



L 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. Please see the Command Mode section to determine the appropriate mode for each command. For more information, see the *Cisco MDS 9000 Family Configuration Guide*.

- `line console`
- `line vty`
- `logging console`
- `logging level`
- `logging logfile`
- `logging module`
- `logging monitor`
- `logging server`

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line console

To configure a terminal line, use the **line console** command.

line console [**databits** *number*] [**exec-timeout** *minutes*] [**exit**] [**flowcontrol** **none** | **software**] [**no**]
 [**parity** **even** | **none** | **odd**] [**speed** *speed*] [**stopbits** **1** | **2**]

Syntax

Syntax	Description
line console	Configures a primary terminal line.
databits	Set number of databits per character.
<i>number</i>	Enters number of databits.
exec-timeout	Configure exec timeout.
<i>minutes</i>	Enter timeout in minutes 0-525600. 0 to disable.
exit	Exit from this submode.
flowcontrol	Set the flow control.
none	Set no flowcontrol.
software	Set software flowcontrol.
no	Negate a command or set its defaults.
parity	Set terminal parity.
even	Set even parity.
none	Set no parity.
odd	Set odd parity.
speed	Set the transmit and receive speeds.
<i>speed</i>	Set transmit and receive speeds.
stopbits	Set async line stopbits.
1	Set one stop bit.
2	Set two stop bits.

Defaults

Disabled

Command Modes

line console command available in **config t** command mode. **line console** configuration commands available in config-console submode.

Usage Guidelines

None.

Examples

```
switch## config t
switch(config)##
switch(config)# line console
switch(config-console)#
switch(config-console)# databits 60
switch(config-console)# exec-timeout 60
switch(config-console)# flowcontrol software
switch(config-console)# parity even
```

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```
switch(config-console)# stopbits 1
```

Related Commands

Command	Description
line vty	Configure virtual terminal line.

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line vty

To configure a virtual terminal line, use the **line vty** command.

line vty exec-timeout *minutes* | **exit** | **no**

Syntax	Description
line vty	Configures a virtual terminal line.
exec-timeout	Configure exec timeout.
<i>minutes</i>	Enter timeout in minutes 0-525600. 0 to disable.
exit	Exit from this submode.
no	Negate a command or set its defaults.

Defaults None.

Command Modes **line vty** command available in **config t** command mode. **line vty** configuration commands available in config-line submode.

Usage Guidelines None.

Examples

```
switch## config t
switch(config)##
switch(config)# line vty
switch(config-line)#
switch(config-line)# exec-timeout 60
switch(config-line)# exit
switch(config)##
```

Related Commands	Command	Description
	line console	Configure primary terminal line.

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logging console

To set console logging, use the **logging console** command.

logging console *range*

Syntax	Description
logging console	Sets console logging.
<i>range</i>	0-7 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug

Defaults Disabled

Command Modes Configuration mode

Usage Guidelines None.

Examples

```
switch## config t
switch(config)##
switch(config)# logging console 0
switch(config-console)#
```

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logging level

To modify message logging facilities, use the **logging level** command.

```
logging level [ acl severity level ] [ all severity level ] [ auth severity level ] [ authpriv severity level ] [ bootvar severity level ] [ callhome severity level ] [ cron severity level ] [ daemon severity level ] [ fcc severity level ] [ fcdomain severity level ] [ fcns severity level ] [ fcs severity level ] [ flogi severity level ] [ fspf severity level ] [ ftp severity level ] [ ipconf severity level ] [ ipfc severity level ] [ kernel severity level ] [ local0 severity level ] [ local1 severity level ] [ local2 severity level ] [ local3 severity level ] [ local4 severity level ] [ local5 severity level ] [ local6 severity level ] [ local7 severity level ] [ mail severity level ] [ mcast severity level ] [ module ] [ news ] [ ntp ] [ platform ] [ port ] [ port-channel ] [ qos ] [ rdl ] [ rib severity level ] [ rscn severity level ] [ scsi-target severity level ] [ security severity level ] [ syslog severity level ] [ sysmgr severity level ] [ tlport severity level ] [ user severity level ] [ uucp severity level ] [ vni severity level ] [ vrpp configuraion severity level ] [ engine severity level ] [ vsan severity level ] [ vshd severity level ] [ wwnm severity level ] [ xbar severity level ] [ zone severity level ]
```

