



S Commands

This chapter describes the Cisco NX-OS system management commands that begin with the letter S, excluding the **show** commands.

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sampler

To define a sampler and enter the sampler configuration mode, use the **sampler** command. To remove the sampler definition, use the **no** form of this command.

sampler *name*

no sampler *name*

Syntax Description	<i>name</i>	Name of the sampler.
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Defaults	No samplers are defined.
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Command Modes	Global configuration
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SupportedUserRoles	network-admin vdc-admin
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Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines

NetFlow sampling means that M out of N packets are sampled. When a packet is sampled and there is a NetFlow cache miss, a NetFlow cache entry is created for this flow. The first packet timestamp is updated and the statistics for the first packet are initialized (for example, the bytes are set to the number of bytes in the packet and packet count is set to one). If there is a NetFlow cache hit when the packet is sampled, then the cache for this flow is updated. This includes adding the number of bytes in the packet to the byte counter and incrementing the packet count by one.

Once you enter the **sampler** *name* command, you enter the sampler configuration mode, and the prompt changes to the following:

```
switch(config-flow-sampler)#
```

Within the sampler configuration mode, the following keywords and arguments are available to configure the flow monitor:

- **description** *description*—Provides a description for this sampler; maximum of 63 characters.
- **exit**—Exits from the current configuration mode.
- **mode** *sample-num out-of packets*—Configures the sampler mode. The valid values are as follows:
 - *sample-num*—Number of samples per sampling. The range is from 1 to 64.
 - **out-of**—Specifies the samples per packet ratio.
 - *packets*—Number of packets in each sampling. The range is from 1 to 8192.
- **no**—Negates a command or sets its defaults.

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This command does not require a license.

Examples

This example shows how to define a sampler and enter the sampler configuration mode:

```
switch(config)# sampler testsampler  
switch(config-flow-sampler)#
```

This example shows how to configure the sampler mode:

```
switch(config)# sampler testsampler  
switch(config-flow-sampler)# mode 24 out-of 1200
```

This example shows how to remove a sampler definition:

```
switch(config)# no sampler testsampler  
switch(config-flow)#
```

Related Commands

Command	Description
flow exporter	Creates a flow exporter.
flow monitor	Creates a flow monitor.
flow record	Creates a flow record.

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save

To save the current configuration session to a file, use the **save** command.

save *location*

Syntax Description	<i>location</i>	Location of the file. The location can be in bootflash:, slot0:, or volatile: The file name can be any alphanumeric string up to 63 characters.
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Defaults	None
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Command Modes	Any command mode
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SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator
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Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
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Examples This example shows how to save a configuration session to a file in bootflash:

```
switch# configure session myACLs
switch(config-s)# save bootflash:sessions/myACLs
```

Related Commands	Command	Description
	delete	Deletes a file from a location.

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scheduler

To create or schedule a Scheduler job, use the **scheduler** command. To remove a job or scheduled job, use the **no** form of this command.

```
scheduler {aaa-authentication [username username] password [0 | 7] password |  
job name job-name | logfile size filesize | schedule name schedule-name}
```

```
no scheduler {aaa-authentication [username username] password [0 | 7] password |  
job name job-name | logfile size filesize | schedule name schedule-name}
```

Syntax Description		
aaa-authentication		Begins an AAA authentication exchange with a remote user.
password		Indicates the remote user is entering a password for authentication.
0		Indicates the password is in clear text.
7		Indicates the password is encrypted.
<i>password</i>		The remote user's password.
username <i>username</i>		Indicates the remote user is entering a username, and specifies the username.
logfile		Specifies a logfile configuration.
size <i>filesize</i>		Specifies the size of the logfile. The range is 16 to 1024 KB.
schedule		Defines a schedule for a job.
name <i>schedule-name</i>		Specifies the name of the schedule. The maximum length of the name is 31 characters.
job name <i>job-name</i>		Places you into Job Configuration mode for the specified job name. The maximum length of the name is 31 characters.

Defaults None

Command Modes Job configuration

SupportedUserRoles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines To use this command, the scheduler must already be enabled.
To enable the scheduler, use the **feature scheduler** command.

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Remote users must authenticate with the device using the **scheduler aaa-authentication** command. Before using this command to configure a maintenance job.

This command does not require a license.



Note

The commands within a scheduler job must be entered in a single line separated by semicolons (;).

Examples

This example shows how to create a Scheduler job that saves the running configuration to a file in bootflash and then copies the file from bootflash to a TFTP server. The file name is created using the current time stamp and switch name.

```
switch(config)# scheduler job name backup-cfg
switch(config-job)# cli var name timestamp $(TIMESTAMP);copy running-config
bootflash:/${SWITCHNAME}-cfg.${timestamp};copy bootflash:/${SWITCHNAME}-cfg.${timestamp}
tftp://1.2.3.4/ vrf management
switch(config-job)# end
switch(config)#
```

This example shows how to schedule a Scheduler job to run daily at 1:00 a.m.

```
switch(config)# scheduler schedule name daily
switch(config-schedule)# job name backup-cfg
switch(config-schedule)# time daily 1:00
switch(config-schedule)# end
switch(config)#
```

This example shows how to remove a Scheduler job.

```
switch# config t
switch(config)# no scheduler job name backup-cfg
```

This example shows how to remove a Scheduler job schedule.

```
switch# config t
switch(config)# no scheduler schedule name daily
```

This example shows how to specify the password for a remote user.

```
switch# config t
switch(config)# scheduler aaa-authentication password newpwd
```

This example shows how to specify a clear text password for a remote user.

```
switch# config t
switch(config)# scheduler aaa-authentication password 0 newpwd
```

This example shows how to specify an encrypted password for a remote user.

```
switch# config t
switch(config)# scheduler aaa-authentication password 7 newpwd2
```

This example shows how to specify a name and authentication password for a remote user.

```
switch# config t
switch(config)# scheduler aaa-authentication username admin1 password newpwd3
```

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Related Commands	Command	Description
	feature scheduler	Enables the scheduler.
	show scheduler	Displays scheduler information.

