

StackWise Virtual Commands

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clear diagnostic event-log

To clear the diagnostic event logs for a specific switch module or event type, use the **clear diagnostic event-log** command in privileged EXEC mode.

clear diagnostic event-log [{event-type {error | info | warning} | switch{switch_num module module_num | all [{event-type {error | info | warning}}]}]

Syntax Description	event-type error	Clears the error events.		
	event-type info	Clears the informative events.		
	event-type warning	Clears the warning events.		
	switch num	Clears the events for a specific switch.		
	module num	Clears the events for a specific module.		
	switch all	Clears all the event logs from all the switches.		
Command Modes	Privileged EXEC (#)			
Command History	-			
Examples	This example shows how to clear error event logs: Device# clear diagnostic event-log event-type error			
	This example shows how to clear event logs on switch 1 module 1:			
	Device# clear diagnostic event-log switch 1 module 1			
	This example shows how to clear error event logs on all the switches:			
	Device# clear diagnostic event-log switch all			
Related Commands	Command	Description		
	show diagnostic events	Displays the diagnostic event log.		

stackwise-virtual

To enable Cisco StackWise Virtual on a switch, use the **stackwise-virtual** command in the global configuration mode. To disable Cisco StackWise Virtual, use the **no** form of this command.

stackwise-virtual no stackwise-virtual

Syntax Description	stackwise-virtual		Enables Cisco StackWise Virtual.
Command Default	Disabled.		
Command Modes	Global configuration (conf	ĩg)	
Command History	Release	Modification	
	Cisco IOS XE Everest 16.6.1	This command was introduced.	
Usage Guidelines	After disabling Cisco Stac	kWise Virtual, the switches must be relo	aded to unstack them.
	Example		
	The following example she	ows how to enable Cisco StackWise Virt	ual :
	Device(config)# stackw	ise-virtual	

diagnostic monitor

To configure health-monitoring diagnostic testing, use the **diagnostic monitor** command in global configuration mode. Use the **no** form of this command to disable testing and to return to the default settings.

diagnostic monitor interval switch *number* **module** *number* **test** {*name* | *test-id* | *test-id-range* | **all**} *hh:mm:ss milliseconds day* [**cardindex** *number*]

diagnostic monitor switch *number* **module** *number* **test** {*name* | *test-id* | *test-id-range* | **all**} [cardindex *number*]

diagnostic monitor threshold switch *number* **module** *number* **test** {*name* | *test-id* | *test-id-range* | all} **failure count** *count* [**days** *number* | **hours** *number* | **milliseconds** *number* | **minutes** *number* | **runs** *number* | **seconds** *number*] **cardindex** *number*

no diagnostic monitor interval switch *number* **module** *number* **test** {*name* | *test-id* | *test-id-range* | **all**} [cardindex *number*]

no diagnostic monitor switch *number* **module** *number* **test** {*name* | *test-id* | *test-id-range* | **all**} [**cardindex** *number*]

no diagnostic monitor threshold switch *number* **module** *number* **test** {*name* | *test-id* | *test-id-range* | **all**} { **failure count** [[*count* [**days** *number* | **hours** *number* | **milliseconds** *number* | **minutes** *number* | **runs** *number* | **seconds** *number*] | **cardindex** *number*] | **cardindex** *number*] }

Syntax Description	interval	Configures the interval between tests.
	switch number	Specifies the switch number, which is the stack member number. If the switch is a standalone switch, the switch number is 1. If the switch is in a stack, the range is from 1 to 9, depending on the switch member numbers in the stack.
		This keyword is supported only on on stacking-capable switches.
	test	Specifies the tests to be run.
	name	Name of the test.
	test-id	ID number of the test.
	test-id-range	Range of test ID numbers. Enter the range as integers separated by a comma and a hyphen (for example, 1,3-6 specifies test IDs 1, 3, 4, 5, and 6).
	all	Specifies all the diagnostic tests.
	hh:mm:ss	Monitoring interval, in hours, minutes, and seconds. Enter the hours from 0 to 24, minutes from 0 to 60, and seconds from 0 to 60.

	milliseconds		Monitoring interval, in milliseconds (ms). Enter the	
	mmiseconds		test time, in milliseconds, from 0 to 999.	
	day		Monitoring interval, in days. Enter the number of days between test, from 0 to 20.	
	threshold		Configures the failure threshold.	
	failure count count		Sets the failure threshold count.	
	cardindex number		(Optional) Specifies the card index number.	
Command Default	Monitoring is disabled, and a fa	ilure threshold value is	s not set.	
Command Modes	Global configuration (config)			
Command History	Release	Modification		
	Cisco IOS XE Gibraltar 16.11.1	This command was introduced.		
Usage Guidelines You must configure the f When entering the diag		rreshold and the interva- nonitor switch modul	al between tests before enabling diagnostic monitoring. e test command, you must isolate network traffic by	
	disabling all the connected ports	s, and not send test pac	kets during a test.	
Examples	This example shows how to set the failure threshold count of Test 1 to 20:			
	Device# configure terminal Device(config)# diagnostic	monitor threshold	switch 2 test 1 failure count 20	
	This example shows how to con	ifigure the monitoring	interval of Test 2:	
	Device# configure terminal Device(config)# diagnostic	monitor interval s	witch 2 test 2 12:30:00 750 5	
Related Commands	Command		Description	
	show diagnostic content swite	ch module	Displays online diagnostic test results.	

diagnostic schedule module

To schedule test-based diagnostic task for a specific switch module or schedule a supervisor engine switchover, use the **diagnostic schedule switch module** command in global configuration mode. To remove the schedule, use the **no** form of this command.

diagnostic schedule switch *number* **module** *module-num* **test** {*test-id* | {{**complete** | **minima**} {daily *hh:mm* | **on** *month* | **weekly** *day-of-week*} | {{**all** | **basic** | **non-disruptive** | **per-port** } {daily *hh:mm* | **on** *month* | **port**{*interface-port-number* | *port-number-list* | **all**{**daily** *hh:mm* | **on** *month* | **weekly** *day-of-week*} } | **weekly** *day-of-week*} }}

no diagnostic schedule switch *number* **module** *module-num* **test** {*test-id* | {{**complete** | **minimal**} {**daily** *hh:mm* | **on** *month* | **weekly** *day-of-week*}} | {{**all** | **basic** | **non-disruptive** | **per-port** } {**daily** *hh:mm* | **on** *month* | **port**{*interface-port-number* | *port-number-list* | **all**{**daily** *hh:mm* | **on** *month* | **weekly** *day-of-week*}} | weekly *day-of-week*}}

Syntax Description	switch switch_num	Specifies the switch number.
	module module_num	Specifies the module number.
	test	Specifies the diagnostic test suite attribute.
	test-id	Identification number for the test to be run.
		Enter the show diagnostic content command to display
	all	Runs all the diagnostic tests.
	complete	Selects the complete bootup test suite.
	minimal	Selects the minimal bootup test suite.
	non-disruptive	Selects the nondisruptive test suite.
	per-port	Selects the per-port test suite.
		per-port is not supported when specifying a scheduled s
	port	(Optional) Specifies the port-to-schedule testing.
	interface-port- number	(Optional) Port number. The range is from 1-48.
	port-number-list	(Optional) Range of port numbers, separated by a hypher 1-48.
	all	(Optional) Specifies all the ports.
	on month	Specifies the schedule of a test-based diagnostic task.
		Enter the month name, for example, January or February lowercase characters).

I

	da	ily hh:mm		Specifies the daily schedule of a test-based diagnostic	
				Enter the time as a two-digit number (for a 24-hour c the colon (:) is required.	
	we	eekly day-of-week		Specifies the weekly schedule of a test-based diagnos	
				Enter the day of the week, for example, Monday or T or lowercase characters).	
Command Default	Tes	st-based diagnostic task for a s	specific switch module is no	ot scheduled.	
Command Modes	Glo	obal configuration (config)			
Command History	Re	lease	Modification		
	Ci	sco IOS XE Fuji 16.9.1	This command was	s introduced.	
Usage Guidelines	Ru eng	n the diagnostic schedule swi t gine to the standby supervisor	t ch module test command to engine.	schedule a switchover from the active supervisor	
	The the	e show diagnostic content sv ScheduleSwitchover field.	vitch module command disp	plays the test ID list. The test ID is displayed in	
	Yo	You can specify a periodic switchover (daily or weekly) or a single switchover occurrence at a specific time			
	usi	using these commands:			
		diagnostic schedule switch number module module_num test test-id on mm			
		 diagnostic schedule switch 	number module_module_m	num test test-id daily hh:mm	
		 diagnostic schedule switch 	number module module_n	num test test-id weekly day-of-week	
	Note	To avoid system downtime we recommend that you sch module 10 minutes after the	in the event that the standby redule a switchover from the e switchover occurs.	v supervisor module cannot switch over the system, e standby supervisor module to the active supervisor	
Examples	Thi spe	is example shows how to sche cific switch module:	edule diagnostic testing on a	specific month, date, and time for a	
	Dev Dev	vice# configure terminal vice(config)# diagnostic	schedule switch 1 module	e 1 test 5 on may	
	Thi swi	is example shows how to sche itch module:	dule diagnostic testing to oc	cur daily at a certain time for a specific	
	Dev Dev	vice# configure terminal vice(config)# diagnostic	schedule switch 1 module	e 1 test 5 daily 12:25	
	Thi swi	is example shows how to scheolitch module:	lule diagnostic testing to occu	ur weekly on a certain day for a specific	

