpoint file bootflash:///chkpnt_configSep9-2.txt <-- modify configuration in running configuration---> switch# show diff rollback-patch startup-config startup-config Collecting Startup-Config #Generating Rollback Patch Rollback Patch is Empty switch#

Related Commands

Command Description	
rollback Rolls back the switch to any of the saved checkpoints.	
show checkpoint Displays checkpoint information.	
show diffDisplays the differences between the current checkpoint and therollback-patchconfiguration.checkpointConfiguration.	
show diff rollback-patch file	Displays the differences between the current checkpoint file and the saved configuration.
show diff rollback-patch running-config	Displays the differences between the current running configuration and the saved checkpoint configuration.

show http-server

To display information about the HTTP or HTTPS configuration, use the show http-server command.

show http-server

Syntax Description	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.
Usage Guidelines	HTTP or HTTPS is enab	oled on the switch by default.
Examples	This example shows how	v to display the status of the HTTP server:
	switch# show http-ser http-server enabled switch#	ver
Related Commands	Command	Description
	feature http-server	Enables or disables the HTTP or HTTPS server on the switch.

show ip access-lists

To display all IPv4 access control lists (ACLs) or a specific IPv4 ACL, use the **show ip access-lists** command.

show ip access-lists [access-list-name]

Syntax Description	access-list-name	(Optional) Name of an IPv4 ACL, which can be up to 64 alphanumeric, case-sensitive characters.
Command Default	The switch shows all	IPv4 ACLs unless you use the <i>access-list-name</i> argument to specify an ACL.
Command Modes	EXEC mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	statistics information	hand displays the IPv4 ACLs configured on the switch. The command displays the for an IPv4 ACL only if the IPv4 ACL is applied to the management (mgmt0) is applied to an SVI interface or in a QoS class map, then the command does not information.
Examples	This example shows l	now to display all IPv4 ACLs on the switch:
	switch# show ip acc	ess-lists
	This example shows l	now to display all IPv4 ACLs on the switch:
	switch# show ip acc IP access list Bulk 10 deny ip IP access list Crit 10 deny ip	Data any any icalData
	IP access list Scav 10 deny ip	venger
	IP access list deny 20 deny ip 30 permit u 40 permit i 60 deny tcp 70 permit i 80 deny tcp 90 deny tcp 100 permit 110 permit 130 deny tc	

```
statistics per-entry
        10 permit ip 20.1.1.1 255.255.255.0 20.10.1.1 255.255.255.0 precedence f
lash-override
        20 deny ip 20.1.1.1/24 20.10.1.1/24 fragments
        30 permit tcp any any fragments
        40 deny tcp any eq 400 any eq 500
IP access list ipPacl
        statistics per-entry
        10 deny tcp any eq 400 any eq 500
IP access list ipv4
        10 permit ip 10.10.10.1 225.255.255.0 any fragments
        20 permit ip any any dscp ef
IP access list ipv4Acl
       10 permit ip 10.10.10.1/32 10.10.10.2/32
IP access list voice
--More--
switch#
```

Related Commands

Command	Description
ip access-list	Configures an IPv4 ACL.
show access-lists	Displays all ACLs or a specific ACL.
show mac access-lists	Displays all MAC ACLs or a specific MAC ACL.

show ip arp

To display the Address Resolution Protocol (ARP) table statistics, use the show ip arp command.

show ip arp [client | [statistics | summary] [ethernet slot/[QSFP-module/]port | loopback intf-num
| mgmt mgmt-intf-num | port-channel channel-num | vlan vlan-id] [fhrp-non-active-learn]
[static] [detail] [vrf {vrf-name | all | default | management}]]

Syntax Description	client	(Optional) Displays ARP information for ARP clients.
	statistics	(Optional) Display the global ARP statistics on teh switch or the ARP statistics for interfaces.
	summary	(Optional) Display the ARP adjacency summary information.
	ethernet slot/[QSFP-module/]port	(Optional) Displays the ARP information for an Ethernet interface. The slot number is from 1 to 255. The <i>QSFP-module</i> number is from 1 to 4. The port number is from 1 to 128.
		Note The <i>QSFP-module</i> number applies only to the QSFP+ Generic Expansion Module (GEM).
	loopback intf-num	(Optional) Displays the ARP information for a loopback interface. The loopback interface number is from 0 to 1023.
	mgmt mgmt-intf-num	(Optional) Displays the ARP information for a management interface. The interface number is 0.
	port-channel channel-num	(Optional) Displays the ARP information for an EtherChannel interface. The channel number range is from 1 to 4096.
	vlan vlan-id	(Optional) Displays the ARP information for a specified VLAN. The range is from 1 to 4094, except for the VLANs reserved for internal use.
	fhrp-non-active-learn	(Optional) Displays the ARP table information learned only due to a request for a nonactive Cisco First Hop Redundancy Protocol (FHRP) address.
	static	(Optional) Displays the static ARP entries.
	detail	(Optional) Displays the detailed ARP information.
	vrf	(Optional) Specifies the virtual routing and forwarding (VRF) to use.
	vrf-name	VRF name. The name can be a maximum of 32 alphanumeric characters and is case sensitive.
	all	Displays all VRF entries for the specified VLAN in the ARP table.
	default	Displays the default VRF entry for the specified VLAN.
	management	Displays the management VRF entry for the specified VLAN.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification	
	6.0(2)N1(2)	Support for the QSFP+ GEM was added.	
	5.2(1)N1(1)	This command was introduced.	
Usage Guidelines	You must use the feature interface-vlan command before you can display the ARP information for VLAN interfaces.		
Examples	This example shows h	how to display the ARP table:	
	switch# show ip arp		
	IP ARP Table for context default Total number of entries: 1 Address Age MAC Address Interface 90.10.10.2 00:03:11 000d.ece7.df7c Vlan900 switch# This example shows how to display the detailed ARP table: switch# show ip arp detail		
	IP ARP Table for co Total number of ent Address Age 90.10.10.2 00: switch#	ries: 1	
	This example shows how to display the ARP table for VLAN 10 and all VRFs: switch# show ip arp vlan 10 vrf all Table 1 describes the fields shown in the above displays.		
	Field	Description	
	IP ARP Table	Description Context in which the ARP table is applied.	
	Total number of entri		
	Address	IP address of the switch that the ARP table automatically maps to the MAC address of the switch.	
	Age	Duration since the switch with a MAC address was mapped to the IP address.	
	MAC Address	MAC address of the switch.	
	Interface	Switch interface where packets are forwarded.	
	Physical Interface	Physical interface, which can one of the following: Ethernet, loopback, EtherChannel, management, or VLAN.	
		· · · · · · · · · · · · · · · · · · ·	
lelated Commands	Command Description		

iands Command Description		Description
	clear ip arp	Clears the ARP cache and table.

Command	Description
feature interface-vlan	Enables the creation of VLAN interfaces.
	Displays the running ARP configuration.
arp	

show ip arp inspection

To display the Dynamic ARP Inspection (DAI) configuration status, use the **show ip arp inspection** command.

show ip arp inspection

	This command has no arguments or keywords.		
Command Default	None		
Command Modes	Any command mode		
Command History	Release M	odification	
	5.0(3)N1(1) Th	nis command was introduced.	
	switch# show ip arp inspe		
Related Commands	Command	Description	
Related Commands	Command	Description	
Related Commands	Command ip arp inspection vlan show ip arp inspection interface	Description Enables DAI for a specified list of VLANs. Displays the trust state and the ARP packet rate for a specified interface.	
Related Commands	ip arp inspection vlan show ip arp inspection	Enables DAI for a specified list of VLANs. Displays the trust state and the ARP packet rate for a specified	
Related Commands	ip arp inspection vlan show ip arp inspection interface	Enables DAI for a specified list of VLANs. Displays the trust state and the ARP packet rate for a specified interface.	
Related Commands	ip arp inspection vlan show ip arp inspection interface show ip arp inspection log show ip arp inspection	 Enables DAI for a specified list of VLANs. Displays the trust state and the ARP packet rate for a specified interface. Displays the DAI log configuration. Displays the DAI statistics. 	

show ip arp inspection interfaces

To display the trust state for the specified interface, use the **show ip arp inspection interfaces** command.

