

E Commands

The commands in this chapter apply to the Cisco MDS 9000 Family of multilayer directors and fabric switches. All commands are shown here in alphabetical order regardless of command mode. See "About the CLI Command Modes" section on page 1-3 to determine the appropriate mode for each command.

egress-sa

To configure the Security Association (SA) to the egress hardware, use the **engress-sa** command. To delete the SA from the egress hardware, use the **no** form of the command.

engress-sa spi-number

no engress-sa spi-number

Syntax Description	spi-number	The range is from 256 to 4294967295.
Defaults	None.	
Command Modes	Configuration submod	le.
Command History	Release	Modification
	NX-OS 4.2(1)	This command was introduced.
Usage Guidelines	None.	
Examples	switch# config term	commands, one per line. End with CNTL/Z. erface fc 2/1 - 3 fcsp esp manual p)# egress-sa 258
Related Commands	Command	Description
	show fcsp interface	Displays FC-SP-related information for a specific interface.

email-contact

To configure an e-mail contact with the Call Home function, use the **email-addr** command in Call Home configuration submode. To disable this feature, use the **no** form of the command.

email-addr email-address

no email-addr email-address

Syntax Description	email-address	Configures an e-mail address. Uses a standard e-mail address that does not have any text size restrictions.
Defaults	None.	
Command Modes	Call Home configu	ration submode.
Command History	Release	Modification
	1.0(2)	This command was introduced.
Usage Guidelines	None.	
Examples	The following example shows how to configure e-mail contact in the Call Home configuration: switch# config terminal Enter configuration commands, one per line. End with CNTL/Z. switch(config)# callhome switch(config-callhome)# email-contact username@company.com	
Related Commands	Command	Description
	callhome	Configures the Call Home function.
	callhome test	Sends a dummy test message to the configured destination(s).

Displays configured Call Home information.

show callhome

enable

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enable

To turn on the privileged commands, use the **enable** command. To disable this feature, use the disable command.

enable privilege-level

Syntax Description	privilege-level	Specifies privilege level. Default value is 15.
Defaults	Enabled.	
Command Modes	EXEC mode.	
Command History	Release	Modification
	NX-OS 5.0(1a)	This command was introduced.
Usage Guidelines	None.	
Examples	The following exan	nple shows how to turn on the privileged commands:
·	switch# enable 15 switch#	
Related Commands	Command	Description
	enable secret	Displays the secret for privilege escalation.

enable (Call Home configuration submode)

To enable the Call Home function, use the **enable** command in Call Home configuration submode. To disable this feature, use the **disable** command.

enable

Syntax Description	This command has	no arguments or keywords.
Defaults	None.	
Command Modes	Call Home configu	ration submode.
Command History	Release	Modification
	1.0(2)	This command was introduced.
Examples	The following exar	nple shows how to enable the Call Home function.
Examples	switch# config to	on commands, one per line. End with CNTL/Z. callhome
Related Commands	Command	Description
	callhome	Configures the Call Home function.
	callhome test	Sends a dummy test message to the configured destination(s).
	show callhome	Displays configured Call Home information.

enable user-server-group

To enable or disable group validation, use the **enable user-server-group** command. To disable this feature, use the **no** form of the command.

enable user-server-group

	no enable user-serv	/er-group
Syntax Description-	This command has no an	guments or keywords.
Defaults	None.	
Command Modes	Configuration submode.	
Command History	Release NX-OS 5.0	Modification This command was introduced.
Usage Guidelines	None.	
Examples		shows how to enable group validation: enable user-server-group
Related Commands	Command	Description
	show ldap-server groups	Displays the configured LDAP server groups.

enable secret

To create secret for privilege escalation, use the **enable secret** command. To disable this feature, use the **no** form of the command.

enable secret {0 | 5} [password priv-lvl privilege-level]

no enable secret {0 | 5} [*password* **priv-lvl** *privilege-level*]