Device# configure terminal Device(config)# diagnostic schedule module 1 test 5 weekly friday

Related Commands

Command	Description	
show diagnostic content	Displays test information, including test ID, test attributes, and supported coverage test levels for all the tests and modules.	
show diagnostic schedule	Displays the current scheduled diagnostic tasks.	

diagnostic start

To run a specified diagnostic test, use the diagnostic start command in privileged EXEC mode.

diagnostic start switch *number* module *module_num* test {*test-id* | minimal | complete | {{all | basic | non-disruptive | per-port }{port{num | port_range | all}}}

Syntax Description	switch switch_num	Specifies the switch number.		
	module module_num	Specifies the module number.		
	test	Specifies a test to run.		
	test-id	Enter the identification number of the test you want to run.		
		Enter the <i>test-id-range</i> or <i>port_range</i> as integers separated by a comma and a hyphen (for example, 1,3-6 specifies test IDs 1, 3, 4, 5, and 6).		
	minimal	Runs minimal bootup diagnostic tests.		
	complete	Runs complete bootup diagnostic tests.		
	basic	Runs basic on-demand diagnostic tests.		
	per-port	Runs per-port level tests.		
	non-disruptive	Runs nondisruptive health-monitoring tests.Runs all the diagnostic tests.		
	all			
	port num	(Optional) Specifies the interface port number. The range is from 1-48.		
Command Default	None			
Command Modes	Privileged EXEC (#)			
Command History	Release	Modification		
	Cisco IOS XE Fuji 16.9.1	This command was introduced.		
Usage Guidelines	Run the show diagnostic content command to display the test ID list .			
	Use the diagnostic stop command to stop the testing process.			
Examples	This example shows how to run the complete online diagnostic tests:			
	Device# diagnostic start switch 1 module 1 test all			
	Diagnostic[switch 1, module requires reload	1]: Running test(s) 2 may disrupt normal system operation and		

Do you want to continue? [no]: y Device# *Jul 5 03:04:49.081 PDT: %DIAG-6-TEST RUNNING: switch 1, module 1: Running TestGoldPktLoopback{ID=1} ... *Jul 5 03:04:49.086 PDT: %DIAG-6-TEST OK: switch 1, module 1: TestGoldPktLoopback{ID=1} has completed successfully *Jul 5 03:04:49.086 PDT: %DIAG-6-TEST RUNNING: switch 1, module 1: Running TestPhyLoopback{ID=2} ... *Jul 5 03:04:49.092 PDT: %DIAG-6-TEST OK: switch 1, module 1: TestPhyLoopback{ID=2} has completed successfully *Jul 5 03:04:49.092 PDT: %DIAG-6-TEST_RUNNING: switch 1, module 1: Running TestThermal{ID=3} . . . *Jul 5 03:04:52.397 PDT: %DIAG-6-TEST OK: switch 1, module 1: TestThermal{ID=3} has completed successfully *Jul 5 03:04:52.397 PDT: %DIAG-6-TEST RUNNING: switch 1, module 1: Running TestScratchRegister{ID=4} ... *Jul 5 03:04:52.414 PDT: %DIAG-6-TEST OK: switch 1, module 1: TestScratchRegister{ID=4} has completed successfully *Jul 5 03:04:52.414 PDT: %DIAG-6-TEST RUNNING: switch 1, module 1: Running TestPoe{ID=5} . . . *Jul 5 03:04:52.415 PDT: %DIAG-6-TEST OK: switch 1, module 1: TestPoe{ID=5} has completed successfully *Jul 5 03:04:52.415 PDT: %DIAG-6-TEST RUNNING: switch 1, module 1: Running TestUnusedPortLoopback{ID=6} ... *Jul 5 03:04:52.415 PDT: %DIAG-6-TEST OK: switch 1, module 1: TestUnusedPortLoopback{ID=6} has completed successfully *Jul 5 03:04:52.415 PDT: %DIAG-6-TEST RUNNING: switch 1, module 1: Running TestPortTxMonitoring{ID=7} ... *Jul 5 03:04:52.416 PDT: %DIAG-6-TEST_OK: switch 1, module 1: TestPortTxMonitoring{ID=7} has completed successfull

Related Commands	Command	Description
	diagnostic bootup level	Configures the diagnostic bootup level.
	diagnostic event-log size	Modifies the diagnostic event log size dynamically.
	diagnostic monitor	Configures health-monitoring diagnostic testing.
	diagnostic ondemand	Configures the on-demand diagnostics.
	diagnostic schedule	Sets the diagnostic test schedule for a particular bay, slot, or subslot.
	diagnostic stop	Stops a specified diagnostic test.
	show diagnostic bootup	Displays the configured diagnostics level at bootup.
	show diagnostic content module	Displays the available diagnostic tests.
	show diagnostic description	Provides the description for diagnostic tests.
	show diagnostic events	Displays the diagnostic event log.
	show diagnostic ondemand settings	Displays the settings for the on-demand diagnostics.
	show diagnostic result	Displays the diagnostic test results for a module.
	show diagnostic schedule	Displays the current scheduled diagnostic tasks.

Command	Description
show diagnostic status	Displays the running diagnostics tests.

diagnostic stop

To stop the testing process, use the diagnostic stop command in privileged EXEC mode.

diagnostic stop switch number module module_num

Syntax Description	switch switch_num		Specifies the switch number.
	module module_num		Specifies the module number.
Command Default	None		
Command Modes	Privileged EXEC (#)		
Command History	-		
Command History	Release	Modifi	ication
	Cisco IOS XE Fuji 16.9.1	This c	ommand was introduced.
Usage Guidelines	Use the diagnostic start command to start the testing process.		
Examples	This example shows how to stop the diagnostic test process:		

Device# diagnostic stop module 3 $% \left({{\left({{{\left({{{\left({{{\left({{{c}}} \right)}} \right.}$

Related Commands	Command	Description
	diagnostic bootup level	Configures the diagnostic bootup level.
	diagnostic event-log size	Modifies the diagnostic event log size dynamically.
	diagnostic monitor	Configures health-monitoring diagnostic testing.
	diagnostic ondemand	Configures the on-demand diagnostics.
	diagnostic schedule	Sets the diagnostic test schedule for a particular bay, slot, or subslot.
	diagnostic start	Runs a specified diagnostic test.
	show diagnostic bootup	Displays the configured diagnostics level at bootup.
	show diagnostic content module	Displays the available diagnostic tests.
	show diagnostic description	Provides the description for the diagnostic tests.
	show diagnostic events	Displays the diagnostic event log.
	show diagnostic ondemand settings	Displays the settings for the on-demand diagnostics.

Command	Description
show diagnostic result	Displays the diagnostic test results for a module.
show diagnostic schedule	Displays the current scheduled diagnostic tasks.
show diagnostic status	Displays the running diagnostics tests.

domain id

To configure Cisco StackWise Virtual domain ID on a switch, use the **domain** *id* command in the StackWise Virtual configuration mode. To disable, use the **no** form of this command.

domain *id* no domain *id*

Syntax Description	domain		Associates StackWise Virtual configuration with a specific domain.
	id		Value of the domain ID. The range is from 1 to 255. The default is one.
Command Default	No domain ID is configure	ed.	
Command Modes	StackWise Virtual configu	ration (config-stackwise-virtual)	
Command History	Release	Modification	
	Cisco IOS XE Everest 16.6.1	This command was introduced.	
Usage Guidelines	This command is optional. configuring the domain ID	. You must enable Stackwise Virtual, usin).	ng the stackwise-virtual command, before

Example

The following example shows how to enable Cisco StackWise Virtual and configure a domain ID:

Device(config)# stackwise-virtual
Device(config-stackwise-virtual)#domain 2

dual-active detection pagp

To enable PAgP dual-active detection, use the **dual-active detection pagp** command in the StackWise Virtual configuration mode. To disable PAgP dual-active detection, use the **no** form of the command.

dual-active detection pagp no dual-active detection pagp

Syntax Description	dual-active detection pag	gp	Enables pagp dual-active detection.
Command Default	Enabled.		
Command Modes	StackWise Virtual configu	ration (config-stackwise-virtual)	
Command History	Release	Modification	
	Cisco IOS XE Everest 16.6.1	This command was introduced.	
	Example:		
	The following example sho	ws how to enable PAgP dual-active detect	ion trust mode on channel-group:

Device(config)# **stackwise-virtual** Device(config-stackwise-virtual)#**dual-active detection pagp**

Device (config-stackwise-virtual) #dual-active detection pagp trust channel-group 1

hw-module beacon switch

To control the blue beacon LED in a field-replaceable unit (FRU), use the **hw-module beacon switch** command in priviledged EXEC mode.