Syntax Description	ethernet slot/[QSFP-module/]port	(Optional) Specifies the Ethernet interface and its slot number and port number. The slot number is from 1 to 255. The <i>QSFP-module</i> number is from 1 to 4. The port number is from 1 to 128.
		Note The <i>QSFP-module</i> number applies only to the QSFP+ Generic Expansion Module (GEM).
	port-channel channel-number	er (Optional) Specifies that the output is for a port-channel interface. Valid port-channel numbers are from 1 to 4096.
Command Default	None	
Command Modes	Any command mode	
Command History	Release Mod	dification
	6.0(2)N1(2) Supp	port for the QSFP+ GEM was added.
	5.2(1)N1(1) This	s command was introduced.
Examples	*	isplay the trust state for a trusted interface: tion interfaces ethernet 2/1
Related Commands	Command	Description
	ip arp inspection vlan	Enables Dynamic ARP Inspection (DAI) for a specified list of VLANs.
	show ip arp inspection	Displays the DAI configuration status.
	show ip arp inspection vlan	Displays DAI status for a specified list of VLANs.
	show running-config dhcp	Displays DHCP snooping configuration, including the DAI configuration.
show ip arp inspection log

To display the Dynamic ARP Inspection (DAI) log configuration, use the **show ip arp inspection log** command.

show ip arp inspection log

Syntax Description	This command has no arguments	s or keywords.
Command Default	None	
Command Modes	Any command mode	
Command History	Release Modifi	ication
	5.0(3)N1(1) This c	ommand was introduced.
Examples	This example shows how to disp switch# show ip arp inspectio Syslog Buffer Size : 12 Syslog Rate : 5 entrie switch#	
Related Commands	Command	Description
	clear ip arp inspection log	Clears the DAI logging buffer.
	ip arp inspection log-buffer	Configures the DAI logging buffer size.
	show ip arp inspection	Displays the DAI configuration status.
	show running-config dhcp	Displays DHCP snooping configuration, including the DAI configuration.

show ip arp inspection statistics

To display the Dynamic ARP Inspection (DAI) statistics, use the **show ip arp inspection statistics** command.

show ip arp inspection statistics [vlan vlan-list]

Syntax Description		nal) Specifies the list of VLANs for which to display DAI statistics. Valid I IDs are from 1 to 4094. You can specify a VLAN or range of VLANs.
Command Default	None	
Command Modes	Any command mode	
Command History	Release M	Iodification
	5.0(3)N1(1) T	his command was introduced.
Examples	This example shows how to switch# show ip arp insp	display the DAI statistics for VLAN 1: ection statistics vlan 1
Related Commands	Command	Description
	clear ip arp inspection statistics vlan	Clears the DAI statistics for a specified VLAN.
	show ip arp inspection log	Displays the DAI log configuration.
	show running-config dhcp	Displays DHCP snooping configuration, including the DAI configuration.

show ip arp inspection vlan

To display the Dynamic ARP Inspection (DAI) status for the specified list of VLANs, use the **show ip arp inspection vlan** command.

show ip arp inspection vlan vlan-list

Syntax Description Command Default Command Modes	spe	t of VLANs that have the DAI status. The <i>vlan-list</i> argument allows you to cify a single VLAN ID, a range of VLAN IDs, or comma-separated IDs and ges. Valid VLAN IDs are from 1 to 4094.
Command History	Release	Modification
oonnana motory	5.0(3)N1(1)	This command was introduced.
Examples	switch# show ip arp in Source Mac Validation Destination Mac Valida IP Address Validation Vlan : 1 Configuration :	: Enabled
Related Commands	Command	Description
	clear ip arp inspection statistics vlan	Clears the DAI statistics for a specified VLAN.
	ip arp inspection vlan	Enables DAI for a specified list of VLANs.
	show ip arp inspection	Displays the DAI configuration status.
	show ip arp inspection interface	Displays the trust state and the ARP packet rate for a specified interface.
	show running-config dhcp	Displays DHCP snooping configuration, including the DAI configuration.

show ip arp sync-entries

To display the Address Resolution Protocol (ARP) table information after an ARP table synchronization, use the **show ip arp sync-entries** command.

show ip arp sync-entries [detail | vrf {vrf-name | all | default | management}]

Syntax Description	detail	(Optional) Displays detailed information about the ARP table.
	vrf	(Optional) Displays ARP table information for a 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 ARP table information for all VRF entries.
	default	Displays ARP table information for the default VRF entry.
	management	Displays ARP table information for the management VRF entry.
Command Default	None	
Command Modes	EXEC mode	
Command History	Release	Modification
	5.1(3)N1(1)	This command was introduced.
Usage Guidelines	This command does not	require a license.
Examples	-	w to display the global ARP statistics on virtual port channels (vPCs):
	switch# show ip arp s	AUC-2UCT 722
Related Commands	Command	Description
	ip arp synchronize	Enables ARP synchronization on a vPC domain.
	show running-config arp	Displays the running configuration information for ARP tables.

show ip dhcp snooping

To display general status information for Dynamic Host Configuration Protocol (DHCP) snooping, use the **show ip dhcp snooping** command.

show ip dhcp snooping

Syntax Description This command has no arguments or keywords. **Command Default** None **Command Modes** Any command mode **Command History** Modification Release 5.2(1)N2(1) This command was introduced. Examples This example shows how to display general status information about DHCP snooping: switch# show ip dhcp snooping DHCP snooping service is enabled Switch DHCP snooping is enabled DHCP snooping is configured on the following VLANs: 1,13 DHCP snooping is operational on the following VLANs: 1 Insertion of Option 82 is disabled Verification of MAC address is enabled DHCP snooping trust is configured on the following interfaces: Interface Trusted _____ _____ Ethernet2/3 Yes switch# **Related Commands** Command Description copy running-config Copies the running configuration to the startup configuration. startup-config Globally enables DHCP snooping on the device. ip dhcp snooping show ip dhcp snooping Displays DHCP snooping statistics. statistics show running-config Displays the DHCP snooping configuration.

Γ

dhcp

show ip dhcp snooping binding

To display IP-to-MAC address bindings for all interfaces or a specific interface, use the **show ip dhcp snooping binding** command.

show ip dhcp snooping binding [IP-address] [MAC-address] [interface ethernet
 slot/[QSFP-module/]port] [vlan vlan-id]

show ip dhcp snooping binding [dynamic]

show ip dhcp snooping binding [static]

Syntax Description	IP-address	(Optional) IPv4 address that the bindings shown must include. Valid entries are in dotted-decimal format.			
	MAC-address	(Optional) MAC address that the bindings shown must include. Valid entries are in dotted-hexadecimal format.			
	interface ethernet <i>slot/[QSFP-module/]port</i>	(Optional) Specifies the Ethernet interface that the bindings shown must be associated with. The slot number is from 1 to 255. The <i>QSFP-module</i> number is from 1 to 4. The port number is from 1 to 128.			
		Note The <i>QSFP-module</i> number applies only to the QSFP+ Generic Expansion Module (GEM).			
	vlan vlan-id	(Optional) Specifies a VLAN ID that the bindings shown must be associated with. Valid VLAN IDs are from 1 to 4094, except for the VLANs reserved for internal use.			
		 Use a hyphen (-) to separate the beginning and ending IDs of a range of VLAN IDs; for example, 70-100. Use a comma (,) to separate individual VLAN IDs and ranges of VLAN IDs; for example, 20,70-100,142. (Optional) Limits the output to all dynamic IP-MAC address bindings. 			
	dynamic				
	static	(Optional) Limits the output to all static IP-MAC address bindings.			
Command Default	None				
Command Modes	Any command mode				
Command History	Release	Modification			
	6.0(2)N1(2)	Support for the QSFP+ GEM was added.			
	5.2(1)N1(1)	This command was introduced.			
Usage Guidelines	The binding interface incl Type column.	udes static IP source entries. Static entries appear with the term "static" in the			

