

# **S** Commands

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

# 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	name	Name of the sampler.	
Defaults	No samplers a	re defined.	
Command Modes	Global config	uration mode	
SupportedUserRoles	network-admi vdc-admin	n	
Command History	Release	Modification	
-	4.0(1)	This command was introduced.	
Usage Guidelines	NetFlow cache and the statisti in the packet a sampled, the c	bling means that M out of N packets are sampled. When a packet is sampled and there is a e miss, a NetFlow cache entry is created for this flow. The first packet timestamp is updated ics for the first packet are initialized (for example, the bytes are set to the number of bytes and the packet count is set to one). If there is a NetFlow cache hit when the packet is eache for this flow is updated, which includes adding the number of bytes in the packet to the rand incrementing the packet count by one.	
	Once you ente changes to the	er the <b>sampler</b> <i>name</i> command, you enter the sampler configuration mode, and the prompt e following:	
	<pre>switch(config-flow-sampler)#</pre>		
	Within the sam	npler configuration mode, the following keywords and arguments are available to flow monitor:	
	• description characters	<b>on</b> <i>description</i> —Provides a description for this sampler; you can add a maximum of 63 s.	
	• <b>exit</b> —Exi	ts from the current configuration mode.	
	• mode san	nple-num out-of packets—Configures the sampler mode. The valid values are as follows:	
	– sampl	<i>le-num</i> —Number of samples per sampling. The range is from 1 to 64.	
	– out-o	f-Specifies the samples per packet ratio.	
	– packe	ets—Number of packets in each sampling. The range is from 1 to 8192.	

• **no**—Negates a command or sets its defaults.

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.

# sampling

To set the sampling range for Switched Port Analyzer (SPAN) packets, use the **sampling** command. To revert to the default settings, use the **no** form of this command.

sampling range

no sampling

Syntax Description	range	Sampling range. Every nth packet will be spanned. The range is from 2 to 1023.
Defaults	None	
Command Modes		ies to local SPAN (config-monitor) and ERSPAN source session pan-src) configuration.
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	6.1(1)	This command was introduced.
Usage Guidelines	This command does	s not require a license.
Examples	This example show:	s how to set the sampling range for the SPAN packets:
		onitor session 3 type erspan-source pan-src)# sampling 100 itor)#
Related Commands	Command	Description
	monitor session	Enters the monitor configuration mode.

### save

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

save location

Syntax Description	location	Location of the file. The location can be in bootflash:, slot0:, or volatile: The filename can be any alphanumeric string up to 63 characters.
Defaults	None	
Command Modes	Any command mod	e
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	<b>Release</b> 4.0(1)	Modification This command was introduced.
Jsage Guidelines	This command does	s not require a license.
Examples	switch# configure	s how to save a configuration session to a file in bootflash: session myACLs save bootflash:sessions/myACLs
Related Commands	Command	Description
	delete	Deletes a file from a location.

# 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.		
	username username	(Optional) Indicates the remote user is entering a username and specifies the username.		
	password	Indicates the remote user is entering a password for authentication.		
	0	Indicates the password is in clear text.         Indicates the password is encrypted.         Remote user's password.         Places you into job configuration mode for the specified job name.         The maximum length of the name is 31 characters.		
	7			
	password			
	job name job-name			
	logfile	Specifies a logfile configuration.		
	size filesize	Specifies the size of the logfile. The range is from 16 to 1024 KB.		
	schedule	Defines a schedule for a job.		
	name schedule-name	Specifies the name of the schedule. 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		ne scheduler must already be enabled. , use the <b>feature scheduler</b> command.		

Remote users must authenticate with the device using the scheduler aaa-authentication command before using this command to configure a maintenance job. Note The commands within a scheduler job must be entered in a single line separated by semicolon (;). This command does not require a license. **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 filename is created using the current timestamp 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.

# shut

	To shut down an Ethernet Switched Port Analyzer (SPAN) session, use the <b>shut</b> command. To enable a SPAN session, use the <b>no</b> form of this command.		
	shut		
	no shut		
Syntax Description	This command has no ar	guments or keywords.	
Defaults	None		
Command Modes	Monitor-common config	uration (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	v to shut down a SPAN session:	
	<pre>switch(config)# monito</pre>		
	<pre>switch(config-monitor)</pre>	# shut	
	This example shows how	to enable a SPAN session:	
	<pre>switch(config-monitor) switch(config-monitor)</pre>		
Related Commands	Command	Description	
neialeu voililliailus	monitor session	Description           Enters the monitor configuration mode.	
	show monitor session	Displays the virtual SPAN or ERSPAN configuration.	
	show monitor session	Displays the virtual SEATA OF EASEATA Configuration.	

# sleep instance

To delay the execution of a command by a specified number of seconds in the maintenance profile, use the **sleep instance** command. You can delay multiple instances of a command. To remove the delay, use the **no** form of this command.

sleep instance instance-number seconds

no sleep instance instance-number seconds

### Syntax Description

	instance-number	Provides a label for the configuration by specifying a particular instance number. The range is from 0 to 2177483647.		
	seconds	Specifies the number of seconds by which the execution of the command has to be delayed. The range is from 0 to 2177483647.		
Defaults	None			
Command Modes	maintenance profile	configuration (config-mm-profile)		
SupportedUserRoles	network-admin vdc-admin			
	network-operator			
	vdc-operator			
Command History	Release	Modification		
	7.3(0)D1(1)	This command was introduced.		
Usage Guidelines	This command does	not require a license.		
Examples	This example shows how to delay the execution of one command by 20 seconds and another command by 10 seconds:			
	<pre>switch# configure maintenance profile normal-mode Please configure 'system mode maintenance always-use-custom-profile' if you want to use custom profile always for maintenance mode. Enter configuration commands, one per line. End with CNTL/Z. switch(config-mm-profile)# interface ethernet 1/1 switch(config-mm-profile-if-verify)# no shutdown switch(config-mm-profile-if-verify)# exit</pre>			

