NETGEAR
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Installation Guide

M4500 Intelligent Fully Managed Switches
M4500-32C and M4500-48XF8C

1. 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, which you can download by visiting *netgear.com/support/download/*.

1. Install the switch using one of the following methods:
   - **On a flat surface**. Place the switch on a flat surface.
   - **In a rack**. Use the rack-mount kit that is supplied with your switch, following the installation instructions in the hardware installation guide.
2. Apply AC power.

   The Power LED lights solid yellow while the switch conducts a power-on self-test (POST). After the switch passes the POST, the Power LED lights solid green, and the switch is functional. If the Power LED does not light green, see the following information:
   - If the Power LED remains solid yellow, the POST failed. For more information, see the hardware installation guide.
   - If the Power LED does not light at all, check to see 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 hardware installation guide for more information.
3. Connect devices to the switch.

   We recommend using the following SFP modules or cables:
   - For 10G fiber connectivity:
     - SFP modules: NETGEAR AXM761, AXM762, or AXM764
     - Cables: NETGEAR AXC761 (1 m), AXC763 (3 m), AXC765 (5 m), AXC767 (7 m), AXC7610 (10 m), AXC7615 (15 m), or AXC7620 (20 m)
   - For 40G fiber connectivity:
     - SFP modules: NETGEAR AXLM761 or AXLM762
     - Cables: NETGEAR AXLC761 (1m) or AXLC763 (3m)
   - For 100G fiber connectivity:
     - SFP modules: NETGEAR ACM761 or ACM762
     - Cables: NETGEAR ACC761 (1m) or ACC763 (3m)

Note: The QSFP28 ports on models M4500-48XF8C and M4500-32C are preconfigured for 100G speed. If you want to use a 40G SFP module in a QSFP28 port, you first must configure the port for 40G speed. The SFP28 ports on model M4500-48XF8C are preconfigured for 10G speed.

Note: If purchased, SFP modules and cables are shipped separately. For more information about installing an SFP module, see the hardware installation guide.

2. Configure the IP address of the switch

You can access the switch through its console port, its out-of-band (OOB) port (which is also referred to as the service port), or through an Ethernet network port (which is also referred to as the management interface).

To configure the IP address of the switch, use *one* of the following methods:

- **CLI**. Use the command-line interface (CLI) through the RJ-45 RS232 console port to configure the IP address manually (see *Use the CLI to configure the IP address*).
- **DHCP server**. Connect a DHCP server through an OOB port or through any Ethernet network port and find the assigned IP address (see *Find the IP address assigned by the DHCP server*).

After you configure or find the IP address of the switch, you can configure the features of the switch through the CLI.

Use the CLI to configure the IP address

To use the CLI for initial configuration and assign a static or dynamic IP address to the switch, connect a computer or VT100/ANSI terminal to one of the console ports on the switch.

1. Connect one end of the console cable that is included in the product package to the RJ-45 RS232 console port on the switch and connect the other end to your computer or terminal.
2. If you connect a computer to a console port on the switch, start a terminal emulation program:
   - On a computer with a Windows operating system, you can use HyperTerminal or Tera Term.
   - On a computer with a Mac operating system, you can use ZTerm.
   - On a computer with a Linux operating system, you can use TIP.
3. If you connect a computer to the console port on the switch, configure the terminal emulation program to use the following settings: baud rate, 115,200 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, do not type a password but press Enter.

   You do not need to type a password for initial access.
6. Set up a password for the user name **admin**, as prompted by the CLI.

   The password requires eight or more characters.
7. Log in again using the user name **admin** and your new password.

   Note: For more information, see the software administration and configuration guide, which you can download by visiting *netgear.com/support/download/*.