Cisco Nexus 5500 Series NX-OS Security Command Reference

Examples

This example shows how to show all bindings:

switch# show ip dhcp snooping binding

MacAddress	IpAddress	LeaseSec	Туре	VLAN	Interface
Of:00:60:b3:23:33 Of:00:60:b3:23:35 switch#		infinite infinite		13 100	Ethernet2/46 Ethernet2/10

Related Commands	Command	Description
	clear ip dhcp snooping	Clears the DHCP snooping binding database.
	binding	
	copy running-config	Copies the running configuration to the startup configuration.
	startup-config	
	ip dhcp snooping	Globally enables DHCP snooping on the device.
	ip source binding	Creates a static IP source entry for a Layer 2 Ethernet interface.
	show ip dhcp snooping	Displays DHCP snooping statistics.
	statistics	
	show running-config	Displays the DHCP snooping configuration, including the IP Source Guard
	dhcp	configuration.

show ip dhcp snooping statistics

To display Dynamic Host Configuration Protocol (DHCP) snooping statistics, use the **show ip dhcp snooping statistics** command.

show ip dhcp snooping statistics

Syntax Description	This command has no a	This command has no arguments or keywords.		
Command Default	None			
Command Modes	Any command mode			
Command History	Release	Modification		
	5.2(1)N2(1)	This command was introduced.		
Examples	This example shows how to display DHCP snooping statistics: switch# show ip dhcp snooping statistics Packets processed 61343 Packets received through cfsoe 0 Packets forwarded 0 Packets forwarded on cfsoe 0 Total packets dropped 61343 Packets dropped from untrusted ports 0 Packets dropped due to MAC address check failure 0 Packets dropped due to Option 82 insertion failure 0 Packets dropped due to o/p intf unknown 0 Packets dropped due to o/p intf unknown 0 Packets dropped due to dhcp relay not enabled 0 Packets dropped due to interface error/no interface 61343 Packets dropped due to max hops exceeded 0 switch#			
Related Commands	Command	Description		
	copy running-config startup-config	Copies the running configuration to the startup configuration.		
	ip dhcp snooping	Globally enables DHCP snooping on the device.		
	show running-config	Displays the DHCP snooping configuration.		

dhcp

show ipv6 access-lists

To display all IPv6 access control lists (ACLs) or a specific IPv6 ACL, use the **show ipv6 access-lists** command.

show ipv6 access-lists [access-list-name] [expanded | summary]

Syntax Description	access-list-name	(Optional) Name of an IPv6 ACL, which can be up to 64 alphanumeric, case-sensitive characters.			
	expanded	(Optional) Specifies that the contents of IPv6 address groups or port groups show rather than the names of object groups only.			
	summary	(Optional) Specifies that the command displays information about the ACL rather than the ACL configuration. For more information, see the "Usage Guidelines" section.			
Command Default	None				
Command Modes	EXEC mode				
Command History	Release	Modification			
-	5.2(1)N1(1)	This command was introduced.			
Usage Guidelines	The device shows all	IPv6 ACLs, unless you use the access-list-name argument to specify an ACL.			
	The summary keyword allows you to display information about the ACL rather than the ACL configuration. The information displayed includes the following:				
	• Whether per-entry statistics is configured for the ACL.				
	• The number of rules in the ACL configuration. This number does not reflect how many entries the ACL contains when the device applies it to an interface. If a rule in the ACL uses an object group, the number of entries in the ACL when it is applied may be much greater than the number of rules.				
	• The interfaces th	• The interfaces that the ACL is applied to.			
	• The interfaces th	at the ACL is active on.			
	The show ipv6 access-lists command displays statistics for each entry in an ACL if the following conditions are both true:				
	• The ACL configuration contains the statistics per-entry command.				
	• The ACL is appli	ied to an interface that is administratively up.			
Examples	This example shows l	how to display all IPv6 ACLs on a switch:			
Examples					
	switch# show ipv6 access-lists				

Related Commands	Command	Description
	ipv6 access-list	Configures an IPv6 ACL.

show ip verify source

To display the IP Source Guard-enabled interfaces and the IP-to-MAC address bindings, use the **show ip verify source** command.

Syntax Description	interface	(Optional) Specifies that the output is limited to IP-to-MAC address bindings for a particular interface.			
	ethernet slot/[QSFP-module/]po	(Optional) Specifies that the output is limited to bindings for the Ethernet interface given. The slot number is from 1 to 255. The <i>QSFP-module</i> number is from 1 to 4. The port number is from 1 to 128.			
		Note The <i>QSFP-module</i> number applies only to the QSFP+ Generic Expansion Module (GEM).			
	port-channel channel-number	(Optional) Specifies that the output is limited to bindings for the port-channel interface given. Valid port-channel numbers are from 1 to 4096.			
Command Default	None				
Command Modes	Any command mode				
Command History	Release	Modification			
	6.0(2)N1(2)	Support for the QSFP+ GEM was added.			
	5.2(1)N1(1)	This command was introduced.			
Examples	bindings on the switch: switch# show ip veri				
	-	abled on the following interfaces:			
	Ethernet1/5				
	IP source guard opera				
	Interface Fil	ter-mode IP-address Mac-address Vlan			
		active-no-snoop-vlan active-no-snoop-vlan			

Related	Commands
---------	----------

nmands	Command	Description
	ip source binding	Creates a static IP source entry for the specified Ethernet interface.
	ip verify source dhcp-snooping-vlan	Enables IP Source Guard on an interface.
	show running-config dhcp	Displays DHCP snooping configuration, including the IP Source Guard configuration.

show mac access-lists

To display all Media Access Control (MAC) access control lists (ACLs) or a specific MAC ACL, use the **show mac access-lists** command.

show mac access-lists [access-list-name]

Syntax Description	access-list-name	(Optional) Name of a MAC ACL, which can be up to 64 alphanumeric, case-sensitive characters. MAC ACLs unless you use the <i>access-list-name</i> argument to specify an ACL.
Command Modes	EXEC mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Examples	This example shows h	ow to display all MAC ACLs on the switch:
	MAC access list acl 10 permit an MAC access list test statistics p 10 deny 0000	-mac ny any t
	switch#	
Related Commands	Command	Description
	mac access-list	Configures a MAC ACL.
	show access-lists	Displays all ACLs or a specific ACL.
	show ip access-lists	Displays all IPv4 ACLs or a specific IPv4 ACL.

show privilege

To show the current privilege level, username, and status of cumulative privilege support, use the **show privilege** command.

show privilege

Syntax Description This command has no arguments or keywords. **Command Default** None **Command Modes** EXEC mode **Command History** Modification Release 5.2(1)N1(1) This command was introduced. **Usage Guidelines** When the feature privilege command is enabled, privilege roles inherit the permissions of lower level privilege roles. Examples This example shows how to view the current privilege level, username, and status of cumulative privilege support: switch# show privilege User name: admin Current privilege level: -1 Feature privilege: Enabled switch# **Related Commands** Command Description enable Enables a user to move to a higher privilege level. enable secret priv-lvl Enables a secret password for a specific privilege level. feature privilege Enables the cumulative privilege of roles for command authorization on

RADIUS and TACACS+ servers.

