

M 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.

match

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match

To configure QoS class map match criteria, use the **match** command in class map configuration submode. Remove QoS class map match criteria, use the **no** form of the command.

- match {any | destination-address fc-id [mask address-mask] | destination-device-alias name | destination-wwn wwn-id | input-interface fc slot/port | source-address fc-id [mask address-mask] | source-device-alias name | source-wwn wwn-id}
- **no match** {**any** | **destination-address** *fc-id* [**mask** *address-mask*] | **destination-device-alias** *name* | **destination-wwn** *wwn-id* | **input-interface fc** *slot/port* | **source-address** *fc-id* [**mask** *address-mask*] | **source-device-alias** *name* | **source-wwn** *wwn-id*}

Syntax Description	any	Enables matching of any frame.
	destination-address fc-id	Specifies the destination FCID to match frames.
	mask address-mask	(Optional) Specifies an address mask to match frames. The range is 0x0 to 0xffffffff.
	destination-device-alias name	Specifies the destination device alias to match frames. Maximum length is 64 characters.
	destination-wwn wwn-id	Specifies the destination WWN to match frames.
	input-interface fc slot/port	Specifies the source Fibre Channel interface to match frames.
	source-address fc-id	Specifies the source FCID to match frames.
	source-device-alias name	Specifies the source device alias to match frames. Maximum length is 64 characters.
	source-wwn wwn-id	Specifies the source WWN to match frames.
Command Modes	Class map configuration submo	de. fication
	1.3(1) This	command was introduced.
	2.0(x) Adde	d the destination-device-alias and source-device-alias options.
Usage Guidelines	You can access this command c command.	only if you enable the QoS data traffic feature using the qos enable
Examples	e 1	a class map called MyClass1 and places you in the class map h any (default) criteria specified for this class:

switch(config)# qos class-map MyClass1 match-any
switch(config-cmap)# match any

The following example specifies a destination address match for frames with the specified destination FCID:

switch(config-cmap)# match destination-address 0x12ee00

The following example specifies a source address and mask match for frames with the specified source FCID. Mask refers to a single or entire area of FCIDs:

switch(config-cmap)# match source-address 0x6d1090 mask 0

The following example specifies a destination WWN to match frames:

switch(config-cmap)# match destination-wwn 20:01:00:05:30:00:28:df
Operation in progress. Please check class-map parameters

The following example specifies a source WWN to match frames:

switch(config-cmap)# match source-wwn 23:15:00:05:30:00:2a:1f
Operation in progress. Please check class-map parameters

The following example specifies a source interface to match frames:

switch(config-cmap)# match input-interface fc 2/1
Operation in progress. Please check class-map parameters

The following example removes a match based on the specified source interface:

switch(config-cmap) # no match input-interface fc 3/5

Related Commands	Command	Description
	qos enable	Enables QoS.
	show qos	Displays QoS information.

match address

To configure match addresses in an IPsec crypto map with an access control list (ACL), use the **match** address command in IPsec crypto map configuration submode. To not match addresses, use the **no** form of the command.

match address acl-name

no match address [acl-name]

Syntax Description	acl-name	Specifies the ACL name. Maximum length is 64 characters.
Defaults	None.	
Command Modes	IPsec crypto map con	figuration submode.
Command History	Release	Modification
	2.0(x)	This command was introduced.
Examples	The following examp	le shows how to match addresses in an IPsec crypto map with an ACL:
Examples	switch# config term switch(config)# cry	
Related Commands	Command	Description
	crypto ike domain i	
	crypto ike enable	Enables the IKE protocol.

show crypto map domain ipsec Displays IPsec crypto map information.

mcast root

To configure the multicast feature, use the **mcast root** command in configuration mode. To revert to the default, use the **no** form of the command.