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switch(config-mm-profile)# sleep instance 1 20
switch(config-mm-profile)# router bgp 200
switch(config-mm-profile-router)# address-family ipv4 unicast
switch(config-mm-profile-router-af)# redistribute direct route-map my-rmap-deny
switch(config-mm-profile-router-af)# exit
switch(config-mm-profile-router)# exit
switch(config-mm-profile)# sleep instance 1 10
```

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Command	Description
configure maintenanceEnters a maintenance profile configuration session to create a maintenance mode profile or a custom normal mode profile.	
show run mmode	Displays the currently running maintenance profile configuration on a switch.
show system mode	Displays the current system mode and the current state of the maintenance mode timer when the switch is in maintenance mode.

# snapshot create

To create a snapshot, use the **snapshot create** command.

snapshot create name description

Syntax Description	name	The <i>name</i> variable can be 64 characters in length.	
	description	The <i>description</i> variable can be 256 characters in length.	
Defaults	None.		
Command History	Release	Modification	
	7.2.0	This command was introduced.	
Examples	This example shows ho	w to create a snapshot:	
	<pre>switch# snapshot create snap1 For documentation purposes. Executing show interface Done Executing show bgp sessions vrf all Done Executing show ip eigrp topology summary Done Executing show ipv6 eigrp topology summary Done Executing show vpc Done Executing show ip ospf vrf all Done Feature 'ospfv3' not enabled, skipping Executing show isis vrf all Done Snapshot 'snap1' created switch#</pre>		
Related Commands	Command	Description	
	<b>show snapshots</b> before-maintenance-mo de description	Displays snapshots present on the switch.	
	snapshot delete	Deletes the snapshot.	
	show snapshot compare	Compares snapshots and showing the summary and details of each feature.	

# snapshot delete

To delete a single snapshot or to delete all the snapshots in a system, use the **snapshot delete** command.

snapshot delete {all | snapshot-name}

Syntax Description	all	Deletes all the snapshots in the system.	
	snapshot-name	Deletes the specified snapshot.	
Defaults	None		
SupportedUserRoles	network-admin vdc-admin		
	network-operator		
	vdc-operator		
Command History	Release	Modification	
	7.3(0)D1(1)	This command was introduced.	
Usage Guidelines	This command does not require a license.		
Examples	This example shows how to delete all the snapshots in a system: switch# <b>snapshot delete all</b>		
	This example shows how to delete a specific snapshot:		
	switch # <b>snapshot d</b>	elete snapshot1	
<b>Related Commands</b>	Command	Description	
	show snapshots	Displays snapshots present on the switch.	
	snapshot create	Generates a snapshot.	
	snapshot section	Adds or deletes a snapshot section.	

# snapshot section

To add or delete a snapshot section, use the snapshot section command.

snapshot section {add section "show-command" row-id element-key1 [element-key2] | delete
 section}

Syntax Description	add	Adds the specified snapshot section to the snapshot.
-	section	Names the snapshot section that is added to the snapshot to display the show command output.
	"show command"	Specifies the <b>show</b> command. The output of this <b>show</b> command is displayed in the new snapshot section created. This <b>show</b> command has to be specified within quotation marks ("show").
	row-id	The row-id argument specifies the tag of each row entry of the <b>show</b> command's XML output.
	element-key1	Specifies the tag used to distinguish among row entries in the show command snapshot section output.
	element-key2	(Optional) Specifies another tag used to distinguish among row entries in the show command snapshot section output.
	delete	Deletes the specified snapshot section from the snapshot.
Defaults	None.	
SupportedUserRoles	network-admin vdc-admin	
	network-operator	
	vdc-operator	
Command History	Release	Modification
	7.3(0)D1(1)	This command was introduced.
Usage Guidelines	This command does n	ot require a license.
Examples	This example shows h <b>vrf all</b> command to th	now to add a snapshot section that displays the output of the <b>show ip route detail</b> he snapshot:
	switch# snapshot se ipprefix	ction add v4route show "show ip route detail vrf all" ROW_prefix

This example shows how to delete a snapshot section from the snapshot: switch# snapshot section delete v4route

**Related Commands** 

Command	Description
show snapshots	Displays snapshots present on the switch.
snapshot create	Generates a snapshot.
snapshot delete	Deletes snapshots.

# 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 the default settings, use the **no** form of this command.

snmp-server aaa-user cache-timeout seconds

no snmp-server aaa-user cache-timeout seconds

Syntax Description	seconds	Timeout value, in seconds. The range is from 1 to 86400.
Defaults	3600 seconds	
Command Modes	Global configuration	n mode
SupportedUserRoles	network-admin vdc-admin	
Command History	<b>Release</b> 4.0(3)	Modification This command was introduced.
Usage Guidelines	This command does	not require a license.
Examples	switch# configure	s how to configure the AAA user synchronization timeout value: terminal mmp-server aaa-user cache-timeout 6000
Related Commands	Command show snmp	<b>Description</b> Displays information about SNMP.

# 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 com	nunity access is read-only ( <b>ro</b> ).
Command Modes	Global configura	tion mode
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	agent on the devi	<b>rver community</b> command to configure read-only or read-write access to the SNMP ice. You can optionally configure the community for an access group or user role. For n on user roles, see the <i>Cisco Nexus 7000 Series NX-OS Security Configuration Guide</i> ,
	This command d	oes not require a license.
Examples	switch# <b>configu</b>	ows how to configure a read-only SNMP community: are terminal snmp-server community test ro

<b>Related Commands</b>	Command	Description
	show snmp community	Displays information about SNMP communities.
	show snmp group	Displays information about configured user roles.

## 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]

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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	context-name	SNMP context. The name can be any alphanumeric string up to 32 characters.	
	instance	(Optional) Specifies a protocol instance. The name can be any alphanumeric	
	instance-name	string up to 32 characters.	
	vrf vrf-name	(Optional) Specifies the virtual routing and forwarding (VRF) instance. The name can be any alphanumeric string up to 32 characters.	
	<b>topology</b> topology-name	(Optional) Specifies the topology. The name can be any alphanumeric string up to 32 characters.	
Defaults	None		
Command Modes	Global configurat	ion mode	
SupportedUserRoles	network-admin vdc-admin		
Command History	Release	Modification	
	4.0(2)	This command was introduced.	
Usage Guidelines	Use the <b>snmp-ser</b> such as protocol in	<b>ver context</b> command to map between SNMP contexts and logical network entities, nstances or VRFs.	
	Do not use the <b>instance</b> , <b>vrf</b> , or <b>topology</b> 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 <b>snmp-server mib community-map</b> command to map an SNMPv2c community to an SNMP context and use the <b>snmp-server context</b> command to map this context to a logical network entity.		
	For more information Gu	tion on context mapping, see the Cisco Nexus 7000 Series NX-OS Security ide, Release 6.x.	
	This command does not require a license.		

### 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 Co	mmands
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Command

	Description
4.0	Diamlana inf

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

### 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 [cbgp2] | bridge [newroot] [topologychange] | callhome [event-notify] [smtp-send-fail] | cfs [merge-failure] [state-change-notif] | config [ccmCLIRunningConfigChanged] | eigrp | entity [entity\_fan\_status\_change] [entity\_mib\_change] [entity\_module\_inserted] [entity\_module\_removed] [entity\_module\_status\_change] [entity\_power\_out\_change] [entity\_power\_status\_change] [entity\_unrecognised\_module] | feature-control [FeatureOpStatusChange] | hsrp [state-change] | license [notify-license-expiry] [notify-license-expiry-warning] [notify-licensefile-missing] [notify-no-license-for-feature] | link [IETF-extended-linkDown] [IETF-extended-linkUp] [cisco-extended-linkDown] [cisco-extended-linkUp] [linkDown] [linkUp] | ospf instance-tag [lsa | rate-limit rate] | port-security [access-secure-mac-violation] [trunk-secure-mac-violation] | rf [redundancy\_framework] | rmon [fallingAlarm | hcFallingAlarm | hcRisingAlarm | risingAlarm] | snmp [authentication] | stpx [inconsistency] [loop-consistency] [root-inconsistency] | sysmgr [cseFailSwCoreNotifyExtended] | upgrade [UpgradeJobStatusNotify] [UpgradeOpNotifyOnCompletion] | zone [default-zone-behavior-change] [merge-failure] [merge-success] [request-reject1] [unsupp-mem] | vtp [notifs | vlancreate | vlandelete]]

no snmp-server enable traps [aaa [server-state-change] | bgp [cbgp2] | bridge [newroot] [topologychange] | callhome [event-notify] [smtp-send-fail] | cfs [merge-failure] [state-change-notif] | config [ccmCLIRunningConfigChanged] | eigrp | entity [entity\_fan\_status\_change] [entity\_mib\_change] [entity\_module\_inserted] [entity module removed] [entity module status change] [entity power out change] [entity\_power\_status\_change] [entity\_unrecognised\_module] | feature-control [FeatureOpStatusChange] | hsrp [state-change] | license [notify-license-expiry] [notify-license-expiry-warning] [notify-licensefile-missing] [notify-no-license-for-feature] | link [IETF-extended-linkDown] [IETF-extended-linkUp] [cisco-extended-linkDown] [cisco-extended-linkUp] [linkDown] [linkUp] | ospf instance-tag [lsa | rate-limit rate] | port-security [access-secure-mac-violation] [trunk-secure-mac-violation] | rf [redundancy\_framework] | rmon [fallingAlarm | hcFallingAlarm | hcRisingAlarm | risingAlarm] | snmp [authentication] | stpx [inconsistency] [loop-consistency] [root-inconsistency] | sysmgr [cseFailSwCoreNotifyExtended] | upgrade [UpgradeJobStatusNotify] [UpgradeOpNotifyOnCompletion] | zone [default-zone-behavior-change] [merge-failure] [merge-success] [request-reject1] [unsupp-mem] | vtp [notifs | vlancreate | vlandelete]]

Syntax Description	aaa	(Optional) Enables AAA notifications.
	server-state- change	(Optional) Enables the server-state-change AAA notification.
	bgp	(Optional) Enables CISCO-BGP4-MIB notifications.
	cbgp2	(Optional) Enables CISCO-BGP-MIBv2 notifications.
	bridge	(Optional) Enables STP bridge MIB notifications.
	newroot	(Optional) Enables STP new root bridge notifications.
	topologychange	(Optional) Enables STP topology change notifications.

callhome	(Optional) Enables Call Home notifications.
event-notify	(Optional) Enables Call Home external event notifications.
smtp-send-fail	(Optional) Enables the smtp-send-fail Simple Mail Transfer Protocol (SMTP) message send fail notifications.
cfs	(Optional) Enables Cisco Fabric Services (CFS) notifications.
merge-failure	(Optional) Enables merge failure notifications.
state-change-notif	(Optional) Enables state change notifications.
config	(Optional) Enables configuration change notifications.
ccmCLIRunningConfi gChanged	(Optional) Enables CLI running/startup config change notifications.
eigrp	(Optional) Enables EIGRP4-MIB notifications.
entity	(Optional) Enables ENTITY-MIB notifications.
entity_mib_change	(Optional) Enables entity MIB change notifications.
entity_module_ inserted	(Optional) Enables entity module inserted notifications.
entity_module_ removed	(Optional) Enables entity module removed notifications.
entity_module_status _change	(Optional) Enables entity module status change notifications.
entity_power_out_ change	(Optional) Enables entity power out change notifications.
entity_power_status_ change	(Optional) Enables entity power status change notifications.
entity_unrecognised_ module	(Optional) Enables entity unrecognized module notifications.
feature-control	(Optional) Enables feature change notifications.
FeatureOpStatusChan ge	(Optional) Enables feature operation status change notifications.