Enables a user to use privilege levels for authorization.

username

show radius-server

To display RADIUS server information, use the show radius-server command.

show radius-server [*hostname* | *ipv4-address* | *ipv6-address*] [**directed-request** | groups [*group-name*] | sorted | statistics *hostname* | *ipv4-address* | *ipv6-address*]

Syntax Description	hostname	(Optional) RADIUS server Domain Name Server (DNS) name. The name is alphanumeric, case sensitive, and has a maximum of 256 characters.
	ipv4-address	(Optional) RADIUS server IPv4 address in the A.B.C.D format.
	ipv6-address	(Optional) RADIUS server IPv6 address in the X:X::X:X format.
	directed-request	(Optional) Displays the directed request configuration.
	groups [group-name]	(Optional) Displays information about the configured RADIUS server groups. Supply a <i>group-name</i> to display information about a specific RADIUS server group.
	sorted	(Optional) Displays sorted-by-name information about the RADIUS servers.
	statistics	(Optional) Displays RADIUS statistics for the RADIUS servers. A hostname or IP address is required.
Command Default	Displays the global RAI	DIUS server configuration.
Command Modes	EXEC mode	
Command History	Release	Modification
Command History	Release 5.2(1)N1(1)	Modification This command was introduced.
	5.2(1)N1(1) RADIUS preshared keys	
Usage Guidelines	5.2(1)N1(1) RADIUS preshared keys running-config radius	This command was introduced. s are not visible in the show radius-server command output. Use the show
Usage Guidelines	5.2(1)N1(1) RADIUS preshared keys running-config radius	This command was introduced. s are not visible in the show radius-server command output. Use the show command to display the RADIUS preshared keys. w to display information for all RADIUS servers: server 1 available
Command History Usage Guidelines Examples	5.2(1)N1(1) RADIUS preshared keys running-config radius This example shows how switch# show radius-s retransmission count: timeout value:5 deadtime value:0 source interface:any total number of serve following RADIUS serv 192.168.1.1: avail avail	This command was introduced. s are not visible in the show radius-server command output. Use the show command to display the RADIUS preshared keys. w to display information for all RADIUS servers: server 1 available ers:1

This example shows how to display information for a specified RADIUS server:

```
switch# show radius-server 192.168.1.1
    192.168.1.1:
        available for authentication on port:1812
        available for accounting on port:1813
        RADIUS shared secret:*******
        idle time:0
        test user:test
        test password:*******
switch#
```

This example shows how to display the RADIUS directed request configuration:

```
switch# show radius-server directed-request
disabled
switch#
```

This example shows how to display information for RADIUS server groups:

```
switch# show radius-server groups
total number of groups:2
following RADIUS server groups are configured:
    group radius:
        server: all configured radius servers
        deadtime is 0
    group RadServer:
        server: 192.168.1.1 on auth-port 1812, acct-port 1813
        deadtime is 0
switch#
```

This example shows how to display information for a specified RADIUS server group:

```
switch# show radius-server groups RadServer
group RadServer:
    server: 10.193.128.5 on auth-port 1812, acct-port 1813
    deadtime is 0
switch#
```

This example shows how to display sorted information for all RADIUS servers:

switch#

This example shows how to display statistics for a specified RADIUS servers:

```
switch# show radius-server statistics 192.168.1.1
Server is not monitored
```

```
Authentication Statistics
failed transactions: 0
sucessfull transactions: 0
```

```
requests sent: 0
requests timed out: 0
responses with no matching requests: 0
responses not processed: 0
responses containing errors: 0
Accounting Statistics
failed transactions: 0
sucessfull transactions: 0
requests sent: 0
requests timed out: 0
responses with no matching requests: 0
responses not processed: 0
responses containing errors: 0
switch#
```

Related Commands	Command	Description
	show running-config radius	Displays the RADIUS information in the running configuration file.

show role

To display the user role configuration, use the show role command.

show role [name role-name]

(Optional) Displays information for a specific user role name. **Syntax Description** name role-name **Command Default** Displays information for all user roles. **Command Modes** EXEC mode **Command History** Release Modification 5.2(1)N1(1) This command was introduced. Examples This example shows how to display information for a specific user role: switch# show role name MyRole Role: MyRole Description: new role vsan policy: permit (default) Vlan policy: permit (default) Interface policy: permit (default) Vrf policy: permit (default) _____ Rule Perm Type Scope Entity _____ 1 deny command pwd switch# This example shows how to display information for all user roles: switch# show role Role: network-admin Description: Predefined network admin role has access to all commands on the switch _____ Rule Perm Type Scope Entity _____ 1 permit read-write Role: network-operator Description: Predefined network operator role has access to all read commands on the switch _____ Rule Perm Type Scope Entity _____ permit read 1

```
Role: vdc-admin
 Description: Predefined vdc admin role has access to all commands within
 a VDC instance
                      _____
 Rule Perm Type
                       Scope
                                         Entity
 _____
 1
       permit read-write
Role: vdc-operator
 Description: Predefined vdc operator role has access to all read commands
 within a VDC instance
 _____
      Perm Type
 Rule
                       Scope
                                         Entity
 _____
                            _____
                                               _____
 1 permit read
Role: priv-14
 Description: This is a system defined privilege role.
 vsan policy: permit (default)
 Vlan policy: permit (default)
 Interface policy: permit (default)
 Vrf policy: permit (default)
                                  _____
 Rule Perm Type
                       Scope
                                         Entity
 _____
 1
       permit read-write
Role: priv-13
 Description: This is a system defined privilege role.
 vsan policy: permit (default)
 Vlan policy: permit (default)
 Interface policy: permit (default)
 Vrf policy: permit (default)
Role: priv-12
 Description: This is a system defined privilege role.
 vsan policy: permit (default)
 Vlan policy: permit (default)
 Interface policy: permit (default)
 Vrf policy: permit (default)
Role: priv-11
 Description: This is a system defined privilege role.
 vsan policy: permit (default)
 Vlan policy: permit (default)
 Interface policy: permit (default)
 Vrf policy: permit (default)
Role: priv-10
 Description: This is a system defined privilege role.
 vsan policy: permit (default)
 Vlan policy: permit (default)
 Interface policy: permit (default)
 Vrf policy: permit (default)
Role: priv-9
 Description: This is a system defined privilege role.
 vsan policy: permit (default)
 Vlan policy: permit (default)
 Interface policy: permit (default)
 Vrf policy: permit (default)
Role: priv-8
 Description: This is a system defined privilege role.
```

```
vsan policy: permit (default)
 Vlan policy: permit (default)
  Interface policy: permit (default)
 Vrf policy: permit (default)
Role: priv-7
 Description: This is a system defined privilege role.
 vsan policy: permit (default)
 Vlan policy: permit (default)
  Interface policy: permit (default)
 Vrf policy: permit (default)
Role: priv-6
  Description: This is a system defined privilege role.
  vsan policy: permit (default)
 Vlan policy: permit (default)
 Interface policy: permit (default)
 Vrf policy: permit (default)
Role: priv-5
 Description: This is a system defined privilege role.
 vsan policy: permit (default)
 Vlan policy: permit (default)
 Interface policy: permit (default)
 Vrf policy: permit (default)
Role: priv-4
 Description: This is a system defined privilege role.
  vsan policy: permit (default)
 Vlan policy: permit (default)
 Interface policy: permit (default)
 Vrf policy: permit (default)
Role: priv-3
 Description: This is a system defined privilege role.
 vsan policy: permit (default)
 Vlan policy: permit (default)
  Interface policy: permit (default)
 Vrf policy: permit (default)
Role: priv-2
 Description: This is a system defined privilege role.
 vsan policy: permit (default)
 Vlan policy: permit (default)
 Interface policy: permit (default)
 Vrf policy: permit (default)
Role: priv-1
 Description: This is a system defined privilege role.
 vsan policy: permit (default)
 Vlan policy: permit (default)
 Interface policy: permit (default)
 Vrf policy: permit (default)
Role: priv-0
 Description: This is a system defined privilege role.
  vsan policy: permit (default)
 Vlan policy: permit (default)
  Interface policy: permit (default)
 Vrf policy: permit (default)
   -----
                                              Entity
 Rule Perm Type
                           Scope
  _____
 10
       permit command
                                                traceroute6 *
```

```
9
      permit command
                                    traceroute *
 8
      permit command
                                    telnet6 *
 7
      permit command
                                    telnet *
 6
      permit command
                                    ping6 *
 5
      permit command
                                    ping *
 4
      permit command
                                    ssh6 *
 3
                                    ssh *
      permit command
 2
                                    enable *
      permit command
Role: default-role
 Description: This is a system defined role and applies to all users.
 vsan policy: permit (default)
 Vlan policy: permit (default)
 Interface policy: permit (default)
 Vrf policy: permit (default)
 _____
 Rule Perm Type Scope
                                   Entity
 _____
 5
      permit command
                                    feature environment
 4
      permit command
                                    feature hardware
      permit command
 3
                                    feature module
      permit command
 2
                                    feature snmp
                                    feature system
 1
      permit command
Role: priv-15
 Description: This is a system defined privilege role.
 vsan policy: permit (default)
 Vlan policy: permit (default)
 Interface policy: permit (default)
 Vrf policy: permit (default)
 _____
     Perm Type
                 Scope
 Rule
                                   Entity
 _____
                                         _____
 1 permit read-write
Role: MyRole
 Description: new role
 vsan policy: permit (default)
 Vlan policy: permit (default)
 Interface policy: permit (default)
 Vrf policy: permit (default)
 _____
 Rule Perm Type
                    Scope
                                   Entity
 _____
 1
      deny command
                                    pwd
switch#
```