hw-module beacon switch {*switch-number* | **active** | **standby** }

{**RP**{active | standby} | fan-tray | power-supply power-supply slot number | slot slot number} {off | on | status}

Syntax Description	switch-number	The switch to access. Valid values are 1 and 2.
	active	Selects the active instance of the switch.
	standby	Selects the standby instance of the switch.
	RP	Selects the route processorfor the selected switch.
	fan-tray	Selects the fan for the selected switch.
	power-supply power-su slot number	<i>pply</i> Specifies the power supply slot number. Valid values are 1 to 4.
	slot slot-number	Specifies the slot number. Valid values are 1 to 4.
	off	Switches off the beacon LED for the route processor and the slot, and switches off the fan and the power supply for the selected switch.
	on	Switches on the beacon LED for the route processor and the slot, and switches off the fan and the power supply for the selected switch.
	status	Displays the beacon LED status for the route processor, fan-tray, power-supply slot, and slot for the selected switch.
Command Default	None	
Command Modes	Priviledged EXEC (#)	
Command History	Release	Modification
	Cisco IOS XE Fuji 16.9.1	This command was introduced.

hw-module switch slot

To control components such as linecard or a supervisor available in a slot, use the **hw-module switch slot** command in the global configuration mode.

hw-module switch switch-number slot slot-number { logging
onboard [counter | environment | message | poe | temperature | voltage] | shutdown }

Syntax Description	switch-number	The switch to access. Valid values are 1 and 2.		
	slotslot-number	Specifies the slot number to access. Valid values are 1 to 4.		
		• 1: Linecard slot 1		
		• 2: Supervisor slot 0		
		• 3: Supervisor slot 1		
		• 4: Linecard slot 4		
	logging onboard	Enables logging onboard.		
	counter	(Optional) Configures the logging onboard counter.		
	environment	(Optional) Configures the logging onboard environment.		
	message	(Optional) Configures the logging onboard message.		
	poe	(Optional) Configures the logging onboard PoE.(Optional) Configures the logging onboard temperature.(Optional) Configures the logging onboard voltage.		
	temperature			
	voltage			
	shutdown	Shuts down a field-replaceable unit (FRU).		
Command Default	None			
Command Modes	Global configurati	on (config)		
Command History	Release	Modification		
	Cisco IOS XE Fu 16.9.1	ji This command was introduced.		
Examples	This example show	ws how to enable logging onboard for switch 1, slot 1:		
	Device# hw-modu	le switch 1 slot 1 logging onboard		
	This example show	ws how to configure the logging onboard counter for swite		

Device# hw-module switch 1 slot 1 logging onboard counter This example shows how to configure the logging onboard environment for switch 1, slot 1: Device# hw-module switch 1 slot 1 logging onboard message for switch 1, slot 1: Device# hw-module switch 1 slot 1 logging onboard message This example shows how to configure the logging onboard message This example shows how to configure the logging onboard poe This example shows how to configure the logging onboard poe This example shows how to configure the logging onboard poe This example shows how to configure the logging onboard temperature for switch 1, slot 1: Device# hw-module switch 1 slot 1 logging onboard temperature This example shows how to configure the logging onboard temperature This example shows how to configure the logging onboard volatge for switch 1, slot 1: Device# hw-module switch 1 slot 1 logging onboard volatge for switch 1, slot 1: Device# hw-module switch 1 slot 1 logging onboard volatge This example shows how to shut down an FRU: Device# hw-module switch 1 slot 1 shutdown

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hw-module switch usbflash

To unmount the USB SSD, use the **hw-module switch** *switch-number* **usbflash** command in privileged EXEC mode.

hw-module switch switch-numberusbflashunmount

Syntax Description	switch number	The switch to access. Valid values are 1 and 2.			
	usbflash unmount	usbflash unmount Unmounts the USB SSD.			
Command Default	None				
Command Modes	Global Configuration	on (config)			
Command History	Release	Modification			
	Cisco IOS XE Fuji 16.9.1	This command was introduced.			
	-				

Example

This example shows how to unmount the USB SSD from switch 1:

Device# hw-module switch 1 usbflash unmount

set platform software fed switch

To set the packet cache count per SVL port, use the **set platform software fed switch** command in privileged EXEC or user EXEC mode.

set platform software fed switch {switch-number | active | standby} {F0 | F1 active} fss pak-cache count

Syntax Description	switch {switch-number active standby}	Specifies information about the switch. You have the following options: • <i>switch-number</i>	
		• active — Displays information relating to the active switch.	
		• standby —Displays information relating to the standby switch, if available.	
	FO	Specifies information about the Embedded Service Processor slot 0.	
	FP active	Specifies information about the active Embedded Service Processor.	
	pak-cache count	Specifies the packet cache count. The range is 10 to 600. The default is 10.	
Command Default	The default per port packet cache	count is 10.	
Command Modes	User EXEC(>)		
	Privileged EXEC (#)		
Command History	Release	Modification	
	Cisco IOS XE Gibraltar 16.10.1	This command was introduced.	
Usage Guidelines	None		
	Example		
	This example shows how to set th	e packet cache count per SVL port.	

Device# set platform software fed switch active F1 active fss pak-cache 40

set platform software nif-mgr switch

To set the packet cache count per SVL port, use the **set platform software nif-mgr switch** command in privileged EXEC or user EXEC mode.

set platform software nif-mgr switch {switch-number | active | standby }R0 pak-cache count

Syntax Description	<pre>switch {switch-number activ standby}</pre>	Specifies information about the switch. You have the following options: • <i>switch-number</i>			
		• active — Displays information	ation relating to the active switch.		
		• standby —Displays inforr available.	• standby —Displays information relating to the standby switch, if available.		
	R0	Specifies information about the	e Route Processor (RP) slot 0.		
	pak-cache count	Specifies the packet cache cour	nt. The range is 10 to 600. The default is 10.		
Command Default	The default per port packet cac	the count is 10.			
Command Modes	User EXEC(>)				
	Privileged EXEC (#)				
Command History	Release	Modification			
	Cisco IOS XE Gibraltar 16.10.	1 This command was introduced.			
Usage Guidelines	None				
	Example				
	This example shows how to se	t the packet cache count per SVL	port.		

Device# set platform software nif_mgr switch active R0 pak-cache 40

stackwise-virtual link

To associate an interface with configured StackWise Virtual link, use the **stackwise-virtual link** command in the interface configuration mode. To disassociate the interface, use the **no** form of the command.

stackwise-virtual link *link-value* no stackwise-virtual link *link-value*

Syntax Description	stackwise-virtual link		Associates a 10-G or 40-G interface to StackWise Virtual link.	
	link value		Domain ID configured for Cisco StackWise Virtual.	
Command Default	Disabled.			
Command Modes	Interface configuration (co	onfig-if).		
Command History	Release	Modification		
	Cisco IOS XE Everest 16.6.1	This command was introduced.		
	Example:			
	This example shows how to Virtual Link (SVL):	to associate a 40 Gigabit Ethernet interfa	ace with configured Stackwise	

Device(config)# interface FortyGigabitEthernet1/1/1
Device(config-if)#stackwise-virtual link 1

stackwise-virtual dual-active-detection

To configure an interface as dual-active-detection link, use the **stackwise-virtual dual-active-detection** command in the interface configuration mode. To disassociate the interface, use the **no** form of the command.

stackwise-virtual dual-active-detection no stackwise-virtual dual-active-detection

Syntax Description	stackwise-virtual dual-a	ctive-detection	Enables Cisco StackWise Virtual dual-active-detection for the specified 10-G or 40-G interface.
Command Default	Disabled.		
Command Modes	Interface configuration (co	nfig-if)	
Command History	Release	Modification	
	Cisco IOS XE Everest 16.6.1	This command was introduced.	
	Example:		
	The following example sho Dual-Active-Detection lin	ows how to configure a 10 Gigabit Etho k:	ernet interface as

Device(config)# interface TenGigabitEthernet1/0/2
Device(config-if)#stackwise-virtual dual-active-detection

show diagnostic bootup

To show the diagnostic boot information for a switch, use the **show diagnostic bootup** command in privileged EXEC mode.

show diagnostic bootup level

Syntax Description	level	Shows the diagnostic boot-level information.
Command Modes	Privileged EXEC (#)	
Command History	Release	Modification
	Cisco IOS XE Fuji 16.9.1	This command was introduced.
Examples	The following is a sample output of the s Device# show diagnostic bootup lev	show diagnostic bootup level command: rel

Current bootup diagnostic level: minimal

show diagnostic content

To show the diagnostic test content for a switch, use the **show diagnostic content** command in privileged EXEC mode.