hsrp	(Optional) Enables CISCO-HSRP-MIB notifications.
state-change	(Optional) Enables the state-change HSRP notifications.
license	(Optional) Enables license notifications.
notify-license-expiry	(Optional) Enables license expiry notifications.
notify-license-expiry- warning	(Optional) Enables license expiry warning notifications.
notify-licensefile- missing	(Optional) Enables license file missing notifications.
notify-no-license-for- feature	(Optional) Enables no license installed for feature notifications.
link	(Optional) Enables IF-MIB link notifications.
IETF-extended-linkD own	(Optional) Enables Internet engineering task force (IETF) extended link state down notifications.
IETF- extended-linkUp	(Optional) Enables IETF extended link state up notifications.

cisco-extended-linkDo	(Optional) Enables Cisco extended link state down notifications.
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cisco-extended-linkUp	(Optional) Enables Cisco extended link state up notifications.
linkDown	(Optional) Enables IETF Link state down notifications.
linkUp	(Optional) Enables IETF Link state up notifications
ospf instance-tag	(Optional) Enables Open Shortest Path First (OSPF) notifications.
lsa	(Optional) Enables OSPF LSA notifications.
rate-limit rate	(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.
access-secure-mac- violation	(Optional) Enables secure MAC violation notifications.
trunk-secure-mac- violation	(Optional) Enables VLAN secure MAC violation notifications.
rf	(Optional) Enables redundancy framework (RF) SNMP notifications.
redundancy_ framework	(Optional) Enables redundancy_framework (RF) Supervisor switchover MIB notifications.
rmon	(Optional) Enables remote monitoring (RMON) notifications.
fallingAlarm	(Optional) Enables RMON falling alarm notifications.
hcFallingAlarm	(Optional) Enables RMON high capacity falling alarm notifications.
hcRisingAlarm	(Optional) Enables RMON high capacity rising alarm notifications.
risingAlarm	(Optional) Enables RMON rising alarm 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 MIBLoop InconsistencyUpdate notifications.
root-inconsistency	(Optional) Enables SNMP STPX MIB RootInconsistencyUpdate notifications.
sysmgr	(Optional) Enables software change notifications.
cseFailSwCoreNotify Extended	(Optional) Enables software core notifications.
upgrade	(Optional) Enables upgrade notifications.
UpgradeJobStatusNot ify	(Optional) Enables upgrade job status notifications.
UpgradeOpNotifyOn Completion	(Optional) Enables upgrade global status notifications.
zone	(Optional) Enables default zone change notifications.
default-zone-behavior -change	(Optional) Enables default zone behavior change notifications.
merge-failure	(Optional) Enables merge failure notifications.
merge-success	(Optional) Enables merge success notifications.
request-reject1	(Optional) Enables request reject notifications.

#### Cisco Nexus 7000 Series NX-OS System Management Command Reference

vin         Optional) Enables VLAN Trunking Protocol (VTP) trap notifications.           notifs         (Optional) Enables the following notifications: vpConfigRevNumberError, vpConfigDevError, vsbpCorreDisablesviceDetected, vlamTrunkPortDynamicStateOpenage, vrpLocalModeChanged.           viarcreate         (Optional) Enables vtpVlanCreated notifications.           viandetete         (Optional) Enables vtpVlanCreated notifications.           Command Modes         Global configuration mode           SupportedUserRoles         network-admin           vdc-admin         vdc-admin           udc		unsupp-mem	(Optional) Enables unsupported member notifications.
notifs         (Optional) Enables the following notifications: vtpConfigRevNumberError, vtpConfigDigestError, vtpServerDisabled, vtpVersionOnDeviceDetected, vtaInTunkForDynamicStatusChanged, vtpLocalModeChanged, vtpVersionInUseChanged and vtpPruningStateOperChange.           vlancreate         (Optional) Enables vtpVlanCreated notifications.           vlanceate         (Optional) Enables vtpVlanCreated notifications.           vlanceate         (Optional) Enables vtpVlanCreated notifications.           vlandelete         (Optional) Enables vtpVlanCreated notifications.           Defaults         License and SNMP authentication notifications are enabled.           Command Modes         Global configuration mode           SupportedUserRoles         network-admin           vdc-admin         vdc-admin           vdc-admin         vdc-admin           vdc-admin         vdc-admin           vdc-admin         4.0(2)           Added the cfg2 keyword.         5.0(2)           4.0(2)         Added the ofSPF rate-limit keyword.           4.0(2)         Added the OSPF rate-limit keyword.           4.0(1)         This command does not require a license.           Examples         This command does not require a license.           Examples         This example shows how to enable BGP notifications:           switch* configure teeminal         switch(config) sump-server enable tr		vtp	(Optional) Enables VLAN Trunking Protocol (VTP) trap notifications.
vlandelete       (Optional) Enables vtpVlanDeleted notifications.         Defaults       License and SNMP authentication notifications are enabled.         Command Modes       Global configuration mode         SupportedUserRoles       network-admin vdc-admin         Vdc-admin       vdc-admin         vdc-admin			(Optional) Enables the following notifications: vtpConfigRevNumberError, vtpConfigDigestError, vtpServerDisabled, vtpVersionOneDeviceDetected, vlanTrunkPortDynamicStatusChange, vtpLocalModeChanged,
Defaults       License and SNMP authentication notifications are enabled.         Command Modes       Global configuration mode         SupportedUserRoles       network-admin         vdc-admin		vlancreate	(Optional) Enables vtpVlanCreated notifications.
Command Modes       Global configuration mode         SupportedUserRoles       network-admin         Command History       Release       Modification         6.2(8)       Added the cbgp2 keyword.         5.0(2)       Added the cfs, config, feature-control, rmon, and zone keywords.         4.0(3)       Added the eigrp keyword.         4.0(2)       Added the OSPF rate-limit keyword.         4.0(1)       This command was introduced.         Usage Guidelines       This command does not require a license.         Examples       This example shows how to enable BGP notifications:         switch# configure terminal switch(config) smmp-server enable traps bgp       This example shows how to enable VTP notifications:         switch# configure terminal switch(config) smmp-server enable traps vtp       Kelated Commands       Description		vlandelete	(Optional) Enables vtpVlanDeleted notifications.
SupportedUserRoles       network-admin         Command History       Release       Modification         6.2(8)       Added the cbgp2 keyword.       5.0(2)         5.0(2)       Added the cfs, config, feature-control, rmon, and zone keywords.         4.0(3)       Added the eigrp keyword.         4.0(2)       Added the OSPF rate-limit keyword.         4.0(1)       This command was introduced.         Usage Guidelines       This command does not require a license.         Examples       This example shows how to enable BGP notifications:         switch# configure terminal       switchf@onfigure.terminal         switch# configure terminal       switch# configure terminal         sw	Defaults	License and SNMP au	thentication notifications are enabled.
Vdc-admin         Command History       Release       Modification         6.2(8)       Added the cbgp2 keyword.         5.0(2)       Added the cigrp keyword.         4.0(3)       Added the eigrp keyword.         4.0(2)       Added the OSPF rate-limit keyword.         4.0(1)       This command was introduced.         Usage Guidelines         This command does not require a license.         Examples       This example shows how to enable BGP notifications:         switch(config) snmp-server enable traps bgp       This example shows how to enable braps bgp         This example shows how to enable VTP notifications:       switch(config) snmp-server enable traps vtp         Related Commands       Command       Description	Command Modes	Global configuration r	node
6.2(8)       Added the cbgp2 keyword.         5.0(2)       Added the cfs, config, feature-control, rmon, and zone keywords.         4.0(3)       Added the eigrp keyword.         4.0(2)       Added the OSPF rate-limit keyword.         4.0(1)       This command was introduced.         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         This example shows how to enable VTP notifications:         switch# configure terminal         switch(config) snmp-server enable traps vtp         Related Commands         Command         Description	SupportedUserRoles		
5.0(2)       Added the cfs, config, feature-control, rmon, and zone keywords.         4.0(3)       Added the eigrp keyword.         4.0(2)       Added the OSPF rate-limit keyword.         4.0(1)       This command was introduced.         Usage Guidelines         This command does not require a license.         Examples       This example shows how to enable BGP notifications:         switch# configure terminal         switch@ configure terminal         switch@ configure terminal         switch@ configure terminal         switch(config) snmp-server enable traps vtp         Related Commands         Command         Description	Command History	Release	Modification
4.0(3)       Added the eigrp keyword.         4.0(2)       Added the OSPF rate-limit keyword.         4.0(1)       This command was introduced.         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         This example shows how to enable VTP notifications:       switch# configure terminal         switch# configure terminal       switch(config) snmp-server enable traps bgp         This example shows how to enable VTP notifications:       switch(config) snmp-server enable traps vtp         Related Commands       Command       Description	-	6.2(8)	Added the <b>cbgp2</b> keyword.
4.0(2)       Added the OSPF rate-limit keyword.         4.0(1)       This command was introduced.         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         This example shows how to enable VTP notifications: switch# configure terminal switch(config) snmp-server enable traps vtp         Related Commands       Command       Description		5.0(2)	Added the <b>cfs</b> , <b>config</b> , <b>feature-control</b> , <b>rmon</b> , and <b>zone</b> keywords.
4.0(1)       This command was introduced.         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         This example shows how to enable VTP notifications:       switch# configure terminal         switch# configure terminal       switch(config) snmp-server enable traps bgp         This example shows how to enable VTP notifications:       switch(config) snmp-server enable traps vtp         Related Commands       Command       Description		4.0(3)	Added the <b>eigrp</b> 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         This example shows how to enable VTP notifications:       switch# configure terminal         switch# configure terminal       switch(config) snmp-server enable traps bgp         This example shows how to enable VTP notifications:       switch(config) snmp-server enable traps vtp         Related Commands       Command       Description		4.0(2)	Added the OSPF rate-limit keyword.
Examples       This example shows how to enable BGP notifications:         switch# configure terminal       switch(config) snmp-server enable traps bgp         This example shows how to enable VTP notifications:       switch# configure terminal         switch# configure terminal       switch(config) snmp-server enable traps vtp         Related Commands       Command       Description			
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switch# configure terminal         switch(config) snmp-server enable traps vtp         Related Commands       Command       Description		This command does no	ot require a license.
switch(config)     snmp-server enable traps vtp       Related Commands     Command     Description		This command does not this example shows h switch# configure to	ot require a license. ow to enable BGP notifications: erminal
		This command does not This example shows h switch# <b>configure to</b> switch(config) <b>snmp</b>	ot require a license. ow to enable BGP notifications: erminal -server enable traps bgp