Syntax Description	0	Specifies that the secret that follows should be in clear text.
	5	Specifies that the secret that follows should be encrypted.
	password	(Optional) Specifies that the secret for user privilege escalation.
	priv-lvl	(Optional) Specifies the privilege level to which the secret belongs.
	privilege-level	(Optional) Specifies the privilege level. Default value is 15.
efaults	Enabled.	
mmand Modes	Configuration mode	
ommand History	Release	Modification
	NX-OS 5.0(1a)	This command was introduced.
sage Guidelines	None.	
-		ple shows how to specify the secret that follows should be in clear text:
-	The following exam	ple shows how to specifiy the secret that follows should be in clear text: nable secret 0 admin priv-lvl 4
-	The following exam switch(config)# ex switch(config)#	
Jsage Guidelines Examples	The following exam switch(config)# ex switch(config)# The following exam	nable secret 0 admin priv-lvl 4
-	The following exam switch(config)# ex switch(config)# The following exam switch(config)# ex	mable secret 0 admin priv-lvl 4

enable cert-DN-match

To enable or disable cert DN matching, use the **enable cert-DN-match** command. To disable this feature, use the **no** form of the command.

enable cert-DN-match

no enable cert-DN-match

	no enable cert-Di	-match
Syntax Description-	This command has no a	arguments or keywords.
Defaults	None.	
Command Modes	Configuration submode	e.
Command History	Release	Modification
	NX-OS 5.0(1a)	This command was introduced.
Usage Guidelines	If Cert-DN match is con the usercertificate as aut	figured, user will be allowed to login only if the user profile lists the subject-DN of thorized for logging in.
Examples	The following example shows how to enable cert DN match: switch(config-ldap)# enable cert-dn-match switch(config-ldap)#	
Related Commands	Command	Description
	show ldap-server groups	Displays the configured LDAP server groups.

encryption

To configure an encryption algorithm for an IKE protocol policy, use the **encryption** command. To revert to the default, use the **no** form of the command.

encryption {3des | aes | des}

no encryption

Syntax Description	1	ecifies 168-bit DES (3DES).	
	aes Sp	ecifies 128-bit AES-CBC.	
	des Sp	ecifies 56-bit DES-CBS.	
Defaults	3des		
ommand Modes	IKE policy configuration sub	mode.	
Command History	Release Mo	odification	
Jsage Guidelines		is command was introduced. E protocol must be enabled using the crypto ike enable command.	
	To use this command, the IK	E protocol must be enabled using the crypto ike enable command.	
Jsage Guidelines Examples	To use this command, the IK The following example show switch# config terminal switch(config)# crypto ik switch(config-ike-ipsec)#	E protocol must be enabled using the crypto ike enable command. s how to configure the encryption algorithm for the IKE protocol: e domain ipsec policy 1	
Examples	To use this command, the IK The following example show switch# config terminal switch(config)# crypto ik switch(config-ike-ipsec)# switch(config-ike-ipsec-p	E protocol must be enabled using the crypto ike enable command. s how to configure the encryption algorithm for the IKE protocol: e domain ipsec policy 1 policy)# encryption 3des	
xamples	To use this command, the IK The following example show switch# config terminal switch(config)# crypto ik switch(config-ike-ipsec)# switch(config-ike-ipsec-po	E protocol must be enabled using the crypto ike enable command. s how to configure the encryption algorithm for the IKE protocol: e domain ipsec policy 1 policy)# encryption 3des Description	
	To use this command, the IK The following example show switch# config terminal switch(config)# crypto ik switch(config-ike-ipsec)# switch(config-ike-ipsec-period Command crypto ike domain ipsec	E protocol must be enabled using the crypto ike enable command. s how to configure the encryption algorithm for the IKE protocol: e domain ipsec policy 1 olicy) # encryption 3des Description Enters IKE configuration mode.	
xamples	To use this command, the IK The following example show switch# config terminal switch(config)# crypto ik switch(config-ike-ipsec)# switch(config-ike-ipsec-po Command crypto ike domain ipsec crypto ike enable	E protocol must be enabled using the crypto ike enable command. s how to configure the encryption algorithm for the IKE protocol: e domain ipsec policy 1 policy) # encryption 3des Description Enters IKE configuration mode. Enables the IKE protocol.	
Examples	To use this command, the IK The following example show switch# config terminal switch(config)# crypto ik switch(config-ike-ipsec)# switch(config-ike-ipsec-period Command crypto ike domain ipsec	E protocol must be enabled using the crypto ike enable command. s how to configure the encryption algorithm for the IKE protocol: e domain ipsec policy 1 bolicy) # encryption 3des Description Enters IKE configuration mode. Enables the IKE protocol. Configures IKE policy parameters.	

end

end

To exit any of the configuration modes and return to EXEC mode, use the **end** command in configuration mode.

end

Syntax Description This command has no arguments or keywords.