show diagnostic content switch { switch-number module {1 | 2 | 4} | all [all] }

Syntax Description	switch switch-number	Specifies the switch to be selected.			
	module	Selects a module of the switch.			
	1	Displays the diagnostic test content for the m C9400-LC-48U.	odule		
	2	Displays the diagnostic test content for the m C9400-SUP-1.	odule		
	4	Displays the diagnostic test content for the m C9400-LC-48T.	odule		
	switch all [all]	• switch all-Selects all the switches.			
		• (Optional) all –Displays all the diagnostic content for all the switches.	ic test		
Command Modes	Privileged EXEC (#)				
Command History	Release	Modification			
	Cisco IOS XE Fuji 16.9.1	This command was introduced.			
	The following example shows a sample ouput of the show diagnostic content switch all [all] command.				
	Device# show diagnostic content switch all all				
	switch 1, module 1:				
	<pre>Diagnostics test suite attribut M/C/* - Minimal bootup level B/* - Basic ondemand test / P/V/* - Per port test / Per d D/N/* - Disruptive test / Non S/* - Only applicable to st X/* - Not a health monitori F/* - Fixed monitoring inte E/* - Always enabled monito A/I - Monitoring is active</pre>	s: est / Complete bootup level test / NA NA vice test / NA disruptive test / NA ndby unit / NA g test / NA val test / NA ing test / NA Monitoring is inactive			
	ID Test Name	Test Interval Thre- Attributes day hh:mm:ss.ms shold			
	<pre>1) TestGoldPktLoopback 2) TestPhyLoopback</pre>	> *BPN*X**I not configured n/a > *BPD*X**I not configured n/a			

 3) TestThermal -----> *B*N****A
 000 00:01:30.00 1

 4) TestScratchRegister ----> *B*N****A
 000 00:01:30.00 5

 5) TestPoe -----> *B*N*X**I
 000 00:01:30.00 5

 6) TestUnusedPortLoopback -----> *BPN****I
 not configured 1

 7) TestPortTxMonitoring -----> *BPN***A
 000 00:01:15.00 1

switch 1, module 2:

Diagnostics test suite attributes: M/C/* - Minimal bootup level test / Complete bootup level test / NA B/* - Basic ondemand test / NA P/V/* - Per port test / Per device test / NA D/N/* - Disruptive test / Non-disruptive test / NA S/* - Only applicable to standby unit / NA X/* - Not a health monitoring test / NA F/* - Fixed monitoring interval test / NA E/* - Always enabled monitoring test / NA A/I - Monitoring is active / Monitoring is inactive

			Test	: Interval	Thre-
ID	Test Name	Attributes	day	hh:mm:ss.ms	shold
			====		
1)	<pre>TestGoldPktLoopback></pre>	*BPN*X**I	not	configured	n/a
2)	TestFantray>	*B*N****A	000	00:01:40.00	1
3)	TestPhyLoopback>	*BPD*X**I	not	configured	n/a
4)	TestThermal>	*B*N****A	000	00:01:30.00	1
5)	<pre>TestScratchRegister></pre>	*B*N****A	000	00:01:30.00	5
6)	TestMemory>	*B*D*X**I	not	configured	n/a
7)	<pre>TestUnusedPortLoopback></pre>	*BPN****I	not	configured	1
8)	TestPortTxMonitoring>	*BPN****A	000	00:01:15.00	1

switch 1, module 4:

Diagnostics test suite attributes: M/C/* - Minimal bootup level test / Complete bootup level test / NA B/* - Basic ondemand test / NA P/V/* - Per port test / Per device test / NA D/N/* - Disruptive test / Non-disruptive test / NA S/* - Only applicable to standby unit / NA X/* - Not a health monitoring test / NA F/* - Fixed monitoring interval test / NA E/* - Always enabled monitoring test / NA

A/I - Monitoring is active / Monitoring is inactive

			Test	: Interval	Thre-
ID	Test Name	Attributes	day	hh:mm:ss.ms	shold
====			====		
1)	TestGoldPktLoopback>	*BPN*X**I	not	configured	n/a
2)	TestPhyLoopback>	*BPD*X**I	not	configured	n/a
3)	TestThermal>	*B*N****A	000	00:01:30.00	1
4)	<pre>TestScratchRegister></pre>	*B*N****A	000	00:01:30.00	5
5)	TestUnusedPortLoopback>	*BPN****I	not	configured	1
6)	<pre>TestPortTxMonitoring></pre>	*BPN****A	000	00:01:15.00	1

switch 2, module 1:

Diagnostics test suite attributes: M/C/* - Minimal bootup level test / Complete bootup level test / NA B/* - Basic ondemand test / NA P/V/* - Per port test / Per device test / NA D/N/* - Disruptive test / Non-disruptive test / NA L

S/* - Only applicable to standby unit / NA

- $\rm X/\star$ Not a health monitoring test / NA
- $\mathrm{F}/\mathrm{\star}$ Fixed monitoring interval test / NA

E/* - Always enabled monitoring test / NA

A/I - Monitoring is active / Monitoring is inactive

ID ====	Test Name	Attributes =======	Test day ====	Interval hh:mm:ss.ms	Thre- shold =====
1)	TestGoldPktLoopback>	*BPN*X**I	not	configured	n/a
2)	TestPhyLoopback>	*BPD*X**I	not	configured	n/a
3)	TestThermal>	*B*N****A	000	00:01:30.00	1
4)	<pre>TestScratchRegister></pre>	*B*N****A	000	00:01:30.00	5
5)	TestPoe>	*B*N*X**I	not	configured	n/a
6)	TestUnusedPortLoopback>	*BPN****I	not	configured	1
7)	<pre>TestPortTxMonitoring></pre>	*BPN****A	000	00:01:15.00	1

switch 2, module 2:

Diagnostics test suite attributes: M/C/* - Minimal bootup level test / Complete bootup level test / NA B/* - Basic ondemand test / NA P/V/* - Per port test / Per device test / NA D/N/* - Disruptive test / Non-disruptive test / NA S/* - Only applicable to standby unit / NA X/* - Not a health monitoring test / NA F/* - Fixed monitoring interval test / NA E/* - Always enabled monitoring test / NA

 $\ensuremath{\mathsf{A}}\xspace/\ensuremath{\mathsf{I}}\xspace$ - Monitoring is inactive

				1110011011	11110
ID	Test Name	Attributes	day	hh:mm:ss.ms	shold
1)	TestGoldPktLoopback>	*BPN*X**I	not	configured	n/a
2)	TestFantray>	*B*N****A	000	00:01:40.00	1
3)	TestPhyLoopback>	*BPD*X**I	not	configured	n/a
4)	TestThermal>	*B*N****A	000	00:01:30.00	1
5)	<pre>TestScratchRegister></pre>	*B*N****A	000	00:01:30.00	5
6)	TestMemory>	*B*D*X**I	not	configured	n/a
7)	<pre>TestUnusedPortLoopback></pre>	*BPN****I	not	configured	1
8)	<pre>TestPortTxMonitoring></pre>	*BPN****A	000	00:01:15.00	1

switch 2, module 4:

Diagnostics test suite attributes: M/C/* - Minimal bootup level test / Complete bootup level test / NA B/* - Basic ondemand test / NA P/V/* - Per port test / Per device test / NA D/N/* - Disruptive test / Non-disruptive test / NA S/* - Only applicable to standby unit / NA X/* - Not a health monitoring test / NA F/* - Fixed monitoring interval test / NA E/* - Always enabled monitoring test / NA A/I - Monitoring is active / Monitoring is inactive

ID	Test Name	Attributes	Test Inte day hh:mm	rval :ss.ms	Thre- shold
					=====
1)	TestGoldPktLoopback>	*BPN*X**I	not confi	gured	n/a
2)	TestPhyLoopback>	*BPD*X**I	not confi	gured	n/a
3)	TestThermal>	*B*N****A	000 00:01	:30.00	1
4)	<pre>TestScratchRegister></pre>	*B*N****A	000 00:01	:30.00	5

Test Interval Thre-

I

5)	TestUnusedPortLoopback>	*BPN****I	not	configured	1
6)	<pre>TestPortTxMonitoring></pre>	*BPN****A	000	00:01:15.00	1

show diagnostic description

To show the diagnostic test description for a switch, use the **show diagnostic description** command in privileged EXEC mode.

show diagnostic description switch {switch-number module {1 | 2 | 4} {test {test-id | all}}
| all test {test-list | test-id | all}}

Syntax Description	switch switch-number	Specifies the switch to be selected.
	switch all	Selects all the switches.
	module	Selects a module of the switch.
	1	Selects the module C9400-LC-48U.
	2	Selects the module C9400-SUP-1.
	4	Selects the module C9400-LC-48T.
	test test-id	Displays the diagnostic test description for the test ID or test name specified.
	test test-list	Displays the diagnostic test description for the list of test IDs specified.
	test all	Displays the diagnostic test description for all the test IDs.
Command Modes	Privileged EXEC (#)	
Command History	Release	Modification
	Cisco IOS XE Fuji 16.9.1	This command was introduced.
Examples	This example shows sample output of the module 4 test all command:	e show diagnostic description switch switch-number
	Device# show diagnostic descriptio	n switch 1 module 4 test all
	TestGoldPktLoopback : The GOLD packet Loopback test ver functionality. In this test, a GO provides the support in hardware, at MAC level and is matched again non-disruptive test.	ifies the MAC level loopback LD packet, for which doppler is sent. The packet loops back st the stored packet. It is a
	TestPhyLoopback : The PHY Loopback test verifies th functionality. In this test, a pa at PHY level and is matched again disruptive test and cannot be run	e PHY level loopback cket is sent which loops back st the stored packet. It is a as a health monitoring test.