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shut

To shut down an Ethernet switched port analyzer (SPAN) session, use the **shut** command. To enable a SPAN session, use the **no** form of this command.

shut

no shut

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes monitor-common configuration (config-monitor)

SupportedUserRoles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to shut down a SPAN session:

```
switch(config)# monitor session 1
switch(config-monitor)# shut
```

This example shows how to enable a SPAN session:

```
switch(config-monitor)# no shut
switch(config-monitor)#
```

Related Commands	Command	Description
	monitor session	Enters the monitor configuration mode.
	show monitor session	Displays the virtual SPAN configuration.

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snmp-server aaa-user cache-timeout

To configure the Simple Network Management Protocol (SNMP) time-out value for synchronized AAA users, use the **snmp-server aaa-user cache-timeout** command. To revert to default, use the **no** form of this command.

```
snmp-server aaa-user cache-timeout seconds]
```

```
no snmp-server aaa-user cache-timeout seconds]
```

Syntax Description	<i>seconds</i>	Timeout value, in seconds. The range is from 1 to 86400.
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Defaults	3600 seconds.
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Command Modes	Global configuration
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SupportedUserRoles	network-admin vdc-admin
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Command History	Release	Modification
	4.0(3)	This command was introduced.

Usage Guidelines	This command does not require a license.
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Examples	This example shows how to configure the AAA user synchronization timeout value:
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```
switch# configure terminal
switch(config)# snmp-server aaa-user cache-timeout 6000
```

Related Commands	Command	Description
	show snmp	Displays information about SNMP.

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snmp-server community

To configure the Simple Network Management Protocol (SNMP) community string, use the **snmp-server community** command. To remove the community string, use the **no** form of this command.

```
snmp-server community name [group name | ro | rw]
```

```
no snmp-server community name [group name | ro | rw]
```

Syntax Description	name	SNMP community string. The name can be any alphanumeric string up to 32 characters.
	group name	(Optional) Specifies the group name to which the community belongs. The name can be any alphanumeric string up to 32 characters.
	ro	(Optional) Sets read-only access for this community.
	rw	(Optional) Sets read-write access for this community.

Defaults The default community access is read-only (**ro**).

Command Modes Global configuration

Supported User Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines Use the **snmp-server community** command to configure read-only or read-write access to the SNMP agent on the device. You can optionally configure the community for an access group or user role. See the *Cisco NX-OS Security Configuration Guide, Release 4.0(1)* for more information on user roles.

This command does not require a license.

Examples This example shows how to configure a read-only SNMP community:

```
switch# configure terminal
switch(config)# snmp-server community test ro
```

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Related Commands

Command	Description
show snmp community	Displays information about SNMP communities.
show snmp group	Displays information about configured user roles.

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snmp-server contact

To configure the Simple Network Management Protocol (SNMP) contact information, use the **snmp-server contact** command. To remove the contact information, use the **no** form of this command.

snmp-server contact [*contact-info*]

no snmp-server contact [*contact-info*]

Syntax Description	<i>contact-info</i> (Optional) SNMP contact information (sysContact). The name can be any alphanumeric string up to 255 characters.
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Defaults	A zero-length string.
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Command Modes	Global configuration
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SupportedUserRoles	network-admin vdc-admin
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Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	Use the snmp-server contact command to configure the SNMP sysContact variable. This command does not require a license.
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Examples	This example shows how to configure the SNMP contact: <pre>switch# configure terminal switch(config)# snmp-server contact Jane Smith@anyplace.com</pre>
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Related Commands	Command	Description
	show snmp	Displays information about SNMP.

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snmp-server context

To configure the Simple Network Management Protocol (SNMP) context to logical network entity mapping, use the **snmp-server context** command. To remove the context, use the **no** form of this command.

```
snmp-server context context-name [instance instance-name] [vrf vrf-name] [topology
topology-name]
```

```
no snmp-server context context-name [instance instance-name] [vrf vrf-name] [topology
topology-name]
```

Syntax Description

<i>context-name</i>	SNMP context. The name can be any alphanumeric string up to 32 characters.
instance <i>instance-name</i>	(Optional) Specifies a protocol instance. The name can be any alphanumeric string up to 32 characters.
vrf <i>vrf-name</i>	(Optional) Specifies the virtual routing and forwarding (VRF) instance. The name can be any alphanumeric string up to 32 characters.
topology <i>topology-name</i>	(Optional) Specifies the topology. The name can be any alphanumeric string up to 32 characters.

Defaults

None

Command Modes

Global configuration

Supported User Roles

network-admin
vdc-admin

Command History

Release	Modification
4.0(2)	This command was introduced.

Usage Guidelines

Use the **snmp-server context** command to map between SNMP contexts and logical network entities, such as protocol instances or VRFs.

Do not use the **instance**, **vrf**, or **topology** keywords to delete a context. If you use these keywords, you map the context to a zero-length string.

If you are using SNMPv2c, use the **snmp-server mib community-map** command to map an SNMPv2c community to an SNMP context and use the **snmp-server context** command to map this context to a logical network entity.

See the *Cisco NX-OS Security Configuration Guide* for more information on context mapping.

This command does not require a license.

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Examples

This example shows how to map the public1 context to VRF red:

```
switch# configure terminal  
switch(config)# snmp-server context public1 vrf red
```

Related Commands

Command	Description
show snmp context	Displays information about SNMP contexts.
snmp-server mib community-map	Maps an SNMPv2c community to an SNMP context.

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snmp-server enable traps

To enable the Simple Network Management Protocol (SNMP) notifications, use the **snmp-server enable traps** command. To disable SNMP notifications, use the **no** form of this command.

