

Cisco Nexus 7000 Series NX-OS High Availability Command Reference

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Preface

This preface describes the audience, organization, and conventions of the *Cisco Nexus 7000 Series NX-OS High Availability Command Reference*. It also provides information on how to obtain related documentation.

This chapter includes the following sections:

- Audience, page 1
- Organization, page 1
- Document Conventions, page 1
- Documentation Feedback, page 4
- Communications, Services, and Additional Information, page 4

Audience

This publication is for experienced users who configure and maintain Cisco NX-OS devices.

Organization

This reference is organized as follows:

Chapter and Title	Description
Cisco Nexus 7000 Series NX-OS High Availability Commands	Describes the Cisco NX-OS high availability commands.

Document Conventions

Command descriptions use these conventions:

Convention	Description	
boldface font	Commands and keywords are in boldface.	
<i>italic font</i> Arguments for which you supply values are in italics.		

[]	Elements in square brackets are optional.	
[x y z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.	
-	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.	

Screen examples use these conventions:

screen font	Terminal sessions and information that the switch displays are in screen font.	
boldface screen Information you must enter is in boldface screen font.		
italic screen font	Arguments for which you supply values are in italic screen font.	
< >	Nonprinting characters, such as passwords, are in angle brackets.	
[]	Default responses to system prompts are in square brackets.	
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.	

This document uses the following conventions:

6 Note

Means reader *take note*. Notes contain helpful suggestions or references to material not covered in the manual.

Caution

Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

<u>P</u> Tip

Means the following information will help you solve a problem.

Related Documentation

Cisco NX-OS includes the following documents:

Release Notes

Cisco Nexus 7000 Series NX-OS Release Notes, Release 5.x

NX-OS Configuration Guides

Cisco Nexus 2000 Series Fabric Extender Software Configuration Guide Cisco Nexus 7000 Series NX-OS Configuration Examples Cisco Nexus 7000 Series NX-OS FabricPath Configuration Guide Configuring Feature Set for FabricPath Cisco Nexus 7000 Series NX-OS Fundamentals Configuration Guide

Cisco Nexus 7000 Series NX-OS High Availability and Redundancy Guide Cisco Nexus 7000 Series NX-OS Interfaces Configuration Guide Cisco Nexus 7000 Series NX-OS IP SLAs Configuration Guide Cisco Nexus 7000 Series NX-OS Layer 2 Switching Configuration Guide Cisco Nexus 7000 Series NX-OS LISP Configuration Guide Cisco Nexus 7000 Series NX-OS MPLS Configuration Guide Cisco Nexus 7000 Series NX-OS Multicast Routing Configuration Guide Cisco Nexus 7000 Series NX-OS OTV Configuration Guide Cisco Nexus 7000 Series OTV Quick Start Guide Cisco Nexus 7000 Series NX-OS Quality of Service Configuration Guide Cisco Nexus 7000 Series NX-OS SAN Switching Configuration Guide Cisco Nexus 7000 Series NX-OS Security Configuration Guide Cisco Nexus 7000 Series NX-OS System Management Configuration Guide Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide Cisco Nexus 7000 Series NX-OS Virtual Device Context Configuration Guide Cisco Nexus 7000 Series NX-OS Virtual Device Context Quick Start Cisco NX-OS FCoE Configuration Guide for Cisco Nexus 7000 and Cisco MDS 9500

NX-OS Command References

Cisco Nexus 7000 Series NX-OS Command Reference Master Index Cisco Nexus 7000 Series NX-OS FabricPath Command Reference Cisco Nexus 7000 Series NX-OS Fundamentals Command Reference Cisco Nexus 7000 Series NX-OS High Availability Command Reference Cisco Nexus 7000 Series NX-OS Interfaces Command Reference Cisco Nexus 7000 Series NX-OS IP SLAs Command Reference Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command Reference Cisco Nexus 7000 Series NX-OS LISP Command Reference Cisco Nexus 7000 Series NX-OS MPLS Command Reference Cisco Nexus 7000 Series NX-OS Multicast Routing Command Reference Cisco Nexus 7000 Series NX-OS OTV Command Reference Cisco Nexus 7000 Series NX-OS Quality of Service Command Reference Cisco Nexus 7000 Series NX-OS SAN Switching Command Reference Cisco Nexus 7000 Series NX-OS Security Command Reference Cisco Nexus 7000 Series NX-OS System Management Command Reference Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference Cisco Nexus 7000 Series NX-OS Virtual Device Context Command Reference Cisco NX-OS FCoE Command Reference for Cisco Nexus 7000 and Cisco MDS 9500

Other Software Documents

Cisco NX-OS Licensing Guide Cisco Nexus 7000 Series NX-OS MIB Quick Reference Cisco Nexus 7000 Series NX-OS Software Upgrade and Downgrade Guide Cisco NX-OS System Messages Reference Cisco Nexus 7000 Series NX-OS Troubleshooting Guide Cisco NX-OS XML Interface User Guide

Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to nexus7k-docfeedback@cisco.com. We appreciate your feedback.