•		This command does not This example shows h switch# configure to switch(config) snmp This example shows h switch# configure to	ot require a license. ow to enable BGP notifications: erminal -server enable traps bgp ow to enable VTP notifications: erminal
	Examples	This command does not This example shows h switch# configure to switch(config) snmp. This example shows h switch# configure to switch(config) snmp.	ot require a license. ow to enable BGP notifications: erminal -server enable traps bgp ow to enable VTP notifications: erminal -server enable traps vtp

# snmp-server globalEnforcePriv

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

snmp-server globalEnforcePriv

no snmp-server globalEnforcePriv

Syntax Description	This command has no	o arguments or keywords.
Defaults	Disabled	
Command Modes	Global configuration	mode
SupportedUserRoles	network-admin vdc-admin	
Command History	<b>Release</b> 4.0(1)	Modification This command was introduced.
Usage Guidelines	Use the <b>snmp-server</b> This command does	<b>r globalEnforcePriv</b> command to enforce privacy on all SNMP users. not require a license.
Examples	switch# <b>configure</b>	how to globally enforce privacy for all SNMP contacts: terminal mp-server globalEnforcePriv
Related Commands	Command	Description
	show snmp	Displays information about SNMP.

### 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 | version {1 snmp-name | noauth snmp-name | 2c snmp-name | 3 {auth
  snmp-name | version {1 snmp-name | 2c snmp-name | 3 {auth
  snmp-name | version {1 snmp-name | 2c snmp-name | 3 {auth
  snmp-name | version {1 snmp-name | 3 {auth
  snmp-name | 2c snmp-name | 3 {auth
  snmp-name | 2c snmp-name | 3 {auth
  snmp-name | version {1 snmp-name | 2c snmp-name | 3 {auth
  snmp-name | version {1 snmp-name | 2c snmp-name | 3 {auth
  snmp-name | version {1 snmp-name | 2c snmp-name | 3 {auth
  snmp-name | version {1 snmp-name | 3 {auth
  snmp-name | 3 {auth
  snmp-name | 4 snmp-name | 3 {auth
  snmp-name | 4 snmp-name |
- 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 | 3 {auth snmp-name | 3 {auth snmp-name | 2c snmp-name | 3 {auth snmp-name | noauth snmp-name | 2c snmp-name | 3 {auth snmp-name | noauth snmp-name | 2c snmp-name | 3 {auth snmp-name | version {1 snmp-name | 2c snmp-name | 3 {auth snmp-name | 1 snmp-name | 2c snmp-name | 3 {auth snmp-name | 1 snmp-name | 2c snmp-name | 3 {auth snmp-name | 1 snmp-name | 2c snmp-name | 3 {auth snmp-name | 1 snmp-name | 2c snmp-name | 3 {auth snmp-name | 2c snmp-name | 3 {auth snmp-name | 4 snmp-na

Syntax Description	host-name	IP4 or IPv6 address or name of the host.
	snmp-name	SNMP community string or SNMPv3 username. The maximum number of alphanumeric characters is 32.
	filter-vrf	Specifies the virtual routing and forwarding (VRF) instance whose notifications are to be filtered.
	vrf-name	Name of the VRF. The maximum number of alphanumeric characters is 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 number	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 number	Specifies the virtual interface number. The range is from 0 to 1023.
	mgmt number	Specifies the management interface number. The value is 0.

	<b>port-channel</b> number	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 number	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 port	Specifies the User Datagram Protocol (UDP) port number of the notification host. The range is from 0 to 65535.
Defaults	None	
Command Modes	Global configurati	ion mode
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	4.2(1)	This command was introduced.
Usage Guidelines	The source-interfa	This command was introduced. ace configuration overrides the global source-interface configuration. es not require a license.
Usage Guidelines Examples	The source-interfa This command do This example show	ace configuration overrides the global source-interface configuration. es not require a license. ws how to configure an SNMP server host:
	The source-interfa This command do This example show switch(config)#	ace configuration overrides the global source-interface configuration. es not require a license. ws how to configure an SNMP server host: snmp-server host 192.0.2.1 traps snmp1 udp-port 1
	The source-interfa This command do This example show switch(config)# This example show	ace configuration overrides the global source-interface configuration. es not require a license. ws how to configure an SNMP server host:
	The source-interfa This command do This example show switch(config)# This example show switch(config)#	ace configuration overrides the global source-interface configuration. es not require a license. ws how to configure an SNMP server host: snmp-server host 192.0.2.1 traps snmp1 udp-port 1 ws how to remove an SNMP server host:
Examples	The source-interfa This command do This example show switch(config)# This example show switch(config)# switch(config)#	ace configuration overrides the global source-interface configuration. es not require a license. ws how to configure an SNMP server host: snmp-server host 192.0.2.1 traps snmp1 udp-port 1 ws how to remove an SNMP server host: no snmp-server host 192.0.2.1 traps snmp1 udp-port 1

## 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	host-address	Name or IP address of the host (the targeted recipient).
	vrf-name	Name of the VRF. The name can be any alphanumeric string up to 63 characters.
	udp-port port	(Optional) Specifies the port UDP port of the host to use. The range is from 0 to 65535. The default is 162.
efaults	None	
ommand Modes	Global configuration	mode
Command History	Release	Modification
	4.0(1)	This command was introduced.
lsage Guidelines	This command does n	ot require a license.
xamples	This example shows h	now to configure the host receiver to receive notifications from the red VRF.
	switch# <b>config term</b> switch(config)# <b>snm</b>	ninal p-server host 10.1.1.1 filter-vrf red
elated Commands	Command	Description
Related Commands	Command show snmp	<b>Description</b> Displays SNMP information.
Related Commands		•

## 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	host-address	Name or IP address of the host (the targeted recipient).
	vrf-name	Name of the VRF. The name can be any alphanumeric string up to 63 characters.
	udp-port port	(Optional) 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 1	mode
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command does n	ot require a license.
Examples	This example shows h VRF.	ow to configure Cisco NX-OS to communicate with the host receiver on the blue
	switch# <b>config term</b> switch(config)# <b>snm</b>	inal p-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.

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

# 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	community-string	SNMP community string. The string can be any alphanumeric string up to 32 characters.
	context context-name	Specifies the SNMP context. The name can be any alphanumeric string up to 32 characters.
Defaults	None	
Command Modes	Global configuratio	n mode
SupportedUserRoles	network-admin vdc-admin	
Command History	Release	Modification
	4.0(2)	This command was introduced.
Usage Guidelines	SNMP contexts. Us	er mib community-map command to map between SNMPv2c communities and e the snmp-server context command to map this context to a logical network entity. on on context mapping, see the <i>Cisco Nexus 7000 Series NX-OS Security</i>
	Configuration Guid	
	Inis command does	s not require a license.
Examples	This example shows	s how to map the public community to the public1 context:
	switch# <b>configure</b> switch(config)# <b>s</b>	terminal nmp-server mib community-map public context public1

<b>Related Commands</b>	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.

## snmp-server packetsize

To establish control over the largest Simple Network Management Protocol (SNMP) packet size permitted when the SNMP server is receiving a request or generating a reply, use the **snmp-server packetsize** command. To restore the default, use the **no** form of this command.

snmp-server packetsize byte-count

no snmp-server packetsize byte-count

Syntax Description	byte-count	Range is 484 to 17382.	
Command Default	Packet size is not	t configured.	
Command Modes	Global configura	tion mode	
SupportedUserRoles	network-admin vdc-admin		
Command History	Release	Modification	
	6.2(10)	This command was introduced.	
Usage Guidelines	This command d	oes not require a license.	
Examples	The following ex	ample establishes a packet filtering of a maximum size of 1024 bytes:	
	switch(config)#	snmp-server packetsize 1024	

# snmp-server protocol enable

To enable the Simple Network Management Protocol (SNMP), use the **snmp-server protocol enable** command. To disable SNMP, 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 mode		
SupportedUserRoles	network-admin vdc-admin		
Command History	<b>Release</b> 4.0(3)	Modification This command was introduced.	
Usage Guidelines	Use the <b>no snmp protocol enable</b> command to disable SNMP and close any TCP or UDP ports associated with the protocol. This command does not require a license.		
Examples	This example shows how to disable SNMP: switch# configure terminal switch(config)# no snmp-server protocol enable		

# 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	Specifies the Ethernet IEEE 802.3z slot number and port number in this format: 1/1.	
	number	The range for the slot number is from 1 to 18, and the range for the port number is from 1 to 128.	
	loopback number	Specifies the virtual interface number. The range is from 0 to 1023.	
	mgmt number	Specifies the management interface number.	
	<b>port-channel</b> number	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 number	Specifies the VLAN interface number. The range is from 1 to 4094.	
Defaults	None		
Command Modes	Global configuration mode		
SupportedUserRoles	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		

This example shows how to remove the SNMP source interface:

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

#### Relate

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

### 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	(Optional) Enables one-time authentication for SNMP over a TCP session.	
Defaults	One-time authentic	ation for SNMP over a TCP session is enabled.	
Command Modes	Global configuration	on mode	
SupportedUserRoles	network-admin vdc-admin		
Command History	<b>Release</b> 4.0(1)	Modification This command was introduced.	
Usage Guidelines	This command doe	s not require a license.	
Examples	This example shows how to enable one-time authentication for SNMP over a TCP session.		
	switch# <b>config t</b> switch(config)# <b>s</b>	snmp-server tcp-session auth	
Related Commands	Command	Description	
	show snmp	Displays information about SNMP.	

### 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	username	Name of the user. The name can be any case-sensitive, alphanumeric string up to 32 characters.		
	group-name	(Optional) Name of the group. The name can be any case-sensitive, alphanumeric string up to 32 characters.		
	auth	(Optional) Sets authentication parameters for the user.		
	md5	Uses the MD5 algorithm for authentication.		
	sha password	Uses the SHA algorithm for authentication.		
		User password. The password can be any case-sensitive, alphanumeric string up to 64 characters. If you configure the <b>localizedkey</b> 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 the 128-byte AES algorithm for privacy.		
	localizedkey	(Optional) Sets passwords in the localized key format. If you configure this keyword, the password can be any case-sensitive, alphanumeric string up to 130 characters.		
	engineID id	(Optional) Configures the SNMP Engine ID for a notification target user. The engineID format is a 12-digit colon-separated decimal number.		
Defaults	None			
Command Modes	Global configuration	on mode		
Command History	Release	Modification		
	4.0(1)	This command was introduced.		
Usage Guidelines	you use the localize	er user command to configure user authentication and privacy settings for SNMP. If edkey keyword, you cannot port the SNMP user configuration across devices because 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.

SNMP Version 3 is the most secure model, because 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.



You cannot delete the last role for a user.

This command does not require a license.

