

## NETGEAR ProSAFE Managed Switches

M4100

### Set Up the Switch

Prepare the installation site so that mounting, access, power source, and environmental requirements are met. For more information about these requirements, see the hardware installation guide on the resource CD.

#### ➤ To set up the switch:

1. Install the switch using one of the following methods:
  - **On a flat surface.** Put one of the rubber footpads that came with the switch on each of the four concave spaces on the bottom of the switch.
  - **In a rack.** Use the rack-mount kit supplied with your switch, following the installation instructions in the hardware installation guide.

2. Apply AC power.

The Power LED blinks yellow as it conducts a power-on self-test (POST). After the switch passes the POST, the LED lights green. The switch is functional. If the LED does not light green, see the following troubleshooting tips:

- If POST fails, the Power LED remains yellow. See the troubleshooting section of the hardware installation guide for more information.
- If the Power LED does not light, check that the power cable is

plugged in correctly and that the power source is functioning. If this action does not resolve the problem, see the troubleshooting section of the hardware installation guide for more information.

3. Connect devices to the switch. NETGEAR recommends using the following Ethernet cables and SFP modules:
  - Use Cat5e for copper ports at 1000 Mbps.
  - Use NETGEAR AGM731F or AGM732F for fiber ports at 1000 Mbps.
  - Use NETGEAR AFM735 for fiber ports at 100 Mbps.

**Note:** Fiber SFP modules are shipped separately. For more information about installing an SFP module, see the hardware installation guide.

### Perform the Initial Configuration

You can manage your switch through its web management interface or by using the command-line interface (CLI) through a console port. This guide shows you how to configure your switch using the web management interface. It also covers using the CLI to determine a DHCP-assigned IP address or using ezconfig to assign a static IP address. For more information about CLI management, see the CLI reference manual and software administration guide on the resource CD.

To configure your switch using web management, use one of the following procedures, depending on how your Windows computer is set up:

- Computer in DHCP Client Mode Without a DHCP Server.
- Computer with a Static IP Address.
- Computer in DHCP Client Mode with DHCP Server.

#### Computer in DHCP Client Mode Without a DHCP Server

The switch assumes a default IP address of 169.254.100.100 and a subnet mask of 255.255.0.0. The switch is in the same subnet used by the

computer NIC port when in DHCP-client mode without a DHCP server present. Use this IP value to log in to the switch.

#### Computer with a Static IP Address

When the computer is in this mode, the switch must also be assigned a static IP address. To assign a static IP address, connect a VT100/ANSI terminal or a workstation to one of the switch's console ports. A cable for the mini USB port and a straight-through RJ-45 cable are supplied.

#### ➤ To configure the switch:

1. Start a terminal emulation program (TEP):
  - **Windows XP or earlier.** Use HyperTerminal.
  - **Windows Vista or later.** Use a TEP from the Internet.
  - **Macintosh.** Use ZTerm.
  - **UNIX.** Use a terminal emulator such as TIP.
2. Select a console port using the console switch on the rear panel:
  - **Mini USB port** (cable included).

**Note:** You might need to install the USB serial port driver available on the resource CD before you can use the USB port on the computer to connect to the switch.
  - **DB9** (cable not included).
3. Configure the TEP with the following settings (written below the connector on the switch front panel):
  - **Baud rate.** 115200 bps
  - **Data bits.** 8
  - **Parity.** none
  - **Stop bit.** 1
  - **Flow control.** none
4. At the user prompt, log in to the switch using the user name **admin** and press Enter.
5. At the password prompt, press Enter again (no password is needed for initial configuration).
6. At the next command prompt, type **ezconfig** and press Enter.

The ezconfig utility is now running in the switch.