This test verifies the temperature reading from the sensor is below the yellow temperature threshold. It is a non-disruptive test and can be run as a health monitoring test. TestScratchRegister : The Scratch Register test monitors the health of application-specific integrated circuits (ASICs) by writing values into registers and reading back the values from these registers. It is a non-disruptive test and can be run as a health monitoring test. TestUnusedPortLoopback :

This test verifies the PHY level loopback functionality for admin-down ports. In this test, a packet is sent which loops back at PHY level and is matched against the stored packet. It is a non-disruptive test and can be run as a health monitoring test.

TestPortTxMonitoring :

TestThermal :

This test monitors the TX counters of a connected interface. This test verifies if the connected port is able to send the packets or not. It is a non-disruptive test and can be run as a health monitoring test.

show diagnostic events

To show the diagnostic event log for a switch, use the **show diagnostic events** command in privileged EXEC mode.

show diagnostic events switch {switch-number module {1 | 2 | 4} | all [event-type [error |
info | warning]]}

Syntax Description	switch switch-number	Specifies the switch to be selected.
	switch all	Selects all the switches.
	module	Selects a module of the switch.
	1	Displays diagnostic event logs for the C9400-LC-48U module.
	2	Displays diagnostic event logs for the C9400-SUP-1 module.
	4	Displays diagnostic event logs for the C9400-LC-48T module.
	event-type	(Optional) Displays the event log of a specific event type. The following are the valid values:
		• error : Displays the error type event logs.
		• info : Displays the information type event logs.
		• warning : Displays the warning type event logs.
Command Modes	Privileged EXEC (#)	
Command History	Release	Modification
	Cisco IOS XE Fuji 16.9.1	This command was introduced.
Examples	This example shows a sample output 2 command.	of the show diagnostic events switch switch-number module
	Device# show diagnostic events	switch 1 module 2
	Diagnostic events (storage for Number of events matching above Event Type (ET): I - Info, W -	500 events, 500 events recorded) e criteria = 500 Warning, E - Error
	Time Stamp ET [Card] Ev	rent Message
	07/08 13:54:05.110 E [1-2] 07/08 13:55:35.111 E [1-2] 07/08 13:57:05.111 E [1-2]	TestThermal Failed TestThermal Failed TestThermal Failed

I

07/08	13:58:35.613	Е	[1-2]	TestThermal	Failed
07/08	14:00:05.614	Е	[1-2]	TestThermal	Failed
07/08	14:01:35.615	Е	[1-2]	TestThermal	Failed
07/08	14:03:05.616	Е	[1-2]	TestThermal	Failed
07/08	14:04:36.367	Е	[1-2]	TestThermal	Failed
07/08	14:06:06.368	Е	[1-2]	TestThermal	Failed
07/08	14:07:37.370	Е	[1-2]	TestThermal	Failed
07/08	14:09:07.371	Е	[1-2]	TestThermal	Failed
07/08	14:10:38.372	Е	[1-2]	TestThermal	Failed
07/08	14:12:10.873	Е	[1-2]	TestThermal	Failed
07/08	14:13:41.374	Е	[1-2]	TestThermal	Failed
<outpi< td=""><td>it truncated></td><td></td><td></td><td></td><td></td></outpi<>	it truncated>				

show diagnostic result

To show the diagnostic test result information, use the **show diagnostic result** command in privileged EXEC mode.

show diagnostic result switch {*switch-number***module** {1 | 2 | 4} [detail | failure [detail] | test {*test-id* | all} [detail] | xml] | all [all [detail | failure [detail]]] }

Syntax Description	switch switch-number	Specifies the switch to be selected.							
	module	Selects a module of the switch.							
	1	Displays the diagnostic test results for the module C9400-LC-48U.							
	2	Displays the diagnostic test results for the module C9400-SUP-1.							
	4	Displays the diagnostic test results for the module C9400-LC-48T.							
	detail	(Optional) Displays the detailed test results.							
	failure	(Optional) Displays the failed test results.							
	test test-id	(Optional) Displays the diagnostic test results for the selected test ID or test name or list of test IDs of a module.							
	test all	(Optional) Displays the diagnostic test results for all the tests of a module.							
	xml	(Optional) Displays the test results in XML format							
	switch all [all]	• switch all —Displays the diagnostic test results for all the switches.							
		• (Optional) all —Displays the diagnostic test results for all the cards of all the switches.							
Command Modes	Privileged EXEC (#)								
Command History	Release	Modification							
	Cisco IOS XE Fuji 16.9.1	This command was introduced.							
Examples	This example displays sample output of 4 [failure [detail]] command:	the show diagnostic result switch switch-number module							

```
Device# show diagnostic result switch 1 module 4 failure detail
Current bootup diagnostic level: minimal
switch 1, module 4: SerialNo : JAE204700PH
Overall Diagnostic Result for switch 1, module 4 : PASS
Diagnostic level at card bootup: minimal
Test results: (. = Pass, F = Fail, U = Untested)
```

This example displays sample output for the **show diagnostic result switch** *switch-number* **module 4** [detail] command.

```
Device# show diagnostic result switch 1 module 4 detail
Current bootup diagnostic level: minimal
switch 1, module 4: SerialNo : JAE204700PH
 Overall Diagnostic Result for switch 1, module 4 : PASS
 Diagnostic level at card bootup: minimal
 Test results: (. = Pass, F = Fail, U = Untested)
   1) TestGoldPktLoopback:
  Port 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
      Port 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
      Error code -----> 3 (DIAG SKIPPED)
       Total run count ----> 0
       Last test testing type -----> n/a
       Last test execution time ----> n/a
        First test failure time ----> n/a
       Last test failure time -----> n/a
       Last test pass time ----> n/a
       Total failure count ----> 0
       Consecutive failure count ---> 0
   2) TestPhyLoopback:
```

```
Last test execution time ----> n/a
First test failure time -----> n/a
Last test failure time -----> n/a
Last test pass time -----> n/a
Total failure count ----> 0
Consecutive failure count ---> 0
```

3) TestThermal ----> .

```
Error code -----> 0 (DIAG_SUCCESS)
Total run count -----> 1771
Last test testing type ----> Health Monitoring
Last test execution time ----> Jul 09 2018 03:06:53
First test failure time ----> n/a
Last test failure time ----> n/a
Last test pass time ----> Jul 09 2018 03:06:53
Total failure count ----> 0
Consecutive failure count ---> 0
```

TestScratchRegister -----> .

```
Error code ------> 0 (DIAG_SUCCESS)
Total run count -----> 1771
Last test testing type -----> Health Monitoring
Last test execution time ----> Jul 09 2018 03:06:53
First test failure time ----> n/a
Last test failure time ----> n/a
Last test pass time -----> Jul 09 2018 03:06:53
Total failure count ----> 0
Consecutive failure count ---> 0
```

5) TestUnusedPortLoopback:

Port	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Port	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	 U	U	 U	 U	 U	 U	 U	 U	U	U	U	 U	 U	U	U	U	U	 U	U	 U	 U	U	 U	 U

```
Error code ------> 3 (DIAG_SKIPPED)
Total run count -----> 0
Last test testing type -----> n/a
Last test execution time ----> n/a
First test failure time ----> n/a
Last test failure time ----> n/a
Last test pass time -----> n/a
Total failure count ----> 0
Consecutive failure count ---> 0
```

6) TestPortTxMonitoring:

Port	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	•	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Port	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

```
Error code -----> 0 (DIAG_SUCCESS)
Total run count -----> 2146
Last test testing type -----> Health Monitoring
Last test execution time ----> Jul 09 2018 03:07:08
First test failure time ----> n/a
Last test failure time ----> n/a
Last test pass time -----> Jul 09 2018 03:07:08
Total failure count ----> 0
Consecutive failure count ---> 0
```

This example displays sample output for the **show diagnostic result switch***-number* **module 4** [test [test-id]] command.

```
Device# show diagnostic result switch 1 module 4 test 3
Current bootup diagnostic level: minimal
 Test results: (. = Pass, F = Fail, U = Untested)
   3) TestThermal ----> .
Switch#show diagnostic result switch 1 module 4 test 3 detail ?
 1
      Output modifiers
 <cr>> <cr>>
Switch#show diagnostic result switch 1 module 4 test 3 detail
Current bootup diagnostic level: minimal
 Test results: (. = Pass, F = Fail, U = Untested)
   3) TestThermal ----> .
         Error code -----> 0 (DIAG SUCCESS)
         Total run count ----> 1772
         Last test testing type ----> Health Monitoring
         Last test execution time ----> Jul 09 2018 03:08:23
         First test failure time ----> n/a
         Last test failure time ----> n/a
         Last test pass time ----> Jul 09 2018 03:08:23
         Total failure count ----> 0
         Consecutive failure count ---> 0
```

This example displays sample output for the **show diagnostic result switch** *switch-number* **module 4** [**xml**] command.