```
Examples
```

This example shows how to set the user authentication information for user jane:

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

This example shows how to 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 shows how to set 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 shows how to set 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
```

<b>Related Commands</b>	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.

# snmp-server user enforcePriv

To enforce privacy for a 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	username	Name of the user. The name can be any case-sensitive, alphanumeric string
		up to 32 characters.
Defaults	None	
Command Modes	Global configuration n	node
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command does no	ot require a license.
Examples	This example shows he	ow to enforce privacy for the user joe:
	switch# <b>config term</b> : switch(config)# <b>snmg</b>	inal D-server user joe enforcePriv
	<u> </u>	
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.

### snmp-trap

To generate a 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(Optional) Specifies an integer to be sent in the SNMP trap message to the sent in the sent i		
	<b>intdata2</b> integer-data2	(Optional) Specifies a second integer to be sent in the SNMP trap message to the SNMP agent.	
	strdata(Optional) Specifies a string to be sent in the SNMP trap message to the SNMP agstring-dataIf the string contains embedded blanks, enclose it in double quotation marks.		
	event-type	Specifies the event type.	
	ev_type	Event type.	
	policy-name	Specifies the policy name.	
	name	Policy name.	
Defaults	None		
Command Modes	Any command r	node	
SupportedUserRoles	network-admin network-operator		
	vdc-admin vdc-operator		
Command History	Release	Modification	
	4.0(1)	This command was introduced.	
Usage Guidelines	This command o	does not require a license.	
Examples	This example shows how to generate an SNMP trap when an EEM applet is triggered:		
		<pre># event manager applet snmp-applet applet)# action 1 snmp-trap strdata "EEM detected server failure" applet)#</pre>	

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

### 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	if-type	Interface type. For more information, use the question mark (?) online help function.
	if-number	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 export	ter configuration (config-flow-exporter)
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 s	hows how to configure the NetFlow exporter source interface:
	switch(config-	)# flow exporter Netflow-Exporter-1 -flow-exporter)# source Ethernet3/11 -flow-exporter)#
	This example s	hows how to remove the Netflow exporter source interface configuration:
		-flow-exporter)# <b>no source Ethernet3/11</b> -flow-exporter)#
Related Commands	Command	Description
	show flow exp	orter Displays information about NetFlow exporters.

### 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 {exception {all | fabricpath | layer3 | other} | interface {all | ethernet {slot-number /
   port-number | range}| port-channel {port-channel-number | range} | sup-eth
   inband-interface-number} | vlan {number | range} [both | rx | tx]}
- **no source** {**exception** {**all** | **fabricpath** | **layer3** | **other**} | **interface** {**all** | **ethernet** {*slot-number* / *port-number* | *range*} | **port-channel** {*port-channel-number* | *range*} | **sup-eth** *inband-interface-number*} | **vlan** {*number* | *range*} [**both** | **rx** | **tx**]}

		Specifies exception sources. You can specify all, fabricpath, layer3 and other sources
		as exception sources.
	interface	Specifies interfaces. Use the <b>all</b> keyword to enable the monitor session to monitor all
		VLANs and ports in the VDC such as physical ports, Port Channels, FEX ports and
		FEX Port Channels. The all keyword is supported only in extended SPAN and extended
		ERSPAN sessions.
	ethernet	Specifies ethernet interfaces.
	slot-number	Specifies the slot-number. The range is from 1 to 253.
	port-number	Specifies the port-number. The range is from 1 to 254.
	range	Specifies the range.
-	port-channel	Specifies port-channel interfaces.
	port-channel-n umber	Specifies the port-channel number. The range is from 1 to 4096.
	sup-eth	Specifies the ethernet inband interface.
	inband-interfac e-number	Specifies the ethernet inband interface number. You can only specify the value as 0.
-	vlan	Specifies a VLAN.
	number	Specifies the VLAN number. The range is from 1 to 3967.
	rx	Specifies traffic direction as ingress.
	tx	Specifies traffic direction as egress.
	both	Specifies traffic direction as both ingress and egress.

### SupportedUserRoles

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

Modification **Command History** Release 7.3(0)D1(1) You can use the **all** keyword to enable the monitor session to monitor all VLANs and ports in the VDC such as physical ports, Port Channels, FEX ports and FEX Port Channels. 4.0(1)This command was introduced. **Usage Guidelines** 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. This command does not require a license. 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 session 2 switch(config-monitor)# source interface sup-eth 0 both switch(config)# monitor session 2 switch(config-monitor)# source interface ethernet 2/1-3, ethernet 3/1 rx This example shows how to remove a source configuration: switch(config-monitor)# no source vlan 3, 6-10 tx This example shows how to enable the monitor session to monitor all VDC ports: switch(config)# monitor session 2 switch(config-monitor)# source interface all rx

<b>Related Commands</b>	Command	Description
	show monitor session	Displays the virtual SPAN or ERSPAN configuration.
	copy running-config startup-config	Copies the running configuration to the startup configuration.

## source exception

To configure the source as an exception Ethernet Switched Port Analyzer (SPAN) or Encapsulated Remote Switched Port Analyzer (ERSPAN) session, use the **source exception** command. To remove the source as an exception SPAN or ERSPAN session, use the **no** form of this command.

source exception {layer3 | fabricpath | other | all}

no source exception {layer3 | fabricpath | other | all}

Syntax Description	layer3	Specifies the Layer 3 exception type for F2 Series and M Series modules.
	fabricpath	Specifies the FabricPath exception type for F Series modules.
	other	Specifies exceptions for M Series modules that are dropped through redirect registers programmed with a drop destination interface.
	all	Includes all Layer 3, FabricPath, and other exceptions.
Defaults	None	
Command Modes	config-monitor mo	de (for a SPAN session)
	config-erspan-src n	node (for an ERSPAN session)
SupportedUserRoles	network-admin vdc-admin	
Commond Waters	Release	Modification
Command History	neicase	Woullication
Command History	6.2(2)	This command was introduced.
Command History Usage Guidelines	6.2(2) M1 and M2 Series r	This command was introduced. modules support exception SPAN only in the nonadministration virtual device context
	6.2(2) M1 and M2 Series r (VDC), and at lease	This command was introduced.
	6.2(2) M1 and M2 Series r (VDC), and at lease This command doe	This command was introduced. modules support exception SPAN only in the nonadministration virtual device context t one interface of the module must be present for the VDC.
Usage Guidelines	6.2(2) M1 and M2 Series r (VDC), and at lease This command doe This example show switch(config)# m	This command was introduced. modules support exception SPAN only in the nonadministration virtual device context t one interface of the module must be present for the VDC. as not require a license.
Usage Guidelines	6.2(2) M1 and M2 Series r (VDC), and at lease This command doe This example show switch(config)# <b>n</b> switch(config-mor	This command was introduced. modules support exception SPAN only in the nonadministration virtual device context t one interface of the module must be present for the VDC. as not require a license.

<b>Related Commands</b>	Command	Description
	monitor session	Enters the monitor configuration mode.
	show monitor session	Displays the virtual SPAN or ERSPAN configuration.

# switchport monitor

To configure the switchport interface as a Switched Port Analyzer (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 an intrusion detection system (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 configu	ration mode	
Command History	Release	Modification	
-	4.1(2)	This command was introduced.	
Examples	This example sho	ows how to configure the Ethernet interface 7/2 as a SPAN destination:	
	switch(config)# switch(config-i	tion commands, one per line. End with CNTL/Z. interface eth 7/2 f)# switchport monitor	
	switch(config-if)# This example shows how to configure the Ethernet interface 7/2 as a SPAN destination and allow it to inject packets and learn MAC addresses:		
	<pre>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)#</pre>		
	This example shows how to disable the SPAN destination on Ethernet interface 7/2:		
	switch(config)#	t tion commands, one per line. End with CNTL/Z. interface eth 7/2 f)# no switchport monitor	

switch(config-if)#

<b>Related Commands</b>	Command	Description
	monitor session	Enters the monitor configuration mode for configuring a SPAN session.
	show monitor session	Displays the SPAN or ERSPAN session configuration.