```
no logging level [ acl severity level ] [ all severity level ] [ auth severity level ] [ authpriv severity level ] [ bootvar severity level ] [ callhome severity level ] [ cron severity level ] [ daemon severity level ] [ fcc severity level ] [ fcdomain severity level ] [ fcns severity level ] [ fcs severity level ] [ flogi severity level ] [ fspf severity level ] [ ftp severity level ] [ ipconf severity level ] [ ipfc severity level ] [ kernel severity level ] [ local0 severity level ] [ local1 severity level ] [ local2 severity level ] [ local3 severity level ] [ local4 severity level ] [ local5 severity level ] [ local6 severity level ] [ local7 severity level ] [ mail severity level ] [ mcast severity level ] [ module ] [ news ] [ ntp ] [ platform ] [ port ] [ port-channel ] [ qos ] [ rdl ] [ rib severity level ] [ rscn severity level ] [ scsi-target severity level ] [ security severity level ] [ syslog severity level ] [ sysmgr severity level ] [ tlport severity level ] [ user severity level ] [ uucp severity level ] [ vni severity level ] [ vrpp configuraion severity level ] [ engine severity level ] [ vsan severity level ] [ vshd severity level ] [ wwnm severity level ] [ xbar severity level ] [ zone severity level ]
```

Syntax	Description
logging level	Sets console logging.
acl	Sets 0-7 syslog filter level for acl manager. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
all	Sets 0-7 severity level for all facilities. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
auth	Sets 0-7 severity level for authorization system. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
authpriv	Sets 0-7 severity level for authorization (private) system. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
bootvar	Sets 0-7 severity level for bootvar. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
callhome	Sets 0-7 severity level for Callhome feature. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
cron	Sets 0-7 severity level 1 for Cron/at facility. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
daemon	Sets 0-7 severity level for system daemons 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
fcc	Sets 0-7 severity level for FCC. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug

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fcdomain	Sets 0-7 syslog message level for fcdomain. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
fcns	Sets 0-7 syslog filter level for name server 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
fcs	Sets 0-7 syslog filter level for FCS. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
flogi	Sets 0-7 syslog message level for flogi. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
fspf	Sets 0-7 syslog message level for FSPF. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
ftp	Sets 0-7 syslog message level for File Transfer System. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
ipconf	Sets 0-7 syslog message level for IP configuration. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
ipfc	Sets 0-7 syslog message level for IPFC. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
kernel	Sets 0-7 syslog message level for kernel. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
local0	Sets 0-7 syslog message level for local use daemons. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
local2	Sets 0-7 syslog message level for local use daemons. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
local3	Sets 0-7 syslog message level for local use daemons. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
local4	Sets 0-7 syslog message level for local use daemons. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
local5	Sets 0-7 syslog message level for local use daemons. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
local6	Sets 0-7 syslog message level for local use daemons. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
local7	Sets 0-7 syslog message level for local use daemons. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
lpr	Sets 0-7 syslog message level for line printer system. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
mail	Sets 0-7 syslog message level for mail system. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
mcast	Sets 0-7 syslog message level for mcast 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
module	Sets 0-7 syslog message level for module. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
news	Sets 0-7 syslog message level for USENET news 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
ntp	Sets 0-7 syslog message level for NTP. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
platform	Sets 0-7 syslog message level for platform manager. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug

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port	Sets 0-7 syslog message level for port. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
port-channel	Sets 0-7 syslog message level for a Port Channel. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
qos	Sets 0-7 syslog message level for QoS manager. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
rdl	Sets 0-7 syslog message level for RDL. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
rib	Sets 0-7 syslog message level for rib. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
rscn	Sets 0-7 syslog message level for RSCN. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
scsi-target	Sets 0-7 syslog message level for SCSI target. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
security	Sets 0-7 syslog message level for security. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
syslog	Sets 0-7 syslog message level for internal syslog messages. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
sysmgr	Sets 0-7 syslog message level for system manager. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
tlport	Sets 0-7 syslog message level for TL Port. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
user	Sets 0-7 syslog message level user process. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
uucp	Sets 0-7 syslog message level for Unix-to-Unix copy system. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
vni	Sets 0-7 syslog message level for virtual network interface. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
vrrp	Sets 0-7 syslog message level for vrrp. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
vrrp configuration	Sets 0-7 syslog message level 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
vrrp engine	Sets 0-7 syslog message level 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
vsan	Sets 0-7 syslog message level for VSAN. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
vshd	Sets 0-7 syslog message level for vshd. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
wwnm	Sets 0-7 syslog message level for WWN manager. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
xbar	Sets 0-7 syslog message level for Xbar. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
zone	Sets 0-7 syslog message level for for zone server. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug

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Defaults Disabled

Command Modes Configuration mode

Usage Guidelines None.

Examples