Device# show diagnostic result switch 1 module 4 xml Current bootup diagnostic level: minimal <?xml version="1.0" ?><diag> <diag_results> <diag_info> This file report diag test results L

```
</diag info>
<diag_card_result>
<result overall result="DIAG PASS" new failure="FALSE" diag level="DIAG LEVEL MINIMAL" />
<card name="switch 1, module 4" index="3198" serial no="JAE204700PH" >
<card no>
9
</card no>
<total_port>
48
</total_port>
<test name="TestGoldPktLoopback" >
<test result>
<portmask>
<per port result result="DIAG RESULT UNKNOWN" port="1" />
<pre_port_result result="DIAG_RESULT_UNKNOWN" port="2" />
<pre_port_result result="DIAG_RESULT_UNKNOWN" port="3" />
<per_port_result result="DIAG_RESULT_UNKNOWN" port="4" />
<per_port_result result="DIAG_RESULT_UNKNOWN" port="5" />
<per port result result="DIAG RESULT UNKNOWN" port="6" />
cper port result result="DIAG RESULT UNKNOWN" port="7" />
<pre_port_result result="DIAG_RESULT_UNKNOWN" port="8" />
<per_port_result result="DIAG_RESULT_UNKNOWN" port="9" />
<per_port_result result="DIAG_RESULT_UNKNOWN" port="10" />
result result="DIAG RESULT UNKNOWN" port="12" />
<per_port_result result="DIAG_RESULT_UNKNOWN" port="13" />
```

<Output truncated>

show diagnostic simulation failure

To display the diagnostic failure simulation information for a card on a switch, use the show diagnostic simulation failure command in privileged EXEC mode.

show diagnostic simulation failure switch { switch-number module { 1 | 2 | 4 } | all [all] }

Syntax Description	switch switch-number	Specifies the switch to be selected.
	module	Selects a module of the switch.
	1	Displays diagnostic failure simulation information for the C9400-LC-48U module.
	2	Displays diagnostic failure simulation information for the C9400-SUP-1 module.
	4	Displays diagnostic failure simulation information for the C9400-LC-48T module.
	switch all [all]	• switch all—Selects all the switches.
		• (Optional) all —Displays all the diagnostic failure simulation information for all the switches.
Command Modes	Privileged EXEC (#)	
Command History	Release	Modification
	Cisco IOS XE Fuji 16.9.1	This command was introduced.
Examples	This example shows sample output of the	show diagnostic simulation failure switch all command:
	Device# show diagnostic simulation	failure switch all
	There is no test failure simulation	n installed

show diagnostic schedule

To display the diagnostic schedule information for a card on a switch, use the **show diagnostic schedule** command in privileged EXEC mode.

show diagnostic schedule switch { switch-number module { 1 | 2 | 4 } | all [all] }

Syntax Description	switch switch-number	Specifies the switch to be selected.
	module	Selects a module of the switch.
	1	Displays diagnostic schedule information for the C9400-LC-48U module.
	2	Displays diagnostic schedule information for the C9400-SUP-1 module.
	4	Displays diagnostic schedule information for the C9400-LC-48T module.
	switch all [all]	• switch all—Selects all switches.
		• (Optional) all —Displays all the diagnostic schedule information for all the switches.
Command Modes	Privileged EXEC (#)	
Command History	Release	Modification
	Cisco IOS XE Fuji 16.9.1	This command was introduced.
Examples	This example shows sample output of the s 2 command:	show diagnostic schedule switch switch-number module
	Device# show diagnostic schedule	switch 1 module 2
	Current Time = 03:14:24 PDT Mon Ju	1 9 2018
	Diagnostic for switch 1, module 2	is not scheduled.

show hw-module switch subslot

To display information for all the supported modules in the system and chassis location information, use the **show hw-module switch** *switch-number* **subslot** command in priviledged EXEC mode. To disable this feature, use the **no** form of this command.

show hw-module switch switch-number subslot
{slot/subslot|all{attribute|entity|oir|sensors[limits]|subblock|tech-support}}

noshow hw-module switch switch-number subslot
{slot/subslot|all{attribute|entity|oir|sensors[limits]|subblock|tech-support}}

Syntax Description	switch number		Specifies the switch to access; valid values are 1 and 2.		
	subslot slot/subslot		Specifies	module slot or subslot number.	
			Valid val	ues for slot are 1 to 4.	
			Valid val	ue for subslot is 0.	
	all		Selects al	Il the supported modules in the subslot level.	
	attribute		Displays	module attribute information.	
	entity		Displays	entity MIB details.	
	oir sensors limits subblock		Note	Not intended for production use.	
			Displays	online insertion and removal (OIR) summary.	
			Displays environmental sensor summary. Displays sensor limits. Displays subblock details.		
	tech-support		Displays subslot information for technical support.		
Command Default	None				
Command Modes	Priviledged EXEC (#)				
Command History	Release	Modification		_	
	Cisco IOS XE Fuji 16.9.1	This command was introduced.	S		
Examples	This example shows how the subslot level:	to obtain module att	ribute info	mormation for switch 1 for all the modules in	

Device# show hw-module switch 1 subslot all attribute

This example shows how to obtain module OIR information for switch 1 for all the modules in the subslot level:

Device# show hw-module switch 1 subslot all oir

This example shows how to obtain environmental sensor summary for switch 1 for all the modules in the subslot level:

Device# show hw-module switch 1 subslot all sensors

This example shows how to obtain sensory limits information for switch 1 for all modules in the subslot level:

Device# show hw-module switch 1 subslot all sensors limit

This example shows how to obtain subslot information for technical support for switch 1 for all modules in the subslot level:

Device# show hw-module switch 1 subslot all tech-support

show logging onboard switch

To display the on-board failure logging (OBFL) information of a switch, use the **show logging onboard switch** command in privileged EXEC mode.

Syntax Description	switch-number	Switch for which OBFL information is displayed.
	active	Displays OBFL information about the active switch.
	standby	Displays OBFL information about the standby switch.
	RP	Specifies the route processor (RP).
	slot	Specifies the slot information.
	clilog	Displays the OBFL commands that were entered on the standalone switch or specified stack members.
	counter	Displays the counter of the standalone switch or specified stack members.
	environment	Displays the unique device identifier (UDI) information for the standalone switch or specified stack members. Also displays the product identification (PID), the version identification (VID), and the serial number for all the connected FRU devices.
	message	Displays the hardware-related system messages generated by the standalone switch or specified stack members.
	рое	Displays the power consumption of the Power over Ethernet (PoE) ports on the standalone switch or specified stack members.
	state	Displays the state of the standalone switch or specified stack members.
	status	Displays the status of the standalone switch or specified stack members.
	temperature	Displays the temperature of the standalone switch or specified stack members.
	uptime	Displays the time at which the standalone switch or specified stack members start, the reason the standalone switch or specified members restart, and the length of time the standalone switch or specified stack members have been running since they last restarted.

Command Modes

voltage	Displays the system voltages of the standalone switch or the specified switch stack members.		
continuous	(Optional) Displays the data in the continuous file.		
detail	(Optional) Displays both the continuous and summary data.		
summary	(Optional) Displays the data in the summary file.		
start hh:mm:ss day month year	(Optional) Displays the data from the specified time and date. Enter the time as a 2-digit number for a 24-hour clock. Make sure to use the colons (:), for example, 13:32:45. The range of day is from 1 to 31. The month in upper case or lower case letters. You can enter the full name of the month, such as January or august, or the first three letters of the month, such as jan or Aug. The year is a 4-digit number, such as 2008. The range is from 1970 to 2099.		
end hh:mm:ss day month year	(Optional) Displays the data up to the specified time and date. Enter the time as a 2-digit number for a 24-hour clock. Make sure to use the colons (:), for example, 13:32:45. The range of day is from 1 to 31. The month in upper case or lower case letters. You can enter the full name of the month, such as January or august, or the first three letters of the month, such as jan or Aug. The year is a 4-digit number, such as 2008. The range is from 1970 to 2099.		

