Extron

VNM Enterprise Controller Software • Setup Guide

The Extron Enterprise Controller software is provided on a USB drive that allows the user to install the Enterprise Controller on a computer running Red Hat® Enterprise Linux®. The controller manages large VN-Matrix® systems and allows users to view, manage, and dynamically control multiple VN-Matrix systems and networked VN-Matrix domains from a single user interface.

This guide provides basic instructions for an experienced user to install, configure, and operate a single VN-Matrix Enterprise Controller in a basic VN-Matrix system.

> **NOTE:** See the *VNM Enterprise Controller 201 User Guide*, *VN-Matrix 200 Series User Guide*, *VN-Matrix 225 Series User Guide*, *VN-Matrix 250 User Guide*, *VN-Matrix 300 User Guide*, and the *VN-Matrix 325 User Guide* for complete installation, network configuration, and mounting information.

VNM Enterprise Controller Software Installation and Configuration

Step 1 — Install Red Hat Enterprise Server

Install Red Hat Linux Enterprise Server on a computer that meets the minimum requirements shown below. For further information, see the *Red Hat Enterprise Server v7.7 Installation Guide*.

Minimum requirements

To install VNM Enterprise Controller software, the target platform must meet the following minimum requirements:

- **Architecture** — 64 bit
- **CPU** — 64 bit Xeon 3.0 GHz. A high clock rate is required for optimum performance.
- **RAM** — 4 GB, DDR3
- **Storage system and boot** — The system boots from the local hard drive.
- **Graphics support** — XGA (1024x768) minimum resolution
- **NIC** — 1 Gbps 1000Base-T
- **Peripheral support** — Support for mouse and keyboard. Support for USB.
- **Operating System** — Red Hat Enterprise Linux Server v7.7.64 bit.

Step 2 — Pre-configure Red Hat Enterprise Server

Before installing VNM Enterprise Controller software, configure the Linux server (see "Preparing the Red Hat Server for the Enterprise Controller Software" in the *Red Hat Enterprise Server v7.7 Installation Guide*). At a minimum:

- Install the FTP server.
- Configure the firewall.
- Configure the Ethernet ports.
- Set the time to UTC.
- Set the IP addresses.
- Disable screen lock.

Step 3 — Run the Enterprise Controller Installer

1. Switch on the computer running Red Hat Enterprise Linux.
2. On the `Login` page, select **Not Listed?**
3. Enter the username `root` and the password `Extron2015`.
4. Insert the Enterprise Controller USB drive into a USB port and copy the `Enterprise Controller Installer` folder to the `Desktop`.

5. Right click on the **Desktop** and, from the drop-down list, select **Open Terminal** to open a terminal window. The terminal window opens:
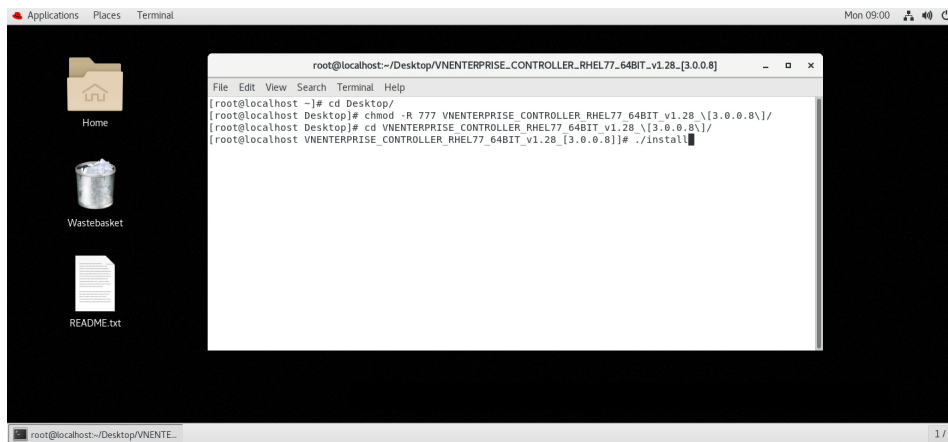

Figure 1.   Terminal Window

6. Change directory to the desktop folder by entering `cd Desktop` and clicking **Return**.

7. Enter `chmod -R 777 VNENTERPRISE_CONTROLLER_RHEL77_64BIT_v`$X.X$`_[`$Y.Y.Y.Y$`]` and click **Return**.

8. Change the directory by entering `cd VNENTERPRISE_CONTROLLER_RHEL77_64BIT_v`$X.X$`_[`$Y.Y.Y.Y$`]` and clicking **Return**.