mcast root {lowest | principal} vsan vsan-id

no mcast root {**lowest** | **principal**} **vsan** *vsan-id*

Syntax Description	lowest	Specifies the lowest domain switch as root.
-,	principal	Specifies the principal switch as root.
	vsan vsan-id	Specifies the VSAN ID. The range is 1 to 4093.
Defaults	principal	
Command Modes	Configuration mode	
Command History	Release	Modification
	2.0(x)	This command was introduced.
Usage Guidelines	None.	
Examples	The following exam	ple shows how to configure the multicast root VSAN:
	switch# config te switch(config)# m	rminal cast root principal vsan 4001
Related Commands	Command	Description
	show mcast	Displays multicast information.

member (fcalias configuration submode)

To add a member name to an Fibre Channel alias on a VSAN, use the **member** command in fcalias configuration submode. To remove a member name from an FC alias, use the **no** form of the command.

- **member** {**device-alias** aliasname [**lun** lun-id] | **domain-id** domain-id [**lun** lun-id] | **fcid** fc-id [**lun** lun-id] | **fwwn** fwwn-id | **interface fc** slot/port [**domain-id** domain-id | **swwn** swwn-id] | **ip-address** ipv4|ipv6 | **pwwn** pwwn-id [**lun** lun-id] | **symbolic-nodename** nodename}
- **no member** {**device-alias** aliasname [**lun** lun-id] | **domain-id** domain-id [**lun** lun-id] | **fcid** fc-id [**lun** lun-id] | **fwwn** fwwn-id | **interface fc** slot/port [**domain-id** domain-id | **swwn** swwn-id] | **ip-address** ipv4|ipv6 | **pwwn** pwwn-id [**lun** lun-id] | **symbolic-nodename** nodename}

Syntax Description	device-alias aliasname	Specifies the member device alias. Maximum length is 64 characters.
	lun lun-id	(Optional) Specifies the member LUN ID. The format is
		<i>Oxhhhh</i> [: <i>hhhh</i> [: <i>hhhh</i>]]], where <i>h</i> is a hexadecimal digit.
	domain-id domain-id	Specifies the member domain ID. The range is 1 to 239.
	fcid fc-id	Specifies the member FC ID. The format is $0xhhhhhh$, where h is a hexadecimal digit.
	fwwn fwwn-id	Specifies the member fWWN ID. The format is <i>hh</i> : <i>hh</i>
	interface fc slot/port swwn swwn-id	Specifies the member interface ID.
		(Optional) Specifies the member sWWN ID. The format is <i>hh:hh:hh:hh:hh:hh:hh;hh;hh;hh</i> , where <i>h</i> is a hexadecimal digit.
	ip-address ipv4 ipv6	Specifies a member IP address in either IPv4 format, <i>A.B.C.D</i> , or IPv6format, <i>X:X:X:n</i> .
	pwwn pwwn-id	Specifies the member pWWN ID. The format is <i>hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:</i>
	symbolic-nodename nodename	Specifies the member symbolic node name. The maximum length is 255 characters.
Defaults	None.	
Command Modes	Fcalias configuration sub	omode.
Command History	Release	Modification
-	3.0(1)	This command was introduced.
Jsage Guidelines	None.	
xamples	The following example s	hows how to add a member to an FC alias called samplealias:

switch# config terminal Enter configuration commands, one per line. End with CNTL/Z. switch(config)# fcalias name samplealias switch(config-fcalias)#

The following example defines an IPv6 address for the member:

switch(switch(config-fcalias)# member ip-address 2020:dbc0:80::4076

The following example shows how to delete the specified member:

switch(config-fcalias)# no member ip-address 2020:dbc0:80::4076

Related Commands	Command	Description
	fcalias name	Configures an FC alias.
	show fcalias	Displays the member name information in an FC alias.

