



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 shows how to display the configuration of the accounting log:

```
switch# show aaa accounting
        default: local
switch#
```

Related Commands	Command	Description
	aaa accounting default	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
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Command Modes	EXEC mode
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Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

Examples

This example shows how to display the configured authentication parameters:

```
switch# show aaa authentication
      default: group t1
      console: group t1
switch#
```

This example shows how to display the authentication login error enable configuration:

```
switch# show aaa authentication login error-enable
disabled
switch#
```

This example shows how to display the authentication login MS-CHAP configuration:

```
switch# show aaa authentication login mschap
MSCHAP is disabled
switch#
```

Related Commands	Command	Description
	aaa authentication	Configures AAA authentication methods.

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.
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Command Default	None
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Command Modes	EXEC mode
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Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

Examples	<p>This example shows how to display the configured authorization methods:</p> <pre>switch# show aaa authorization AAA command authorization: default authorization for config-commands: none switch#</pre>
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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.
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Command Default	None
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Command Modes	EXEC mode
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Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

Examples	This example shows how to display AAA group information:
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```
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	<p>This example shows how to display the status of the default role assigned by the AAA server administrator for remote authentication:</p> <pre>switch# show aaa user default-role enabled switch#</pre>	
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	<i>access-list-name</i>	(Optional) Name of an ACL, which can be up to 64 alphanumeric, case-sensitive characters.
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Command Default	The switch shows all ACLs unless you use the <i>access-list-name</i> argument to specify an ACL.
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Command Modes	EXEC mode
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Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

Examples 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
```

```
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 ack
  100 permit tcp any any fin
  110 permit tcp any gt 300 any lt 400
  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
```

```

        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	<i>size</i>	(Optional) Amount of the log to display in bytes. The range is from 0 to 250000.
	start-time <i>year month day HH:MM:SS</i>	(Optional) Specifies a start time. The <i>year</i> argument is in yyyy 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 <i>year month day HH:MM:SS</i>	(Optional) Specifies an end time. The <i>year</i> argument is in yyyy 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.

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 entire accounting log:

```
switch# show accounting 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=configure 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=configure 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=Interface vfc3 state updated to up
Mon Aug 16 09:38:20 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=configure terminal ; interface vfc3 ; no shutdown (SUCCESS)
Mon Aug 16 09:38:20 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=configure terminal ; interface vfc3 ; no shutdown (SUCCESS)
Mon Aug 16 09:48:05 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=configure terminal ; interface Ethernet2/1 (SUCCESS)
Mon Aug 16 09:55:27 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=configure terminal ; vtp mode client (FAILURE)
Mon Aug 16 09:55:35 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=configure terminal ; vtp mode server (FAILURE)
Mon Aug 16 10:03:46 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=configure terminal ; no vtp mode (FAILURE)
```

■ show accounting log

```

Mon Aug 16 10:04:11 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=configure terminal ; vtp mode transparent (SUCCESS)
Mon Aug 16 10:04:20 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=configure terminal ; vtp domain MyDomain (SUCCESS)
Mon Aug 16 10:04:39 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=configure terminal ; vtp password MyPass (SUCCESS)
Mon Aug 16 10:05:17 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=configure terminal ; no vtp password (SUCCESS)
Mon Aug 16 10:06:46 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=configure terminal ; vtp pruning (SUCCESS)
Mon Aug 16 10:09:11 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=configure terminal ; interface Ethernet1/12 (SUCCESS)
Mon Aug 16 10:32:33 2010:type=update:id=72.163.177.184@pts/0:user=admin:cmd=clear 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**]]

Syntax Description	<i>checkpoint-name</i>	(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.

Usage Guidelines The command output displays a history of the most recent (up to ten) checkpoint IDs. The checkpoint IDs represent the rollback points that allow the user to restore the system to a checkpoint configuration.

Examples This example shows how to display the rollback checkpoints configured in the local switch:

```
switch# show checkpoint
-----
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
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 udd
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
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Command Modes	EXEC mode
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Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

Examples

This example shows 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 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 rollback checkpoints defined by the system:

```
switch# show checkpoint system
```

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
----------------------	-----------

Command History	Release	Modification
	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 ipl
class-map type qos class-fcoe
  match cos 4
class-map type qos match-all cq1
  match cos 4
  match precedence 7
```

```
<--output truncated-->
```

■ show checkpoint user

```
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	<i>src-checkpoint-name</i>	Source checkpoint name. The name can be a maximum of 32 characters.
	<i>dest-checkpoint-name</i>	Destination checkpoint name. The name can be a maximum of 32 characters.