```
snmp-server enable traps [aaa [server-state-change] | bgp | bridge [topologychange] [newroot]
| callhome | eigrp | entity [fru] | hsrp [state-change] | license | link | ospf instance-tag [lsa |
rate-limit rate] | port-security | rf | snmp [authentication] | stp [inconsistency]
[loop-consistency] [root-inconsistency]]
```

```
no snmp-server enable traps [aaa [server-state-change] | bgp | bridge [topologychange]
[newroot] | callhome | eigrp | entity [fru] | hsrp [state-change] | license | link | ospf
instance-tag [lsa | rate-limit rate] | port-security | rf | snmp [authentication] | stp
[inconsistency] [loop-consistency] [root-inconsistency]]
```

Syntax Description

aaa	(Optional) Enables AAA notifications.
server-state-change	(Optional) Enables the server-state-change AAA notification.
bgp	(Optional) Enables BGP notifications.
bridge	(Optional) Enables STP Bridge MIB notifications.
topologychange	(Optional) Enables STP topology change notifications.
newroot	(Optional) Enables STP new root bridge notifications.
callhome	(Optional) Enables Call Home notifications.
eigrp	(Optional) Enables EIGRP4-MIB notifications.
entity	(Optional) Enables ENTITY-MIB notifications.
fru	(Optional) Enables ENTITY-FRU-MIB notifications.
hsrp	(Optional) Enables CISCO-HSRP-MIB notifications.
state-change	(Optional) Enables the state-change HSRP notification.
license	(Optional) Enables license notifications.
link	(Optional) Enables IF-MIB link notifications.
ospf instance-tag	(Optional) Enables Open Shortest Path First (OSPF) notifications.
lsa	(Optional) Enables OSPF LSA notifications.
rate-limit <i>rate</i>	(Optional) Enables rate limits on OSPF notifications. The range is from 2 to 60 seconds. The default is 10 seconds.
port-security	(Optional) Enables port security notifications.
rf	(Optional) Enables redundancy framework (RF) SNMP notifications.
snmp	(Optional) Enables general SNMP notifications.
authentication	(Optional) Enables SNMP authentication notifications.
stpx	(Optional) Enables STPX MIB notifications.
inconsistency	(Optional) Enables SNMP STPX MIB InconsistencyUpdate notifications.
loop-inconsistency	(Optional) Enables SNMP STPX MIB InconsistencyUpdate notifications.
root-inconsistency	(Optional) Enables SNMP STPX MIB RootInconsistencyUpdate notifications.

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Defaults License and SNMP authentication notifications are enabled.

Command Modes Global configuration

SupportedUserRoles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.
	4.0(2)	Added OSPF rate-limit keyword.
	4.0(3)	Added eigrp keyword.

Usage Guidelines This command does not require a license.

Examples This example shows how to enable BGP notifications:

```
switch# configure terminal
switch(config) snmp-server enable traps bgp
```

Related Commands	Command	Description
	show snmp trap	Displays the enable or disable state of all SNMP notifications.

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snmp-server globalEnforcePriv

To globally enforce privacy for all Simple Network Management Protocol (SNMP) users, use the **snmp-server globalEnforcePriv** command in configuration mode. To disable global privacy, use the no form of this command.

snmp-server globalEnforcePriv

no snmp-server globalEnforcePriv

Syntax Description This command has no arguments or keywords.

Defaults Disabled

Command Modes Global configuration

SupportedUserRoles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines Use the **snmp-server globalEnforcePriv** command to enforce privacy on all SNMP users. This command does not require a license.

Examples This example shows how to globally enforce privacy for all SNMP contact:

```
switch# configure terminal  
switch(config)# snmp-server contact Jane Smith@anyplace.com
```

Related Commands	Command	Description
	show snmp	Displays information about SNMP.

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snmp-server host

To specify the server host to receive Simple Network Management Protocol (SNMP) notifications, use the **snmp-server host** command. To remove the SNMP server configuration, use the **no** form of this command.

```
snmp-server host host-name { snmp-name | filter-vrf { vrf-name | default | management } | informs
{ snmp-name | version { 1 snmp-name | 2c snmp-name | 3 { auth snmp-name | noauth snmp-name
| priv snmp-name } } } | source-interface { ethernet number | loopback number | mgmt number
| port-channel number | vlan number } | traps { snmp-name | version { 1 snmp-name | 2c
snmp-name | 3 { auth snmp-name | noauth snmp-name | priv snmp-name } } } | use-vrf { vrf-name
| default | management } | version { 1 snmp-name | 2c snmp-name | 3 { auth snmp-name |
noauth snmp-name | priv snmp-name } } } udp-port port
```