7. Set a static IP address and subnet mask using the ezconfig utility as shown in the following example.

```
(Netgear Switch) #ezconfig
EZ Configuration utility
-----
Hello and welcome!
This utility will walk you thru assigning the IP address for the switch
management CPU. It will allow you to save the changes at the end. After
the session, simply use the newly assigned IP address to access the web
GUI using any public domain web browser.

Admin password is not defined.
Do you want to assign the admin password (password length must be in range of 8 - 64 characters) (Y/N/Q)? y
Enter new password:*****
Confirm new password:*****

The 'enable' password required for switch configuration via the command
line interface is currently not configured.
Do you want to assign it (password length must be in range of 8 - 64 characters) (Y/N/Q)? y
Enter new password:*****
Confirm new password:*****
Current Management VLAN ID: 1
Do you want to set new Management VLAN ID (Y/N/Q)?y
VLAN ID: 2
Assigning an IPv4 address to your switch management
Current IPv4 Address Configuration
-----
Management VLAN ID: 2
IPv4 Address Assignment Mode: Manual
IPv4 Address: 0.0.0.0
Subnet Mask: 0.0.0.0
Default Router IPv4: 0.0.0.0
Routing Mode: Enable
IPv4 address has been assigned manually. What do you want to do?
C - Change IPv4 address.
D - Assign IPv4 address for the switch using DHCP Mode(current IPv4 address will be
lost).
N - Skip this option and go to the next question.
Q - Quit.
? - Help.
(C/D/N/Q/?)? c
IPv4 Address: 10.10.10.150
Network Mask: 255.128.0.0
Default Router IPv4: 10.10.0.1
Do you want to enable routing (Y/N)?y
Current Management Interface Configuration
-----
Management Interface:
V - Change to L3 Management VLAN.
N - Skip this option and go to the next question.
Q - Quit.
? - Help.
(O/V/N/Q/?)?v
Assigning system Name, System Location and System Contact to your switch management
Current Configuration
-----
System Name:
System Location:
System Contact:

Do you want to assign switch name and location information? (Y/N/Q)y
System Name:chassis
System Location:serverRoom#2
System Contact:Tommas
Assigning SNTP server for time stamp to your switch management
Current Configuration
-----
SNTP system clock server: unicast
SNTP server:
Do you want to enable SNTP system clock server? (Y/N/Q)y
SNTP server:netgear-time.com
Do you want to apply and save the changes (Y/N)? y
Config file 'startup-config' created successfully .
The configuration changes have been applied and saved.
Please enter 'show running-config' to see the final configuration.
Thanks for using EzConfig!
```

Make sure that the switch IP address is in the same subnet as the computer.

8. Use the switch IP address returned by ezconfig to log in to the switch. For information about how to perform extensive CLI management, see the CLI reference manual and the software administration guide.

## Computer in DHCP Client Mode with DHCP Server

By default, the switch is configured as a DHCP client to obtain its IP address from a DHCP server in the connected network. You need to access the switch from the serial console port.

### ➤ To configure the switch:

1. Make sure that the switch is connected to a DHCP server.
2. Find the switch IP address assigned by the DHCP server.
  - a. Perform steps 1 through 3 of the procedure *Computer with a Static IP Address*.
  - b. Type the **show ip interface vlan <management VLAN ID>** command, and press Enter.

By default, the management VLAN ID is 1.

The active switch IP address displays.

3. Log in to the switch through its web management interface using this IP address.

## Log in to the Switch from the Web

Manage your switch through its web interface with the appropriate IP address for your configuration.

1. Type **http://<ipaddress>** into the URL field of your browser. The login screen displays.

2. Type **admin** for the user name, leave the password field blank and click **LOGIN**.

The System Information screen displays. You can now navigate from this point to configure your switch.

## Support

Thank you for selecting NETGEAR products.

After installing your device, locate the serial number on the label of your product and use it to register your product at <https://my.netgear.com>.

You must register your product before you can use NETGEAR telephone support. NETGEAR recommends registering your product through the NETGEAR website. For product updates and web support, visit <http://support.netgear.com>.

NETGEAR recommends that you use only the official NETGEAR support resources.

For the current EU Declaration of Conformity, visit [http://support.netgear.com/app/answers/detail/a\\_id/11621/](http://support.netgear.com/app/answers/detail/a_id/11621/).

For regulatory compliance information, visit <http://www.netgear.com/about/regulatory/>.

See the regulatory compliance document before connecting the power supply.



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