Command Default	None
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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 source and destination checkpoints that reference current or saved configurations. 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.
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Examples	This example shows how to view the changes between two checkpoints, chkpnt-1 and chkpnt-2:
----------	--

```
switch# checkpoint chkpnt-1
<-- modify configuration in running configuration-->
switch# checkpoint chkpnt-2
<-- modify configuration in running configuration-->
switch# checkpoint
...
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 Sample config
  exit
!
interface Ethernet1/2
  channel-group 1
```

show diff rollback-patch checkpoint

```
!
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.
volatile:	Specifies the volatile local writable storage file system.
<i>//server</i>	(Optional) Name of the server. Valid values are <i>///</i> , <i>//module-1/</i> , <i>//sup-1/</i> , <i>//sup-active/</i> , or <i>//sup-local/</i> . The double slash (//) is required.
<i>directory/</i>	(Optional) Name of a directory. The directory name is case sensitive.
<i>src-filename</i>	(Optional) Name of the source checkpoint configuration file. The filename is case sensitive.
<i>dest-filename</i>	(Optional) Name of the destination checkpoint configuration file. The filename is case sensitive.
checkpoint	Specifies a destination checkpoint.
<i>dest-checkpoint-name</i>	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.



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 source and destination checkpoint configuration files that reference current or saved configurations. 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 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.
<i>checkpoint-name</i>		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.
<i>//server</i>		(Optional) Name of the server. Valid values are <i>///</i> , <i>//module-1/</i> , <i>//sup-1/</i> , <i>//sup-active/</i> , or <i>//sup-local/</i> . The double slash (<i>//</i>) is required.
<i>/directory/</i>		(Optional) Name of a directory. The directory name is case sensitive.
<i>filename</i>		(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

!!
interface Ethernet1/2
  no untagged cos
  no description Sample config
  exit
password strength-check
no username admin
no username adminbackup
!
```



```
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.
<i>checkpoint-name</i>		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.
<i>//server</i>		(Optional) Name of the server. Valid values are <i>///</i> , <i>//module-1/</i> , <i>//sup-1/</i> , <i>//sup-active/</i> , or <i>//sup-local/</i> . The double slash (<i>//</i>) is required.
<i>/directory/</i>		(Optional) Name of a directory. The directory name is case sensitive.
<i>filename</i>		(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 startup 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 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

!!
!
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:

```
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
<-- modify configuration in running configuration-->
switch# show diff rollback-patch startup-config running-config
Collecting Running-Config
Collecting Startup-Config
#Generating Rollback Patch

!!
!
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
```

show diff rollback-patch startup-config

```
<-- 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 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 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 enabled on the switch by default.
-------------------------	--

Examples	<p>This example shows how to display the status of the HTTP server:</p> <pre>switch# show http-server http-server enabled switch#</pre>
-----------------	---

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

<i>access-list-name</i>	(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 *access-list-name* argument to specify an ACL.

Command Modes

EXEC mode

Command History

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

Usage Guidelines

By default, this command displays the IPv4 ACLs configured on the switch. The command displays the statistics information for an IPv4 ACL only if the IPv4 ACL is applied to the management (mgmt0) interface. If the ACL is applied to an SVI interface or in a QoS class map, then the command does not display any statistics information.