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- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit Cisco Marketplace.
- To obtain general networking, training, and certification titles, visit Cisco Press.
- To find warranty information for a specific product or product family, access Cisco Warranty Finder.

Cisco Bug Search Tool

Cisco Bug Search Tool (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.



New and Changed Information

This document provides release-specific information for each new and changed feature in *Cisco Nexus* 7000 Series NX-OS High Availability Command Reference. The latest version of this document is available at the following Cisco website:

http://www.cisco.com/c/en/us/support/switches/nexus-7000-series-switches/products-command-refere nce-list.html

To check for additional information about this Cisco NX-OS Release, see the Cisco NX-OS Release Notes available at the following Cisco website:

http://www.cisco.com/c/en/us/support/switches/nexus-7000-series-switches/products-release-notes-list .html

Table 1-1 summarizes the new and changed features as described in the *Cisco Nexus* 7000 Series NX-OS High Availability Command Reference.

Feature	Description	Changed in Release	Where Documented
There are no changes since Release 4.2(1).			

Table 1-1New and Changed Information



Cisco Nexus 7000 Series NX-OS High Availability Commands

Cisco NX-OS is a resilient operating system that is specifically designed for high availability at the network, system, and process level. For more information about high availability (HA) concepts and features for Cisco NX-OS devices, see the *Cisco Nexus 7000 Series NX-OS High Availability and Redundancy Guide*.

This chapter describes the Cisco Nexus 7000 Series NX-OS high availability commands.

clear bootvar log

To delete the boot variable log, use the **clear bootvar log** command.

clear bootvar log

Syntax Description	This command has no arguments or keywords.	
Defaults	None	
Command Modes	Any command mode	
SupportedUserRoles	network-admin	
Command History	Release 4.0(1)	Modification This command was introduced.
Usage Guidelines	This command does not	require a license.
Examples	This example shows how to delete the boot variable log: switch# clear bootvar log switch#	
Related Commands	Command	Description
	show boot	Displays all configured boot variables.
	show boot variable	Displays the boot variable names.

clear cores

To delete core dump files of a virtual device context (VDC) from the logflash, use the **clear cores** command.

clear cores archive file *file-name*

Syntax Description	archive	Specifies all core dump files for a VDC from the logflash on the module.
	file file-name	Specifies the file on the logflash that needs to be deleted.
Defaults	None	
Command Modes	Any command r	node
SupportedUseiRoles	network-admin	
Command History	Release	Modification
·	4.0(1)	This command was introduced.
Usage Guidelines	This command o	does not require a license.
		does not require a license. nows how to delete core dump files of a VDC from the logflash:
	This example sh	nows how to delete core dump files of a VDC from the logflash: # clear cores archive
Usage Guidelines Examples Related Commands	This example sh switch(config)	nows how to delete core dump files of a VDC from the logflash: # clear cores archive

clear xbar-driver

To delete the crossbar-related information, use the **clear x-bar driver** command.

clear xbar-driver [xbar xbar-number | local xbar counter]

Syntax Description	xbar (C <i>xbar-number</i>	Optional) Specifies the crossbar number. The range is from 1 to 5.
		Optional) Specifies the crossbar slot number. The range is from 1 to 4.
Defaults	None	
Command Modes	Any command mod	e
upportedUserRoles	network-admin	
Command History	Release 4.0(1)	Modification This command was introduced.
Jsage Guidelines	This command does	s not require a license.
Examples	This example shows how to delete the crossbar-related information:	
	switch#	r-driver xbar 2 inst 1 counters port_num 1 all
Related Commands	Command	Description
	show module fabr	ic Displays information about the module fabric.
	show hardware fabric-utilization	Displays information about the hardware fabric utilization.