member (ivr zone configuration)

		o an Inter-VSAN Routing (IVR) zone, use the member command in IVR zone To remove a member name from an fcalias, use the no form of the command.
	vsan-id autonor	ias aliasname {lun lun-id vsan vsan-id autonomous-fabric-id afid vsan nous-fabric-id afid} pwwn pwwn-id {lun lun-id vsan vsan-id bric-id afid vsan vsan-id autonomous-fabric-id afid}}
	vsan-id autonor	-alias aliasname {lun lun-id vsan vsan-id autonomous-fabric-id afid vsan nous-fabric-id afid} pwwn pwwn-id {lun lun-id vsan vsan-id bric-id afid vsan vsan-id autonomous-fabric-id afid}}
Syntax Description	device-alias aliasname	Specifies the member device alias. Maximum length is 64 characters.
-,	lun lun-id	Specifies the member LUN ID. The format is <i>0xhhhh</i> [: <i>hhhh</i> [: <i>hhhh</i>]]], where <i>h</i> is a hexadecimal digit.
	vsan vsan-id	Specifies the VSAN ID. The range is 1 to 4093.
	autonomous-fabric-id afid	Specifies the AFID to the local VSAN.
	pwwn pwwn-id	Specifies the member pWWN ID. The format is <i>hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:</i>
Defaults Command Modes	None. IVR zone configuration	submode.
Command History	Release	Modification
	1.3(1)	This command was introduced.
	2.1(1a)	Added lun parameter.
Usage Guidelines	You can configure an IVR zone member based on the specified pWWN and LUN value or, based on the specified pWWN, LUN value, and AFID.	
<u>~</u> Note	The CLI interprets the L included.	UN identifier value as a hexadecimal value whether or not the 0x prefix is
Examples	The following example s and the AFID:	hows how to configures an IVR zone member based on the device alias VSAN,
	<pre>switch# config termina Enter configuration co switch(config)# ivr zo</pre>	ommands, one per line. End with CNTL/Z.

switch(config-ivr-zone)# member device-alias Switch4 vsan 1 autonomous-fabric-id 14

The following example shows how to configures an IVR zone member based on the pWWN, VSAN, and the AFID:

```
switch# config terminal
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# ivr zone name IvrLunZone
switch(config-ivr-zone)# member pwwn 29:00:00:05:30:00:06:ea vsan 1 autonomous-fabric-id
14
```

Related Commands	Command	Description
	show ivr zone	Displays the IVR zone information.

member (zone configuration and zoneset-zone configuration submode)

To add a member name to a Fibre Channel zone set zone member, use the **member** command in zone set zone configuration submode. To remove a member name from a zone set zones, use the **no** form of the command.

- member {device-alias aliasname both initiator target [lun lun-id] | domain-id domain-id
 port-number port | fcalias alias-name [lun lun-id] | fcid fc-id [lun lun-id] | fwwn fwwn-id |
 interface fc slot/port [domain-id domain-id | swwn swwn-id] | ip-address ipv4|ipv6 |
 pwwn pwwn-id [lun lun-id] | symbolic-nodename nodename}
- no member {device-alias aliasname both initiator target [lun lun-id] | domain-id domain-id
 port-number port | fcid fc-id [lun lun-id] | fwwn fwwn-id | interface fc slot/port [domain-id
 domain-id | swwn swwn-id] | ip-address ipv4|ipv6 | pwwn pwwn-id [lun lun-id] |
 symbolic-nodename nodename}

Syntax Description	device-alias aliasname	Specifies the member device alias. Maximum length is 64 characters.
	both	Specifies the device type as both.
	initiator	Specifies the device type as initiator.
	target	Specifies the device type as target.
	lun lun-id	(Optional) Specifies the member LUN ID. The format is <i>0</i> x <i>hhhh</i> [: <i>hhhh</i> [: <i>hhhh</i>]]], where <i>h</i> is a hexadecimal digit.
	domain-id domain-id	Specifies the member domain ID. The range is 1 to 239.
	alias-name	The name of the fcalias. Maximum length is 64 characters.
	port-number port	Specifies the member port number. The range is 0 to 255.
	fcid fc-id	Specifies the member FC ID. The format is $0xhhhhhh$, where h is a hexadecimal digit.
	fwwn fwwn-id	Specifies the member fWWN ID. The format is <i>hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:</i>
	interface fc slot/port	Specifies the member interface ID.
	swwn swwn-id	Specifies the member sWWN ID. The format is <i>hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:</i>
	ip-address ipv4 ipv6	Specifies a member IP address in either IPv4 format, <i>A.B.C.D</i> , or IPv6format, <i>X:X:X:/n</i> .
	pwwn pwwn-id	Specifies the member pWWN ID. The format is <i>hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:hh:</i>
	symbolic-nodename nodename	Specifies the member symbolic node name. The maximum length is 255 characters.