Examples

This example shows how to display all IPv4 ACLs on the switch:

```
switch# show ip access-lists
```

This example shows how to display all IPv4 ACLs on the switch:

```
switch# show ip access-lists
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
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 ack
    100 permit tcp any any fin
    110 permit tcp any gt 300 any lt 400
    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
        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 the switch or the ARP statistics for interfaces.
summary	(Optional) Display the ARP adjacency summary information.
ethernet <i>slot</i> [/ <i>QSFP-module</i>]/ <i>port</i>	(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 <i>intf-num</i>	(Optional) Displays the ARP information for a loopback interface. The loopback interface number is from 0 to 1023.
mgmt <i>mgmt-intf-num</i>	(Optional) Displays the ARP information for a management interface. The interface number is 0.
port-channel <i>channel-num</i>	(Optional) Displays the ARP information for an EtherChannel interface. The channel number range is from 1 to 4096.
vlan <i>vlan-id</i>	(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.
<i>vrf-name</i>	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 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 context default
Total number of entries: 1
Address      Age      MAC Address      Interface      Physical Interface
90.10.10.2   00:02:55  000d.ece7.df7c   Vlan900        Ethernet1/12
switch#
```

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	Context in which the ARP table is applied.
Total number of entries	Total number of ARP entries or messages in the ARP table.
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.

Related Commands

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

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

show ip arp inspection

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

show ip arp inspection

Syntax Description	This command has no arguments or keywords.
---------------------------	--

Command Default	None
------------------------	------

Command Modes	Any command mode
----------------------	------------------

Command History	Release	Modification
	5.0(3)N1(1)	This command was introduced.

Examples	<p>This example shows how to display the status of the DAI configuration:</p> <pre>switch# show ip arp inspection</pre>
-----------------	---

Related Commands	Command	Description
	ip arp inspection vlan	Enables DAI for a specified list of VLANs.
	show ip arp inspection interface	Displays the trust state and the ARP packet rate for a specified interface.
	show ip arp inspection log	Displays the DAI log configuration.
	show ip arp inspection statistics	Displays the DAI statistics.
	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 interfaces

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

show ip arp inspection interfaces {**ethernet** *slot*[/*QSFP-module*/]*port* | **port-channel** *channel-number*}

Syntax Description	ethernet <i>slot</i> [/ <i>QSFP-module</i> /] <i>port</i>	(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 <i>channel-number</i>	(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	Modification
	6.0(2)N1(2)	Support for the QSFP+ GEM was added.
	5.2(1)N1(1)	This command was introduced.

Examples This example shows how to display the trust state for a trusted interface:

```
switch# show ip arp inspection 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 or keywords.
---------------------------	--

Command Default	None
------------------------	------

Command Modes	Any command mode
----------------------	------------------

Command History	Release	Modification
	5.0(3)N1(1)	This command was introduced.

Examples	This example shows how to display the DAI log configuration:
-----------------	--

```
switch# show ip arp inspection log

Syslog Buffer Size : 12
Syslog Rate       : 5 entries per 1 seconds
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	vlan <i>vlan-list</i> (Optional) Specifies the list of VLANs for which to display DAI statistics. Valid VLAN 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	<table><tr><th>Release</th><th>Modification</th></tr><tr><td>5.0(3)N1(1)</td><td>This command was introduced.</td></tr></table>	Release	Modification	5.0(3)N1(1)	This command was introduced.
Release	Modification				
5.0(3)N1(1)	This command was introduced.				

Examples

This example shows how to display the DAI statistics for VLAN 1:

```
switch# show ip arp inspection statistics vlan 1
```

Related Commands	<table><tr><th>Command</th><th>Description</th></tr><tr><td>clear ip arp inspection statistics <i>vlan</i></td><td>Clears the DAI statistics for a specified VLAN.</td></tr><tr><td>show ip arp inspection log</td><td>Displays the DAI log configuration.</td></tr><tr><td>show running-config dhcp</td><td>Displays DHCP snooping configuration, including the DAI configuration.</td></tr></table>	Command	Description	clear ip arp inspection statistics <i>vlan</i>	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.
Command	Description								
clear ip arp inspection statistics <i>vlan</i>	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	<i>vlan-list</i>	List of VLANs that have the DAI status. The <i>vlan-list</i> argument allows you to specify a single VLAN ID, a range of VLAN IDs, or comma-separated IDs and ranges. Valid VLAN IDs are from 1 to 4094.
---------------------------	------------------	--

Command Default	None
------------------------	------

Command Modes	Any command mode
----------------------	------------------

Command History	Release	Modification
	5.0(3)N1(1)	This command was introduced.

