

Quick Start

NetVanta 3448 Router

GETTING STARTED

This NetVanta unit ships with a statically assigned IP address of 10.10.10.1 and the ability to connect to a Dynamic Host Control Protocol (DHCP) network and receive an IP address assignment from a DHCP server. When connecting to a DHCP network, this unit supports Zero-Touch Provisioning, allowing the NetVanta router to download and apply configuration parameters from a configuration management server.

Regardless of the method you use to connect the NetVanta unit to the network, there are two methods available for configuration:

- Web-based graphical user interface (GUI)
- ADTRAN Operating System (AOS) command line interface (CLI)

The GUI lets you configure the main unit settings and provides online guidance and explanations for each setting. However, using the AOS CLI may be necessary for more advanced configurations.

ACCESS THE GUI

You may access the GUI from a web browser in one of two ways:

Connect via the Static Address

1. Connect the router to your PC using the switch port labeled **1** on the back of the unit.
2. Set your PC to a fixed IP address of **10.10.10.2**. To change your PC IP address, navigate to **Computer > Control Panel > Network Connections > Local Area Connection > Properties > IP (TCP/IP)** and select **Use this IP Address**. Enter these parameters:
 - IP Address: **10.10.10.2**
 - Subnet Mask: **255.255.255.0**
 - Default Gateway: **10.10.10.1**

You do not need to enter any DNS server information. After the information is entered, select **OK** twice, and close the Network Connections dialog box. If you cannot change the PC's IP address, you will need to change the unit's IP address using the CLI. (Refer to the next two sections for instructions.)

3. Open a web browser and enter the unit's IP address in your browser address line as follows: **http://10.10.10.1**. The default IP address is **10.10.10.1**, but if you had to change the unit's IP address using the CLI, enter that address in the browser line.
4. The initial GUI screen appears.

Connect via the DHCP Client Address

1. Connect the router to an existing network that supports DHCP using the switch port labeled **1** on the back of the device. The NetVanta unit will automatically request an IP address assignment from the DHCP server.

2. Check the DHCP server and record the IP address assigned to the NetVanta unit.
3. Open a web browser on any network PC that can route to the IP address recorded in Step 2 and enter the NetVanta unit's IP address.
4. The initial GUI screen appears.

ACCESS THE CLI

Access the AOS CLI via the **CONSOLE** port or a Telnet or SSH session. To establish a connection to the NetVanta unit **CONSOLE** port, you need the following items:

- PC with VT100 terminal emulation software.
- Straight-through serial cable with a DB-9 (male) connector on one end and the appropriate interface for your terminal or PC communication port on the other end.



NOTE

There are many terminal emulation applications available on the web. PuTTY, SecureCRT, and HyperTerminal are a few examples.

1. Connect the DB-9 (male) connector of your serial cable to the **CONSOLE** port on the back panel of the unit.
2. Connect the other end of the serial cable to the terminal or PC.



NOTE

Many PCs do not come with a standard serial port. A universal serial bus (USB) to serial adapter can be used instead. The drivers for the USB to serial adapter must be installed according to the manufacturer's instructions. If the USB to serial adapter is not properly installed on your PC, you will not be able to communicate with the AOS unit and you should seek support from the USB to serial adapter manufacturer.

3. Provide power to the unit as appropriate. Refer to the *NetVanta 3200/3300/3400 Series Hardware Installation Guide* available online at <https://supportforums.adtran.com> for more details.
4. Once the unit is powered up, open a VT100 terminal session using the following settings: 9600 baud, 8 data bits, no parity bits, 1 stop bit, and no flow control. Press ENTER to activate the AOS CLI.
5. Enter **enable** at the > prompt and enter the Enable mode password when prompted. The default password is **password**.

You can also access the CLI from a Telnet or SSH client. In order to do this, you must know the IP address of the AOS device. If you do not know the unit's IP address, you must use the **CONSOLE** port to access the CLI. To access the CLI using a Telnet or SSH client, follow these steps:

1. Connect the NetVanta unit to your PC using an Ethernet cable connected to the switch port labeled **1** on the back of the device or connect the NetVanta unit to an existing network that supports DHCP using the switch port labeled **1** on the back of the device.
2. Open a Telnet or SSH client on your computer and enter **10.10.10.1**. If your unit received an IP address from a DHCP server or you have changed your unit's IP address, you will need to enter that address.