Defaults

This command can be used in both zone configuration submode and zoneset-zone configuration submode.

Command Modes

Zone set zone configuration submode and zoneset-zone configuration submode.

Command History	Release	Modification		
	5.2(6)	Added the keywords both , initiator , target to the syntax description.		
	1.0(2)	This command was introduced.		
	2.1(1a)	Added zoneset-zone configuration submode.		
	3.0(1)	Added the IPv6 IP address format.		
Jsage Guidelines	Create a zone set	zone member only if you need to add member to a zone from the zone set prompt.		
xamples	The following ex	ample shows how to enter the device type as target:		
	<pre>switch# config terminal Enter configuration commands, one per line. End with CNTL/Z. switch(config)# zone name zs1 vsan 1 switch(config-zone)# member device-alias a target switch(config-zone)#</pre>			
	The following example shows how to add a member to a zone called zs1 on VSAN 1:			
	switch(config)#	ation commands, one per line. End with CNTL/Z. zone name zsl vsan 1 zone) # member fcid 0x111112		
	The following ex	ample shows how to add a zone to a zoneset called Zoneset1 on VSAN 1:		
	<pre>switch# config terminal Enter configuration commands, one per line. End with CNTL/Z. switch(config)# zoneset name ZoneSet1 vsan 1 switch(config-zoneset-zone)# member fcid 0x111112</pre>			
	The following example shows how to assign an iSCSI IPv6 address-based membership into a zone:			
	Enter configura switch(config)#	<pre>switch# config terminal Enter configuration commands, one per line. End with CNTL/Z. switch(config)# zoneset name ZoneSet1 vsan 1 switch(config-zoneset-zone)# member ipv6-address 2001:0DB8:800:200C::417A</pre>		
	The following ex	ample shows how to delete the specified device from a zone:		
	switch(config-z	coneset-zone)# no member ipv6-address 2001:0DB8:800:200C::417A		

Related Commands	Command	Description
	show zoneset	Displays zone set information.

Command	Description
zoneset (configuration submode)	Used to specify a name for a zone set.
zone name (zone set configuration submode)	Configures a zone in a zoneset.

member (zoneset configuration submode)

To configure zone set zone members, use the **member** command in zone set configuration submode. To remove a zone set member, use the **no** form of the command.

member *member-name*

no member member-name

Syntax Description	member-name	Specifies the member name. Maximum length is 64 characters.
Defaults	None.	
Command Modes	Zone set configurati	on submode.
Command History	Release	Modification
	1.0(2)	This command was introduced.
Usage Guidelines	None.	
Examples	The following exam	ple shows how to add a member zone to a zone set:
		rminal oneset name Zoneset1 vsan 10 eset)# member ZoneA
Related Commands	Command	Description
	show zone	Displays zone information.
	zoneset name	Creates a zone set.

metric (iSLB initiator configuration)

To assign a load-balancing metric for an iSLB initiator, use the **metric** command in iSLB initiator configuration submode. To revert to the default load-balancing metric, use the **no** form of the command.