Examples This example shows how to display the DAI status for VLAN 1:

```
switch# show ip arp inspection vlan 1

Source Mac Validation      : Enabled
Destination Mac Validation : Enabled
IP Address Validation      : Enabled

Vlan : 1
-----
Configuration              : Disabled
Operation State             : Inactive
switch#
```

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.
	<i>vrf-name</i>	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 This example shows how to display the global ARP statistics on virtual port channels (vPCs):

```
switch# show ip arp sync-entries
```

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	Release	Modification
	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 startup-config	Copies the running configuration to the startup configuration.
	ip dhcp snooping	Globally enables DHCP snooping on the device.
	show ip dhcp snooping statistics	Displays DHCP snooping statistics.
	show running-config dhcp	Displays the DHCP snooping configuration.

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		
<i>IP-address</i>		(Optional) IPv4 address that the bindings shown must include. Valid entries are in dotted-decimal format.
<i>MAC-address</i>		(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 <i>vlan-id</i>		(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.
dynamic		(Optional) Limits the output to all dynamic IP-MAC address bindings.
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 includes static IP source entries. Static entries appear with the term “static” in the Type column.
-------------------------	---

Examples

This example shows how to show all bindings:

```
switch# show ip dhcp snooping binding
MacAddress      IpAddress      LeaseSec  Type      VLAN  Interface
-----
0f:00:60:b3:23:33  10.3.2.2      infinite  static    13    Ethernet2/46
0f:00:60:b3:23:35  10.2.2.2      infinite  static    100   Ethernet2/10
switch#
```

Related Commands

Command	Description
clear ip dhcp snooping binding	Clears the DHCP snooping binding database.
copy running-config startup-config	Copies the running configuration to the startup configuration.
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 statistics	Displays DHCP snooping statistics.
show running-config dhcp	Displays the DHCP snooping configuration, including the IP Source Guard 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 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 which were unknown 0
Packets dropped due to dhcp relay not enabled 0
Packets dropped due to no binding entry 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 dhcp	Displays the DHCP snooping configuration.

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	<i>access-list-name</i>	(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 that the ACL is applied to.
- The interfaces that 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 applied to an interface that is administratively up.

Examples

This example shows how to display all IPv6 ACLs on a switch:

```
switch# show ipv6 access-lists
```

■ 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.

```
show ip verify source [interface {ethernet slot[/QSFP-module]/port | port-channel
channel-number}]
```

Syntax Description		
interface		(Optional) Specifies that the output is limited to IP-to-MAC address bindings for a particular interface.
ethernet <i>slot</i> [/ <i>QSFP-module</i>]/ <i>port</i>		(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 <i>channel-number</i>		(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 This example shows how to display the IP Source Guard-enabled interfaces and the IP-to-MAC address bindings on the switch:

```
switch# show ip verify source
IP source guard is enabled on the following interfaces:
-----
      Ethernet1/2
      Ethernet1/5
```

```
IP source guard operational entries:
-----
```

Interface	Filter-mode	IP-address	Mac-address	Vlan
-----	-----	-----	-----	----
Ethernet1/2	inactive-no-snoop-vlan			
Ethernet1/5	inactive-no-snoop-vlan			

```
switch#
```

Related Commands

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

<i>access-list-name</i>	(Optional) Name of a MAC ACL, which can be up to 64 alphanumeric, case-sensitive characters.
-------------------------	--