> **NOTE:**   This guide uses generic numbers to reference the installer file version numbers (example: v$X.X$_[$Y.Y.Y.Y$]). Always be certain you have the latest installer files from Extron.

9. Enter `./install` and click **Return**. The installer opens.
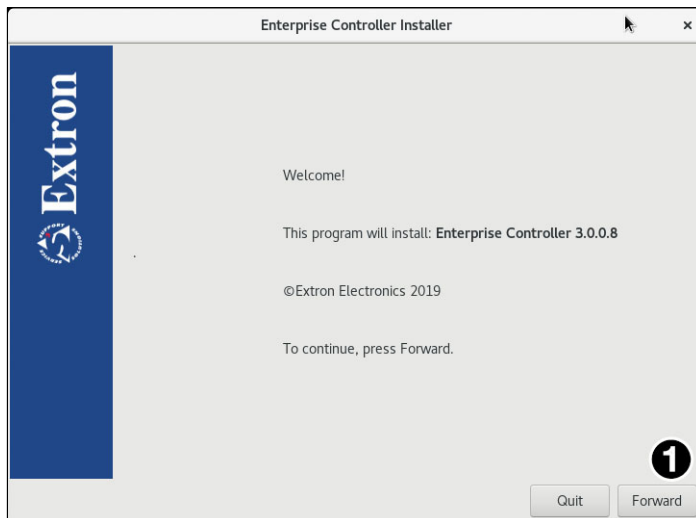

Figure 2.   Enterprise Controller Installer Welcome Window

10. Click **Forward** (see figure 2, ❶).

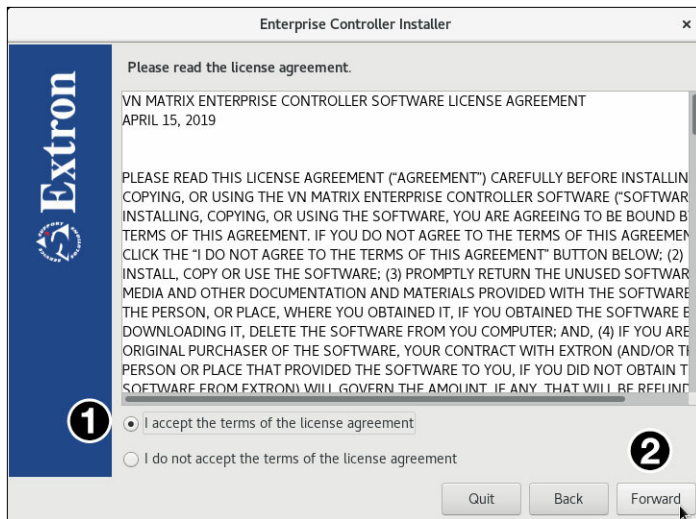   The `License Agreement` opens:

Figure 3. License Agreement

11. Read the agreement and select `I accept the terms of the terms of the license agreement` (see figure 3, ❶).

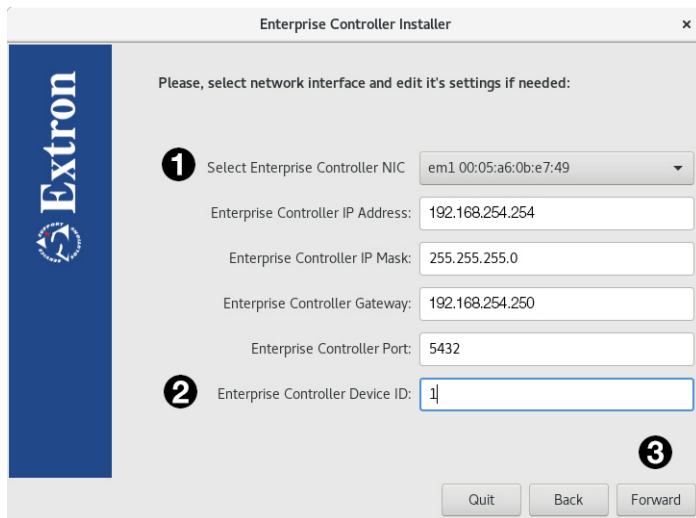12. Click `Forward` (❷). The `Network settings` screen opens.