Related Commands

Command

role name

 Description

 Configures user roles.

show role feature

To display the user role features, use the **show role feature** command.

show role feature [detail | name feature-name]

Syntax Description	detail	(Optional) Displays detailed information for all features.	
	name feature-no	<i>(Optional)</i> Displays detailed information for a specific feature. The name can be a maximum of 16 alphanumeric characters and is case sensitive.	
Command Default	Displays a list of	f user role feature names.	
ommand Modes	EXEC mode		
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
xamples	This example sho	ows how to display the user role features:	
	switch# show role feature		
	aaa	(AAA service related commands)	
	arp	(ARP protocol related commands)	
	cdp	(Cisco Discovery Protocol related commands)	
	13vm	(Layer 3 virtualization related commands)	
	ping	(Network reachability test commands)	
	snmp	(SNMP related commands)	
	radius	(Radius configuration and show commands)	
	syslog	(Syslog related commands)	
	tacacs	(TACACS configuration and show commands)	
	install	(Software install related commands)	
	license	(License related commands)	
	callhome	(Callhome configuration and show commands) (Platform configuration and show commands)	
	platform access-list	(IP access list related commands)	
	svi	(Interface VLAN related commands)	
	vlan	(Virtual LAN related commands)	
	eth-span	(Ethernet SPAN related commands)	
	ethanalyzer	(Ethernet Analyzer)	
	spanning-tree	(Spanning Tree protocol related commands)	
	acl	(FC ACL related commands)	
	sfm	(ISCSI flow related commands)	
	fcns	(Fibre Channel Name Server related commands)	
	fcsp	(Fibre Channel Security Protocol related commands)	
	fdmi	(FDMI related commands)	
	fspf	(Fabric Shortest Path First protocol related commands)	
	rlir	(Registered Link Incident Report related commands)	
	rscn	(Registered State Change Notification related commands)	
	span	(SPAN session relate commands)	
	vsan	(VSAN configuration and show commands)	

```
wwnm (WorldWide Name related commands)
zone (Zone related commands)
fcanalyzer (FC analyzer related commands)
switch#
```

This example shows how to display detailed information all the user role features:

```
switch# show role feature detail
```

```
aaa
                 (AAA service related commands)
 show aaa *
  config t ; aaa *
  aaa *
  clear aaa *
  debug aaa *
  show accounting *
  config t ; accounting *
  accounting *
  clear accounting *
  debug accounting *
                (ARP protocol related commands)
arp
  show ip arp *
  config t; ip arp *
  clear ip arp *
  debug ip arp *
  debug-filter ip arp *
cđp
                (Cisco Discovery Protocol related commands)
  show cdp *
  config t ; cdp *
  cdp *
  clear cdp *
  debug cdp *
13vm
                (Layer 3 virtualization related commands)
  show vrf *
  config t ; vrf *
  routing-context vrf *
                (Network reachability test commands)
ping
  show ping *
  config t ; ping *
 ping *
 clear ping *
  debug ping *
  show ping6 *
  config t ; ping6 *
  ping6 *
 clear ping6 *
  debug ping6 *
  show traceroute *
  config t ; traceroute *
--More--
switch#
```

This example shows how to display detailed information for a specific user role feature named arp:

```
switch# show role feature name arp
```

```
arp (ARP protocol related commands)
show ip arp *
config t; ip arp *
clear ip arp *
debug ip arp *
debug-filter ip arp *
switch#
```

Related Commands	Command	Description
	role feature-group	Configures feature groups for user roles.
	rule	Configures rules for user roles.

show role feature-group

To display the user role feature groups, use the **show role feature-group** command.

show role feature-group [detail | name group-name]

Syntax Description	detail	(Optional) Displays detailed information for all feature groups.
	name group-name	(Optional) Displays detailed information for a specific feature group.
Command Default	Displays a list of user	role feature groups.
command Modes	EXEC mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Examples	switch# show role fe	ow to display the user role feature groups: Auture-group ow to display detailed information about all the user role feature groups:
	switch# show role fe	
	This example shows he	ow to display information for a specific user role feature group:
	switch# show role fe	ature-group name SecGroup
Related Commands	Command	Description
	role feature-group	Configures feature groups for user roles.
	rule	Configures rules for user roles.

show rollback log

To display the log of configuration rollbacks on the switch, use the **show rollback log** command.

show rollback log {exec | verify}

Syntax Description	0700	Displays the collhest execution log
	exec	Displays the rollback execution log.
	verify	Displays the rollback verify log.
Command Default	None	
Command Modes	EXEC mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	If the rollback log is ERROR: Log Not Av	s empty, the following message appears:
Examples	switch# show rolb	
Examples	switch# show rolb time: Mon, 06:16: Status: success	ack log exec 02 06 Sep 2010
Examples	switch# show rolb time: Mon, 06:16: Status: success time: Mon, 07:58: Status: success	ack log exec 02 06 Sep 2010 36 06 Sep 2010
Examples	switch# show rolb time: Mon, 06:16: Status: success time: Mon, 07:58: Status: success	ack log exec 02 06 Sep 2010 36 06 Sep 2010
Examples	switch# show rolb time: Mon, 06:16: Status: success time: Mon, 07:58: Status: success time: Mon, 09:48: Status: success switch#	ack log exec 02 06 Sep 2010 36 06 Sep 2010
Examples	switch# show rolb time: Mon, 06:16: Status: success time: Mon, 07:58: Status: success time: Mon, 09:48: Status: success switch#	ack log exec 02 06 Sep 2010 36 06 Sep 2010 58 06 Sep 2010 s how to display the rollback verification log:
Examples	<pre>switch# show rolb time: Mon, 06:16: Status: success time: Mon, 07:58: Status: success time: Mon, 09:48: Status: success switch# This example shows switch# show roll time: Mon, 09:48: Status: success</pre>	ack log exec 02 06 Sep 2010 36 06 Sep 2010 58 06 Sep 2010 s how to display the rollback verification log: back log verify

Related Commands	Command	Description
	rollback	Restores the active configuration to the checkpoint state.

show running-config aaa

To display authentication, authorization, and accounting (AAA) configuration information in the running configuration, use the **show running-config aaa** command.

show running-config aaa [all]