Command Default

The switch shows all MAC ACLs unless you use the *access-list-name* 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 how to display all MAC ACLs on the switch:

```
switch# show mac access-lists

MAC access list acl-mac
  10 permit any any
MAC access list test
  statistics per-entry
  10 deny 0000.1111.2222 0000.0000.0000 0000.1111.3333 ffff.0000.0000
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	Release	Modification
	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.
	username	Enables a user to use privilege levels for authorization.

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		
<i>hostname</i>	(Optional) RADIUS server Domain Name Server (DNS) name. The name is alphanumeric, case sensitive, and has a maximum of 256 characters.	
<i>ipv4-address</i>	(Optional) RADIUS server IPv4 address in the <i>A.B.C.D</i> format.	
<i>ipv6-address</i>	(Optional) RADIUS server IPv6 address in the <i>X:X::X:X</i> format.	
directed-request	(Optional) Displays the directed request configuration.	
groups [<i>group-name</i>]	(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 RADIUS server configuration.
------------------------	--

Command Modes	EXEC mode
----------------------	-----------

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

Usage Guidelines	RADIUS preshared keys are not visible in the show radius-server command output. Use the show running-config radius command to display the RADIUS preshared keys.
-------------------------	--

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

```
switch# show radius-server
retransmission count:1
timeout value:5
deadtime value:0
source interface:any available
total number of servers:1

following RADIUS servers are configured:
  192.168.1.1:
    available for authentication on port:1812
    available for accounting on port:1813
    RADIUS shared secret:*****
switch#
```

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# show radius-server sorted
timeout value:5
retransmission count:1
deadtime value:0
source interface:any available
total number of servers:1

following RADIUS servers are configured:
192.168.1.1:
    available for authentication on port:1812
    available for accounting on port:1813
    RADIUS shared secret:*****

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*]

Syntax Description	name <i>role-name</i> (Optional) Displays information for a specific user role name.				
Command Default	Displays information for all user roles.				
Command Modes	EXEC mode				
Command History	<table> <tr> <th>Release</th><th>Modification</th></tr> <tr> <td>5.2(1)N1(1)</td><td>This command was introduced.</td></tr> </table>	Release	Modification	5.2(1)N1(1)	This command was introduced.
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
-----
1       permit  read
```

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

Rule	Perm	Type	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)

```

```

-----
Rule      Perm      Type      Scope      Entity
-----
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      permit  command                ssh *
2      permit  command                enable *

```

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
3	permit	command		feature module
2	permit	command		feature snmp
1	permit	command		feature system

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)

```

Rule	Perm	Type	Scope	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	Description
role name	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 <i>feature-name</i>	(Optional) 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 user role feature names.
------------------------	---

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 role features:

```
switch# show role feature
```

```

aaa                (AAA service related commands)
arp                (ARP protocol related commands)
cdp                (Cisco Discovery Protocol related commands)
l3vm               (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           (Platform configuration and show commands)
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          (ARP protocol related commands)
  show ip arp *
  config t; ip arp *
  clear ip arp *
  debug ip arp *
  debug-filter ip arp *
cdp          (Cisco Discovery Protocol related commands)
  show cdp *
  config t ; cdp *
  cdp *
  clear cdp *
  debug cdp *
l3vm         (Layer 3 virtualization related commands)
  show vrf *
  config t ; vrf *
  routing-context vrf *
ping         (Network reachability test commands)
  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 <i>group-name</i>	(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 This example shows how to display the user role feature groups:

```
switch# show role feature-group
```

This example shows how to display detailed information about all the user role feature groups:

```
switch# show role feature-group detail
```

This example shows how to display information for a specific user role feature group:

```
switch# show role feature-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	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	<p>If the rollback log is empty, the following message appears:</p> <pre>ERROR: Log Not Available</pre>
-------------------------	---

Examples	<p>This example shows how to display the rollback execution log:</p>
-----------------	--

```
switch# show rollback log exec
-----
time: Mon, 06:16:02 06 Sep 2010
Status: success
-----
time: Mon, 07:58:36 06 Sep 2010
Status: success
-----
time: Mon, 09:48:58 06 Sep 2010
Status: success
switch#
```

