everRun Quick Start Guide

Use the *everRun Quick Start Guide* to get your everRun system up and running as quickly as possible.

An everRun system requires two x86-64 host servers (referred to as *physical machines*, or *PMs*) that can support multiple virtual machines (VMs), and a remote management computer that can run the everRun Availability Console. This guide explains how to set up your PMs and guides you through the basic installation and start-up tasks, including:

- Assembling Required Items

- Configuring Your RAID Controller

- Cabling Your System

- Obtaining the ISO Image

- Installing the everRun Software

- Logging On to the everRun Availability Console

- Creating a Protected Virtual Machine

Note: If you need assistance during the installation process:

- Call 866-763-1813 (U.S. Toll-Free) or 602-852-3094 (International)

- Visit the **Downloads** page at http://www.stratus.com/go/support/everrun

Step 1: Assembling Required Items

You need the following items/information:

- Two PMs that meet the requirements listed in System Requirements Overview.

- Ethernet cables for each network you are connecting.

- A remote management computer. This is a general-purpose PC with a supported web browser to access the everRun Availability Console. It must be located on the same business/management network as the PMs being installed. For details, see everRun Availability Console Requirements.

- A monitor, keyboard, and cables, used only during the installation.

- The everRun license key you received from Stratus.

- The everRun ISO image available at the **Downloads** page at http://www.stratus.com/go/support/everrun. Click **everRun** (if it is not already displayed) and then select the appropriate version. Scroll down to **Product Downloads**, and under **Install**, click the link to the appropriate ISO Image.

- From your network administrator, the IPv4 address, netmask, default gateway address, and DNS address values for everRun and each PM.

Step 2: Configuring Your RAID Controller

Stratus strongly recommends that your everRun system uses a storage RAID controller. The RAID controllers in an everRun system create logical disks from the system's physical disks, and the logical disks are then collected into a storage group. Configuration recommendations follow:

- If the system has a single logical disk, Stratus strongly recommends that you configure the RAID controller so that logical disks presented to the host are backed by redundant physical drives.

- Stratus strongly recommends that RAID controllers have a battery-backed write cache.

- You must configure the RAID controller to boot off the first logical disk.

Step 3: Cabling Your System

Attach the following cables:

- Private network: Connect an Ethernet cable from the **first embedded port** on the first PM to the **first embedded port** on the second PM. If you plan to use the private network as an A-Link, see A-Link and Private Networks.

- Business/Management network: The first business network is the *management network*. Connect Ethernet cables from the **second embedded port** on each PM, through a network switch to a network, and connect the remote management computer to this network.

- A-Link network(s): For each A-Link network, connect an Ethernet cable from any unused port on the first PM to any unused port on the second PM, either directly or through a network switch.

- Business network(s): For each business network, connect Ethernet cables from a port on the first PM to a port on the second PM, through a network switch to a network.

- Make sure the remote management computer is connected, or routes to, the management network.

- Connect the monitor, keyboard, and mouse to the first PM. See Site and System Preparation for details.

The following illustration shows these connections:
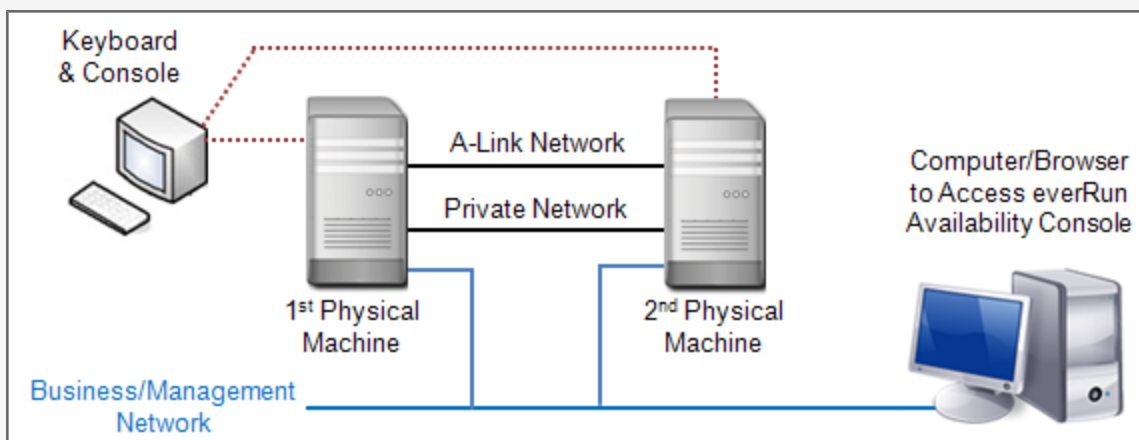
> **Note**: When installing software on the first PM, connect the keyboard and monitor to the first PM. When installing software on the second PM, connect the keyboard and monitor to the second PM. When software installation is complete, disconnect the keyboard and monitor from the system.