Syntax Description	all	(Optional) Displays configured and default information.
ommand Default	None	
ommand Modes	EXEC mode	
ommand History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
<u> </u>		
kamples	-	to display the configured AAA information in the running configuration:
	switch# show running-c	config aaa
elated Commands	Command	Description
elated Commands		Description Configures AAA methods for accounting.
elated Commands		Configures AAA methods for accounting.
elated Commands	aaa accounting default	-
elated Commands	aaa accounting default aaa authentication	Configures AAA methods for accounting.
elated Commands	aaa accounting default aaa authentication login console	Configures AAA methods for accounting. Configures AAA authentication methods for console login.
elated Commands	aaa accounting default aaa authentication login console aaa authentication login default aaa authentication	Configures AAA methods for accounting. Configures AAA authentication methods for console login.
elated Commands	aaa accounting default aaa authentication login console aaa authentication login default	Configures AAA methods for accounting. Configures AAA authentication methods for console login. Configures the default AAA authentication methods.
elated Commands	aaa accounting defaultaaa authenticationlogin consoleaaa authenticationlogin defaultaaa authenticationlogin error-enableaaa authorization	Configures AAA methods for accounting. Configures AAA authentication methods for console login. Configures the default AAA authentication methods. Configures the AAA authentication failure message to display on the
elated Commands	aaa accounting default aaa authentication login console aaa authentication login default aaa authentication login error-enable	Configures AAA methods for accounting. Configures AAA authentication methods for console login. Configures the default AAA authentication methods. Configures the AAA authentication failure message to display on the console. Configures default AAA authorization methods.
elated Commands	aaa accounting defaultaaa authenticationlogin consoleaaa authenticationlogin defaultaaa authenticationlogin error-enableaaa authorizationcommands defaultaaa authorization	Configures AAA methods for accounting. Configures AAA authentication methods for console login. Configures the default AAA authentication methods. Configures the AAA authentication failure message to display on the console. Configures default AAA authorization methods.
elated Commands	aaa accounting defaultaaa authenticationlogin consoleaaa authenticationlogin defaultaaa authenticationlogin error-enableaaa authorizationcommands defaultaaa authorizationconfig-commands	Configures AAA methods for accounting. Configures AAA authentication methods for console login. Configures the default AAA authentication methods. Configures the AAA authentication failure message to display on the console. Configures default AAA authorization methods.
elated Commands	aaa accounting defaultaaa authenticationlogin consoleaaa authenticationlogin defaultaaa authenticationlogin error-enableaaa authorizationcommands defaultaaa authorizationconfig-commandsdefault	Configures AAA methods for accounting. Configures AAA authentication methods for console login. Configures the default AAA authentication methods. Configures the AAA authentication failure message to display on the console. Configures default AAA authorization methods. Configures the default AAA authorization methods. Configures the default AAA authorization methods. Configures the default AAA authorization methods.
elated Commands	aaa accounting defaultaaa authenticationlogin consoleaaa authenticationlogin defaultaaa authenticationlogin error-enableaaa authorizationcommands defaultaaa authorizationconfig-commands	Configures AAA methods for accounting. Configures AAA authentication methods for console login. Configures the default AAA authentication methods. Configures the AAA authentication failure message to display on the console. Configures default AAA authorization methods. Configures the default AAA authorization methods for all configuration
elated Commands	aaa accounting defaultaaa authenticationlogin consoleaaa authenticationlogin defaultaaa authenticationlogin error-enableaaa authorizationcommands defaultaaa authorizationconfig-commandsdefaultaaa group server	Configures AAA methods for accounting. Configures AAA authentication methods for console login. Configures the default AAA authentication methods. Configures the AAA authentication failure message to display on the console. Configures default AAA authorization methods. Configures the default AAA authorization methods. Configures the default AAA authorization methods.

show running-config aclmgr

To display the access control list (ACL) configuration in the running configuration, use the **show running-config aclmgr** command.

show running-config aclmgr [all]

Syntax Description	all	(Optional) Displays configured and default information.
Command Default	None	
Command Modes	Any command mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Examples	-	ow to display the ACL running configuration:
	30 permit udp 10.1 40 permit icmp any 60 deny tcp 10.10. 70 permit igmp any 80 deny tcp any an 90 deny tcp any an 100 permit tcp any 110 permit tcp any 130 deny tcp any r 140 deny tcp any r ip access-list dot statistics per-ent	ng-config aclmgr :01:56 2010 ata calData nger mac 4 0.0/24 10.20.10.0/24 fragments 0.10.0/24 10.20.10.0/24 fragments 0.10.0/24 10.20.10.0/24 lt 400 any router-advertisement 10.0/24 10.20.10.0/24 syn any host-report y rst y ack any fin gt 300 any lt 400 ange 200 300 any lt 600

: vlan access-map vacl-mac match mac address acl-mac action forward statistics per-entry vlan filter vacl-mac vlan-list 300 interface Ethernet1/1 ipv6 port traffic-filter denv6 in interface Ethernet1/2 ip port access-group voice in interface Ethernet1/9 ipv6 port traffic-filter denv6 in interface Ethernet1/10 ipv6 port traffic-filter denv6 in line vty access-class myACList in access-class myACList out ipv6 access-class myI6List out

switch#

This example shows how to display only the VTY running configuration:

```
switch# show running-config aclmgr | begin vty
line vty
access-class myACList in
access-class myACList out
ipv6 access-class myI6List out
```

switch#

Related Commands

Command	Description
access-class	Configures access classes for VTY.
copy running-config startup-config	Copies the running configuration to the startup configuration file.
ip access-class	Configures IPv4 access classes for VTY.
ipv6 access-class	Configures IPv6 access classes for VTY.
show startup-config aclmgr	Displays the ACL startup configuration.

show running-config arp

To display the Address Resolution Protocol (ARP) configuration in the running configuration, use the **show running-config arp** command.

show running-config arp [all]

Syntax Description	all (Optional) Displays configured and default information.			
Command Default	None			
Command Modes	Any command mode			
Command History	Release	Modification		
	5.2(1)N1(1)	This command was introduced.		
Examples	This example sho	ws how to display the ARP configuration:		
	switch# show running-config arp			
	!Command: show running-config arp !Time: Mon Aug 23 07:33:15 2010			
	version 5.2(1)N1(1) ip arp timeout 2100 ip arp event-history errors size medium			
	interface Vlan10 ip arp 10.193.131.37 00C0.4F00.0000			
	switch#			
	This example shows how to display the ARP configuration with the default information:			
	switch# show running-config arp all			
		running-config arp all 23 07:33:52 2010		
	<pre>version 5.2(1)N1(1) ip arp timeout 1500 ip arp event-history cli size small ip arp event-history snmp size small ip arp event-history client-errors size small ip arp event-history client-event size small ip arp event-history lcache-errors size small ip arp event-history lcache size small</pre>			
	ip arp event-hi ip arp event-hi	story errors size small story ha size small story event size small story packet size small		

```
interface Vlan10
  ip arp 10.193.131.37 00C0.4F00.0000
  ip arp gratuitous update
  ip arp gratuitous request
switch#
```

Related Commands	Command	Description
	copy running-config startup-config	Copies the running configuration to the startup configuration file.
	ip arp event-history errors	Logs ARP debug events into the event history buffer.
	ip arp timeout	Configures an ARP timeout.
	ip arp inspection	Displays general information about DHCP snooping.
	show startup-config	Displays the ARP startup configuration.
	arp	

show running-config dhcp

To display the Dynamic Host Configuration Protocol (DHCP) snooping configuration in the running configuration, use the **show running-config dhcp** command.

show running-config dhcp [all]

Syntax Description	all	(Optional) Displays configured and default information.	
Command Default	None		
Command Modes	Any command mode		
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
Usage Guidelines	To use this comman	id, you must enable the DHCP snooping feature using the feature dhcp command.	
Examples	This example shows how to display the DHCP snooping configuration: switch# show running-config dhcp !Command: show running-config dhcp !Time: Mon Aug 23 09:09:11 2010		
	<pre>version 5.2(1)N1(1) feature dhcp ip dhcp snooping ip dhcp snooping information option service dhcp ip dhcp relay ip dhcp relay ip dhcp relay information option ip arp inspection filter arp-acl-01 vlan 15,37-48</pre>		
	switch#		
	This example shows how to display the DHCP snooping configuration with the default information:		
	switch# show running-config dhcp all		
	!Command: show ru !Time: Mon Aug 23	nning-config dhcp all 09:10:11 2010	
	version 5.2(1)N1(feature dhcp	1)	
	ip dhcp snooping		

```
ip dhcp snooping information option
ip dhcp snooping verify mac-address
service dhcp
ip dhcp relay
ip dhcp relay information option
no ip dhcp relay sub-option type cisco
no ip dhcp relay information option vpn
no ip arp inspection validate src-mac dst-mac ip
ip arp inspection log-buffer entries 32
no ip dhcp packet strict-validation
interface port-channel23
 no ip dhcp snooping trust
 no ip arp inspection trust
 no ip verify source dhcp-snooping-vlan
interface port-channel67
 no ip dhcp snooping trust
  no ip arp inspection trust
 no ip verify source dhcp-snooping-vlan
interface port-channel150
 no ip dhcp snooping trust
  no ip arp inspection trust
 no ip verify source dhcp-snooping-vlan
interface port-channel400
  no ip dhcp snooping trust
  no ip arp inspection trust
 no ip verify source dhcp-snooping-vlan
<--output truncated-->
switch#
```