This example shows how to display the rollback verification log:

```
switch# show rollback log verify
-----
time: Mon, 09:48:56 06 Sep 2010
Status: success
-----
time: Mon, 09:48:58 06 Sep 2010
Status: success
switch#
```

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.
---------------------------	--

Command Default	None
------------------------	------

Command Modes	EXEC mode
----------------------	-----------

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

Examples	<p>This example shows how to display the configured AAA information in the running configuration:</p> <pre>switch# show running-config aaa</pre>
-----------------	--

Related Commands	Command	Description
	aaa accounting default	Configures AAA methods for accounting.
	aaa authentication login console	Configures AAA authentication methods for console login.
	aaa authentication login default	Configures the default AAA authentication methods.
	aaa authentication login error-enable	Configures the AAA authentication failure message to display on the console.
	aaa authorization commands default	Configures default AAA authorization methods.
	aaa authorization config-commands default	Configures the default AAA authorization methods for all configuration commands.
	aaa group server radius	Creates a RADIUS server group.
	aaa user default-role	Enables the default role assigned by the AAA server administrator for remote authentication.

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	<table> <tr> <th>Release</th><th>Modification</th></tr> <tr> <td>5.2(1)N1(1)</td><td>This command was introduced.</td></tr> </table>	Release	Modification	5.2(1)N1(1)	This command was introduced.
Release	Modification				
5.2(1)N1(1)	This command was introduced.				

Examples

This example shows how to display the ACL running configuration:

```
switch# show running-config aclmgr

!Command: show running-config aclmgr
!Time: Tue Aug 31 05:01:56 2010

version 5.2(1)N1(1)
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 ack
  100 permit tcp any any fin
  110 permit tcp any gt 300 any lt 400
  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 flash-o
  verride
  :
<snip>
```

```

:
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 myACLlist in
  access-class myACLlist 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 myACLlist in
  access-class myACLlist 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	<table> <tr> <th>Release</th><th>Modification</th></tr> <tr> <td>5.2(1)N1(1)</td><td>This command was introduced.</td></tr> </table>	Release	Modification	5.2(1)N1(1)	This command was introduced.
Release	Modification				
5.2(1)N1(1)	This command was introduced.				

Examples

This example shows 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

!Command: show running-config arp all
!Time: Mon Aug 23 07:33:52 2010

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
ip arp event-history errors size small
ip arp event-history ha size small
ip arp event-history event size small
ip arp event-history packet size small
```

■ show running-config arp

```

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 arp	Displays the ARP startup configuration.

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	<table><tr><th>Release</th><th>Modification</th></tr><tr><td>5.2(1)N1(1)</td><td>This command was introduced.</td></tr></table>	Release	Modification	5.2(1)N1(1)	This command was introduced.
Release	Modification				
5.2(1)N1(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:

```
switch# show running-config dhcp

!Command: show running-config dhcp
!Time: Mon Aug 23 09:09:11 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#
```

This example shows how to display the DHCP snooping configuration with the default information:

```
switch# show running-config dhcp all

!Command: show running-config dhcp all
!Time: Mon Aug 23 09:10:11 2010

version 5.2(1)N1(1)
feature dhcp

ip dhcp snooping
```

■ show running-config dhcp

```

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	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$9w6ZnM/R$Pg5OfsV/vkOaAGW.f.RyP. role network-operator
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 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	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

*****

rsa Keys generated:Mon Aug  2 22:49:27 2010

ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAIEA0iACA1fHAEIaY6PD5fSBLqGX3MIn+k72qhdvLNib7dL7
8CRQVS1AlQiDDTrvyIfRZ5yHMDQndvcmRfkJzluSCW2FP8vokZ66aXFk8TBTFc5Bn3NUiUyPZyhPtFD2
LaHBCkxl0MxEP+nmPJ6Qf6mBzZVAIdLw8Nd64ZwqVHHjeFc=

bitcount:1024
fingerprint:
bb:bf:a4:c0:22:3b:70:15:e4:2b:2b:bb:08:41:82:d4
*****
could not retrieve dsa key information
*****
switch#
```

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	<p>This example shows how to display the SSH server status:</p> <pre>switch# show ssh server ssh version 2 is enabled switch#</pre>
-----------------	---

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 arguments or keywords.
---------------------------	--

Command Default	None
------------------------	------

Command Modes	EXEC mode
----------------------	-----------

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

Examples	<p>This example shows how to display the AAA information in the startup configuration:</p> <pre>switch# show startup-config aaa</pre>
-----------------	--

Related Commands	Command	Description
	show running-config aaa	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 mode
----------------------	------------------

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

Examples This example shows how to display the ACL startup configuration:

```
switch# show startup-config aclmgr

!Command: show startup-config aclmgr
!Time: Tue Aug 31 05:01:58 2010

version 5.2(1)N1(1)
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 ack
  100 permit tcp any any fin
  110 permit tcp any gt 300 any lt 400
  130 deny tcp any range 200 300 any lt 600
  140 deny tcp any range 200 300 any lt 600
:
<snip>
:
vlan access-map vacl-mac
  match mac address acl-mac
  action forward
```

show startup-config aclmgr

```

    statistics per-entry
vlan filter vac1-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 myACLlist in
    access-class myACLlist 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 myACLlist in
    access-class myACLlist 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 mode
----------------------	------------------

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

Examples This example shows how to display the ARP startup configuration:

```
switch# show startup-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#
```

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 arp	Displays the ARP running configuration.

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.	
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	<p>This example shows how to display the DHCP snooping configuration in the startup configuration file:</p> <pre>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#</pre>	
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 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 RADIUS information in the startup configuration:

```
switch# show startup-config radius
```

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

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	<p>This example shows how to display the user account, SSH server, and Telnet server information in the startup configuration:</p> <pre>switch# show startup-config security</pre>
-----------------	--

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

<i>hostname</i>	(Optional) TACACS+ server Domain Name Server (DNS) name. The maximum character size is 256.
<i>ip4-address</i>	(Optional) TACACS+ server IPv4 address in the <i>A.B.C.D</i> format.
<i>ip6-address</i>	(Optional) TACACS+ server IPv6 address in the <i>X:X::X</i> 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 TACACS+ server configuration.

Command Modes

EXEC mode

Command History

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

Usage Guidelines

TACACS+ preshared keys are not visible in the **show tacacs-server** command output. Use the **show running-config tacacs+** command to display the TACACS+ preshared keys.

You must use the **feature tacacs+** command before you can display TACACS+ information.

Examples

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
```

This example shows how to display information for TACACS+ server groups:

```
switch# show 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 tacacs+	Displays the TACACS+ information in the running configuration file.

show telnet server

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

show telnet 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 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 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

user:admin
    this user account has no expiry date
    roles:network-admin
user:mable
    this user account has no expiry date
    roles:network-operator
user:install
    this user account has no expiry date
    roles:network-admin
no password set. Local login not allowed
Remote login through RADIUS/TACACS+ is possible
user:user1
    this user account has no expiry date
    roles:priv-5
no password set. Local login not allowed
Remote login through RADIUS/TACACS+ is possible
switch#
```

This example shows how to display information about a specific user account:

```
switch# show user-account admin
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.

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 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) *
```

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	For the specified VLAN access map, the switch displays the access map name and the contents of the ACL associated with the map.
-------------------------	---

Examples	This example shows how to display the contents of the ACL associated with the specified VLAN access map: switch# show vlan access-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	<i>map-name</i> (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:

```
switch# show vlan access-map
Vlan access-map vacl-mac
    match mac: acl-mac
    action: forward
    statistics per-entry
```

```
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 <i>map-name</i>	(Optional) Limits the output to VLANs that the specified access map is applied to.
vlan <i>vlan-id</i>	(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 filter

vlan map vacl-mac:
    Configured on VLANs:    300
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 access-map	Displays all VLAN access maps or a VLAN access map.
vlan access-map	Configures a VLAN access map.
vlan filter	Applies a VLAN access map to one or more VLANs.