Defaults

None.

Command Modes Configuration mode.

Command History	Release	Modification
	4.1(1b)	Modified the command output.
	1.0(2)	This command was introduced.

Usage Guidelines You can also press **Ctrl-Z** to exit configuration mode.

Examples The following example shows how to exit from configure mode:

switch(config-port-monitor)# end
switch#

The following example changes the name to george. Entering the **end** command causes the system to exit configuration mode and return to EXEC mode.

switch(config)# hostname george
george(config)# end
switch#

Related Commands	Command	Description
	exit	Exits configuration mode, or any of the configuration modes.

enrollment terminal

To enable manual cut-and-paste certificate enrollment through the switch console, use the **enrollment terminal** command in trust point configuration submode. To revert to the default certificate enrollment process, use the **no** form of the command.

enrollment terminal

no enrollment	terminal
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Defaults The default enrollment method is manual cut-and-paste, which is the only enrollment method that the MDS switch currently supports.

Command Modes Trust point configuration submode.

Command History	Release	Modification
	3.0(1)	This command was introduced.

Usage Guidelines None.

Examples The following example shows how to configure trust point enrollment through the switch console:

switch# config terminal
switch(config)# crypto ca trustpoint admin-ca
switch(config-trustpoint)# enrollment terminal

The following example shows how to discard a trust point enrollment through the switch console:

switch(config)# crypto ca trustpoint admin-ca
switch(config-trustpoint)# no enrollment terminal

Related Commands	Command	Description
	crypto ca authenticate	Authenticates the certificate of the certificate authority.

errdisable detect cause link-down

To error-disable and bring down a port on a link failure, use the **errdisable detect cause link-down** command. To disable this feature, use the **no** form of the command.

errdisable detect cause link-down num-times {flaps number} duration{sec}

no errdisable detect cause link-down num-times {flaps number} duration{sec}

Syntax Description	num-times	Specifies the flap number.
	flaps number	Specifies the number of flaps. The range is from 1 to 1023.
	duration	Specifies the time in seconds.
	sec	The range is from 1 to 2000000.
Defaults	None.	
Command Modes	Interface Conf	figuration mode.
Command History	Release	Modification
	NX-OS 4.1(3)) This command was introduced.
Usage Guidelines	The port guard feature is used in the environments where the system and application does not adapt quickly and efficiently to a port going down and back up or to a port rapidly cycling up and down which can happen in some failure modes. For example, if the port is going up and down once a second, and the system takes five seconds to stabilize after the port goes down, this situation might cause a more severe failure in the fabric.	
	environments first failure, or	d feature gives the SAN administrator the ability to prevent this issue from occuring in that are vulnerable to these problems. The port can be configured to stay down after the r after a specified number of failures in a specified time period. This allows the SAN in to intervene and control the recovery and avoiding any problems caused by the cycling.
Examples	The following	example shows how to configure the port as down when the link flaps once:
	Switch# configure terminal Switch (config)# interface fc1/1 Switch (config-if)# errdisable detect cause link-down	
	The following seconds:	example shows how to configure the port as down when the link flaps 5 times in 30
	Switch# configure terminal Switch (config)# interface fc1/1 Switch (config-if)# errdisable detect cause link-down num-times 5 duration 30	

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The following example shows how to remove the port guard feature on the interface:

```
Switch# config t
Switch (config)# interface fc1/1
Switch (config-if)# no errdisable detect cause link-down
switch(config)#
```

```
Related Commands
```

Command	Description
device-alias commit	Commits changes to the active device alias database.
device-alias database	Configures and activates the device alias database.
show device-alias	Displays device alias information.

errdisable detect cause bit-errors

To enable error-disable detection on bit errors, use the **errdisable detect cause bit-errors** command. To disable this feature, use the **no** form of the command.

errdisable detect cause bit-errors num-times {flaps number} duration {sec}

no errdisable detect cause bit-errors num-times {*flaps number*} **duration** {*sec*}