hardware fabric crc

To enable internal CRC detection and isolation functionality, use the **hardware fabric crc** command in configuration mode. To disable this functionality, use the **no** form of the command.

hardware fabric crc [threshold threshold-count]

no hardware fabric crc

show hardware

fabric-utilization

Syntax Description	<i>threshold-count</i> Specifies the threshold count, taken over a 24-hour period, consecutively. The range is 1 to 100.		
Defaults	3, over a 24-hour period	1	
Command Modes	Configuration mode		
Command History	Release	Modification	
•	8.4(1)	This command was introduced.	
Usage Guidelines	None		
Examples	switch# config termin	shows how to enable internal CRC error detection and isolation: nal ware fabric crc threshold 100	
	The following example switch# config termin switch(config)# no ha		
Related Commands	Command	Description	
	show module fabric	Displays information about the module fabric.	

Displays information about the hardware fabric utilization.

out-of-service

To power off a supervisor module in the Cisco NX-OS software, use the **out-of-service** command.

out-of-service module *module-number*

Syntax Description	module	Specifies an I/O module.
, I	module-number	Module number. The range is from 1 to 18.
Defaults	None	
Command Modes	Global configuration	mode
SupportedJseiRoles	network-admin vdc-admin	
Command History	Release	Modification
Command History	5.2(1)	Removed the xbar keyword.
	4.0(1)	This command was introduced.
Usage Guidelines	This command is not supported on line card modules. For line card modules, use the poweroff command.	
	You can use the out-of-service command only in the default virtual device context (VDC). Use this command to safely remove a module from service in the software. Before bringing a m back into service, you must remove the physical hardware module from the chassis and reinsert	
	This command does n	tot require a license.
Examples	This example shows h	now to take a supervisor module out of service:
	<pre>switch# configure terminal switch(config)# out-of-service module 3</pre>	
Related Commands	Command	Description
	poweroff	Shuts down a supervisor of a line card module in the Cisco NX-OS software.
	reload module	Reloads a module in a device.

poweroff

To power off a supervisor of a line card module in the Cisco NX-OS software, use the **poweroff** command.

poweroff {module module-number | xbar xbar-number}

Syntax Description	module module-number	Specifies an I/O module. The range is from 1 to 18.
	xbar <i>xbar-number</i>	Specifies a fabric module. The range is from 1 to 15.
Defaults	None	
Command Modes	Global configuration mo	de
SupportedUseiRoles	network-admin	
	vdc-admin	
Command History	Release	Modification
	5.2(1)	This command was introduced.
Usage Guidelines	This command does not	require a license
Usage Guluelines		equite a needse.
Examples	This example shows how	to take a supervisor module out of service:
Laumpres	switch# configure term	-
	switch(config)# powerc	
Related Commands	Command	Description
	out-of-service	Shuts down a supervisor module in the Cisco NX-OS software.
	reload module	Reloads a module in a device.

power redundancy-mode

To configure the power supply redundancy mode, use the **power redundancy-mode** command. To disable the power redundancy mode, use the **no** form of this command.

power redundancy-mode {combined | insrc-redundant | ps-redundant | redundant }

no power redundancy-mode {combined | insrc-redundant | ps-redundant | redundant}

Syntax Description	combined	Specifies the combined power supply mode.
r I	insrc-redundant	Specifies the input source redundancy mode.
	ps-redundant	Specifies the power support redundancy mode.
	redundant	Specifies the full redundancy mode.
Defaults	ps-redundant	
Command Modes	Global configuration	
SupportedUseiRoles	network-admin	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	-	redundancy-mode command only in the default virtual device context (VDC).
	Combined mode	This mode does not provide power redundancy. The available power for this ower capacity of all power supplies.
	• Power supply redundancy mode—This mode provides an extra power supply in case an active pow supply goes down. With this mode, the power supply that can supply the most power operates in the standby mode. The other one or two power supplies are active. The available power is the amour of power provided by the active power supply units.	
	module within eac draw power throug	dancy mode—This mode uses two electrical grids, each one powering a half h power supply. If one power grid goes down, each power supply continues to h its other half module. The available power is the amount of power by the lesser rough the power supplies.
	redundancy, which supply is connected	ode—This mode combines power supply redundancy and input source means that the chassis has an extra power supply and each half of each power d to one electrical grid while the other half of each power supply is connected to grid. The available power is the lesser of the available power for power supply urce mode.

show environment

This command does not require a license.