Command History	Release	Modification			
	Cisco IOS XE Fuji 16.9.1	This command was introduced.			
Usage Guidelines	When OBFL is enabled, the switch records the OBFL data in a continuous file that contains all the data. The continuous file is circular. When the continuous file is full, the switch combines the data into a summary file, which is also known as a historical file. Creating the summary file frees up space in the continuous file so that the switch can write newer data to it.				
	Use the start and end l	keywords to display the data collec	eted only during a particular time period.		
Examples	This is a sample output Device# show loggin	t of the show logging onboard swi g onboard switch 1 RP active	itch 1 RP active message command: message		
	ERROR MESSAGE SUMMA	RY INFORMATION			
	MM/DD/YYYY HH:MM:SS	Facility-Sev-Name Count	Persistence Flag		
	07/06/2018 00:45:23 07/06/2018 00:19:57 07/07/2018 11:36:10 in TenGigabitEther: 05/03/2018 05:49:57 from TenGigabitEth	<pre>%IOSXE-2-DIAGNOSTICS_FAILED %IOSXE-2-DIAGNOSTICS_PASSED %IOSXE-2-TRANSCEIVER_INSERTE net1/2/0/5 %IOSXE-2-TRANSCEIVER_REMOVED ernet1/2/0/7</pre>	: >254 LAST Diagnostics Thermal failed : >254 LAST Diagnostics Fantray passed D : >254 LAST Transceiver module inserted : 82 : LAST : Transceiver module removed		

07/07/2018 08:20:36 %IOSXE-2-SPA_REMOVED : >254 LAST SPA removed from subslot 14/0 07/06/2018 01:50:33 %IOSXE-2-SPA_INSERTED : >254 LAST SPA inserted in subslot 11/0 This is a sample output of the **show logging onboard switch 1 slot 4 status** command: Device# show logging onboard switch 1 slot 4 status _____ OBFL Application Status _____ Application Uptime: Path: /obfl0/ Cli enable status: enabled Application Message: Path: /obfl0/ Cli enable status: enabled Application Voltage: Path: /obfl0/ Cli enable status: enabled Application Temperature: Path: /obfl0/ Cli enable status: enabled Application POE: Path: /obfl0/ Cli enable status: enabled Application Environment: Path: /obfl0/ Cli enable status: enabled Application Counter: Path: /obfl0/ Cli enable status: enabled Application Clilog: Path: /obfl0/

This is a sample output of the show logging onboard switch 1 slot 4 state command:

Device# show logging onboard switch 1 slot 4 state

Cli enable status: enabled

GREEN

Related Commands

Command	Description	
clear logging onboard	Removes the OBFL data from flash memory.	
hw-module logging onboard	Enables OBFL.	

show platform software fed

To display the per port SDP/LMP control packet exchange history between FED and Network Interface Manager (NIF Mgr) software processes, use the **show platform software fed** command in privileged EXEC mode.

show platform software fed switch {switch-number | active | standby} fss {counters
| interface-counters interface {interface-type interface-number} | Imp-packets interface {interface-type
interface-number} | sdp-packets

Syntax Description	<pre>switch {switch-number active standby}</pre>	Displays information about the switch. You have the following options: • <i>switch-number</i>				
		• active—Displays information re	elating to the active switch.			
		• standby—Displays information	relating to the standby switch, if available.			
		Note This keyword is no	t supported.			
	fss	Specifies information about Front Sid	de Stacking (FSS).			
	counters	Displays the number of TX and RX p LOOPBACK types.	backets of SDP, LMP, OOB1/2, EMP and			
	interface-counters	Displays the number of TX and RX packets for all the interfaces. You can filter the output to display for a particular SVL interface using the interface-counters interface { <i>interface-type interface-number</i> } command.				
	Imp-packets	Displays details of LMP packet transactions between FED and NIF Manager for all the SVL interfaces. You can filter the output to display for a particular SVL interface using the Imp-packets interface { <i>interface-type interface-number</i> } command.				
	sdp-packets	Displays details of SDP packets transmitted between FED and NIF Manager for all the SVL interfaces.				
Command Default	None					
Command Modes	Privileged EXEC (#)					
Command History	Release	Modification				
	Cisco IOS XE Gibraltar 16.10.1 This command was introduced.					
Jsage Guidelines By default, the output of show platform software fed switch active fss sdp-packets command displa packet cache count of 10. You can set the packet cache count per port to a maximum of 600 using the so platform software fed switch command.						

Example

The following is sample output from the **show platform software fed switch active fss lmp-packets interface***interface-type interface-number* command.

 ${\tt Device}\#$ show platform software fed switch active fss lmp-packets interface fortygigabitethernet1/0/1

```
Interface: fortygigabitethernet1/0/1 IFID:0x1d
FED FSS LMP packets max 10:
```

FED	>	Nif	E Mgr				
Timestamp				Local LPN	Peer LPN	Seq Num	
Tue	Sep	18	12:45:13	2018	11	11	4329
Tue	Sep	18	12:45:14	2018	11	11	4330

The following is sample output from the **show platform software fed switch active fss sdp-packets** command.

```
Device# show platform software fed switch active fss sdp-packets
FED FSS SDP packets max 10:
```

FED->	Nif	Mgr	
Timest	amp	Src	Mac

'l'imestamp		Src Mac	Dst Mac.	Seq Num
Thu Oct	4 05:54:04 2018	e4aa:5d54:8aa8	ffff:fff:ffff	262
Thu Oct	4 05:54:08 2018	e4aa:5d54:8aa8	ffff:ffff:ffff	263
Thu Oct	4 05:54:12 2018	e4aa:5d54:8aa8	ffff:ffff:ffff	264

The following is sample output from the **show platform software fed switch active fss counters** command.

SDP				LMP		
ΤX		RX		TX	RX	
149	3	1494		4988	4988	
		OOB1			00B2	
ТΧ	I	RX		TX	RX	
22		8		134858	133833	
		EMP				
ТΧ	I	RX		LO	DOPBACK	
0			0		71	

Device# show platform software fed switch active fss counters FSS Packet Counters

The following is sample output from the **show platform software fed switch active fss interface-counters interface** *interface-type interface-number* command.

 ${\tt Device}\#$ show platform software fed switch active fss interface-counters fortygigabitethernet1/0/1

Related Commands

Command	Description
set platform software fed switch	Configures the per port packet cache count for an SVL interface.

show platform software nif-mgr switch

To display the control packet exchange history between the Network Interface Manager software process (NIF Mgr) and the StackWise Virtual Link (SVL) interfaces, use the **show platform software nif-mgr switch** command in privileged EXEC mode.

show platform software nif-mgr switch {switch-number | active | standby} R0{counters [lpn lpn-index] | packets [lpn lpn-index] | switch-info}

show platform software nif-mgr switch {switch-number | active | standby}
R0counters{slotslot-number }{port port-number }packets{slotslot-number }{port port-number
}{switch-info}

Syntax Description	<pre>switch {switch-number active standby}</pre>	Displays information about the switch. You have the following options: • <i>switch-number</i> .				
		 active —Displays information relating to the active switch. standby—Displays information relating to the standby switch, if available. Note This keyword is not supported. 				
	R0 Displays information about the Route Processor (RP) slot 0.					
	counters Displays the number of TX and RX packets of LMP and SDP type.					
	lpn lpn-index	Specifies the local port number (LPN). The range is 1 to 96.				
	Use the show platform software nif-mgr switch active R0 switch-info command for information about <i>lpn-index</i> .					
	packetsDisplays the details of TX and RX packets of LMP and SDP type.					
	switch-info	info Displays information about NIF Manager operational database.				
Command Default	None					
Command Modes	Privileged EXEC (#)					
Command History	Release	Modification				
	Cisco IOS XE Gibraltar 16.	10.1 This command was introduced.				
Usage Guidelines	The output of the show pla t for LMP and SDP packets t	tform software nif-mgr switch active R0 counters command displays counters that are transmitted.				
	The output of the show pla SVL links details and the p	tform software nif-mgr switch active R0 switch-info command displays the rotocol flap count on each of the links.				
	• LMP to FED					

- SDP to FED
- FED to LMP
- FED to SDP
- Stack Manager to SDP
- SDP to Stack Manager

The output of the **show platform software nif-mgr switch active R0 packets** command displays the timestamp details of the LMP and SDP packets transmitted.

- · Timestamp of last 10 LMP frames from FED
- · Timestamp of last 10 LMP frames to FED
- Timestamp of last 10 SDP frames from Stack manager
- · Timestamp of last 10 SDP frames to Stack manager

By default, the packet cache count per SVL port during bootup is 10. To set the packet cache count per port, use the **set platform software nif-mgr switch** command.

Example

The following is sample output from the **show platform software nif-mgr switch active R0 counters** command.

Device# show platform software nif-mgr switch active R0 counters NIF Manager Counters Counters: ***** Stack Link : 1 FED to NIF Mar -----Number of LMP RX Packets : 749 NIF Mgr to FED _____ Number of LMP TX Packets : 758 Stack Link : 2 _____ FED to NIF Mgr _____ Number of LMP RX Packets : 0 NIF Mgr to FED Number of LMP TX Packets : 0 NIF Mgr to Stack Mgr _____ Number of SDP Success Packets - 1854 Number of SDP Fail Packets - 0 Stack Mgr to NIF Mgr Number of SDP Success Packets - 1850 Number of SDP Fail Packets - 0

The following is sample output from the **show platform software nif-mgr switch active R0 counters Ipn** *lpn-index* command.

The following is sample output from the **show platform software nif-mgr switch active R0 packets** command.