```
no snmp-server host host-name { snmp-name | filter-vrf { vrf-name | default | management } |
informs { snmp-name | version { 1 snmp-name | 2c snmp-name | 3 { auth snmp-name | noauth
snmp-name | priv snmp-name } } } | source-interface { ethernet number | loopback number |
mgmt number | port-channel number | vlan number } | traps { snmp-name | version { 1
snmp-name | 2c snmp-name | 3 { auth snmp-name | noauth snmp-name | priv snmp-name } } } |
use-vrf { vrf-name | default | management } | version { 1 snmp-name | 2c snmp-name | 3 { auth
snmp-name | noauth snmp-name | priv snmp-name } } } udp-port port
```

Syntax Description

<i>host-name</i>	IP4 or IPv6 address or name of the host.
<i>snmp-name</i>	SNMP community string or SNMPv3 username. The maximum number of alphanumeric characters can be 32.
filter-vrf	Specifies the virtual routing and forwarding (VRF) instance whose notifications are to be filtered.
<i>vrf-name</i>	Name of the VRF. The maximum number of alphanumeric characters can be 32.
default	Specifies the default VRF.
management	Specifies the management VRF.
informs	Sends SNMP information to this host.
version	Specifies the SNMP version used to send notifications.
1	Specifies SNMPv1.
2c	Specifies SNMPv2c.
3	Specifies SNMPv3.
auth	Specifies the SNMPv3 authNoPriv security level.
noauth	Specifies the SNMPv3 noAuthNoPriv security level.
priv	Specifies the SNMPv3 authPriv security level.
source-interface	Specifies the source interface used to send SNMP notifications to this host.
ethernet <i>number</i>	Specifies the Ethernet IEEE 802.3z slot number and port number in this format: 1/1. The range for the slot number is from 1 to 18, and the range for the port number is from 1 to 128.
loopback <i>number</i>	Specifies the virtual interface number. The range is from 0 to 1023.
mgmt <i>number</i>	Specifies the management interface number. The value is 0.

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port-channel <i>number</i>	Specifies the port-channel number and the subinterface number in this format: 1.1. The range for the port-channel number is from 1 to 4096, and the range for the subinterface number is from 1 to 4093.
vlan <i>number</i>	Specifies the VLAN interface number. The range is from 1 to 4094.
traps	Sends SNMP traps to this host.
use-vrf	Specifies the name of the VRF on which notifications are to be sent.
udp-port <i>port</i>	Specifies the User Datagram Protocol (UDP) port number of the notification host. The range is from 0 to 65535.

Defaults None

Command Modes Global configuration

Supported User Roles network-admin
vdc-admin

Command History	Release	Modification
	4.2(1)	This command was introduced.

Usage Guidelines The source-interface configuration overrides the global source-interface configuration. This command does not require a license.

Examples This example shows how to configure an SNMP server host:

```
switch(config)# snmp-server host 192.0.2.1 traps snmp1 udp-port 1
```

This example shows how to remove an SNMP server host:

```
switch(config)# no snmp-server host 192.0.2.1 traps snmp1 udp-port 1
switch(config)#
```

Related Commands	Command	Description
	snmp-server community	Configures the SNMP community string.
	snmp-server contact	Configures the SNMP contact information.

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snmp-server host filter-vrf

To configure a Simple Network Management Protocol (SNMP) host receiver to gather notifications that occur on a specific virtual routing and forwarding (VRF) instance, use the **snmp-server host filter-vrf** command. To remove the VRF filter, use the **no** form of this command.

```
snmp-server host host-address filter-vrf vrf-name [udp-port port]
```

```
no snmp-server host host-address filter-vrf vrf-name [udp-port port]
```

Syntax Description	Parameter	Description
	<i>host-address</i>	Specifies the name or IP address of the host (the targeted recipient).
	<i>vrf-name</i>	Name of the VRF. The name can be any alphanumeric string up to 63 characters.
	udp-port <i>port</i>	Specifies the port UDP port of the host to use. The range is from 0 to 65535. The default is 162.

Defaults None

Command Modes Global configuration

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples The following example configures the host receiver to receive notifications from the red VRF.

```
switch# config terminal
switch(config)# snmp-server host 10.1.1.1 filter-vrf red
```

Related Commands	Command	Description
	show snmp	Displays SNMP information.
	snmp-server host	Configures an SNMP host receiver.
	snmp-server host use-vrf	Configures Cisco NX-OS to send notifications on the specified VRF to communicate with an SNMP host receiver.

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snmp-server host use-vrf

To configure the device to communicate with a Simple Network Management Protocol (SNMP) host receiver on a specific virtual routing and forwarding (VRF) instance, use the **snmp-server host use-vrf** command. To return to the default, use the **no** form of this command.

snmp-server host *host-address* **use-vrf** *vrf-name* [**udp-port** *port*]

no snmp-server host *host-address* **use-vrf** *vrf-name* [**udp-port** *port*]

Syntax Description

<i>host-address</i>	Specifies the name or IP address of the host (the targeted recipient).
<i>vrf-name</i>	Name of the VRF. The name can be any alphanumeric string up to 63 characters.
udp-port <i>port</i>	Specifies the port UDP port of the host to use. The range is from 0 to 65535. The default is 162.

Defaults

None

Command Modes

Global configuration

Command History

Release	Modification
4.0(1)	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

The following example configures Cisco NX-OS to communicate with the host receiver on the blue VRF.