Examples	This example shows how to configure the power supply redundancy mode:
	<pre>switch# configure t switch(config)# power redundancy-mode redundant</pre>
	This example shows how to disable the power supply redundancy mode:
	<pre>switch# configure t switch(config)# no power redundancy-mode redundant</pre>
Related Commands	Command Description

Displays information about the device hardware environment.

reload module

To reload a module in the device, use the **reload module** command.

reload module *slot* [force-dnld]

Syntax Description	slot	Chassis slot number. The slot range depends on the system.
	force-dnld	(Optional) Forces the download of software to the module.
Defaults	None	
ommand Modes	Any command mode	,
upportedUserRoles	network-admin	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines		ad module command only in the default virtual device context (VDC).
		on about the hardware on your device, use the show hardware command. not require a license.
Examples	This example shows	how to reload a module:
	switch# reload mod	lule 2
Related Commands	Command	Description

show boot

To display the boot variables in the startup configuration, use the **show boot** command.

show 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	
	4.2	This command was introduced.	
Usage Guidelines	This command does no	ot require a license.	
Examples	This example shows he	ow to display the boot variables in the startup configuration:	
	switch# show boot Current Boot Variabl	es:	
	<pre>sup-1 kickstart variable = bootflash:/n7000-s1-kickstart.4.1.5.gbin.S1 system variable = bootflash:/n7000-s1-dk9.4.1.5.gbin.S1 sup-2 kickstart variable = bootflash:/n7000-s1-kickstart.4.1.5.gbin.S1 system variable = bootflash:/n7000-s1-dk9.4.1.5.gbin.S1 No module boot variable set Boot Variables on next reload: </pre>		
	system variable = bo sup-2 kickstart variable =	<pre>bootflash:/n7000-s1-kickstart.4.1.5.gbin.S1 botflash:/n7000-s1-dk9.4.1.5.gbin.S1 bootflash:/n7000-s1-kickstart.4.1.5.gbin.S1 botflash:/n7000-s1-dk9.4.1.5.gbin.S1 ble set</pre>	

Related Commands	Command	Description
	boot kickstart	Configures the boot variable for the Cisco NX-OS software kickstart image.
	boot system	Configures the boot variable for the Cisco NX-OS software system image.

system cores

show cores

To display the system core dump files, use the **show cores** command.

show cores {vdc | vdc-all}

Syntax Description	vdc	Specifies all cor	e dumps for a virtu	al device c	ontext (VDC).
	vdc-all	Specifies core d	umps for all VDCs		
Command Modes	Any command mode				
SupportedUseiRoles	network-admin				
Command History	Release	Modification			
	4.0(1)	This command w	was introduced.		
Usage Guidelines	This command does no	t require a license.			
Examples	This example shows ho	ow to display the rec	cent system core du	mp file:	
	switch# show cores v VDC No Module-num	dc Instance-num	Process-name	PID	Core-create-time
	1 5	1	cdp	 16718	May 21 15:36
		1	cdp		
Related Commands	1 5	1 Description	cdp		

Configures the system core filename.

show system cores

To display the core filename, use the **show system cores** command.

show system cores

Syntax Description	This command has no a	arguments or keywords.
Defaults	None	
Command Modes	Any command mode	
SupportedUseiRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release 4.0(1)	Modification This command was introduced.
Usage Guidelines	To configure the system This command does no	n core filename, use the show system cores command. t require a license.
Examples	This example shows ho switch# show system Cores are transferred switch#	
Related Commands	Command	Description
	system cores	Configures the system core filename.

show system redundancy

To display the system redundancy status, use the show system redundancy command.

show system redundancy [ha] status

```
Syntax Description
                   ha
                                         (Optional) Displays the virtual device context (VDC) redundancy (high
                                         availability) status.
                  None
Defaults
Command Modes
                   Any command mode
SupportedUserRoles
                  network-admin
                   network-operator
                   vdc-admin
                   vdc-operator
Command History
                   Release
                                      Modification
                   4.0(1)
                                      This command was introduced.
Usage Guidelines
                  This command does not require a license.
Examples
                   This example shows how to display the system redundancy status:
                   switch# show system redundancy status
                  Redundancy mode
                    -----
                        administrative:
                                          HA
                           operational:
                                         None
                  This supervisor (sup-1)
                   Redundancy state: Active
                      Supervisor state: Active
                        Internal state: Active with no standby
                  Other supervisor (sup-2)
                      Redundancy state: Not present
                   switch#
```