Syntax Description	num-times	Specifies the number of flaps.	
	flaps number	Specifies the number of flaps. The range is from 1 to 1023.	
	duration	Specifies the time in seconds.	
	sec	The range is from 1 to 2000000.	
Defaults	None.		
Command Modes	Interface Configuration mode.		
Command History	Release	Modification	
	NX-OS 4.2(1)	This command was introduced.	
	can happen in some failure modes. For example, if the port is going up and down once a second, and the system takes five seconds to stabilize after the port goes down, this situation might cause a more severe failure in the fabric. The port guard feature gives the SAN administrator the ability to prevent this issue from occuring in environments that are vulnerable to these problems. The port can be configured to stay down after the first failure, or after a specified number of failures in a specified time period. This allows the SAN administration to intervene and control the recovery and avoiding any problems caused by the cycling.		
Examples	Switch# configur Switch (config)#	interface fc1/1 f) f errdisable detect cause bit-errors num-times 5 duration 30	
Related Commands	Command	Description	
	device-alias comr	•	

Command	Description
device-alias database	Configures and activates the device alias database.
show device-alias	Displays device alias information.

errdisable detect cause credit-loss

To enable error-disable detection on a credit loss, use the **errdisable detect cause credit-loss** command. To disable this feature, use the **no** form of the command.

errdisable detect cause credit-loss num-times {flaps number} duration {sec}

no errdisable detect cause credit-loss num-times {*flaps number*} **duration** {*sec*}

Syntax Description	num-times	Specifies the flap number.
	flaps number	Specifies the number of flaps. The range is from 1 to 1023.
	duration	Specifies the time in seconds.
	sec	The range is from 1 to 2000000.
Defaults	None.	
Command Modes	Interface Configura	ation mode.
Command History	Release	Modification
	NX-OS 4.2(1)	This command was introduced.
Usage Guidelines	quickly and efficient can happen in some	ture is used in the environments where the system and application does not adapt ntly to a port going down and back up or to a port rapidly cycling up and down which e failure modes. For example, if the port is going up and down once a second, and the econds to stabilize after the port goes down, this situation might cause a more severe c.
	environments that a first failure, or afte	ture gives the SAN administrator the ability to prevent this issue from occuring in are vulnerable to these problems. The port can be configured to stay down after the er a specified number of failures in a specified time period. This allows the SAN intervene and control the recovery and avoiding any problems caused by the cycling
Examples	Switch# configure Switch (config)#	interface fc1/1 f) f errdisable detect cause credit-loss num-times 5 duration 30

Related Commands	Command	Description	
	device-alias commit	Commits changes to the active device alias database.	
	device-alias database	Configures and activates the device alias database.	
	show device-alias	Displays device alias information.	

errdisable detect cause link-reset

To enable error-disable detection on a link reset, use the **errdisable detect cause link-reset** command. To disable this feature, use the **no** form of the command.

errdisable detect cause link-reset num-times {number} duration {sec}

no errdisable detect cause link-reset num-times {*number*} **duration** {*sec*}

Syntax Description	num-times	Specifies the flap number.
	flaps number	Specifies the number of flaps. The range is from 1 to 1023.
	duration	Specifies the time in seconds.
	sec	The range is from 1 to 2000000.
Defaults	None.	
Command Modes	Interface Configura	ation mode.
Command History	Release	Modification
	NX-OS 4.2(1)	This command was introduced.
Usage Guidelines	quickly and efficient can happen in some	ture is used in the environments where the system and application does not adapt ntly to a port going down and back up or to a port rapidly cycling up and down which e failure modes. For example, if the port is going up and down once a second, and the econds to stabilize after the port goes down, this situation might cause a more severe c.
	The port guard feat environments that a first failure, or afte	ture gives the SAN administrator the ability to prevent this issue from occuring in are vulnerable to these problems. The port can be configured to stay down after the r a specified number of failures in a specified time period. This allows the SAN intervene and control the recovery and avoiding any problems caused by the cycling.
Examples	Switch# configure Switch (config)#	interface fc1/1 E) $\#$ errdisable detect cause link-reset num-times 5 duration 30