```
switch# config terminal
switch(config)# snmp-server host 10.1.1.1 use-vrf blue
```

Related Commands

Command	Description
show snmp	Displays SNMP information.
snmp-server host	Configures an SNMP host receiver.
snmp-server host filter-vrf	Sends only notifications on the specified VRF to the host receiver.

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snmp-server location

To configure the device location used by the Simple Network Management Protocol (SNMP), use the **snmp-server location** command. To remove the location, use the no form of this command.

snmp-server location [*location*]

no snmp-server location [*location*]

Syntax Description	<i>location</i>	(Optional) Specifies system location. The location can be any alphanumeric string up to 255 characters.
Defaults	None	
Command Modes	Global configuration	
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command does not require a license.	
Examples	This example shows how to set the SNMP location: switch# config terminal switch(config)# snmp-server location SanJose	
Related Commands	Command	Description
	show snmp	Displays information about SNMP.

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snmp-server mib community-map

To configure the Simple Network Management Protocol (SNMP) version 2c community to context mapping, use the **snmp-server mib community-map** command. To remove the community to context mapping, use the **no** form of this command.

snmp-server mib community-map *community-string* **context** *context-name*

no snmp-server mib community-map *community-string* **context** *context-name*

Syntax Description	
<i>community-string</i>	SNMP community string. The string can be any alphanumeric string up to 32 characters.
context <i>context-name</i>	Specifies the SNMP context. The name can be any alphanumeric string up to 32 characters.

Defaults None

Command Modes Global configuration

Supported User Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(2)	This command was introduced.

Usage Guidelines

Use the **snmp-server mib community-map** command to map between SNMPv2c communities and SNMP contexts. Use the **snmp-server context** command to map this context to a logical network entity. See the *Cisco NX-OS Security Configuration Guide, Release 4.0(1)* for more information on context mapping.

This command does not require a license.

Examples This example shows how to map the public community to the public1 context:

```
switch# configure terminal
switch(config)# snmp-server mib community-map public context public1
```

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Related Commands	Command	Description
	show snmp community	Displays information about SNMP communities.
	show snmp context	Displays information about SNMP contexts.
	snmp-server context	Maps an SNMP context to a logical network entity.

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snmp-server protocol enable

To enable the Simple Network Management Protocol (SNMP), use the **snmp-server protocol enable** command. To disable the SNMP protocol, use the **no** form of this command.

snmp-server protocol enable

no snmp-server protocol enable

Syntax Description This command has no arguments or keywords.

Defaults Enabled

Command Modes Global configuration

SupportedUserRoles network-admin
vdc-admin

Command History	Release	Modification
	4.0(3)	This command was introduced.

Usage Guidelines Use the **no snmp protocol enable** command to disable the SNMP protocol and close any TCP or UDP ports associated with the protocol.

This command does not require a license.

Examples This example shows how disable the SNMP protocol:

```
switch# configure terminal  
switch(config)# no snmp-server protocol enable
```

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snmp-server source-interface

To configure a Simple Network Management Protocol (SNMP) source interface through which notifications are sent, use the **snmp-server source-interface** command. To remove the SNMP source interface configuration, use the **no** form of this command.

```
snmp-server source-interface {traps | informs} {ethernet number | loopback number | mgmt
number | port-channel number | vlan number}
```

```
no snmp-server source-interface {traps | informs} {ethernet number | loopback number | mgmt
number | port-channel number | vlan number}
```

Syntax Description		
traps		Sends SNMP traps through the source interface.
informs		Sends SNMP information through the source interface.
ethernet <i>number</i>		Specifies the Ethernet IEEE 802.3z slot number and port number in this format: 1/1. The range for the slot number is from 1 to 18, and the range for the port number is from 1 to 128.
loopback <i>number</i>		Specifies the virtual interface number. The range is from 0 to 1023.
mgmt <i>number</i>		Specifies the management interface number.
port-channel <i>number</i>		Specifies the port-channel number and the sub-interface number in this format: 1.1. The range for the port-channel number is from 1 to 4096, and the range for the sub-interface number is from 1 to 4093.
vlan <i>number</i>		Specifies the VLAN interface number. The range is from 1 to 4094.

Defaults None

Command Modes Global configuration

Supported User Roles network-admin
vdc-admin

Command History	Release	Modification
	4.2(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to configure an SNMP source interface:

```
switch(config)# snmp-server source-interface traps ethernet 1/1
```

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This example shows how to remove the SNMP source interface:

```
switch(config)# no snmp-server source-interface traps ethernet 1/1
switch(config)#
```

Related Commands

Command	Description
snmp-server community	Configures the SNMP community string.
snmp-server host	Configures a host receiver for SNMP notifications.

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snmp-server tcp-session

To enable one-time authentication for Simple Network Management Protocol (SNMP) over a TCP session, use the **snmp-server tcp-session** command. To disable one-time authentication for SNMP over a TCP session, use the no form of this command.

snmp-server tcp-session [auth]

no snmp-server tcp-session [auth]

Syntax Description

auth	Enables one-time authentication for SNMP over a TCP session.
-------------	--

Defaults

One-time authentication for SNMP over a TCP session is enabled.

Command Modes

Global configuration

Supported User Roles

network-admin
vdc-admin

Command History

Release	Modification
4.0(1)	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example enables one-time authentication for SNMP over a TCP session.

```
switch# config t
switch(config)# snmp-server tcp-session auth
```

Related Commands

Command	Description
show snmp	Displays information about SNMP.

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snmp-server user

To configure the Simple Network Management Protocol (SNMP) user information, use the **snmp-server user** command. To disable the configuration or to revert to factory defaults, use the no form of this command.