metric *metric*

no metric *metric*

Syntax Description	metric metric S	pecifies a load-balancing metric. The range is 10 to 10000.
	-	
Defaults	1000	
Command Modes	iSLB initiator configuration	n submode.
Command History	Release	Adification
	3.0(1) T	This command was introduced.
Usage Guidelines	You can assign a load metric to each initiator for weighted load balancing. The load calculated is based on the number of initiators on a given iSCSI interface. This feature accommodates initiators with different bandwidth requirements. For example, you could assign a higher load metric to a database server than to a web server. Weighted load balancing also accommodates initiators with different link speeds.	
Examples	The following example spe	cifies a load-balancing metric for the iSLB initiator:
	switch# config t	
	switch(config)# islb ini switch (config-islb-init	tiator ip-address 100.10.10.10)# metric 100
	The following example reverts to the default load-balancing metric:	
	switch (config-islb-init)# no metric 100
Related Commands	Command	Description
	islb initiator	Assigns an iSLB name and IP address to the iSLB initiator and enters iSLB initiator configuration submode.
	show islb initiator configured	Displays iSLB initiator information for the specified configured initiator.
	show islb initiator detail	Displays detailed iSLB initiator information.
	show islb initiator summary	Displays iSLB initiator summary information.

mkdir

To create a directory in the flash file system, use the **mkdir** command in EXEC mode.

mkdir directory

Syntax Description	directory	Name of the directory to create.
Defaults	None.	
Command Modes	EXEC	
Command History	Release	Modification
	1.0(2)	This command was introduced.
Usage Guidelines	You can specify v	only valid on Class C flash file systems. whether to create the directory on bootflash:, slot0, or volatile:. If you do not specify vitch creates the directory on the current directory.
Examples	switch# mkdir s The following ex	ample creates a directory called test at the current directory level. If the current emydir, this command creates a directory called slot0:mydir/test.
Related Commands	Command	Description Displays a list of files on a file system.
	rmdir	Removes an existing directory in the flash file system.

mode

To configure the ESP mode, use the **mode** command. To delete the ESP mode, use the **no** form of the command.

mode {gcm | gmac}

no mode {gcm | gmac}

Syntax Description	gcm	Specifies the GCM mode for the interface.	
	gmac	Specifies the GMAC mode for the interface.	
Defaults	None.		
Command Modes	Configuration subr	node.	
Command History	Release	Modification	
	NX-OS 4.2(1)	This command was introduced.	
Usage Guidelines	None.		
Examples	The following example and the following exam	mple shows how to configure the GCM mode for the interface:	
	switch(config-if- switch(config-if-		
	The following example shows how to configure the GMAC mode for the interface:		
	switch(config-if- switch(config-if-		
Related Commands	Command	Description	
	fcsp enable	Enables FCSP.	

modem connect line

To enable a modem connection when the switch is already in operation, use the **modem connect line** command in EXEC mode.

modem connect line {com1 | console}

Syntax Description	com1	Connects the modem through a COM1 line connection.
-,	console	Connects the modem through a console line connection.
Defaults	Disabled.	
Command Modes	EXEC mode.	
Command History	Release	Modification
	1.2(2)	This command was introduced.
Usage Guidelines	If the switch is already in operation when the modem is connected, issue this command to notify the software that a modem is going to be added. You must issue the modem connect line command before setting the user-input string for initialization	
Examples	The following exam switch# modem con	ple announces a modem connection from the line console: nect line console
	The following exam switch# modem con	ple announces a modem connection from the COM1 port: nect line com1

monitor counter (port-monitor configuration mode)

To configure monitoring of a specific counter within a Port Monitor policy, use the **monitor counter** command. To remove polling functionality for a specific counter within Port Monitor policy, use the **no** form of the command.

- monitor counter {credit-loss-reco | invalid-crc | invalid-words | link-loss | lr-rx | lr-tx| rx-datarate | signal-loss | sync-loss | timeout-discards | tx-credit-not-available | tx-datarate | tx-discards}
- no monitor counter{credit-loss-reco | invalid-crc | invalid-words | link-loss | lr-rx | lr-tx| rx-datarate | signal-loss | sync-loss | timeout-discards | tx-credit-not-available | tx-datarate | tx-discards}