Figure 4. IP Address Settings

13. The Select Enterprise Controller NIC option (see figure 4, ❶) allows the user the select the NIC that will be used by the Enterprise Controller software. Use the drop down to select the required NIC.

    Once selected the settings for the selected NIC will be used to populate the remaining option in the dialogue.

14. The network addresses should have been set during the initial configuration of the Red Hat Enterprise server. If this did not occur, they can be set here.

NOTES:
- The settings in figure 4 show the default values for the Enterprise Controller. Obtain the appropriate values from your network administrator.
- By default, the port number (❷) is set to 5432 for the controller and all other VN-Matrix devices in the system. If a different port number is set here, none of the other VN-Matrix devices in the system will be able to communicate with the controller unless their port number is also reset.

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15. Enter the Enterprise Controller Device ID that is printed on the shipping label into the Enterprise Controller Device ID section.

16. When the addresses have been set, click `Forward` (❸).
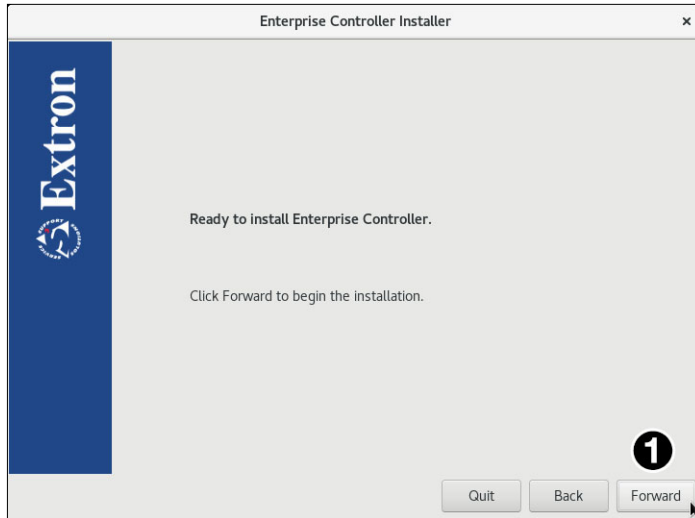
The installer is now ready to begin the installation:

Figure 5. Start Installation

17. Click **Forward** (see figure 5, ❶). The installation begins.

> **NOTE:** During installation, the Installer window displays the message `Installing...` and the terminal window shows the progress of the installation.

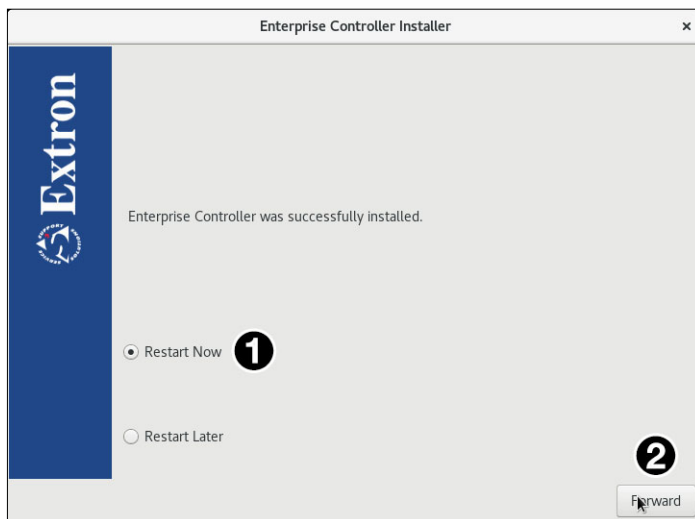When the installation is complete, the screen shows that it was successful:

Figure 6. Complete Installation

18. Select the **Restart Now** radio button (see figure 6, ❶) and click **Finish** (❷).

The system restarts. Once the system has restarted, the Enterprise Controller runs automatically. It can be accessed from any other computer on the same network by entering the IP address of the Enterprise Controller into a browser menu bar.

For information on safety guidelines, regulatory compliances, EMI/EMF compatibility, accessibility, and related topics, see the **Extron Safety and Regulatory Compliance Guide** on the Extron website.