```
switch## config t
switch(config)##
switch(config)# logging level acl 1
switch(config)# logging level all 0
switch(config)# logging level auth 4
switch(config)# logging level authpriv 7
```

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logging logfile

To set message logging for logfile, use the **ile**command.

logging logfile *file name severity level*

Syntax	Description
logging logfile	Sets message logging for logfile.
<i>file name</i>	Enters the logfile name.
<i>severity level</i>	0-7 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug

Defaults None.

Command Modes Configuration mode

Usage Guidelines None.

Examples

```
switch## config t
switch(config)##
switch(config)# logging logfile logfile 2
```

Related Commands	Command	Description
	show logging logfile	Displays the message logging for the logfile.

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logging module

To set message logging for linecards, use the **logging module** command.

logging module *severity level*

Syntax	Description
logging module	Sets message logging for modules.
<i>severity level</i>	0-7 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug

Defaults None.

Command Modes Configuration mode

Usage Guidelines None.

Examples

```
switch## config t
switch(config)##
switch(config)# logging module 7
```

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logging monitor

To set monitor message logging, use the **logging monitor** command.

logging monitor *severity level*

Syntax	Description
logging monitor	Sets message logging.
<i>severity level</i>	0-7 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug

Defaults None.

Command Modes Configuration mode

Usage Guidelines None.

Examples

```
switch## config t
switch(config)##
switch(config)# logging monitor 2
```

Related Commands	Command	Description
	show logging monitor	Displays the message logging for the logfile.

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logging server

To set message logging for the remote server, use the **logging server** command.

logging server [*hostname* | *ip address* *severity_level* | **facility** **auth** | **authpriv** | **cron** | **daemon** | **ftp** | **kernel** | **local0** | **local1** | **local2** | **local3** | **local4** | **local5** | **local6** | **local7** | **lpr** | **mail** | **news** | **syslog** | **user** | **uucp**]

Syntax	Description
logging server	Sets message logging for remote server.
<i>hostname</i>	Enters host name for remote server.
<i>ip address</i>	Enters the IP address for the remote server.
<i>severity_level</i>	Enter severity level of message. 0-emerg;1-alert;2-crit;3-err;4-warn;5-notif;6-inform;7-debug
facility	Facility to use when forwarding to server
auth	Use auth facility
authpriv	Use authpriv facility
cron	Use Cron/at facility
daemon	Use daemon facility
ftp	Use file transfer system facility
kernel	Use kernel facility
local0	Use local0 facility
local1	Use local1 facility
local2	Use local2 facility
local3	Use local3 facility
local4	Use local4 facility
local5	Use local5 facility
local6	Use local6 facility
local7	Use local7 facility
lpr	Use lpr facility
mail	Use mail facility
news	Use USENET news facility
syslog	Use syslog facility
user	Use user facility
uucp	Use Unix-to-Unix copy system facility

Defaults None.

Command Modes Configuration mode

Usage Guidelines None.

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Examples

```
switch## config t
switch(config)##
switch(config)# logging sever sanjose 7
switch(config)# logging sever sanjose 7 facility auth
switch(config)# exit
```

Related Commands

Command	Description
show logging server	Displays the message logging for the remote server.
