

Quick Start

NetVanta 3140 Fixed Port 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, two configuration methods are available for your NetVanta unit:

- 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.

ACCESSING THE GUI

You can access the GUI from any web browser on your network in one of two ways:

Connecting via the Static IP Address

1. Connect the unit to your PC using the unit's **GIG 0/1** port and an Ethernet cable.
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 domain naming system (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 "[Manually Configuring the Unit's IP Address](#)" on page 2 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. You will then be prompted for the user name and password (the default settings are **admin** and **password**).
5. The initial GUI screen appears. You can access initial setup information by selecting **Setup Wizard** from the menu on the left.

Connecting via the DHCP Client Address

1. Connect the router to an existing network that supports DHCP using the unit's **GIG 0/1** Gigabit Ethernet port. 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. You can access initial setup information by selecting **Setup Wizard** from the menu on the left.

ACCESSING 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 unit's **CONSOLE** port.
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 3100 Series Hardware Installation Guide](#) available online at <https://supportcommunity.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 unit's switch port labeled **GIG 0/1**, or connect the NetVanta unit to an existing network that supports DHCP using the unit's **GIG 0/1** switch port.
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 instead.
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**.
- To view the AOS version, serial number, and other information, enter **show version**.
- To save the current configuration, enter **write**.

MANUALLY CONFIGURING THE UNIT'S IP ADDRESS

The following steps create an IP address (10.10.10.1 255.255.255.0) for Gigabit Ethernet port 0/1 (**GIG 0/1**). If you are not sure what IP address to assign, please contact your network administrator.



NOTE

This step is unnecessary if the unit's IP address has been configured automatically using DHCP.

1. At the **#** prompt, enter **config terminal**.
2. At the **(config)#** prompt, enter **interface gigabit-eth 0/1** to access the configuration parameters for the **GIG 0/1** port.
3. Enter **ip address 10.10.10.1 255.255.255.0** to assign an IP address to the **GIG 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.



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.

CHANGING LOGIN PASSWORDS USING THE CLI

To change the login passwords for the NetVanta 3140, connect to the CLI and follow these steps:

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>**.
3. 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>**.
4. Enter **do write** to save the current configuration.

FRONT PANEL LEDs

LED	Color	Indication
STAT	Green (flashing)	The unit is powering up. On power-up, the STAT LED flashes rapidly for five seconds.
	Green (solid)	The power is on and self-test passed.
	Red (solid)	The power is on, but the self-test failed or the boot mode (if applicable) code could not be booted.
	Amber (solid)	The unit is in bootstrap mode.
USB	Off	The interface is shut down or not connected.
	Green (solid)	A supported device is connected.
	Amber (flashing)	There is activity on the link.
	Red (solid)	An alarm condition is occurring on the USB port, or there is a failure.
LINK (GIG 1 - GIG 3) (1700340F1 only)	Off	The port is administratively disabled or does not have link.
	Green (solid)	The port is enabled and the link is up.
ACT (GIG 1 - GIG 3) (1700340F1 only)	Off	There is no activity on the link.
	Green (flashing)	There is activity on the link.
Port LEDs (GIG 0/1 - GIG 0/3)	Off	There is no activity on the link.
	Green (solid)	The port is enabled and the link is up.
	Amber (flashing)	There is activity on the link.



NOTE

On the 1700341F1, the behavior of the **LINK** and **ACT** LEDs (labeled **GIG 1** through **GIG 3**) on the front of the unit corresponds to the behavior of the RJ-45 LEDs (labeled **GIG 0/1** through **GIG 0/3**) located on the back of the unit.

NETVANTA 3140 SERIES DEFAULTS

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

You can find more information regarding the default configuration of the NetVanta 3140 in the [NetVanta 3140 Default Configuration](#) article, available online at <https://supportcommunity.adtran.com>.

RESTORE FACTORY DEFAULTS

For information on restoring factory defaults, refer to the guide [Restoring an AOS Device to Factory Default](#) available online at <https://supportcommunity.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 is 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](#).



NOTE

Important: For additional details on product features, specifications, installation, and safety, refer to the [NetVanta 3100 Series Hardware Installation Guide](#), available online at <https://supportcommunity.adtran.com>.

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

[NetVanta 3100 Series Hardware Installation Guide](#)

[Configuring Port Forwarding 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](#)

[Configuring WAN Failover with Network Monitor in AOS](#)

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