3. For SSH, log into the unit using the default login (**admin**) and password (**password**). For Telnet, only the default password (**password**) is required.
4. Enter **enable** at the **>** prompt and enter the enable password when prompted. The default password is **password**.

COMMON CLI COMMANDS

The following are common CLI commands and tips for getting started with the CLI.

- Entering a question mark (?) shows contextual help and options. For example, entering ? at the prompt will show all commands available from that prompt.
- To view interface statistics, enter **show interfaces** *<interface type>* *<interface number>*.
- To view the current configuration, enter **show running-config**.
- To view all the IP Addresses currently configured, enter **show ip interfaces brief**.

MANUALLY CONFIGURING THE UNIT'S IP ADDRESS



NOTE

The configuration parameters used in the examples outlined in this document are for instructional purposes only. Please replace all underlined entries (**example**) with your specific parameters to configure your application. This step is unnecessary if the unit's IP address has been configured automatically using DHCP.

The following steps create an IP address and subnet mask for **ETH 0/1**. If you are not sure what IP address to assign, please contact your network administrator.

1. At the **#** prompt, enter **config terminal**.
2. At the **(config)#** prompt, enter **interface eth 0/1** to access the configuration parameters for the **ETH 0/1** port located on the rear of the unit.
3. Enter **ip address 10.10.10.1 255.255.255.0** to assign an IP address to the **ETH 0/1** port using a 24-bit subnet mask.
4. Enter **no shutdown** to activate the interface to pass data.
5. Enter **exit** to exit the Ethernet interface commands and return to the Global Configuration mode.
6. Enter **ip route 0.0.0.0 0.0.0.0 10.10.10.254** to add a default route to the route table. 0.0.0.0 is the default route and the default subnet mask, and **10.10.10.254** is the next-hop IP address to which the AOS router should send all of its traffic. You will need to enter the proper route, subnet mask, and gateway for your network. This information is typically provided by a service provider or local network administrator.
7. Enter **do write** to save the current configuration.

CHANGE LOGIN PASSWORDS

1. To modify the user accounts and passwords, from the **(config)#** prompt, enter the command **username <username> password <password>**.
2. To modify the Enable mode password, from the **(config)#** prompt, enter the command **enable password <password>**.

- To modify the Telnet password, from the **(config)#** prompt, enter the command **line telnet 0 4** and then press ENTER. Enter the command **password <password>**.
- Enter **do write** to save the current configuration.

NETVANTA 3200/3300/3400 SERIES DEFAULTS

Feature	Default Value
IP Address	10.10.10.1
DHCP	Client Enabled
Auto-Config	Zero Touch Provisioning Enabled
Username	admin
Password	password
HTTP Server	Enabled
Event History	On
IP Routing	Enabled

RESTORING FACTORY DEFAULTS

For information on restoring factory defaults, refer to the guide *Restoring an AOS Device to Factory Default* available online at <https://supportforums.adtran.com>.

CONFIGURE YOUR APPLICATION

The applications you will need to configure vary by product and by network. Review the list of defaults for your unit before deciding what applications to configure. At the end of this document are a list of configuration guides that relate to common applications that should be configured on startup. These guides are all available online on [ADTRAN's Support Community](#).

The following configuration guides provide configuration information for applications typically used within this product. All documents are available online at <https://supportforums.adtran.com>.

NetVanta 3200/3300/3400 Series Hardware Installation Guide

Configuring T1 Access to a Remote Site Using PPP in AOS

Configuring Port Forwarding in AOS

Configuring Point-to-Point Protocol over Frame Relay in AOS

Configuring DHCP in AOS

Configuring VPN using Aggressive Mode in AOS

Configuring Internet Access (Many to one NAT) with the Firewall Wizard in AOS

Configuring QoS for VoIP in AOS

Configuring QoS in AOS

Configuring a VPN using Main Mode in AOS

Implementing Auto-Config using the CLI

ADTRAN CUSTOMER CARE:

From within the U.S. 1.888.423.8726

From outside the U.S. +1 256.963.8716

PRICING AND AVAILABILITY 1.800.827.0807