Related Commands	Command	Description
	copy running-config startup-config	Copies the running configuration to the startup configuration.
	feature dhcp	Enables the DHCP snooping feature on the device.
	ip dhcp snooping	Globally enables DHCP snooping on the device.
	ip verify source	Enables IP Source Guard on a Layer 2 interface.
	show ip dhcp snooping	Displays general information about DHCP snooping.
	show ip verify source	Displays the IP-MAC address bindings.
	show startup-config dhcp	Displays the DHCP startup configuration.

show running-config radius

To display RADIUS server information in the running configuration, use the **show running-config radius** command.

show running-config radius [all]

Syntax Description	all	(Optional) Displays default RADIUS configuration information.	
Command Default	None		
Command Modes	EXEC mode		
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
Examples	This example shows how to display information for RADIUS in the running configuration: switch# show running-config radius !Command: show running-config radius		
	!Time: Wed Aug 25 10:25:41 2010		
	version 5.2(1)N1(1) radius-server host 192.168.1.1 key 7 "KkwyCet" authentication accounting aaa group server radius r1 server 192.168.1.1		
	switch#		
Related Commands		Description	

Related Commands	Command	Description
	show radius-server	Displays RADIUS information.

show running-config security

To display user account, Secure Shell (SSH) server, and Telnet server information in the running configuration, use the **show running-config security** command.

show running-config security [all]

Syntax Description	all	(Optional) Displays default user account, SSH server, and Telnet server configuration information.
Command Default	None	
Command Modes	EXEC mode	
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Examples	This example shows how to display user account, SSH server, and Telnet server information in the running configuration: switch# show running-config security !Command: show running-config security !Time: Wed Aug 25 10:27:20 2010 version 5.2(1)N1(1) feature telnet username admin password 5 \$1\$eKzwPRms\$5QB0PxpkXdp6ZKkME/vSS1 role network-admin username praveena password 5 \$1\$9W6ZnM/R\$Pg50fsV/vk0aAGW.f.RyP. role network-op erator username install password 5 ! role network-admin username user1 password 5 ! role priv-5 no password strength-check	
	switch#	

Related Commands	Command	Description
	ssh	Creates a Secure Shell (SSH) connection using IPv4.
	ssh6	Creates a Secure Shell (SSH) connection using IPv6.
	telnet	Creates a Telnet session using IPv4.
	telnet6	Creates a Telnet session using IPv6.
	username	Configures a user account.
show ssh key

To display the Secure Shell (SSH) server key, use the show ssh key command.

show ssh key

Syntax Description	This command has no a	arguments or keywords.
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Command Default None

Command Modes EXEC mode

 Release
 Modification

 5.2(1)N1(1)
 This command was introduced.

Usage Guidelines This command is available only when SSH is enabled using the **ssh server enable** command.

Examples This example shows how to display the SSH server key:

switch# show ssh key

ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAIEA0iACA1fHAeIaY6PD5fSBLqGX3MIn+k72qhdvLNib7dL7
8CRQVS1AlQiDDTrvyIfRZ5yHMDQndvcmRfkJzluSCW2FP8vokZ66aXFk8TBTFc5Bn3NUiUyPZyhPtFD2
LaHBCkx10MxEP+nmPJ6Qf6mBzZVAIdLw8Nd64ZwqVHHjeFc=

Related Commands	Command	Description
	ssh server key	Configures the SSH server key.

show ssh server

To display the Secure Shell (SSH) server status, use the **show ssh server** command.

show ssh server

Syntax Description	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 shows he switch# show ssh ser ssh version 2 is ena switch#	
Related Commands	Command	Description
	ssh server enable	Enables the SSH server.

show startup-config aaa

To display authentication, authorization, and accounting (AAA) configuration information in the startup configuration, use the **show startup-config aaa** command.

show startup-config aaa

Syntax Description	This command has no an	rguments 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 shows how switch# show startup-	w to display the AAA information in the startup configuration:
Related Commands	Command	Description
	show running-config	Displays AAA configuration information in the running configuration.

show startup-config aclmgr

To display the access control list (ACL) configuration in the startup configuration, use the **show startup-config aclmgr** command.

show startup-config aclmgr [all]

Syntax Description	all	(Optional) Displays configured and default information.	
Command Default	None		
Command Modes	Any command moc	le	
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
Examples	This example show	s how to display the ACL startup configuration:	
	switch# show startup-config aclmgr		
	<pre>!Command: show st !Time: Tue Aug 31 version 5.2(1)N1(ip access-list Bu 10 deny ip any ip access-list Cr</pre>	1) ilkData any	
	10 deny ip any any ip access-list Scavenger 10 deny ip any any		
	30 permit udp 1 40 permit icmp	any	
	80 deny tcp any 90 deny tcp any 100 permit tcp 110 permit tcp 130 deny tcp an 140 deny tcp an	v any ack	
	: <snip> : vlan access-map v match mac addre action forward</snip>		

```
statistics per-entry
vlan filter vacl-mac vlan-list 300
interface Ethernet1/1
  ipv6 port traffic-filter denv6 in
interface Ethernet1/2
  ip port access-group voice in
interface Ethernet1/9
  ipv6 port traffic-filter denv6 in
interface Ethernet1/10
  ipv6 port traffic-filter denv6 in
line vty
  access-class myACList in
  access-class myACList out
  ipv6 access-class myI6List out
switch#
```

This example shows how to display only the VTY startup configuration:

```
switch# show startup-config aclmgr | begin vty
line vty
access-class myACList in
access-class myACList out
ipv6 access-class myI6List out
```

switch#

Related Commands	Command	Description
	access-class	Configures access classes for VTY.
	copy running-config startup-config	Copies the running configuration to the startup configuration file.
	ip access-class	Configures IPv4 access classes for VTY.
	ipv6 access-class	Configures IPv6 access classes for VTY.
	show running-config aclmgr	Displays the ACL running configuration.

show startup-config arp

To display the Address Resolution Protocol (ARP) configuration in the startup configuration, use the **show startup-config arp** command.

show startup-config arp [all]

Syntax Description	all	(Optional) Displays configured and default information.
Command Default	None	
Command Modes	Any command mod	le
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Examples	This example shows switch# show star	s how to display the ARP startup configuration:
	!Command: show ru !Time: Mon Aug 23	
	version 5.2(1)N1(ip arp timeout 21 ip arp event-hist	
	interface Vlan10 ip arp 10.193.1	31.37 00C0.4F00.0000
	switch#	

Related Commands	Command	Description
	copy running-config startup-config	Copies the running configuration to the startup configuration file.
	ip arp event-history errors	Logs ARP debug events into the event history buffer.
	ip arp timeout	Configures an ARP timeout.
	ip arp inspection	Displays general information about DHCP snooping.
	show running-config	Displays the ARP running configuration.
	arp	

show startup-config dhcp

To display the Dynamic Host Configuration Protocol (DHCP) snooping configuration in the startup configuration, use the **show running-config dhcp** command.

show running-config dhcp [all]

Syntax Description	all (Optional) Displays configured and default information.		
Syntax Description	an (Optional) Displays configured and default information.		
Command Default	None		
Command Modes	Any command mode		
Command History	Release Modification		
-	5.2(1)N2(1)This command was introduced.		
Usage Guidelines	To use this command, you must enable the DHCP snooping feature using the feature dhcp command.		
Examples	This example shows how to display the DHCP snooping configuration in the startup configuration file:		
	switch# show startup-config dhcp !Command: show startup-config dhcp !Time: Mon Aug 23 09:09:14 2010		
	version 5.2(1)N1(1) feature dhcp		
	ip dhcp snooping ip dhcp snooping information option service dhcp ip dhcp relay		
	ip dhcp relay information option		
	ip arp inspection filter arp-acl-01 vlan 15,37-48		
	switch#		

Related Commands	Command	Description
	copy running-config startup-config	Copies the running configuration to the startup configuration.

