



Configuring the Switch with the CLI-Based Setup Program

This chapter provides a quick installation and setup procedure for the switch module by using the command-line interface (CLI).



Note

For detailed installation procedures, see [Chapter 2, “Switch Installation.”](#) For product overview information, see [Chapter 1, “Product Overview.”](#)

These are the major steps for a quick installation when using the CLI:

1. [Accessing the CLI Through the Console Port, page C-1](#)
2. [Taking Out What You Need, page C-1](#)
3. [Connecting to the Console Port, page C-2](#)
4. [Completing the Initial Configuration, page C-4](#)

Accessing the CLI Through the Console Port

You can access the CLI on a configured or unconfigured switch module by connecting the console port of the switch module to the serial port on your PC or workstation and accessing the switch module through a Telnet session.

Taking Out What You Need

These items ship with your switch module:

- Console cable
- *Cisco Catalyst Blade Switch 3020 for HP Getting Started Guide*
- *Regulatory Compliance and Safety Information for the Cisco Catalyst Blade Switch 3020 for HP*
- Registration card

Follow these steps:

1. Unpack and remove the switch module and the accessory kit from the shipping box.
2. Return the packing material to the shipping container, and save it for future use.

**Note**

If the switch modules are ordered with the blade server, the switch modules are already installed, and no unpacking is required. The unpacking procedure applies only if a switch module is ordered separately.

**Note**

You need to provide the Category 5 straight-through cables to connect the switch module ports to other Ethernet devices.

Connecting to the Console Port

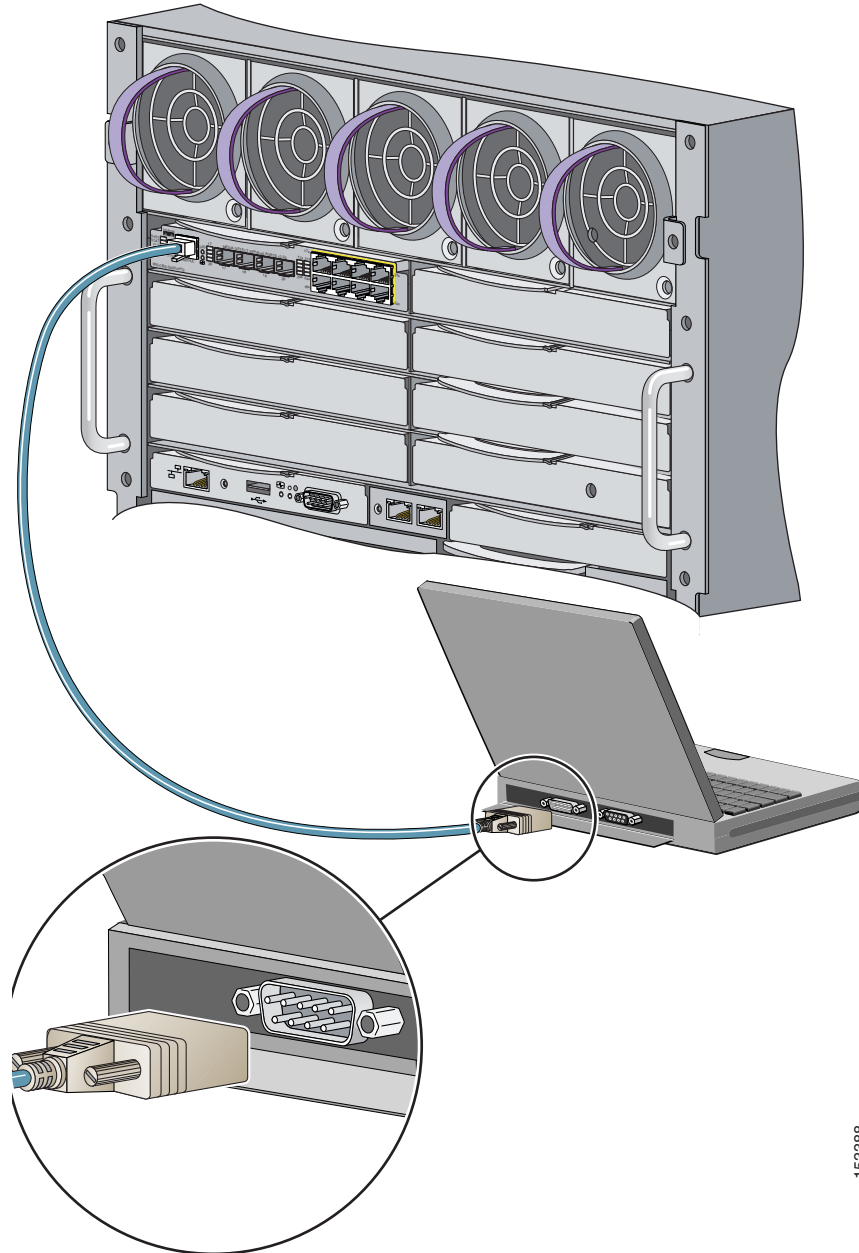
Obtain and make note of this information from your network administrator before you begin the switch module installation:

- Switch IP address
- Subnet mask (IP netmask)
- Default gateway (router)
- Enable secret password (encrypted)
- Enable password (not encrypted)
- Telnet password
- SNMP community strings (optional)

Step 1 Connect one end of the console cable to the switch module console port. Connect the other end of the cable to the serial port of the computer that is running the terminal emulation application. (See [Figure C-1](#).)