# switchport monitor exclude header

To remove the FabricPath and VLAN tag headers for the specified SPAN destination ports in the VDC, use the **switchport monitor exclude header** command. To disable the configuration, use the **no** form of this command.

switchport monitor exclude header

no switchport monitor exclude header

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

Defaults

None

**Command Modes** Interface configuration mode

Release	Modification	
6.2(10)	This command was introduced.	
This command does not require a license.		
When you enter both the global configuration.	e global and port-level configurations for this feature, the port-level overrides the	
This example shows how to configure the Ethernet interface 7/2 to remove the FabricPath and VLAN tag headers to SPAN destination ports:		
<pre>switch(config)# inter</pre>		
switch(config-if)# <b>sw</b> switch(config-if)#	ritchport monitor exclude header	
Command	Description	
show running-config	Displays the configuration for removing the FabricPath and VLAN tag headers from specified SPAN destination ports.	
	<ul> <li>6.2(10)</li> <li>This command does not</li> <li>When you enter both the global configuration.</li> <li>This example shows how tag headers to SPAN de switch# config t</li> <li>Enter configuration constitute switch(config)# inter switch(config-if)# switch(config-if)#</li> <li>Kommand</li> </ul>	

### 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.	
	path/	(Optional) Directory path to the file. The directory names in the path are case sensitive.	
	tftp:	Specifies a TFTP server.	
	server	Name or IPv4 address of the TFTP server. The server name is case sensitive.	
	filename	Name for the core file. The name is alphanumeric, case sensitive, and has a maximum of 32 characters.	
Defaults	None		
Command Modes	Global configuratio	n mode	
SupportedUserRoles	network-admin vdc-admin		
Command History	Release	Modification	
	4.0(1)	This command was introduced.	
Usage Guidelines	This command does	s not require a license.	
Examples	This example show	s how to configure a core file:	
	<pre>switch# configure terminal switch(config)# system cores slot0:core_file</pre>		
	This example shows how to disable system core logging:		
	switch# configure terminal switch(config)# no system cores		

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

### system default switchport monitor exclude header

To remove the FabricPath and VLAN tag headers for all SPAN destination ports in the VDC, use the **system default switchport monitor exclude header** command. To disable the configuration, use the **no** form of this command.

system default switchport monitor exclude header

no system default switchport monitor exclude header

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

Defaults

**Command Modes** Global configuration mode

None

Command History	Release	Modification
	6.2(10)	This command was introduced.

### **Usage Guidelines** This command does not require a license.

**Examples** This example shows how to configure all SPAN destination ports to remove the FabricPath and VLAN tag headers:

switch# config t
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# system default switchport monitor exclude header
switch(config)#

<b>Related Commands</b>	Command	Description
	show running-config	Displays the configuration for removing the FabricPath and VLAN tag headers from all SPAN destination ports.

### system hap-reset

To enable the Supervisor Reset high availability (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 HistoryReleaseModification4.0(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)#

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

# 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	<b>Release</b> 4.0(1)	Modification This command was introduced.
Usage Guidelines	This command does not	
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.

### system mode maintenance

To put the switch in maintenance mode, use the **system mode maintenance** command. To exit the maintenance mode and return to normal mode, use the **no** form of the command.

system mode maintenance

#### no system mode maintenance

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

Defaults

None

### **Command Modes** Global configuration (config)

### SupportedUserRoles network-admin

vdc-admin network-operator vdc-operator

Command History	Release	Modification
	8.0(1)	This command has been enhanced to execute a normal mode profile and activate a timer ensuring that sufficient time is provided for the switch to complete any hardware programming that may be going on before the af- ter_maintenance snapshot is taken.
	7.3(0)D1(1)	This command was modified. The default mode for Graceful Insertion and Removal (GIR) is "isolate".
	7.2(0)D1(1)	This command was introduced. The default mode for GIR is "shutdown".

#### **Usage Guidelines**

In Cisco NX-OS Release 7.2(0)D1(1), the default mode for Graceful Insertion and Removal (GIR) is "shutdown". The switch will use the **shutdown** command to bring down the protocols and shut down the physical ports.

Starting with Cisco NX-OS Release 7.3(0)D1(1), the default mode for GIR is ïsolate". The switch will use the **isolate** command to isolate the protocols from the network. The switch will then be isolated from the network but is not shut down.

Starting with Cisco NX-OS release 8.0(1), the [no] system mode maintenance command has been enhanced to execute a normal mode profile and activate a timer ensuring that sufficient time is provided for the switch to complete any hardware programming that may be going on before the after\_maintenance snapshot is taken. Once the timer expires, the after\_maintenance snapshot is taken in the background and a new warning syslog message, MODE\_SNAPSHOT\_DONE, is sent after the snapshot is complete. The default delay timer value is 120 seconds. The output of the [no] system mode maintenance command displays the delay timer value, in seconds, after which the

after\_maintenance snapshot is generated:

The after\_maintenance snapshot will be generated in <delay> seconds. After that time, please use 'show snapshots compare before\_maintenance after\_maintenance' to check the health of the system.

Starting with Cisco NX-OS Release 8.0(1), a visible CLI indicator has been added to show that the system is in maintenance mode. For example, switch(config)# will appear as switch(maint-mode)(config)#.

This command does not require a license

#### **Examples**

This example shows how to put the switch in maintenance mode:

```
switch# configure terminal
switch(config)# system mode maintenance
Following configuration will be applied:
router bgp 100
  isolate
router ospf 100
 isolate
router isis 100
  isolate
Do you want to continue (y/n)? [no] y
Generating a snapshot before going into maintenance mode
Starting to apply commands...
Applying : router bgp 100
Applying :
           isolate
Applying : router ospf 100
Applying : isolate
Applying : router isis 100
Applying : isolate
```

Maintenance mode operation successful.

This example shows how to put a switch, running the Cisco NX-OS Release 8.0(1), in maintenance mode:

```
switch# configure terminal
switch(config)# system mode maintenance
Following configuration will be applied:
router bgp 100
  isolate
router ospf 100
  isolate
router isis 100
 isolate
Do you want to continue (yes/no)? [no] y
Generating before_maintenance snapshot before going into maintenance mode
Starting to apply commands...
Applying : router bgp 100
Applying : isolate
Applying : router ospf 100
Applying : isolate
Applying : router isis 100
```

Applying : isolate

Maintenance mode operation successful. switch(maint-mode)(config)# 2016 Dec 5 06:19:13 switch %\$ VDC-1 %\$ % MMODE-2-MODE\_CHANGED: System changed to "maintenance" mode.

This example shows how to exit the maintenance mode and return to normal mode:

switch# configure terminal
switch(config)# no system mode maintenance

Following configuration will be applied:

router isis 100 no isolate router ospf 100 no isolate router bgp 100 no isolate

Do you want to continue (y/n)? [no] y

Starting to apply commands...

Applying : router isis 100 Applying : no isolate Applying : router ospf 100 Applying : no isolate Applying : router bgp 100 Applying : no isolate

Maintenance mode operation successful.

Generating Current Snapshot

Please use 'show snapshots compare before\_maintenance after\_maintenance' to check the health of the system

This example shows how to exit the maintenance mode and return to normal mode on a switch running the Cisco NX-OS Release 8.0(1):

switch# configure terminal switch(config) # no system mode maintenance Following configuration will be applied: router isis 100 no isolate router ospf 100 no isolate router bgp 100 no isolate Do you want to continue (y/n)? [no] y Starting to apply commands... Applying : router isis 100 Applying : no isolate Applying : router ospf 100 Applying : no isolate Applying : router bgp 100 Applying : no isolate

Maintenance mode operation successful.

The after\_maintenance snapshot will be generated in 120 seconds

After that time, please use 'show snapshots compare before\_maintenance after\_maintenance' to check the health of the system switch(config)# 2016 Dec 5 06:20:23 switch %\$ VDC-1 %\$ %MMODE-2-MODE\_CHANGED: System changed to"normal" mode.

#### **Related Commands**

Command	Description	
configure maintenance profile	Enters a maintenance profile configuration session to create a custom maintenance mode profile or a custom normal mode profile.	
show system mode	Displays the current system mode and the current state of the maintenance mode timer when the switch is in maintenance mode.	
system mode maintenance always-use- custom-profile	Applies the existing custom maintenance mode profile and prevents creation of auto-generated maintenance mode profile.	
system mode maintenance on-reload reset-reason	Boots the switch into maintenance mode automatically in the event of a specified system crash.	
system mode maintenance shutdown	Shuts down all protocols and interfaces except the management interface (by using the <b>shutdown</b> command and not the default <b>isolate</b> command).	
system mode maintenance timeout	Configures the maintenance window timer to keep the switch in maintenance mode for a specified number of minutes.	

# system mode maintenance always-use-custom-profile

To apply the existing custom maintenance-mode profile and prevent creation of auto-generated maintenance-mode profile, use the **system mode maintenance always-use-custom-profile** command.

#### system mode maintenance always-use-custom-profile

Syntax Description	This command has no arguments or keywords.		
Defaults	None		
Command Modes	Global configuration mode (config)		
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator		
Command History	Release	Modification	
oommunu mistory	7.3(0)D1(1)	This command was introduced.	
Usage Guidelines	The <b>always-use-custom-profile</b> option forces the <b>dont-generate-profile</b> option to be used even if it has not been specified using the <b>system mode maintenance</b> command. You cannot use the "shutdown" option when the <b>always-use-custom-profile</b> option is being used. This command does not require a license.		
Examples	This example shows how to always apply the existing custom maintenance mode profile and prevent creation of auto-generated maintenance mode profile:		
	switch(config)# system	n mode maintenance always-use-custom-profile	
Related Commands	Command	Description	
	-	Enters a maintenance profile configuration session to create a custom	
	profile show run mmode	maintenance mode profile or a custom normal mode profile.	
	Show run minoue	Displays the currently running maintenance profile configuration on a switch.	
	show system mode	Displays the current system mode and the current state of the maintenance mode timer when the switch is in maintenance mode.	

Command	Description		
system mode maintenance on-reload reset-reason	Boots the switch into maintenance mode automatically in the event of a specified system crash.		
system mode maintenance shutdown	Shuts down all protocols and interfaces except the management interface (by using the <b>shutdown</b> command and not the default <b>isolate</b> command).		
system mode maintenance timeout	Configures the maintenance window timer to keep the switch in maintenance mode for a specified number of minutes.		