Command	Description
feature dhcp	Enables the DHCP snooping feature on the device.
show running-config dhcp	Displays the DHCP running configuration.

show startup-config radius

To display RADIUS configuration information in the startup configuration, use the **show startup-config radius** command.

show startup-config radius

Syntax Description	This command has no ar	rguments 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 shows hov switch# show startup-	w to display the RADIUS information in the startup configuration: config radius
Related Commands	Command	Description

show startup-config security

To display user account, Secure Shell (SSH) server, and Telnet server configuration information in the startup configuration, use the **show startup-config security** command.

show startup-config security

Syntax Description	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 shows how to display the user account, SSH server, and Telnet server information in the startup configuration: switch# show startup-config security		
Related Commands	Command	Description	
	show running-config security	Displays user account, Secure Shell (SSH) server, and Telnet server information in the running configuration.	

show tacacs-server

To display TACACS+ server information, use the **show tacacs-server** command.

show tacacs-server [hostname | ip4-address | ip6-address] [directed-request | groups | sorted |
statistics]

Syntax Description	hostname	(Optional) TACACS+ server Domain Name Server (DNS) name. The maximum character size is 256.		
	ipv4-address	(Optional) TACACS+ server IPv4 address in the A.B.C.D format.		
	<i>ipv6-address</i> (Optional) TACACS+ server IPv6 address in the X:X:X::X format. directed-request (Optional) Displays the directed request configuration.			
	groups	(Optional) Displays information about the configured TACACS+ server groups.		
	sorted	(Optional) Displays sorted-by-name information about the TACACS+ servers.		
	statistics	(Optional) Displays TACACS+ statistics for the TACACS+ servers.		
Command Default	Displays the global T	ACACS+ server configuration.		
Command Modes	EXEC mode			
Command History	Release	Modification		
	5.2(1)N1(1)	This command was introduced.		
Jsage Guidelines	running-config tacac	keys are not visible in the show tacacs-server command output. Use the show s+ command to display the TACACS+ preshared keys. cure tacacs+ command before you can display TACACS+ information.		
xamples	This example shows how to display information for all TACACS+ servers: switch# show tacacs-server			
	This example shows how to display information for a specified TACACS+ server:			
	switch# show tacacs-server 192.168.2.2			
	This example shows how to display the TACACS+ directed request configuration: switch# show tacacs-server directed-request			
	TT1.'	to display information for TACACS		
	This example shows h	now to display information for TACACS+ server groups:		

This example shows how to display information for a specified TACACS+ server group: switch# show tacacs-server groups TacServer

This example shows how to display sorted information for all TACACS+ servers: switch# show tacacs-server sorted

This example shows how to display statistics for a specified TACACS+ server: switch# show tacacs-server statistics 192.168.2.2

Related Commands	Command	Description
	show running-config	Displays the TACACS+ information in the running configuration file.
	tacacs+	

show telnet server

To display the Telnet server status, use the show telnet server command.

Syntax Description This command has no arguments or keywords	s.
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- Command Default None
- **Command Modes** EXEC mode

 Release
 Modification

 5.2(1)N1(1)
 This command was introduced.

Examples This example shows how to display the Telnet server status: switch# show telnet server

Related Commands	Command	Description
	telnet server enable	Enables the Telnet server.

show user-account

To display information about the user accounts on the switch, use the show user-account command.

show user-account [name]

Syntax Description	<i>name</i> (Optional) Information about the specified user account only.					
Command Default	Displays informati	Displays information about all the user accounts defined on the switch.				
Command Modes	EXEC mode					
Command History	Release	Modification				
	5.2(1)N1(1)	This command was introduced.				
Examples	This example shows how to display information about all the user accounts defined on the switch: switch# show user-account					
	<pre>user:admin</pre>					
	user:admin this user account has no expiry date roles:network-admin switch#					

Related Commands	Command	Description	
	username	Configures a user account.	

show users

To display the users currently logged on the switch, use the **show users** command.

show users

Syntax Description	This command has no arguments or keywords.
	This command has no arguments of hey words.

- Command Default None
- Command Modes EXEC mode

 Release
 Modification

 5.2(1)N1(1)
 This command was introduced.

Examples

This example shows how to display all the users currently logged on the switch:

switch#	show users				
NAME	LINE	TIME	IDLE	PID	COMMENT
admin	ttyS0	Aug 24 22:19	10:41	4681	
admin	pts/0	Aug 25 03:39	•	8890	(72.163.177.191) *
switch#					

Related Commands

Command	Description
clear user	Logs out a specific user.
username	Creates and configures a user account.

show vlan access-list

To display the contents of the IPv4 access control list (ACL) or MAC ACL associated with a specific VLAN access map, use the **show vlan access-list** command.

show vlan access-list map-name

Syntax Description	<i>map-name</i> VLAN access list to show.			
Command Default	None			
Command Modes	EXEC mode			
Command History	Release	Modification		
	5.2(1)N1(1)	This command was introduced.		
Usage Guidelines Examples	ACL associated with the	access map, the switch displays the access map name and the contents of the map. w to display the contents of the ACL associated with the specified VLAN access		
	switch# show vlan acc	ess-list vlan1map		
Related Commands	Command	Description		
	ip access-list	Creates or configures an IPv4 ACL.		
	mac access-list	Creates or configures a MAC ACL.		
	show access-lists	Displays information about how a VLAN access map is applied.		
	show ip access-lists	Displays all IPv4 ACLs or a specific IPv4 ACL.		
	show mac access-lists	Displays all MAC ACLs or a specific MAC ACL.		
	vlan access-map	Configures a VLAN access map.		

show vlan access-map

To display all VLAN access maps or a VLAN access map, use the show vlan access-map command.

show vlan access-map [map-name]

Syntax Description	map-name	(Optional) VLAN access map to show.	
Command Default	The switch shows all VLAN access maps, unless you use the <i>map-name</i> argument to select a specific access map.		
Command Modes	EXEC mode		
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
Usage Guidelines	For each VLAN access map displayed, the switch shows the access map name, the ACL specified by the match command, and the action specified by the action command. Use the show vlan filter command to see which VLANs have a VLAN access map applied to them.		
Examples	This example shows how to display a specific VLAN access map:		
	switch# show vlan access-map vlan1map		
	This example shows how to display all VLAN access maps:		
	action:	vacl-mac c: acl-mac	
	switch#		

Related Commands	Command	Description
	action	Specifies an action for traffic filtering in a VLAN access map.
	match	Specifies an ACL for traffic filtering in a VLAN access map.
	show vlan filter	Displays information about how a VLAN access map is applied.
	vlan access-map	Configures a VLAN access map.
	vlan filter	Applies a VLAN access map to one or more VLANs.

show vlan filter

To display information about instances of the **vlan filter** command, including the VLAN access map and the VLAN IDs affected by the command, use the **show vlan filter** command.

show vlan filter [access-map *map-name* | vlan *vlan-id*]

Syntax Description	access-map map-name	(Optional) Limits the output to VLANs that the specified access map is applied to.		
	vlan vlan-id	(Optional) Limits the output to access maps that are applied to the specified VLAN only.		
Command Default	All instances of VLAN access maps applied to a VLAN are displayed, unless you use the access-map keyword and specify an access map or you use the vlan keyword and specify a VLAN ID.			
Command Modes	EXEC mode			
Command History	Release	Modification		
	5.2(1)N1(1)	This command was introduced.		
Examples	This example shows how to display all VLAN access map information on the switch:			
•	switch# show vlan filt			
		cer		
	switch# show vlan filt vlan map vacl-mac: Configured on switch#	vlans: 300		
	<pre>switch# show vlan filt vlan map vacl-mac: Configured on switch# Command</pre>	VLANS: 300 Description		
Related Commands	<pre>switch# show vlan filt vlan map vacl-mac: Configured on switch# Command action</pre>	VLANS : 300 Description Specifies an action for traffic filtering in a VLAN access map.		
	<pre>switch# show vlan filt vlan map vacl-mac: Configured on switch# Command action match</pre>	VLANS: 300 Description Specifies an action for traffic filtering in a VLAN access map. Specifies an ACL for traffic filtering in a VLAN access map.		
-	<pre>switch# show vlan filt vlan map vacl-mac: Configured on switch# Command action</pre>	VLANS : 300 Description Specifies an action for traffic filtering in a VLAN access map.		