Related Commands

Command	Description
device-alias commit	Commits changes to the active device alias database.
device-alias database	Configures and activates the device alias database.
show device-alias	Displays device alias information.

errdisable detect cause signal-loss

To enable error-disable detection on a signal loss, use the **errdiable detect cause signal-loss** command. To disable this feature, use the **no** form of the command.

errdisable detect cause signal-loss num-times {number} duration {sec}]

no errdisable detect cause signal-loss num-times {number} duration {sec}]

Syntax Description	num-times	Specifies the flap number.	
	flaps number	Specifies the number of flaps. The range is from 1 to 1023.	
	duration	Specifies the time in seconds.	
	sec	The range is from 1 to 2000000.	
Defaults	None.		
Command Modes	Interface Configura	ation mode.	
Command History	Release	Modification	
	NX-OS 4.2(1)	This command was introduced.	
Usage Guidelines	quickly and efficien can happen in some system takes five so failure in the fabric		
	The port guard feature gives the SAN administrator the ability to prevent this issue from occuring in environments that are vulnerable to these problems. The port can be configured to stay down after the first failure, or after a specified number of failures in a specified time period. This allows the SAN administration to intervene and control the recovery and avoiding any problems caused by the cycling.		
Examples	The following exar	nple shows how to enable error-disable on a signal loss:	
	Switch# configure Switch (config)# Switch (config-if Switch (config-if	<pre>interface fc1/1) # errdisable detect cause signal-loss num-times 5 duration 30</pre>	

Related Commands

Command	Description
device-alias commit	Commits changes to the active device alias database.
device-alias database	Configures and activates the device alias database.
show device-alias	Displays device alias information.

errdisable detect cause sync-loss

To enable error-disable detection on a sync loss, use the **errdisable detect cause sync-loss** command. To disable this feature, use the **no** form of the command.

errdisable detect cause sync-loss num-times {number} duration {sec}

no errdisable detect cause sync-loss num-times {number} duration {sec}

Syntax Description	num-times	Specifies the flap number.
	flaps number	Specifies the number of flaps. The range is from 1 to 1023.
	duration	Specifies the time in seconds.
	sec	The range is from 1 to 2000000.
Defaults	None.	
Command Modes	Interface Conf	ïguration mode.
Command History	Release	Modification
	NX-OS 4.2(1)) This command was introduced.
Usage Guidelines	quickly and efficient can happen in	I feature is used in the environments where the system and application does not adapt ficiently to a port going down and back up or to a port rapidly cycling up and down which some failure modes. For example, if the port is going up and down once a second, and the ive seconds to stabilize after the port goes down, this situation might cause a more severe fabric.
	environments first failure, or	I feature gives the SAN administrator the ability to prevent this issue from occuring in that are vulnerable to these problems. The port can be configured to stay down after the after a specified number of failures in a specified time period. This allows the SAN n to intervene and control the recovery and avoiding any problems caused by the cycling.
Examples	The following	example shows how to enable error-disable detection on a syncronised loss:
	Switch (confi	igure terminal ig)# interface fc1/1 ig-if)# errdisable detect cause sync-loss num-times 5 duration 30 ig-if)#

Related Commands	Command	Description	
	device-alias commit	Commits changes to the active device alias database.	
	device-alias database	Configures and activates the device alias database.	
	show device-alias	Displays device alias information.	

errdisable detect cause trustsec-violation

To enable error-disable detection on a trustsec violation, use the **errdisable detect cause trustsec-violation** command. To disable this feature, use the **no** form of the command.

errdisable detect cause trustsec-violation num-times {number} duration {sec}

no errdisable detect cause trustsec-violation num-times {*number*} **duration** {*sec*}

Syntax Description	num-times	Specifies the flap number.
	flaps number	Specifies the number of flaps. The range is from 1 to 1023.
	duration	Specifies the time in seconds.
	sec	The range is from 1 to 2000000.
Defaults	None.	
Command Modes	Configuration mod	le.
Command History	Release	Modification
	NX-OS 4.2(1)	This command was introduced.
		econds to stabilize after the port goes down, this situation might cause a more severe
Usage Guidelines	quickly and efficie can happen in som system takes five s failure in the fabri	
	first failure, or afte	are vulnerable to these problems. The port can be configured to stay down after the er a specified number of failures in a specified time period. This allows the SAN intervene and control the recovery and avoiding any problems caused by the cycling.
Examples	The following exa	mple shows how to enable error-disable detection on a trustsec violation:
	switch#(config-i switch#(config-i	f)# errdisable detect cause trustsec-violation num-times 1 duration 1 f)#
Related Commands	Command	Description
	device-alias com	mit Commits changes to the active device alias database.