```
snmp-server user username [group-name] [auth {md5 | sha} password [priv [aes-128] password] [localizedkey] [engineID id]
```

```
no snmp-server user username [group-name] [auth {md5 | sha} password [priv [aes-128] password] [localizedkey] [engineID id]
```

Syntax Description

<i>username</i>	Name of user. The name can be any case-sensitive alphanumeric string up to 32 characters.
<i>group-name</i>	(Optional) Name of group. The name can be any case-sensitive alphanumeric string up to 32 characters.
auth	(Optional) Sets authentication parameters for the user.
md5	Uses MD5 algorithm for authentication.
sha	Uses SHA algorithm for authentication.
<i>password</i>	User password. The password can be any case-sensitive alphanumeric string up to 64 characters. If you configure the localizedkey keyword, the password can be any case-sensitive alphanumeric string up to 130 characters
priv	(Optional) Sets encryption parameters for the user.
aes-128	(Optional) Sets 128-byte AES algorithm for privacy.
engineID <i>id</i>	Configures the SNMP Engine ID for a notification target user. The engineID format is a 12-digit colon-separated decimal number.
localizedkey	Sets passwords in localized key format. If you configure this keyword, the password can be any case-sensitive alphanumeric string up to 130 characters.

Defaults

None

Command Modes

Global configuration

Command History

Release	Modification
4.0(1)	This command was introduced.

Usage Guidelines

Use the **snmp-server user** command to configure user authentication and privacy settings for SNMP. If you use the **localizedkey** keyword, you cannot port the SNMP user configuration across devices as the user password contains information on the engine ID of the device. If you copy a configuration file into the device, the passwords may not be set correctly if the configuration file was generated at a different device. We recommend that you explicitly configure passwords after copying the configuration into the device.

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SNMP Version 3 is the most secure model, as it allows packet encryption with the **priv** keyword.

To assign multiple roles to a user, configure multiple **snmp-server user** *username* *group-name* commands. The *group-name* argument is defined by the **role name** command.

If you are configuring an SNMP notification target user, use the **engineID** keyword to configure the SNMP engine ID for this user.

To delete the user or the role associated with that user, use the **no** form of this command.



Note

You cannot delete the last role for a user.

This command does not require a license.

Examples

This example sets the user authentication information for user jane.

```
switch# config terminal
switch(config)# snmp-server user jane network-admin auth sha abcd1234
```

This example sets multiple roles for user sam.

```
switch# config terminal
switch(config)# snmp-server user sam network-admin
switch(config)# snmp-server user sam testrole
```

This example sets the user authentication and privacy information for user Juan.

```
switch# config terminal
switch(config)# snmp-server user Juan network-admin auth sha abcd1234 priv abcdefgh
```

This example sets the user authentication and SNMP engine ID for a notification target user.

```
switch# config terminal
switch(config)# snmp-server user notifUser network-admin auth sha abcd1234 engineID
00:12:00:00:09:03:00:05:48:00:74:30
```

Related Commands

Command	Description
role name	Configures role profiles used as SNMP group names.
show snmp	Displays SNMP information.
snmp-server host	Configures SNMP server host information.

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snmp-server user enforcePriv

To enforce privacy for an Simple Network Management Protocol (SNMP) user, use the **snmp-server user enforcePriv** command. To revert to factory defaults, use the no form of this command.

snmp-server user *username* **enforcePriv**

no snmp-server user *username* **enforcePriv**

Syntax Description	<i>username</i>	Name of user. The name can be any case-sensitive alphanumeric string up to 32 characters.
--------------------	-----------------	---

Defaults	None
----------	------

Command Modes	Global configuration
---------------	----------------------

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
------------------	--

Examples The following example enforces privacy for the user joe.

```
switch# config terminal
switch(config)# snmp-server user joe enforcePriv
```

Related Commands	Command	Description
	role name	Configures role profiles used as SNMP group names.
	show snmp	Displays SNMP information.
	snmp-server user	Configures SNMP user information.

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snmp-trap

To generate the Simple Network Management Protocol (SNMP) trap when an Embedded Event Manager (EEM) applet is triggered, use the **snmp-trap** command.

```
snmp-trap [intdata1 integer-data1] [intdata2 integer-data2] [strdata string-data] event-type
           ev_type policy-name name
```

Syntax	Description
intdata1 <i>integer-data1</i>	(Optional) Specifies an integer to be sent in the SNMP trap message to the SNMP agent.
intdata2 <i>integer-data2</i>	(Optional) Specifies a second integer to be sent in the SNMP trap message to the SNMP agent.
strdata <i>string-data</i>	(Optional) Specifies a string to be sent in the SNMP trap message to the SNMP agent. If the string contains embedded blanks, enclose it in double quotation marks.
event-type <i>ev_type</i>	Specifies the event type. Event type.
policy-name <i>name</i>	Specifies the policy name. Policy name.

Defaults None

Command Modes Any command mode

Supported User Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to generate an SNMP trap when an EEM applet is triggered:

```
switch(config)# event manager applet snmp-applet
switch(config-applet)# action 1 snmp-trap strdata "EEM detected server failure"
switch(config-applet)#
```


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Related Commands	Command	Description
	syslog	Configures a syslog message to generate when an Embedded Event Manager (EEM) applet is triggered.

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source

To configure the NetFlow exporter interface to use to reach the NetFlow collector for the configured destination, use the **source** command. To remove the source, use the **no** form of this command.

source *if-type if-number*

no source [*if-type if-number*]

Syntax Description	<i>if-type</i>	Interface type. For more information, use the question mark (?) online help function.
	<i>if-number</i>	Interface or subinterface number. For more information about the numbering syntax for your networking device, use the question mark (?) online help function.
Defaults	None	
Command Modes	NetFlow exporter configuration (config-flow-exporter)	
Supported User Roles	network-admin vdc-admin	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command does not require a license.	
Examples	This example shows how to configure the NetFlow exporter source interface:	
	<pre>switch(config)# flow exporter Netflow-Exporter-1 switch(config-flow-exporter)# source Ethernet3/11 switch(config-flow-exporter)#</pre>	
Examples	This example shows how to remove the Netflow exporter source interface configuration:	
	<pre>switch(config-flow-exporter)# no source Ethernet3/11 switch(config-flow-exporter)#</pre>	
Related Commands	Command	Description
	show flow exporter	Displays information about NetFlow exporters.

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source

To configure sources and the traffic direction in which to copy packets, use the **source** command. To remove sources, use the **no** form of this command.