This example shows how to display the VDC redundancy status: switch# show system redundancy ha status VDC No This supervisor Other supervisor -------------vdc 1 Active with no standby N/A vdc 2 Active with no standby N/A vdc 3 Active with no standby N/Avdc 4 N/A N/A

vac 4 switch#	N/A	N/A

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

Cisco Nexus 7000 Series NX-OS High Availability Command Reference

show system standby manual-boot

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

show 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 4.0(1)	Modification This command was introduced.
Usage Guidelines	This command does no	ot require a license.
Examples	switch(config)# show	ow to display the status of the system standby manual boot feature: w system standby manual-boot al-boot option is disabled
Related Commands	Command	Description

system cores

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

system cores {slot1:[path] | tftp:/server//[path/]}filename

no system cores {**slot1**:[*path*] | **tftp**:/*server*//[*path*/]}*filename*

Syntax Description	slot1	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 of the core file. The name is alphanumeric, case sensitive, and has a maximum of 32 characters.
Defaults	None	
Command Modes	Any command mode	
SupportedUseiRoles	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 configure the destination for the system core:
	<pre>switch# config t switch(config)# syste switch(config)#</pre>	em cores slot1:core_file
	This example shows ho	w to disable system core logging:
	switch(config)# no sy	

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

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 ar	guments or keywords.
Defaults	None	
Command Modes	Any command mode	
SupportedUseiRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	You configure switchove you create the VDC. This command does not	r and high availability (HA) policies for a virtual device context (VDC) when
	This command does not	
Examples	This example shows how	to enable the Supervisor Reset HA policy:
	<pre>switch(config)# system switch(config)#</pre>	a hap-reset
Related Commands	Command	Description
	system no hap-reset	Disables the heartbeat checks and reverts to the factory default.

system heartbeat

To enable heartbeat checks (default) and revert to the factory default, use the **system heartbeat** command. To disable heartbeat checks, use the **no** form of this command.

system heartbeat

system no heartbeat

Syntax Description This command has no arguments or keyword

- 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 d	oes not require a license.
Examples	This example sho switch# system switch#	ows how to enable the heartbeat checks (default) and revert to the factory default: heartbeat
	1	bws how to disable the heartbeat checks:
	switch# system switch#	no heartbeat

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

system no hap-reset

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

system no hap-reset

Syntax Description	This command has no arguments or keywords.		
Defaults	Disabled		
Command Modes	Any command mode		
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator		
Command History	Release	Modification	
Usage Guidelines	4.0(1) You configure switchov	This command was introduced. er and high availability (HA) policies for a VDC when you create the VDC.	
	This command does not	require a license.	
Examples	This example shows how	w to disable the Supervisor Reset HA policy:	
	switch# system no hag switch#	o-reset	
Related Commands	Command	Description	
	system no standby manual-boot	Disables the system standby manual boot.	

system standby manual-boot

To enable the system standby manual boot, use the **system standby manual-boot** command. To disable the system standby manual-boot option, use the **no** form of this command.

system standby manual-boot

system no standby manual-boot

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

- Defaults None
- Command Modes Any command mode
- SupportedUserRoles network-admin network-operator vdc-admin vdc-operator

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

Usage Guidelines This command does not require a license.

Examples This example shows how to enable the system standby manual boot: switch# system standby manual-boot
system standby manual-boot option is enabled
switch#

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

system switchover

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

system switchover

This command has no arguments or keywords.		
None		
Any command mode		
network-admin		
Release	Modification	
4.0(1)	This command was introduced.	
This command does not re	quire a license.	
This example shows how t	o switch over to the standby supervisor:	
switch# system switchov switch#	er	
Command	Description	
	Displays the system redundancy status.	
	None Any command mode network-admin Release 4.0(1) This command does not re This example shows how to switch# system switchov switch# Command	

system watchdog

To enable the watchdog feature, use the **system no watchdog** command. To disable the watchdog feature, use the **no** form of this command.

system watchdog

system no watchdog

Syntax Description	This command ha	as no arguments of	or keywords.
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Defaults None

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- 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 d	loes not require a license.	
Examples	This example sh switch# system switch#	ows how to enable the watchdog feature: watchdog	
	This example sh	ows how to disable the watchdog feature:	
	switch# system switch#	no watchdog	

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

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system watchdog