Command	Description
device-alias database	Configures and activates the device alias database.
show device-alias	Displays device alias information.

event

To configure the event statement for the policy, use the **event** command. To delete the event statement for the policy, use the **no** form of the command.

- event {cli match expression [count countnum] [time seconds] | counter name name entry-val entry entry-op {eq | ge | gt | le | lt | ne} [exit-val value exit-op {eq | ge | gt | le | lt | ne}]] fanabsent [fan number] time seconds | fanbad [fan number] time seconds | memory { critical | minor | severe} | module-failure type failure-type module {slot | all} count repeats [time seconds] | oir {fan | module | powersupply} { anyoir | insert | remove} [number]| policy-default count repeats [time seconds | poweroverbudget [time seconds] | snmp oid oid get-type {exact | next} entry-op {eq | ge | gt | le | lt |ne} entry-val entry [exit-comb {and | or}] exit-op {eq | ge | gt | le | lt |ne} exit-val exit exit-time time polling-interval interval | temperature [module slot] [sensor number] threshold {any | major | minor}}
- no event {cli match expression [count countnum] [time seconds] | counter name name entry-val entry entry-op {eq | ge | gt | le | lt | ne} [exit-val value exit-op {eq | ge | gt | le | lt | ne}] | fanabsent [fan number] time seconds | fanbad [fan number] time seconds | memory { critical | minor | severe} | module-failure type failure-type module {slot | all} count repeats [time seconds] | oir {fan | module | powersupply} {anyoir | insert | remove} [number]| policy-default count repeats [time seconds | poweroverbudget [time seconds] | snmp oid oid get-type {exact | next} entry-op {eq | ge | gt | le | lt |ne} entry-val entry [exit-comb {and | or}] exit-op {eq | ge | gt | le | lt |ne} exit-val exit exit-time time polling-interval interval | temperature [module slot] [sensor number] threshold {any | major | minor}}

Syntax Description	cli	Specifies a CLI event specification.
	match expression	Specifies the regular expression used to perform the CLI command pattern match. The CLI command must have been successfully parsed before the pattern match is attempted. The pattern match is compared with the fully expanded CLI command string. If the expression contains embedded blanks, enclose it in double quotation mark.
	count countnum	(Optional) Specifies the number of matching occurrences before an EEM event is triggered. When a number is not specified, an EEM event is triggered after the first match. The <i>countnum</i> argument must be an integer greater than 0.
	time seconds	(Optional) Specifies the time interval during which the one or more occurrences must take place. When the keyword is not specified, no time period check is applied.
	counter	Specifies a counter event.
	name name	Specifies the name of the counter that will be monitored. The name identifier can be any string value.
	entry-val entry	Specifies the value with which the contents of the current counter are compared to decide if a counter event should be raised. The entry value ranges from 0 to 2147483647.

entry-op op	(Optional) Compares the contents of the current counter with the exit value using a specified operator:		
	•eq—Equal to		
	•ge—Greater than or equal to		
	•gt—Greater than		
	•le—Less than or equal to		
	•It—Less than		
exit-val value	•ne—Not equal to (Optional) Specifies the value with which the contents of the current		
exit-vai value	counter are compared to decide whether the exit criteria are met. The exit value ranges from 0 to 2147483647.		
exit-op op			
fanabsent	Specifies fanabsent event specification.		
fan number	The fan number range is from 1 to 4.		
time seconds	The seconds range is from 0 to 4294967295.		
fanbad	Specifes fanbad event specification.		
memory	Specifies the memory thresholds event specification.		
critical	Specifies critical alert.		
minor	Specifies minor alert.		
severe	Specifies severe alert.		
module-failure	Specifies a module failure event specification.		
type	Specifies the type of failure condition.		
failure-type			
module <i>slot</i> all	Specifies that one module or all modules must be monitored.		
oir	Specifies online-insertion-removal event specification.		
fan	Specifies the system fans. Optionally specifies an individual fan.		
module	Specifies the system modules. Optionally specifies an individual module.		
powersupply	Specifies the system power supplies. Optionally specifies an individual power supply.		
anyoir insert remove	Specify the OIR event that triggers the EEM applet.		
	•insert—OIR insert		
	•remove—OIR remove		
	•anyoir—Either OIR insert or OIR remove		
number	(Optional) If you selected fan, enter a fan number to monitor for an OIR event. The number is in the range of 1-4. If you selected module, enter a module number to monitor for an OIR event. The number is in the range of 1-10. If you selected powersupply, enter a power supply number to monitor for an OIR event. The number is in the range of 1-3.		
policy-default	Specifies the event in the system policy being overridden.		
poweroverbudget	Specifies poweroverbudget event specification.		
snmp	Specifies a SNMP event specification.		
oid oid	Specifies the OID of data element in dot notation.		