credit-loss-reco	Counfigures credit loss recovery counter.
invalid-crc	Configures invalid crc counter.
invalid-words	Configures invalid words counter.
link-loss	Configures link failure counter.
lr-rx	Configures the number of link reset responses received by the Fc port.
lr-tx	Configures link reset responses transmitted by the FC port.
rx-datarate	Configure rx performance counter.
signal-loss	Configures the signal loss counter.
sync-loss	Configures the sync loss counter.
timeout-discards	Configure timeout discards counter.
tx-credit-not-avai lable	Configure credit not available counter.
tx-datarate	Configure tx performance counter.
tx-discards	Configure tx discards counter.
All counters are monitored by default in this release. Configuration Port Monitor mode.	
NX-OS 4.2(1)	This command was introduced.
	or counter command is used in the config-port-group-monitor mode, it turns-off the pecific counter in the given policy.
	invalid-crcinvalid-wordslink-losslr-rxlr-txrx-dataratesignal-losssync-losstimeout-discardstx-credit-not-availabletx-dataratetx-dataratetx-discardsAll counters are monConfiguration Port IReleaseNX-OS 4.2(1)

Examples

The following example shows how to configure the credit loss recovery counter within a Port Monitor policy:

switch# config t
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# port-monitor name pgmon
switch(config-port-monitor)# monitor counter credit-loss-reco
switch(config-port-monitor)#

Related Commands Command

Description
Displays the individual counter.
Displays Port Monitor information.

monitor counter (port-group-monitor configuration mode)

To configure monitoring of a specific counter within a Port Group Monitor policy, use the **monitor counter** command. To remove polling functionality for a specific counter within Port Group Monitor policy, use the **no** form of the command.

monitor counter {rx-performance | tx-performance} poll-interval interval {delta} rising-threshold rising threshold falling-threshold low threshold

no monitor counter{ **rx-performance** | **tx-performance**} **poll-interval** *interval* {**delta**} **rising-threshold** *rising threshold* **falling-threshold** *low threshold*

Syntax Description	rx-performance	Counfigures RX performance counter.	
	tx-performance	Configures TX performance counter.	
	poll-interval	Configures poll interval for counter.	
	interval	Displays poll interval in seconds. The range is from 0 to 2147483647.	
	delta	Displays the threshold type.	
	rising-threshold	Configures the upper threshold value.	
	rising-threshold	Sets numerical upper threshold limit. The range is from 0 to 100.	
	falling-threshold	Configures the lower threshold value.	
	low-threshold	Sets numerical low threshold limit. The range is from 0 to 100.	
Defaults	None.		
Command Modes	Configuration Port	Group Monitor mode.	
Command Wodes	Configuration Fort	Group Monitor mode.	
Command History	Release	Modification	
	NX-OS 4.2(1)	This command was introduced.	
Usage Guidelines	When the no monit	or counter command is used in the config-port-group-monitor mode, it turns-off the	
	monitoring of that s	specific counter in the given policy.	
Examples	Monitor policy:	nple shows how to configure monitoring of a specific counter within a Port Group	
	switch# config t Enter configurati	on commands, one per line. End with CNTL/Z.	
		ort-group-monitor name pgmon	
		<pre>`t-group-monitor)# monitor counter rx-performance `t-group-monitor)# monitor counter tx-performance</pre>	
		t-group-monitor)#	
	The following exan	nple shows how to turn off the monitoring of a specific counter in the given policy:	
	The remaining enample shows how to tail of the monitoring of a specific counter in the given poincy.		

```
switch# config t
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# no port-group-monitor name pgmon
switch(config-port-group-monitor)# no port-group-monitor rx-performance
switch(config-port-group-monitor)# no port-group-monitor tx-performance
switch(config-port-group-monitor)#show port-group-monitor
_____
_ _ _ _ _ _ _ _ _ _ _ _ _
Port Group Monitor : enabled
_____
_____
Policy Name : pgmon
Admin status : Not Active
Oper status : Not Active
Port type : All Port Groups
_____
Counter Threshold Interval %ge Rising Threshold %ge Falling Threshold portguard
_____ _____
RX Performance Delta 60 80 20 Yes
TX Performance Delta 60 80 20 No
_____
```