```
source {interface interface_range | vlan vlan_range} [src_dir]
```

```
no source {interface interface_range | vlan vlan_range} [src_dir]
```

Syntax Description	Parameter	Description
	interface <i>interface_range</i>	Specifies interfaces. The range is from 1 to 128.
	vlan <i>vlan_range</i>	Specifies the VLAN type. The VLAN range is from 1 to 3967 and 4048 to 4093.
	<i>src_dir</i>	(Optional) Source direction. The traffic direction to copy as ingress (tx), egress (tx), or both. By default, the direction is both.

Defaults None

Command Modes config-tx-only-monitor configuration (config- monitor)

Supported User Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines

- This command does not require a license.
- You can configure one or more sources, as either a series of comma-separated entries, or a range of numbers. You can specify up to 128 interfaces.
- The traffic direction to copy as ingress (tx), egress (tx), or both. By default, the direction is both.

Examples This example shows how to configure sources and the traffic direction in which to copy packets:

```
switch(config)# monitor session 1  
switch(config-monitor)# source vlan 3, 6-10 tx  
switch(config-monitor)#
```

This example shows how to remove a source configuration:

```
switch(config-monitor)# no source vlan 3, 6-10 tx  
switch(config-monitor)#
```

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Related Commands

Command	Description
show monitor session	Displays the virtual SPAN configuration.
copy running-config startup-config	Copies the running configuration to the startup configuration.

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switchport monitor

To configure the switchport interface as a SPAN destination, use the **switchport monitor** command. To disable the configuration, use the no form of this command.

switchport monitor [ingress [learning]]

no switchport monitor [ingress [learning]]

Syntax Description	ingress	(Optional) Allows the SPAN destination port to inject packets that disrupt a certain TCP packet stream, for example, in networks with IDS.
	learning	(Optional) Allows the SPAN destination port to inject packets, and allows the learning of MAC addresses, for example, the IDS MAC address.

Defaults None

Command Modes Interface configuration

Command History	Release	Modification
	4.1(2)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example configures the Ethernet interface 7/2 as a SPAN destination.

```
switch# config t
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# interface eth 7/2
switch(config-if)# switchport monitor
switch(config-if)#
```

This example configures the Ethernet interface 7/2 as a SPAN destination and allows it to inject packets and learn MAC addresses:

```
switch# config t
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# interface eth 7/2
switch(config-if)# switchport monitor ingress learning
switch(config-if)#
```

This example disables the SPAN destination on Ethernet interface 7/2:

```
switch# config t
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# interface eth 7/2
switch(config-if)# no switchport monitor
switch(config-if)#
```

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Related Commands

Command	Description
monitor session	Enters the Monitor Configuration mode for configuring a SPAN session.
show monitor session	Displays the SPAN session configuration.

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system cores

To configure the destination for the system core, use the **system cores** command. To revert to the default, use the **no** form of this command.

```
system cores {slot0:[path] | tftp:[server][path]}filename
```

```
no system cores
```

Syntax Description	slot0:	Specifies the slot0: external file system.
	<i>path/</i>	(Optional) Directory path to the file. The directory names in the path are case sensitive.
	tftp:	Specifies a TFTP server.
	<i>/server/</i>	Name or IPv4 address of TFTP server. The server name is case sensitive.
	<i>filename</i>	Name for the core file. The name is alphanumeric, case sensitive, and has a maximum of 32 characters.

Defaults None

Command Modes Global configuration

Supported User Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to configure a core file:

```
switch# configure terminal
switch(config)# system cores slot0:core_file
```

This example shows how to disable system core logging:

```
switch# configure terminal
switch(config)# no system cores
```

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Related Commands	Command	Description
	clear system cores	Clears the core file.
	show system cores	Displays the core filename.

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system hap-reset

To enable the Supervisor Reset HA policy, use the **system hap-reset** command.

system hap-reset

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to enable the Supervisor Reset HA policy:

```
switch(config)# system hap-reset
switch(config)#
```

Related Commands	Command	Description
	show system standby manual-boot	Displays the status of the system standby manual boot option.

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system heartbeat

To enable heartbeat checks (default) and revert to the factory default, use the **system heartbeat** command.

system heartbeat

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to enable the heartbeat checks (default) and revert to the factory default:

```
switch(config)# system heartbeat
switch(config)#
```

Related Commands	Command	Description
	system no hap-reset	Disables the heartbeat checks (default) and reverts to the factory default.

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system no hap-reset

To disable the Supervisor Reset HA policy, use the **system no hap-reset** command.

system no hap-reset

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to disable the Supervisor Reset HA policy:

```
switch(config)# system no hap-reset
switch(config)#
```

Related Commands	Command	Description
	system hap-reset	Enables the Supervisor Reset HA policy.

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system no heartbeat

To disable the heartbeat checking (default) and revert to the factory default, use the **system no heartbeat** command.

system no heartbeat

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to disable the heartbeat checks (default) and revert to the factory default:

```
switch(config)# system no heartbeat
switch(config)#
```

Related Commands	Command	Description
	system heartbeat	Enables the heartbeat checks (default) and reverts to the factory default.

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system no standby manual-boot

To disable the system standby manual boot option, use the **system no standby manual-boot** command.

system no standby manual-boot

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to disable the system standby manual boot option:

```
switch(config)# system no standby manual-boot  
system standby manual-boot option disabled  
switch(config)#
```

Related Commands	Command	Description
	show system standby manual-boot	Displays the status of the system standby manual boot option.

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system no watchdog

To disable the watchdog feature, use the **system no watchdog** command.

system no watchdog

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to disable the watchdog feature:

```
switch(config)# system no watchdog
switch(config)#
```

Related Commands	Command	Description
	system no watchdog kgdb	Prevents the system from entering the Linux KGDB debugger on a watchdog failure.

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system no watchdog kgdb

To prevent the system from entering the Linux KGDB debugger on a watchdog failure, use the **system no watchdog kgdb** command.

system no watchdog kgdb

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to prevent the system from entering the Linux KGDB debugger on a watchdog failure:

```
switch(config)# system no watchdog kgdb
switch(config)#
```

Related Commands	Command	Description
	system no watchdog	Disables the watchdog feature.

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system pss shrink

To shrink Persistent Storage Service (PSS) files on the system, use the **system pss shrink** command.

system pss shrink

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to shrink PSS files on the system:

```
switch(config)# system pss shrink
pss shrink completed
switch(config)
```

Related Commands	Command	Description
	show system pss shrink status	Displays the last PSS shrink status.

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system standby manual-boot

To display the standby manual-boot status, use the **system standby manual-boot** command.

system standby manual-boot

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the standby manual-boot status:

```
switch(config)# system standby manual-boot  
system standby manual-boot option enabled  
switch(config)#
```

Related Commands	Command	Description
	system startup-config init	Initializes the startup configuration.

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system startup-config init

To initialize the startup configuration, use the **system startup-config init** command.

system startup-config init

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to initialize the startup-configuration:

```
switch(config)# system startup-config init
WARNING: This command is going to re-initialize the contents of the startup-configuration.
Do you want to continue? (y/n) [y]
```

Related Commands	Command	Description
	system startup-config unlock	Releases the system startup-configuration lock.

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system startup-config unlock

To release a system startup-configuration lock, use the **system startup-config unlock** command.

```
system startup-config unlock luck-id
```

Syntax Description	<i>luck-id</i>	Startup-configuration lock ID. The range is from 0 to 65536.
Defaults	None	
Command Modes	Any command mode	
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command does not require a license.	
Examples	This example shows how to release a system startup-configuration lock: switch(config)# system startup-config unlock switch(config)#	
Related Commands	Command	Description
	system startup-config init	Initializes the startup-configuration.

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system test-preupgrade running-ver

To test the running software version before an upgrade, use the **system test-preupgrade running-ver** command.

```
system test-preupgrade running-ver version-number target-ver target-number swid id impact
impact-number
```

Syntax Description

<i>version-number</i>	Software version number currently running on the system.
target-ver	Specifies the target version of the software.
<i>target-number</i>	Target version.
swid	Specifies the software ID of the image running on a module: system or kickstart.
<i>id</i>	Software ID.
impact	Specifies the impact: 0 for hitless and 1 for hitful.
<i>impact-number</i>	Impact number.

Defaults

None

Command Modes

Any command mode

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

Command History

Release	Modification
4.0(1)	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to test the running software version before an upgrade:

```
switch(config)# system test-preupgrade running-ver 4.2<0.202> target-ver Update
swid 4.2.1 impact 0
```

System will be upgraded according to following table:

Module	Swid	Impact	Running-Version	New-Version	Upg-Required
6	4.2.1	hitless	4.2<0.202>	Update	
1					
9	4.2.1	hitless	4.2<0.202>	Update	
1					
11	4.2.1	hitless	4.2<0.202>	Update	

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Final upgrade impact table:

```
Module      Impact
-----
      6      hitless
      9      hitless
     11      hitless
```

Message from services:

switch(config)#

Related Commands

Command	Description
system startup-config unlock	Releases a system startup-configuration lock.
system startup-config init	Initializes the startup configuration.

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system switchover

To switch over to the standby supervisor, use the **system switchover** command.

system switchover

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to switch over to the standby supervisor:

```
switch# system switchover
switch#
```

Related Commands	Command	Description
	show system redundancy	Displays the system redundancy status.

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system trace

To configure a system trace level, use the **system trace** command. To remove the system trace level configuration, use the **no** form of this command.

```
system trace bit-mask
```

```
no system trace [bit-mask]
```

Syntax Description	<i>bit-mask</i>	Bit mask to use to change the trace level of the system.
Defaults	None	
Command Modes	Global configuration (config)	
Supported User Roles	network-admin vdc-admin	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command does not require a license.	
Examples	<p>This example shows how to configure a system trace level:</p> <pre>switch(config)# system trace switch(config)#</pre> <p>This example shows how to remove the system trace level configuration:</p> <pre>switch(config)# system no trace switch(config)#</pre>	
Related Commands	Command	Description
	show cores	Displays the system core files.

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system watchdog

To enable watchdog checks, use the **system watchdog** command.

system watchdog

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to enable watchdog checks:

```
switch(config)# system watchdog
switch(config)#
```

Related Commands	Command	Description
	system no watchdog	Disables the watchdog feature.
	system no watchdog kgdb	Prevents the system from entering the Linux KGDB debugger on a watchdog failure.

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system watchdog kgdb

To configure the system to enter the Linux KGDB debugger on a watchdog failure, use the **system watchdog kgdb** command.

system watchdog kgdb

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to configure the system to enter the Linux KGDB debugger on a watchdog failure:

```
switch(config)# system watchdog kgdb
switch(config)#
```

Related Commands	Command	Description
	system watchdog	Enables the watchdog feature.
	system no watchdog	Disables the watchdog feature.

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