	get-type	Specifies the type of SNMP get operation to be applied to the object ID specified by the OID value argument.
	exact	Retrieves the object ID specified by the OID value argument.
	next	Retrieves the object ID that is the alphanumeric successor to the object II specified by the OID value argument.
	exit-comb	(Optional) Indicates the combination of exit conditions that must be met before event monitor is reenabled.
	and	(Optional) Specifies that an exit comparison operator, an exit object ID value, and an exit time value must exist.
	or	(Optional) Specifies that an exit comparison operator and an exit object II value or an exit time value must exist.
	exit-time time	
	polling-interval interval	Specifies the time interval between consecutive polls. The value argumen is an integer that represents seconds in the range from 1 to 4294967295. The minimum polling interval is 1 second.
	temperature	Specifies temperature event specification.
	module <i>slot</i>	(Optional) Specifies module number. The slot range is from 1 to 10.
	sensor number	(Optional) Specifies sensor number.
	threshold	Specifies major or minor threshhold.
	any	Specifies major or minor threshold.
	major	Specifies major threshold.
	mi nor	Specifies minor threshold.
efaults	None.	
ommand Modes	Embeded Event Ma	anager.
ommand History	Release	Modification
	NX-OS 4.2(1)	Added a note.
	NX-OS 4.1(2)	This command was introduced.
sage Guidelines	None.	
Note		w the triggered event to process any default actions, you must configure the EEM event default action statement. For example, if you match a CLI command in a ma
		st add the event-default action statement to the EEM policy or EEM will not allo

the **CLI** command to execute.

```
Examples
```

The following example shows how to specify the event criteria for an EEM applet that is run by matching a Cisco NX-OS command line interface (CLI) command.

switch(config-applet)# event cli match "shutdown"

The following example show how to specify an event criteria for an EEM applet that is run when the defined critical_errors counter exceeds the entry value:

```
switch(config)# event manager applet eventcntr-applet
switch(config-applet)# event counter name critical_errors entry-val 3 entry-op gt
switch(config-applet)#
This following example shows how to specify that an EEM applet runs when a fan absent event occurs:
```

```
switch# configure terminal
switch(config)# event manager applet absent-applet
switch(config-applet)# event fanabsent time 42
switch(config-applet)#
```

The example example shows how to specify that an EEM applet runs when a fan absent event occurs:

```
switch# configure terminal
switch(config)# event manager applet bad-applet
switch(config-applet)# event fanbad time 42
switch(config-applet)#
```

The example shows how to specify that an EEM applet runs when a module failure event occurs:

```
switch# configure terminal
switch(config)# event manager applet modfail-applet
switch(config-applet)# event module-failure type unexpected-registration module 6 count 2
switch(config-applet)#
```

The following example shows how to specify that an EEM applet be run on the basis of an event raised when a module OIR occurs:

```
switch# configure terminal
switch(config)# event manager applet oir-applet
switch(config-applet)# event oir module anyoir
switch(config-applet)#
```

The following example shows how to use the event in the system policy being overridden:

```
switch# configure terminal
switch(config)# event policy-default count 6
switch(config)#
```

The following example shows how to specify the event criteria for an EEM applet that is run by sampling SNMP object identifier values:

```
switch# configure terminal
switch(config)# event manager applet snmp-applet
switch(config-applet)# event snmp oid 4.2.1.6 get-type next entry-op eq entry-val 42
poll-interval 2
switch(config-applet)#
```

