



## S 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*.

- send
- setup
- snmp-server
- span session
- ssh key
- ssh server
- switchname
- system auto-sync
- system cores
- system default switchport trunk mode auto
- system switchover
- system trace

**Send documentation comments to [mdsfeedback-doc@cisco.com](mailto:mdsfeedback-doc@cisco.com).**

# send

To send a message to all active CLI users currently using the switch, use the **send** command

```
send line
```

---

## Syntax Description

<i>line</i>	The text of your message.
-------------	---------------------------

---



---

## Defaults

None

---

## Command Modes

Exec/

---

## Usage Guidelines

This message is restricted to 80 alphanumeric characters with spaces.

---

## Examples

This example sends a warning message to all active users about the switch being shut down.

```
switch# send Shutting down the system in 2 minutes. Please log off.
```

```
Broadcast Message from admin@excal-112
(/dev/pts/3) at 16:50 ...
```

```
Shutting down the system in 2 minutes. Please log off.
```

```
switch
```

*Send documentation comments to [mdsfeedback-doc@cisco.com](mailto:mdsfeedback-doc@cisco.com).*

# setup

To enter the switch setup mode, use the **setup** command

```
setup
```

---

**Syntax Description** This command has no arguments or keywords.

---

**Defaults** None

---

**Command Modes** Exec

---

**Usage Guidelines** Refer to the *MDS 9000 Family Configuration Guide* for more information on using the setup command.

---

## Examples

```
switch# setup
```

```
---- Basic System Configuration Dialog ----
```

```
This setup utility will guide you through the basic configuration of  
the system. Use ctrl-c to abort configuration dialog at any prompt.
```

```
Basic management setup configures only enough connectivity for  
management of the system.
```

```
Would you like to enter the basic configuration dialog (yes/no): yes
```

The setup utility guides you through the basic configuration process. Type **Ctrl-c** at any prompt, to end the configuration process.

*Send documentation comments to [mdsfeedback-doc@cisco.com](mailto:mdsfeedback-doc@cisco.com).*

## snmp-server

To set the contact information, switch location, and switch name, use the **snmp-server** command. Use the **no** form of the command to remove the system contact information.

**snmp-server** [ **community** *snmp community string* ][**ro** | **rw** ] [ **contact** *name* ] [**location** *location* ] [ **user** *name group auth md5 password priv password | sha password priv password* ]

### Syntax Description

<b>snmp-server</b>	Set the contact information, switch location, and switch name
<b>community</b>	Set community string and access privs
<i>snmp community string</i>	SNMP community string (Max Size - 32)
<b>ro</b>	Read-only access with this community string
<b>rw</b>	Read-write access with this community string
<b>contact</b>	Modify sysContact
<i>name</i>	Specify and modify sysContact
<b>location</b>	Modify sysLocation
<i>location</i>	Specify and modify sysLocation
<b>user</b>	Define a user who can access the SNMP engine
<i>name</i>	Name of the user
<i>group</i>	Group to which the user belongs (Max Size - 32)
<b>auth</b>	Authentication parameters for the user
<b>md5</b>	Use HMAC MD5 algorithm for authentication
<i>password</i>	Authentication password for user (Max Size - 64)
<b>priv</b>	Encryption parameters for the user
<i>password</i>	Privacy password for user (Max Size - 64)
<b>sha</b>	Use HMAC SHA algorithm for authentication
<i>password</i>	Authentication password for user (Max Size - 64)
<b>localizedkey</b>	Specifies that the passwords are in localized key format.

### Defaults

The default is "ro."

### Command Modes

Configuration mode

### Usage Guidelines

The localized keys are not portable across devices as they contain information on engineID of the device. If a configuration file is copied into the device, the passwords may not be set correctly if the configuration file was generated at a different device. So it is recommended that the passwords are explicitly configured to the desired passwords after copying the configuration into the device.

### Examples

```
switch# config t
switch(config)# snmp-server contact NewUser
switch(config)#
```

***Send documentation comments to [mdsfeedback-doc@cisco.com](mailto:mdsfeedback-doc@cisco.com).***

```
switch(config)# no snmp-server contact NewUser
switch(config)#
switch(config)# snmp-server location SanJose
switch(config)#
switch(config)# no snmp-server location SanJose
switch(config)#
switch(config)# snmp-server name NewName
switch(config)#
switch(config)# no snmp-server name NewName
switch(config)#
switch(config)# snmp-server user joe network-admin auth sha abcd1234
switch(config)#
switch(config)# snmp-server user sam network-admin auth md5 abcdefgh
switch(config)#
switch112(config)# snmp-server user Bill network-admin auth sha abcd1234 priv abcdefgh
switch112(config)#
switch112(config)# no snmp-server user usernameA
switch112(config)# snmp-server user user1 network-admin auth md5 0xab0211gh priv
0x45abf342 localizedkey
```

*Send documentation comments to [mdsfeedback-doc@cisco.com](mailto:mdsfeedback-doc@cisco.com).*

## span session

To configure a SPAN session, use the **span session** command. Use the **no** form of the command to remove the system contact information.