Device# show platform software nif-mgr switch active R0 packets NIF manager packets max 10:

```
Stack Link : 1
LMP
 ____
          _____
FED->
Nif Mgr
                                               Local Peer
Timestamp
                                                                       Sea
                                               LPN LPN
                                                                       Num
_____

        Wed Jun 20
        02:20:49
        2018
        3
        3
        1050

        Wed Jun 20
        02:20:50
        2018
        3
        3
        1051

        Wed Jun 20
        02:20:41
        2018
        3
        3
        1042

        Wed Jun 20
        02:20:42
        2018
        3
        3
        1043

        Wed Jun 20
        02:20:42
        2018
        3
        3
        1044

        Wed Jun 20
        02:20:44
        2018
        3
        3
        1045

Wed Jun 20 02:20:45 2018
                                            3
                                                         3
                                                                     1046
                                                        3 1047
3 1048
3 1049
Wed Jun 20 02:20:46 2018
                                            3
Wed Jun 20 02:20:47 2018
                                             3
3
Wed Jun 20 02:20:48 2018
Nif Mgr->
FED
                                 Local Peer Seq
Timestamp
                                                                     Num
                                             LPN LPN
 _____
Wed Jun 20 02:20.35
Wed Jun 20 02:20:50 2018 3
Wed Jun 20 02:20:41 2018 3
Wed Jun 20 02:20:42 2018 3
Wed Jun 20 02:20:43 2018 3
Co.44 2018 3

        Wed Jun 20 02:20:49 2018
        3
        3
        1050

        Wed Jun 20 02:20:50 2018
        3
        3
        1051

                                                        3
                                                                     1042
                                                                     1043
                                                         3
3
                                                                        1044
                                                         3
                                                                      1045
                                             3
                                                         3
Wed Jun 20 02:20:45 2018
                                                                      1046
                                                         3
Wed Jun 20 02:20:46 2018
                                             3
                                                                      1047

        Wed Jun 20 02:20:47 2018
        3
        3
        1048

        Wed Jun 20 02:20:48 2018
        3
        3
        1049

SDP
 _____
Nif Mgr->
Stack Mgr
Timestamp
                                               Src Mac
                                                                     Dst Mac
                                                                                           Seq Num
 _____
Wed Jun 20 02:20:40 2018
                                             40ce:2499:aa90 ffff:ffff:ffff 320
```

Wed	Jun	20	02:20:44	2018	40ce:2499:aa90	<pre>ffff:fff:fff</pre>	321
Wed	Jun	20	02:20:48	2018	40ce:2499:aa90	<pre>ffff:fff:fff</pre>	322
Wed	Jun	20	02:20:12	2018	40ce:2499:aa90	<pre>ffff:fff:fff</pre>	313
Wed	Jun	20	02:20:16	2018	40ce:2499:aa90	<pre>ffff:fff:fff</pre>	314
Wed	Jun	20	02:20:20	2018	40ce:2499:aa90	<pre>ffff:fff:fff</pre>	315
Wed	Jun	20	02:20:24	2018	40ce:2499:aa90	<pre>ffff:fff:fff</pre>	316
Wed	Jun	20	02:20:28	2018	40ce:2499:aa90	<pre>ffff:fff:fff</pre>	317
Wed	Jun	20	02:20:32	2018	40ce:2499:aa90	<pre>ffff:fff:fff</pre>	318
Wed	Jun	20	02:20:36	2018	40ce:2499:aa90	<pre>ffff:fff:fff</pre>	319
Stad	ck Mo	gr->	>				
Nif	Mgr						
Time	estan	np			Src Mac	Dst Mac	Seq Num
Time Wed	estan Jun	np 20	02:20:17	2018	Src Mac 40ce:2499:a9d0	Dst Mac ffff:fff:fff	Seq Num 310
Time Wed Wed	estan Jun Jun	np 20 20	02:20:17 02:20:21	2018 2018	Src Mac 40ce:2499:a9d0 40ce:2499:a9d0	Dst Mac ffff:ffff:ffff ffff:ffff:ffff	Seq Num 310 311
Time Wed Wed Wed	estan Jun Jun Jun Jun	np 20 20 20	02:20:17 02:20:21 02:20:25	2018 2018 2018 2018	Src Mac 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0	Dst Mac ffff:fff:ffff ffff:fff:ffff ffff:fff:f	Seq Num 310 311 312
Time Wed Wed Wed Wed	Jun Jun Jun Jun Jun Jun	np 20 20 20 20	02:20:17 02:20:21 02:20:25 02:20:29	2018 2018 2018 2018 2018	Src Mac 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0	Dst Mac ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff	Seq Num 310 311 312 313
Time Wed Wed Wed Wed Wed	Jun Jun Jun Jun Jun Jun Jun	np 20 20 20 20 20	02:20:17 02:20:21 02:20:25 02:20:29 02:20:33	2018 2018 2018 2018 2018 2018	Src Mac 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0	Dst Mac ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff	Seq Num 310 311 312 313 314
Time Wed Wed Wed Wed Wed Wed	Jun Jun Jun Jun Jun Jun Jun Jun	np 20 20 20 20 20 20	02:20:17 02:20:21 02:20:25 02:20:29 02:20:33 02:20:37	2018 2018 2018 2018 2018 2018 2018	Src Mac 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0	Dst Mac ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff	Seq Num 310 311 312 313 314 315
Time Wed Wed Wed Wed Wed Wed	Jun Jun Jun Jun Jun Jun Jun Jun	np 20 20 20 20 20 20 20	02:20:17 02:20:21 02:20:25 02:20:29 02:20:33 02:20:37 02:20:41	2018 2018 2018 2018 2018 2018 2018 2018	Src Mac 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0	Dst Mac ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff	Seq Num 310 311 312 313 314 315 316
Time Wed Wed Wed Wed Wed Wed Wed	Jun Jun Jun Jun Jun Jun Jun Jun Jun	np 20 20 20 20 20 20 20 20	02:20:17 02:20:21 02:20:25 02:20:29 02:20:33 02:20:37 02:20:41 02:20:45	2018 2018 2018 2018 2018 2018 2018 2018	Src Mac 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0	Dst Mac ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff	Seq Num 310 311 312 313 314 315 316 317
Time Wed Wed Wed Wed Wed Wed Wed Wed	Jun Jun Jun Jun Jun Jun Jun Jun Jun Jun	np 20 20 20 20 20 20 20 20 20 20	02:20:17 02:20:21 02:20:25 02:20:29 02:20:33 02:20:37 02:20:41 02:20:45 02:20:49	2018 2018 2018 2018 2018 2018 2018 2018	Src Mac 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0 40ce:2499:a9d0	Dst Mac ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff ffff:ffff:ffff	Seq Num 310 311 312 313 314 315 316 317 318

Related Commands	Command	Description
	set platform software nif-mgr switch	Configures the per port packet cache count for an SVL interface.

show stackwise-virtual

To display your Cisco StackWise Virtual configuration information, use the show stackwise-virtual command.

show stackwise-virtual { [switch [switch number <1-2>] {link | bandwidth | neighbors | dual-active-detection} }

Syntax Description	switch number		(Optional) Displays information of a particular switch in the stack.			
	link		Displays Stackwise Virtual link information.			
	bandwidth		Displays bandwidth availability for StackWise Virtual.			
	neighbors		Displays Stackwise Virtual neighbors.			
	dual-active-detection		Displays Stackwise-Virtual dual-active-detection information.			
Command Default	- None					
Command Modes	Privileged EXEC (#)					
Command History	Release	Modification				
	Cisco IOS XE Everest 16.6.1	This command was introduced.				
	Example:					
	The following is a sample output from the show stackwise-virtual command:					
	Device# show stackwise-virtual					
	Stackwise Virtual: <en Domain Number: <do Switch Stackwise Vi</do </en 	abled/Disabled> main Number> rtual Link Ports				
	1 1 2 2 1 2	Tengigabitether Tengigabitether Tengigabitether Tengigabitether Tengigabitether	net1/0/4 net1/0/5 net2/0/4 net2/0/5			
	The following is a sample output from the show stackwise-virtual link command:					
	Device# show stackwise	-virtual link				
	Stackwise Virtual Link	(SVL) Information:				
	Flags:					

R

Link St	atus			
U-Up D-	Down			
Protoco	l Status			
S-Suspe	nded P-P	ending E-Error T-Timeout R-Ready	/	
Switch	SVL	Ports	Link-Status	Protocol-Status
1	1	FortyGigabitEthernet1/1/1	U	R

U

The following is a sample output from the show stackwise-virtual bandwidth command:

FortyGigabitEthernet2/1/1

```
Device# show stackwise-virtual bandwidth
```

Switch Bandwidth 1 160 2 160

1

2

The following is a sample output from the show stackwise-virtual neighbors command:

Device#show stackwise-virtual neighbors

Switch	Number	Local Interface	Remote Interface
1		Tengigabitethernet	1/0/1 Tengigabitethernet2/0/1
		Tengigabitethernet1/0/2	Tengigabitethernet2/0/2
2		Tengigabitethernet2/0/1	Tengigabitethernet1/0/1
		Tengigabitethernet2/0/2	Tengigabitethernet2/0/2

The following is a sample output from the **show stackwise-virtual dual-active-detection** command:

Device#show stackwise-virtual dual-active-detection

Stackwise Virtual Switch Number	Dual-Active-Detection (DAD) Configuration: Dual-Active-Detection Interface
1	Tengigabitethernet1/0/10
2	Tengigabitethernet2/0/12 Tengigabitethernet2/0/13
Stackwise Virtual Switch Number	Dual-Active-Detection (DAD) Configuration After Reboot: Dual-Active-Detection Interface
1	Tengigabitethernet1/0/10
2	Tengigabitethernet1/0/11 Tengigabitethernet2/0/12 Tengigabitethernet2/0/13

I