Related Commands	Command	Description
	show port-group-monitor	Displays Port Group Monitor information.

```
OL-26541-01 Cisco MDS NX-OS Release 5.x
```

move

To remove a file from the source file and place it in the destination file, use the **move** command in EXEC mode.

move {**bootflash:** | **slot0:** | **volatile:** } [*directory/*] *filename* {**bootflash:** | **slot0:** | **volatile:** } [*directory/*] *filename*

Syntax Description	bootflash:	Source or destination location for internal bootflash memory.
	slot0:	Source or destination location for the CompactFlash memory or PCMCIA card.
	volatile:	Source or destination location for volatile memory.
	directory	(Optional) Specifies the name of the directory.
	filename	(Optional) Specifies the name of the file to move or create.
Defaults	None.	
Command Modes	EXEC mode.	
Command History	Release	Modification
	1.0(2)	This command was introduced.
Usage Guidelines	If you do not specif	y the directory name in the command line, the switch prompts you for it.
		Ty the directory name in the command line, the switch prompts you for it.
Usage Guidelines Examples	The following exam directory:	
Examples	The following exam directory: switch# move slot	uple moves the file called samplefile from the slot0 directory to the mystorage 0:samplefile slot0:mystorage/samplefile
Examples	The following exam directory: switch# move slot	nple moves the file called samplefile from the slot0 directory to the mystorage 0:samplefile slot0:mystorage/samplefile Description
	The following exam directory: switch# move slot	uple moves the file called samplefile from the slot0 directory to the mystorage 0:samplefile slot0:mystorage/samplefile

mutual-chap username (iSCSI initiator configuration and iSLB initiator configuration)

To assign a username for the initiator's challenge, use the **mutual-chap username** command in iSCSI initiator configuration submode. To remove the username, use the **no** form of the command.

mutual-chap username username password {0 cleartext-password | 7 encrypted-password |
password}

no mutual-chap username *username* **password** {**0** *cleartext-password* | **7** *encrypted-password* | *password*}

Syntax Description		
Syntax Description	username username	Specifies a username. The maximum size is 32.
	password	Specifies a password for the initiator's challenge.
	0 cleartext-password	Specifies that the password is a cleartext CHAP password.
	7 encrypted-password	Specifies that the password is an encrypted CHAP password.
	password	Specifies a password for the username. The maximum size is 32.
Defaults	None.	
Command Modes	iSCSI initiator configura iSLB initiator configura	
Command History	Release	Modification
Command History	Release	Modification This command was introduced.
Command History		
Command History Usage Guidelines	2.0(1b) 3.0(1) The iSLB initiator can at This authentication requirements	This command was introduced. Added iSLB initiator configuration submode. uthenticate the Cisco MDS switch's initiator target during the iSCSI login phase tires the user to configure a username and password for the switch to present to provided password is used to calculate a CHAP response to a CHAP challenge

The following example assigns a username and password to the initiator's challenge for an iSLB initiator:

```
switch# config t
switch(config)# islb initiator ip-address 100.10.10.10
switch (config-islb-init)# mutual-chap username tester password K9c4*1
```

The following example removes the username and password from the initiator's challenge for an iSLB initiator:

switch (config-islb-init)# no mutual-chap username tester password K9c4*1

Related Commands	Command	Description
	islb initiator	Assigns an iSLB name and IP address to the iSLB initiator and enter s iSLB initiator configuration submode.
	iscsi initiator name	Assigns an iSCSI name and changes to iSCSI initiator configuration submode.
	show iscsi initiator	Displays iSCSI initiator information.
	show iscsi initiator configured	Displays iSCSI initiator information for the configured iSCSI initiator.
	show iscsi initiator detail	Displays detailed iSCSI initiator information.
	show iscsi initiator summary	Displays iSCSI initiator summary information.
	show islb initiator	Displays iSLB initiator information.
	show islb initiator configured	Displays iSLB initiator information for the configured iSLB initiator.
	show islb initiator detail	Displays detailed iSLB initiator information.
	show islb initiator summary	Displays iSLB initiator summary information.