**span session** *session id* [ **destination interface fc** *slot\_number* ] [ **exit** ] [ **no** ] [ **source filter vsan** *range* | **interface fc** *slot\_number* | **port-channel** *port channel number* | **sup-fc inband interface number** | ] [ **suspend** ]

Syntax	Description
<b>span session</b>	Enter SPAN session configuration
<i>session id</i>	Enter SPAN session id 1-16
<b>destination</b>	SPAN destination configuration
<b>exit</b>	Exit from this submode
<b>interface</b>	SPAN destination configuration
<b>fc</b>	Fiber Channel interface
<i>slot_number</i>	Slot number
<b>no</b>	Negate a command or set its defaults
<b>source</b>	SPAN source configuration
<b>filter</b>	SPAN session filter configuration
<b>vsan</b>	SPAN source vsan configuration
<b>interface</b>	SPAN source interface configuration
<i>range</i>	Enter a vsan range 1 - 4093
<b>fc</b>	Fiber Channel interface
<i>slot_number</i>	Slot number
<b>port-channel</b>	Port Channel interface
<i>port channel number</i>	Port Channel number 1-128
<b>sup-fc</b>	Inband Interface
<i>inband interface number</i>	Inband Interface number 0-0
<b>suspend</b>	SPAN suspend session

**Defaults** None.

**Command Modes** Configuration mode

**Usage Guidelines** None.

### Examples

```
switch# config t
switch(config)# span session 1
switch(config-span)#
switch(config)# no span session 6
```

***Send documentation comments to mdsfeedback-doc@cisco.com.***

```

switch(config-span)# destination interface fc9/1
switch(config-span)# no destination interface fc1/5
switch(config-span)# source interface sup-fc0
switch(config-span)# source vsan1
switch(config-span)# source interface po1
switch(config-span)# no source interface po3
switch(config-span)# suspend
switch(config-span)# no suspend
switch(config-span)# exit
switch(config)# span session 1
switch(config-span)#
switch(config-span)# source interface fc9/1 tx filter vsan 1
switch(config-span)# source filter vsan 1-2

```

### Related Commands

Command	Description
<b>show span session</b>	Displays all SPAN session information.
<b>show span session number</b>	Displays specific SPAN session information.

*Send documentation comments to [mdsfeedback-doc@cisco.com](mailto:mdsfeedback-doc@cisco.com).*

## ssh key

To generate a host key, use the **ssh key** command.

**ssh key** *dsa number* | *rsa number* | *rsa1number*

Syntax	Description
<b>ssh key</b>	Generate a host key
<b>dsa</b>	Generate DSA keys
<b>rsa</b>	Generate RSA keys
<b>rsa1</b>	Generate RSA1 keys
<i>number</i>	Enter number of bits 768-2048

**Defaults** Disabled

**Command Modes** Configuration mode

**Usage Guidelines** None.

### Examples

```
switch# config t
switch(config)# ssh key rsa1 1024
generating rsa1 key.....
generated rsa1 key
switch(config)#
switch(config)# ssh key dsa 1024
generating dsa key.....
generated dsa key
switch(config)#
switch(config)# ssh key rsa 1024
generating rsa key.....
generated rsa key
switch(config)#
switch(config)# no ssh key rsa 1024
cleared RSA keys
switch(config)#
```

Related Commands	Command	Description
	<b>ssh server enable</b>	Enable SSH server



*Send documentation comments to [mdsfeedback-doc@cisco.com](mailto:mdsfeedback-doc@cisco.com).*

## ssh server

To enable the SSH service, use the **ssh sever enable** command.

The **no** form of the command disables the SSH service.

Syntax	Description
<b>ssh sever</b>	Configure SSH Server parameters
<b>enable</b>	Enable SSH server
<b>no</b>	Disable the SSH service

**Defaults** Disabled

**Command Modes** Configuration mode

**Usage Guidelines** None.

**Examples**

```
switch# config t
switch(config)# ssh server enable
updated
switch(config)# no ssh server enable
updated
```

Related Commands	Command	Description
	<b>ssh key</b>	Generate SSH Key.

*Send documentation comments to [mdsfeedback-doc@cisco.com](mailto:mdsfeedback-doc@cisco.com).*

## switchname

To change the name of the switch, use the **switchname** command. The no form of the command reverts the switch name to default name.

**switchname** *name*

**no switchname** *name*

Syntax	Description
<b>switchname</b>	Changes or assigns switch name
<i>name</i>	Enter switchname
<b>no</b>	Reverts the switch name prompt to its factory default (switch#)

**Defaults** Disabled.

**Command Modes** Configuration mode

**Usage Guidelines** None.

### Examples

```
switch# config t
switch(config)# switchname myswitch1
myswitch1(config)#
myswitch1(config)# no switchname
switch(config)#
```

Related Commands	Command	Description
	<b>snmp-server</b>	Set the contact information, switch location, and switch name within the limit of 20 characters (without spaces)

*Send documentation comments to [mdsfeedback-doc@cisco.com](mailto:mdsfeedback-doc@cisco.com).*

## system auto-sync

To synchronize the standby supervisor module software image with the bootflash image, use the **system auto-sync** command. The no form of this command disables auto syncing of the image.