The following example shows how to specify that an EEM applet runs when a temperature event occurs:

```
switch# configure terminal
switch(config)# event manager applet temp-applet
switch(config-applet)# event temperature threshold major
switch(config-applet)#
```

event

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Related Commands	Command	Description
	show event manager policy	Displays the register Embedded Event manager policies.

event manager applet

To register an applet with the Embedded Event Manager (EEM) and to enter applet configuration mode, use the **event manager applet** command.

event manager applet applet-name

Syntax Description	applet-name	The applet name can be any case-sensitive alphanumeric string up to 29 characters.
Defaults	None.	
Command Modes	Embedded Event Man	ager.
Command History	Release	Modification
	NX-OS 4.1(3)	This command was introduced.
Usage Guidelines	None.	
Examples	switch# configure t e	nt manager applet eem-applet
Related Commands	Command	Description
	show event manager policy	Displays the register Embedded Event manager policies.

event manager policy

To register and activate an Embeded Event Manager policy (EEM) script policy, use the **event manager policy** command.

event manager policy policy-script

no event manager policy policy-script

Syntax Description	policy-script	Specifies the EEM policy script. This name becomes the name of the EEM policy. The maximum size is 29 characters.
Defaults	None.	
Command Modes	EXEC mode.	
Command History	Release	Modification
	NX-OS 4.1(3)	This command was introduced.
Usage Guidelines	policy itself. When	es and runs policies on the basis of an event specification that is contained within the a the event manager policy command is invoked, the EEM examines the policy and an when the specified event occurs.
Examples	The following example	mple shows how to register a policy:
	<pre>switch# configur switch(config)# switch(config)#</pre>	e terminal event manager policy modulescript
Related Commands	Command	Description
	event manager aj	pplet Displays an applet with the Emedded Event manager.

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event manager environment

To configure an EEM environment variable, use the **event manager environment** command. To disable an EEM environment variable, use the **no** form of the command.

event manager environment variable-name variable-value

no event manager environment variable-name variable-value

Syntax Description	variable-name	Specifies the name of the EEM environment veriable. The veriable name		
Syntax Description	variable-name	Specifies the name of the EEM environment variable. The variable name can be any case-sensitive alphanumeric string up to 32 characters.		
	variable-value	Specifies the value of the EEM environment. The variable name can be any case-sensitive alphanumeric string up to 32 characters.		
Defaults	None.			
Command Modes	Embeded Event Manag	er.		
Command History	Release	Modification		
	NX-OS 4.1(3)	This command was introduced.		
Usage Guidelines Examples	None.	shows how to set an EEM environment variable:		
Lxamples	switch# configure te			
Related Commands	Command	Description		
	show event manager environment	Displays the name and value of the Embedded Event manager.		
	show event manager policy	Displays the register Embedded Event manager policies.		

exit

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exit

To exit any configuration mode or close an active terminal session and terminate the EXEC, use the exit command at the system prompt.

exit

Defaults

None.

Command Modes EXEC and configuration modes.

Command History	Release	Modification
	4.1(1b)	Modified the command output.
	1.0(2)	This command was introduced.

Usage Guidelines

Use the exit command at the EXEC levels to exit the EXEC mode. Use the exit command at the configuration level to return to privileged EXEC mode. Use the exit command in interface configuration mode to return to configuration mode. You also can press Ctrl-Z, or use the end command, from any configuration mode to return to EXEC mode.

Note

The exit command is associated with privilege level 0. If you configure AAA authorization for a privilege level greater than 0, this command will not be included in the command set for that privilege level.

Examples

The following example displays an exit from the submode:

```
switch(config-port-monitor)# exit
switch(config)#
```

The following example displays an exit from the interface configuration mode for VRRP to return to the interface configuration mode:

```
switch(config-if-vrrp)# exit
switch(config-if)#
```

The following example displays an exit from the interface configuration mode to return to the configuration mode:

switch(config-if)# exit switch(config)#

The following example shows how to exit an active session (log-out):

switch# **exit**

Related Commands	Command	Description
	end	Returns you to EXEC mode.

exit