# system mode maintenance dont-generate-profile

	To prevent the dynamic searching of enabled protocols and put the switch in maintenance mode by executing commands configured in a custom maintenance mode profile, use the <b>system mode maintenance dont-generate-profile</b> command. To exit maintenance mode and return to normal mode use the <b>no</b> form of this command.		
	system mode ma	aintenance dont-generate-profile	
	no system mode	e maintenance dont-generate-profile	
Syntax Description	This command has no	o arguments or keywords.	
Defaults	None		
Command Modes	Global configuration (config)		
SupportedUserRoles	network-admin		
	vdc-admin network-operator vdc-operator		
Command History	Release	Modification	
	7.3(0)D1(1)	This command was introduced.	
Usage Guidelines	This command does	not require a license.	
Examples	_	how to prevent the dynamic searching of enabled protocols and put the switch in y executing commands configured in a custom maintenance mode profile:	
	<pre>switch(config)# system mode maintenance dont-generate-profile</pre>		
	Following configuration will be applied:		
	router bgp 100 isolate sleep instance 1 1 interface Ethernet shutdown		
	Do you want to con	tinue (y/n)? [no] y	
	Generating a snaps	hot before going into maintenance mode	

```
Starting to apply commands...
Applying : router bgp 100
Applying : isolate
Applying : sleep instance 1 10
Applying : interface Ethernet1/1
Applying : shutdown
```

Maintenance mode operation successful.

# Related Commands Command

Command	Description	
configure maintenance profile	e Enters a maintenance profile configuration session to create a custom maintenance mode profile or a custom normal mode profile.	
show run mmode	Displays the currently running maintenance profile configuration on a switch.	
show system mode	Displays the current system mode and the current state of the maintenance mode timer when the switch is in maintenance mode.	
system mode maintenance on-reload reset-reason	Boots the switch into maintenance mode automatically in the event of a specified system crash.	
system mode maintenance shutdown	Shuts down all protocols and interfaces except the management interface (by using the <b>shutdown</b> command and not the default <b>isolate</b> command).	
system mode maintenance timeout	Configures the maintenance window timer to keep the switch in maintenance mode for a specified number of minutes.	

# system mode maintenance non-interactive

	To put the switch in maintenance mode without presenting any switch prompts, use the <b>system mode maintenance non-interactive</b> command. To return to normal mode from maintenance mode without presenting any switch prompts, use the <b>no</b> form of this command.		
	system mode maintenance non-interactive		
	no system mode maintenance non-interactive		
Syntax Description	This command has no arguments or keywords.		
Defaults	None		
Command Modes	Global configuration (config)		
SupportedUserRoles	network-admin vdc-admin network-operator vdc-operator		
Command History	Release Modification		
-	8.0(1) This command was introduced.		
Usage Guidelines	This command does not require a license.		
Examples	This example shows how to put the switch in maintenance mode without presenting any switch prompts:		
	<pre>switch(config)# system mode maintenance non-interactive System mode switch to maintenance mode started. Will continue in background. switch(config)# 2016 Dec 5 08:46:42 switch %\$ VDC-1 %\$ %MMODE-2- MODE_CHANGED: System changed to "maintenance" mode. switch(maint-mode)(config)#</pre>		
	This example shows how to put the switch in normal mode from maintenance mode without presenting any switch prompts:		
	<pre>switch(config)# no system mode maintenance non-interactive System mode switch to normal mode started. Will continue in background. switch(maint-mode)(config)# 2016 Dec 5 08:48:01 switch %\$ VDC-1 %\$ % MMODE-2-MODE_CHANGED: System changed to "normal" mode. switch(config)#</pre>		

Related	Commands
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Command Description		
configure maintenance profile	<b>nce</b> Enters a maintenance profile configuration session to create a custom maintenance mode profile or a custom normal mode profile.	
show run mmode	Displays the currently running maintenance profile configuration on a switch.	
show system mode	Displays the current system mode and the current state of the maintenan mode timer when the switch is in maintenance mode.	

# system mode maintenance on-reload reset-reason

To boot the switch into maintenance-mode automatically in the event of a specified system crash, use the **system mode maintenance on-reload reset-reason** command. To prevent the switch from being brought up in maintenance mode in the event of a system crash, use the **no** form of this command.

system mode maintenance on-reload reset-reason reason

no system mode maintenance on-reload reset-reason reason

### Syntax Description

Syntax Description		
	reason	Specifies the reset reason. The reset reasons are as follows:
		HW_ERROR—Hardware error
		SVC_FAILURE—Critical service failure
		KERN_FAILURE—Kernel panic
		WDOG_TIMEOUT—Watchdog timeout
		• FATAL_ERROR—Fatal error
		MANUAL_RELOADManual reload
		• MAINTENANCE—Reloads the switch in maintenance mode if the switch was already in maintenance mode before reload.
		• MATCH_ANY—Any of the above reasons
		ANY_OTHER—Any reload reason not specified above
Defaults	None	
Command Modes	Global configuration (	config)
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release	Modification
	7.3(0)D1(1)	This command was introduced.
Usage Guidelines	We recommend config	uring the reset reason and saving it to the startup configuration. This enables the naintenance mode after a switch reloads due to any reason. ot require a license.

### Examples

This example shows how to automatically boot the switch into maintenance mode if a fatal error or a hardware error occurs

switch(config)# system mode maintenance on-reload reset-reason fatal\_error switch(config)# system mode maintenance on-reload reset-reason hw\_error

Related Commands	Command	Description
	configure maintenance profile	Enters a maintenance profile configuration session to create a custom maintenance mode profile or a custom normal mode profile.
	show run mmode	Displays the currently running maintenance profile configuration on a switch.
	show system mode	Displays the current system mode and the current state of the maintenance mode timer when the switch is in maintenance mode.
	system mode maintenance shutdown	Shuts down all protocols and interfaces except the management interface (by using the <b>shutdown</b> command and not the default <b>isolate</b> command).
	system mode maintenance timeout	Configures the maintenance window timer to keep the switch in maintenance mode for a specified number of minutes.

# system mode maintenance shutdown

To shut down all protocols and interfaces except the management interface (by using the **shutdown** command and not the default **isolate** command), use the **system mode maintenance shutdown** command.

#### system mode maintenance shutdown

Syntax Description	This command has no arguments or keywords.		
Defaults	None		
Command Modes	Global configuration (config)		
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator		
Command History	Release	Modification	
ooninnana mistory	7.3(0)D1(1)	This command was introduced.	
Usage Guidelines Examples	This command does not a This example shows how interface:	require a license. to shut down all protocol and interfaces on the switch except the management	
	INTERTACE: switch# configure terminal switch(config)# system mode maintenance shutdown		
	Following configuratio	n will be applied:	
	router bgp 100 shutdown router ospf 100 shutdown router isis 100 shutdown system interface shutd		
	Do you want to continu	e (y/n)? [no] y	
	Generating a snapshot	before going into maintenance mode	
	Starting to apply comm	ands	

```
Applying : router bgp 100
Applying : shutdown
Applying : router ospf 100
Applying : shutdown
Applying : router isis 100
Applying : shutdown
Applying : system interface shutdown
```

Maintenance mode operation successful.

Related Commands	Command	Description
	configure maintenance profile	Enters a maintenance profile configuration session to create a custom maintenance mode profile or a custom normal mode profile.
	show run mmode	Displays the currently running maintenance profile configuration on a switch.
	show system mode	Displays the current system mode and the current state of the maintenance mode timer when the switch is in maintenance mode.
	system mode maintenance on-reload reset-reason	Boots the switch into maintenance mode automatically in the event of a specified system crash.
	system mode maintenance timeout	Configures the maintenance window timer to keep the switch in maintenance mode for a specified number of minutes.

### system mode maintenance snapshot-delay

To change the snapshot-delay timer value, use the **system mode maintenance snapshot-delay** command. To remove the configured timer value, use the **no** form of this command.

system mode maintenance snapshot-delay delay-in-seconds

no system mode maintenance snapshot-delay delay-in-seconds

### **Syntax Description** delay-in-seconds Snapshot-delay timer value, in seconds. The range is from 0 to 65535. Defaults The default snapshot-delay timer value is 120 seconds. **Command Modes** Global configuration (config) **SupportedUserRoles** network-admin network-operator vdc-admin vdc-operator **Command History** Modification Release 8.0(1) This command was introduced. Usage Guidelines The **[no]** system mode maintenance command has been enhanced from the previous release to execute a normal mode profile and activate a timer ensuring that sufficient time is provided for the switch to complete any hardware programming that may be going on before the after maintenance snapshot is taken. Once the timer expires, the after\_maintenance snapshot is taken in the background and a new warning syslog message, MODE\_SNAPSHOT\_DONE, is sent after the snapshot is complete. Use the system mode maintenance snapshot-delay *delay-in-seconds* command to change the snapshot-delay timer value. This command does not require a license. Examples This example shows how to change the snapshot-delay timer value: switch(config)# system mode maintenance snapshot-delay 5000 The after\_maintenance snapshot delay has been set to 5000 seconds. This example shows how to remove the configured snapshot-delay timer value: switch(config)# no system mode maintenance snapshot-delay 5000 Using default after\_maintenance snapshot delay of 120 seconds.

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Related	Commands
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Command	Description
configure maintenance profile	Enters a maintenance profile configuration session to create a custom maintenance mode profile or a custom normal mode profile.
show run mmode	Displays the currently running maintenance profile configuration on a switch.
show system mode	Displays the current system mode and the current state of the maintenance mode timer when the switch is in maintenance mode.