**system auto-sync image**

**no system auto-sync image**

Syntax	Description
<b>system</b>	System configuration commands
<b>auto-sync image</b>	System auto-sync image

**Defaults** Disabled

**Command Modes** Configuration mode

**Usage Guidelines** None.

### Examples

```
switch# config t
switch(config)# system auto-sync image
switch(config)# no system auto-sync image
Automatic synchronization of BOOT and KICKSTART is now disabled
switch(config)#
```

*Send documentation comments to [mdsfeedback-doc@cisco.com](mailto:mdsfeedback-doc@cisco.com).*

## system cores

To copy the core and log files periodically, use the **system cores** command. The **no** form of this command reverts the switch to factory defaults.

**system cores slot0 | tftp:**

**no system cores**

Syntax	Description
<b>system</b>	System configuration commands
<b>cores</b>	Copy cores to destination
<b>no</b>	Reverts to factory defaults
<b>slot0</b>	Select destination filesystem
<b>tftp:</b>	Select destination filesystem

**Defaults** None.

**Command Modes** Configuration mode

**Usage Guidelines** Create any required directory before issuing this command. If the directory specified by this command does not exist, the switch software logs a syslog message each time a copy cores is attempted.

**Examples**

```
switch# config t
switch(config)# system cores slot0:coreSample
switch(config)#
switch(config)# no system cores
switch(config)#
```

Related Commands	Command	Description
	<b>show system cores</b>	Displays the currently configured scheme for copying cores.

*Send documentation comments to [mdsfeedback-doc@cisco.com](mailto:mdsfeedback-doc@cisco.com).*

## system default switchport trunk mode auto

To configure default values for various switchport attributes, use the **system default switchport** command.

```
system default switchport [ shutdown ] [ trunk mode auto | off | on ]
```

Syntax	Description
<b>system</b>	System configuration commands
<b>default</b>	Configure system default values
<b>switchover</b>	Configure default values for switchport attributes
<b>shutdown</b>	Disable/enable switchports by default
<b>trunk</b>	Configure trunking parameters as a default
<b>mode</b>	Configure trunking mode
<b>auto</b>	Autosense trunking
<b>off</b>	Disable trunking
<b>on</b>	Enable trunking

**Defaults** Enabled

**Command Modes** Configuration mode

**Usage Guidelines** Attributes configured using this command will be applied globally to all future switchport configurations, even if you do not individually specify them at that time.

**Examples**

```
switch# config t
switch(config)# system default switchport shutdown
switch(config-if)#
switch(config)# no system default switchport shutdown
switch(config-if)#
switch(config)# system default switchport trunkmode auto
switch(config-if)#
```

Related Commands	Command	Description
	<b>show system default switchport</b>	Shows default values for switchport attributes.

*Send documentation comments to [mdsfeedback-doc@cisco.com](mailto:mdsfeedback-doc@cisco.com).*

## system switchover

To specifically initiate a switchover from an active supervisor module to a standby supervisor module, use the **system switchover** command.

**system switchover**

### Syntax

Syntax	Description
<b>system</b>	System configuration commands
<b>switchover</b>	To configure switchover for system
<b>ha</b>	Enables HA
<b>warm</b>	Enables warm switchover

### Defaults

**system switchover ha**

### Command Modes

Configuration mode

### Usage Guidelines

Perform a switchover when the switch has two supervisor modules functioning in the switch. The **system switchover** command returns a `Failed to switchover: (supervisor has no standby)` message when the standby supervisor is not present in the switch.

Any switchover function is nonrevertive. Once a switchover has occurred and the failed processor has been replaced or successfully restarted, you can not switch back to the original, active supervisor module (unless there is a subsequent failure or you issue the **system switchover** command).

### Examples

```
switch# config t
switch(config)#
switch(config)# system switchover warm
switch(config)# system switchover HA
switch(config)#
switch(config)# no system switchover
switch(config)#
```

### Related Commands

Command	Description
<b>show version compatibility</b>	Determine version compatibility between switching modules.
<b>show module</b>	Display the HA-standby state for the standby supervisor module.
<b>show system redundancy status</b>	Determines whether the system is ready to accept a switchover.

*Send documentation comments to [mdsfeedback-doc@cisco.com](mailto:mdsfeedback-doc@cisco.com).*

## system trace

To configure system trace level, use the **system trace** command.

**system trace** *subnet mask*

Syntax	Description
<b>system</b>	System configuration commands
<b>trace</b>	System trace level
<i>subnet mask</i>	Select the mask.

**Defaults** None.

**Command Modes** Configuration mode

**Usage Guidelines** None.

**Examples**

```
switch# config t
switch(config)#
switch(config)# system trace
???
```

***Send documentation comments to [mdsfeedback-doc@cisco.com](mailto:mdsfeedback-doc@cisco.com).***