   You can now use the CLI to manually configure the following settings:
   - *Option 1. Configure the IP address for access over the service port*
   - *Option 2. Configure the switch as a DHCP client for access over the service port*
   - *Option 3. Configure the switch IP address for access over an Ethernet port*
   - *Option 4. Configure the switch as a DHCP client for access over an Ethernet port*

Option 1. Configure the IP address for access over the service port

To disable DHCP and manually configure the IP address so that you can access the switch over the service port, enter the following commands:

```
(switch)#configure
(switch)#serviceport protocol none
(switch)#serviceport ip ipaddress netmask [gateway]
```

The following configuration is an example:

```
(switch)#serviceport ip 192.168.2.23 255.255.255.0 192.168.2.1
```

Option 2. Configure the switch as a DHCP client for access over the service port

To enable the DHCP client for dynamic IP address assignment so that you can access the switch over the service port, enter the following commands:

```
(switch)#configure
(switch)#serviceport protocol dhcp
```

Option 3. Configure the switch IP address for access over an Ethernet port

To disable DHCP and manually configure the IP address settings so that you can access the switch over an Ethernet port, enter the following commands:

```
(Switch)#configure
(Switch)(config)#interface vlan 1
(Switch)(if-vlan 1)#ip address ipaddress netmask
(Switch)(if-vlan 1)#exit
(Switch)(Config)#ip default-gateway gateway
```

The following configuration is an example:

```
(Switch)(if-vlan 1)#ip address 192.168.1.253 255.255.255.0
(Switch)(Config)#ip default-gateway 192.168.1.254
```

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Option 4. Configure the switch as a DHCP client for access over an Ethernet port

To enable the DHCP client for dynamic IP address assignment so that you can access the switch over an Ethernet port, enter the following commands:

```
(Switch)#configure
(Switch) (Config)#interface vlan 1
(Switch) (if-vlan1)#ip address dhcp
```

Note: For information about CLI management, see the CLI reference manual, which you can download by visiting *netgear.com/support/download/*.

Find the IP address assigned by the DHCP server

To find the IP address that the DHCP server assigned to the switch's service port or management interface, connect a computer or VT100/ANSI terminal to the RJ-45 RS232 console port on the switch.

1. Make sure that the switch is connected to a DHCP server.
2. Set up a console connection with the switch.

   For information about setting up a console connection, see .

   After you are logged in and at the CLI command prompt, continue with the next step.
3. At the command prompt, type one of the following commands:
   - To find the IP address of the service port, type the **show serviceport** command, and press Enter.
   - To find the IP address of the management interface, type the **show ip interface** command, and press Enter.

   The active IP address displays.
4. Write down the IP address for later use.

3. Configure and manage the switch

To configure and manage the switch, log in to the switch over a Telnet connection to port 1223 and the IP address of either the service port or the management interface, type the **telnet** *IP address* **1223** command, and press Enter. You must use port 1223. For example, if the IP address of the management interface is 192.168.1.253, type the **telnet 192.168.1.253 1223** command, and press Enter.

Available publications

For more information, see the following guides and manual, which you can download by visiting *netgear.com/support/download/*:

- Hardware installation guide
- Software administration and configuration guide
- CLI reference manual

Support

Thank you for purchasing this NETGEAR product. You can visit *https://www.netgear.com/support/* to register your product, get help, access the latest downloads and user manuals, and join our community. We recommend that you use only official NETGEAR support resources.

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(If this product is sold in Canada, you can access this document in Canadian French at *https://www.netgear.com/support/download/*.)

For regulatory compliance information including the EU Declaration of Conformity, visit *https://www.netgear.com/about/regulatory/*.

See the regulatory compliance document before connecting the power supply.

Do not use this device outdoors. If you connect cables or devices that are outdoors to this device, see *https://kb.netgear.com/000057103* for safety and warranty information.

NETGEAR, Inc.
350 East Plumeria Drive
San Jose, CA 95134, USA

NETGEAR INTERNATIONAL LTD
Floor 1, Building 3
University Technology Centre
Curraheen Road, Cork,
T12EF21, Ireland