## system mode maintenance timeout

To configure the maintenance window timer to keep the switch in maintenance mode for a specified number of minutes, use the **system mode maintenance timeout** command. To remove the configured timer, use the **no** form of this command.

system mode maintenance timeout value

no system mode maintenance timeout value

value	Specifies the number of minutes for which the switch will be in maintenance mode. Range is from 5 to 65535 minutes.
None	
Global configuration	on (config)
network-admin network-operator vdc-admin vdc-operator	
Release 7.3(0)D1(1)	Modification This command was introduced.
switch returns to n	tting the timeout value to at least 30 minutes. Once the configured time elapses, the ormal mode automatically.
This example show	vs how to keep the switch in maintenance mode for a specific number of minutes:
	None Global configuration network-admin network-operator vdc-admin vdc-operator <b>Release</b> 7.3(0)D1(1) We recommend set switch returns to n This command doe

**Related Commands** 

Command	<b>Description</b> Enters a maintenance profile configuration session to create a custom maintenance mode profile or a custom normal mode profile.	
configure maintenance profile		
<b>show run mmode</b> Displays the currently running maintenance profile configure switch.		
show system mode	Displays the current system mode and the current state of the maintenance mode timer when the switch is in maintenance mode.	
system modeBoots the switch into maintenance mode automatically in themaintenancespecified system crash.on-reload reset-reason		

# system no hap-reset

To disable the Supervisor Reset high availability (HA) policy, use the system no hap-reset command.

	system no hap-re	set
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	<b>Release</b> 4.0(1)	Modification This command was introduced.
Usage Guidelines	This command does no	ot require a license.
Examples	This example shows h switch(config)# <b>syst</b> switch(config)#	ow to disable the Supervisor Reset HA policy: tem no hap-reset
Related Commands	Command	Description
	system hap-reset	Enables the Supervisor Reset HA policy.

# 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	<b>Release</b> 4.0(1)	Modification This command was introduced.
Usage Guidelines	This command does not	require a license.
Examples	This example shows how switch(config)# syste switch(config)#	w to disable the heartbeat checks (default) and revert to the factory default: m no heartbeat
Related Commands	Command	Description
	system heartbeat	Enables the heartbeat checks (default) and reverts to the factory default.

## 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 ar	guments 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:
	<pre>switch(config)# system system standby manual- switch(config)#</pre>	<b>n no standby manual-boot</b> -boot option disabled
Related Commands	Command	Description
	show system standby manual-boot	Displays the status of the system standby manual boot option.

## 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	<b>Release</b> 4.0(1)	Modification This command was introduced.
Usage Guidelines	This command does not	require a license.
Examples	This example shows how	v to disable the watchdog feature:
	<pre>switch(config)# system switch(config)#</pre>	m no watchdog
Related Commands	Command	Description
	system no watchdog kgdb	Prevents the system from entering the Linux KGDB debugger on a watchdog failure.

## 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:	
	<pre>switch(config)# system switch(config)#</pre>	n no watchdog kgdb
Related Commands	Command	Description
	system no watchdog	Disables the watchdog feature.

# 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	t require a license.
Examples	This example shows ho	w to shrink PSS files on the system:
	<pre>switch(config)# syste pss shrink completed switch(config)</pre>	em pss shrink
Related Commands	Command	Description
	show system pss shrink status	Displays the last PSS shrink status.

# system scale-limit monitor

To enable scale limit monitoring on a switch, use the **system scale-limit monitor** command. To disable scale limit monitoring, use the **no** form of this command

system scale-limit monitor time-in-minutes

no system scale-limit monitor

<i>time-in-minutes</i> Specifies the interval (in minutes) at which the scale limits are monitored. The range is from 5 minutes to 43200 minutes (30 days).
Scale-limit monitoring is disabled.
Global configuration mode
network-admin vdc-admin network-operator vdc-operator
ReleaseModification7.2(1)D1(1)This command was introduced.
<ul> <li>You can use the system scale-limit monitor command to monitor the following 16 scale parameters:</li> <li>FEX server interfaces</li> <li>F1 HW entries</li> <li>Virtual Port Channels (vPCs)</li> <li>Fabric Extenders (FEXs)</li> <li>Edge ports</li> <li>Port channels</li> <li>Intermediate System-to-Intermediate System (IS-IS) adjacencies</li> <li>Bidirectional Forwarding Detection (BFD) sessions</li> <li>L2-mroutes</li> <li>M2 HW entries</li> </ul>

	<ul> <li>FabricPath Switch ID</li> <li>VLANs</li> <li>FabricPath Topologies</li> <li>F2/F2e HW entries</li> </ul>	-
	This command does not re	equire a license.
Examples	-	to enable scale limit monitoring on a switch: a scale-limit monitor 40
Related Commands	Command	Description
	show system internal scale-parameters	Displays the scale parameters.

## 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	v to display the standby manual-boot status:
	<pre>switch(config)# system system standby manual- switch(config)#</pre>	
Related Commands	Command	Description
	system startup-config init	Initializes the startup configuration.

## 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 an	rguments 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	w to initialize the startup configuration:
		<b>m startup-config init</b> is going to re-initialize the contents of the startup-conf ue? (y/n) [y]
Related Commands	Command	Description
	system startup-config	Releases the system startup-configuration lock.

unlock

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

## 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	version-number	Software version nu	mber currently running on t	he system.	
	target-ver	Specifies the target	version of the software.		
	target-number	Target version.			
	swid	Specifies the softwa	re ID of the image running of	on a module: system	n or kickstart.
	id	Software ID.			
	impact	Specifies the impact	: 0 for hitless and 1 for hitfu	ul.	
	impact-number	Impact number.			
Defaults	None				
Command Modes	Any command m	node			
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	r			
	vae operator				
Command History	Release	Modification	1		
Command History			n and was introduced.		
	<b>Release</b> 4.0(1)		nd was introduced.		
Usage Guidelines	Release 4.0(1) This command d	This comma oes not require a licer	nd was introduced.	ore an upgrade:	
Command History Usage Guidelines Examples	Release         4.0(1)         This command d         This example sha         switch(config)#         switch(2.1 impact	This comma oes not require a licer ows how to test the ru	and was introduced.		date
Usage Guidelines	Release         4.0(1)         This command d         Switch(config)#         switch(config)#         switch(2.1 impact         System will be	This comma oes not require a licer ows how to test the ru	nd was introduced. nse. nning software version befo grade running-ver 4.2<0.2	202> target-ver Up	date Upg-Required
Usage Guidelines	Release         4.0(1)         This command d         Switch(config)#         switch(config)#         System will be         Module       S         6       4.	This comma oes not require a licer ows how to test the ru system test-preup act 0 upgraded according	nnd was introduced. nse. nning software version beforgrade running-ver 4.2<0.2 to following table:	202> target-ver Up	
Usage Guidelines	Release         4.0(1)         This command d         Switch(config)#         switch(config)#         System will be         Module       S         6       4.         1	This comma oes not require a licer ows how to test the ru system test-preup act 0 upgraded according Swid Impact 2.1 hitless	nning software version befor grade running-ver 4.2<0.2 to following table: Running-Version 4.2<0.202>	202> target-ver Up New-Version Update	
Usage Guidelines	Release         4.0(1)         This command d         This example shows         switch(config) #         swid 4.2.1 impersive         System will be         Module       Second         6       4         1       9         9       4         1       1	This comma oes not require a licer ows how to test the ru system test-preup act 0 upgraded according Swid Impact	nnd was introduced. nse. nning software version befor grade running-ver 4.2<0.2 to following table: Running-Version	202> target-ver Up New-Version	

1 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.	

# 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	ReleaseModification4.0(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	CommandDescriptionshow system redundancyDisplays the system redundancy	y status

### 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*]

<i>bit-mask</i> Bit n	nask to use to change the trace level of the system.
None	
Global configuration n	node (config)
network-admin vdc-admin	
Release	Modification
4.0(1)	This command was introduced.
This command does no	ot require a license.
This example shows ho	ow to configure a system trace level:
<pre>switch(config)# syst switch(config)#</pre>	em trace
This example shows ho	ow to remove the system trace level configuration:
<pre>switch(config)# syst switch(config)#</pre>	em no trace
Command	Description
show cores	Displays the system core files.
	None Global configuration n network-admin vdc-admin Release 4.0(1) This command does no Switch(config) # syst switch(config) # switch(config) # switch(config) # switch(config) # switch(config) # switch(config) # switch(config) # switch(config) #

## system watchdog

To enable watchdog checks, use the system watchdog command.

#### system watchdog

Syntax Description	This command has no an	rguments or keywords.
Defaults	None	
Command Modes	Any command mode	
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	<b>Release</b> 4.0(1)	Modification This command was introduced.
Usage Guidelines	This command does not	require a license.
Examples	This example shows how to enable watchdog checks: <pre>switch(config)# system watchdog switch(config)#</pre>	
Related Commands	Command	Description
	system no watchdog	Disables the watchdog feature.
	system no watchdog	Prevents the system from entering the Linux KGDB debugger on a

watchdog failure.

kgdb

## 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

This command has no arguments or keywords.		
None		
Any command mode		
network-admin network-operator vdc-admin vdc-operator		
Release	Modification	
4.0(1)	This command was introduced.	
This command does not	require a license.	
This example shows how to configure the system to enter the Linux KGDB debugger on a watchdog failure:		
<pre>switch(config)# system watchdog kgdb switch(config)#</pre>		
Command	Description	
system watchdog	Enables the watchdog feature.	
system no watchdog	Disables the watchdog feature.	
	None Any command mode network-admin network-operator vdc-admin vdc-operator           Release         4.0(1)         This command does not         This example shows how failure: switch(config)# system switch(config)#         System watchdog	