You can use the **mdix auto** interface configuration command in the CLI to enable the automatic medium-dependent interface crossover (auto-MDIX) feature. When the auto-MDIX feature is enabled, the switch module detects the required cable type for copper Ethernet connections and configures the interfaces accordingly. Therefore, you can use either a crossover or a straight-through cable for connections to a copper 10/100/1000 or 1000BASE-T SFP module port on the switch module, regardless of the type of device on the other end of the connection.

For configuration information for this feature, refer to the switch module software configuration guide or the switch module command reference.

Figure C-1 Connecting through the Switch Module Console Port

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- Step 2** Start the terminal emulation session so that you can see the output display from the power-on self-test (POST). The terminal-emulation software—a PC application such as Hyperterminal or ProcommPlus—makes communication between the switch module and your PC or terminal possible.

Configure the baud rate and character format of the PC or terminal to match these console port default characteristics:

- 9600 baud
- 8 data bits
- 1 stop bit
- No parity
- None (flow control)

- Step 3** Wait for the switch module to complete the POST. It might take several minutes for the switch module to complete POST.
- Step 4** Verify that POST has completed by confirming that the system and status LEDs remain green. If the switch module fails POST, the system LED turns amber. POST errors are usually fatal. Call Cisco Systems immediately if your switch module fails POST.
- Step 5** Wait for the switch to complete flash initialization. When you see the prompt, `Press Return to Get Started!`, press **Return** or **Enter**.
- Step 6** Make sure that the system and status LEDs are green. This means that the switch module is operating properly.
- Step 7** See the “[Completing the Initial Configuration](#)” section on page C-4 for instructions on setting up and initially configuring the switch module.
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Completing the Initial Configuration

Follow these steps to complete the setup program and to create an initial configuration for the switch module.



Note

For information about automatically configuring the switch module, see the “Assigning the Switch IP Address and Default Gateway” chapter in the switch module configuration guide.

- Step 1** After you have pressed **Enter** or **Return** after the prompt to start the initial configuration setup program, enter **yes** at these prompts:

```
Would you like to terminate autoinstall? [yes]: yes
--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: yes
```

At any point you may enter a question mark '?' for help.
Use `ctrl-c` to abort configuration dialog at any prompt.
Default settings are in square brackets '[]'.

```
Basic management setup configures only enough connectivity
for management of the system, extended setup will ask you
to configure each interface on the system
```

```
Would you like to enter basic management setup? [yes/no]: yes
Configuring global parameters:
```

- Step 2** Enter a hostname for the switch module after the prompt, and press **Return**.
The hostname is limited to 20 characters. Do not use *-n*, where *n* is a number, as the last character in a hostname for any switch module.
- Step 3** Enter an enable secret password, and press **Return**.
The password can be from 1 to 25 alphanumeric characters, can start with a number, is case sensitive, allows spaces, but ignores leading spaces. The secret password is encrypted, and the enable password is in plain text.
- Step 4** Enter an enable password, and press **Return**.
- Step 5** Enter a virtual terminal (Telnet) password, and press **Return**.
The password can be from 1 to 25 alphanumeric characters, is case sensitive, allows spaces, but ignores leading spaces.
- Step 6** (Optional) Configure Simple Network Management Protocol (SNMP) by responding to the prompts.
- To configure SNMP later, press **Return** (which applies the default of no). If you accept the default, you can configure SNMP later through the CLI.
Configure SNMP Network Management? [no]:
 - To configure SNMP now, enter **yes**.
Configure SNMP Network Management? [no]: **yes**
Community string [public]: public
- Step 7** Enter the interface name (physical interface or VLAN name) of the interface that connects to the management network, and press **Return**.
Enter **vlan1** for the interface name at this prompt.
- Step 8** To configure the interface, enter **Yes** after the prompt, and then enter the switch module IP address and subnet mask. Press **Return**.
The IP address and subnet mask shown here are examples:
Configuring interface Vlan1:
Configure IP on this interface? [yes]:
IP address for this interface [10.0.0.1]:
Subnet mask for this interface [255.255.255.0] : 255.255.255.0
Class A network is 10.0.0.1, 21 subnet bits; mask is /21
- Step 9** Enter **no** when the prompt asks you if you would like to enable the switch module as a cluster command switch. This switch module will be a standalone switch.
Would you like to enable as a cluster command switch? [yes/no]: **no**



Note The Cisco Catalyst Blade Switch 3020 for HP does not support clustering.

You have now completed the initial configuration of the switch module, and the switch module displays its initial configuration. An example of the output is shown here:

```
The following configuration command script was created:
hostname switch1
enable secret 5 $1$cagJ$e4LP91PNazfdADoNAZm6y0
enable password enable_password
line vty 0 15
password terminal-password
snmp-server community public
!
```

```
!  
interface Vlan1  
no shutdown  
ip address 10.0.0.1 255.255.255.0  
!  
interface GigabitEthernet0/1  
!  
interface GigabitEthernet0/2  
  
. . . (output truncated)
```

```
interface GigabitEthernet0/16  
!  
end
```

Step 10 These choices appear:

- [0] Go to the IOS command prompt without saving this config.
- [1] Return back to the setup without saving this config.
- [2] Save this configuration to nvram and exit.

If you want to save the configuration and use it the next time the switch reboots, save it in NVRAM by selecting option 2.

Enter your selection [2]:**2**

Make your selection, and press **Return**.

Step 11 Disconnect the blade server serial port or the switch module console port from the PC. See the [“Management Options” section on page 1-6](#) for information about managing the switch module.