Step 4: Obtaining the ISO Image

Obtain the ISO image and create a bootable medium:

1. From any computer connected to the Internet, go to the **Downloads** page at http://www.stratus.-com/go/support/everrun.

2. Click **everRun** (if it is not already displayed) and then select the appropriate version. Scroll down to **Product Downloads**, and under **Install**, click the link to the appropriate ISO image (everRun_**install-7.*x.x.x-xxx*.iso**). Save the ISO image.

3. Create a bootable medium using the ISO image:

   - To burn the ISO image to a DVD, use a commonly available application. For example, if you have the Roxio application installed, right click the ISO file and select the option to burn a DVD.

   - To create a bootable USB medium, see Creating Bootable USB Media.

   Occasionally an ISO file can be corrupted during the download process. You can choose to verify the installation medium during the software installation.

For additional information, see Obtaining everRun Enterprise Software.

Step 5: Installing the everRun Software

Allow 60 to 90 minutes to complete the everRun software installation process.

1. Install the everRun software on the first PM:

   a. Power on the first PM, and then insert the bootable medium or mount the ISO image.

   b. As the PM powers on, configure the following settings in the firmware (BIOS or UEFI) setup utility:

      ○ Set the first boot device to the Optical Drive.

      ○ Enable Virtualization Technology.

      ○ Enable Execute-Disable Bit Capability.

      > ℹ **Note**: If you need to configure your keyboard for a different layout, see Mapping Your Keyboard.

   c. From the installation software's Welcome screen, use the arrow keys to select an installation option. Stratus recommends that, for an initial installation, you select **Verify medium and Install everRun**, which verifies the installation medium before installing the software (verification adds about five minutes to the installation process). If you do not want to verify the medium, select **Install everRun, Create a new system**. After you select an option, press **Enter**.

   d. If any disk contains previously installed data, the following message appears and the system reboots (if no disk contains previously installed data, installation continues with the next step):

      Rebooting because disks *XXX* were erased.

      When the reboot is complete, the boot menu reappears and you must, again, select an installation option (Step 1,c, above).

   e. From the **Select interface for private Physical Machine connection** screen, select an embedded port (for example, **em1**, which is the default), and press **F12**.

   f. From the **Select interface for managing the system (ibiz0)** screen, select an embedded port (for example, **em2**, which is the default), and press **F12**.

g. From the **Select the method to configure ibiz0** screen, select **Manual configuration (Static Address)** and press **F12**.

> **Note**: To perform a dynamic IP configuration, select **Automatic configuration via DHCP** instead and skip to **Step 1h**, where you will need to write down the IPv4 address as described in Recording the Management IP Address.

h. From the **Configure em2** screen, enter the IPv4 address, netmask, default gateway address, and DNS address values that you received from your network administrator, and then press **F12**.

i. No action from you is necessary until after the PM reboots. At that time, remove the bootable medium or unmount the ISO image, connect the keyboard/console to the second PM, and go to **Step 2**.

2. Install the everRun software on the second PM:

a. Power on the second PM, and then insert the bootable medium or mount the ISO image.

b. As the PM powers on, configure the settings in the firmware (BIOS or UEFI) setup utility described in **Step 1b**.

c. From the installation software's Welcome screen, use the arrow keys to select **Replace PM, Join system: Initialize data**, and press **Enter**.

d. If any disk contains previously installed data, the following message appears and the system reboots (if no disk contains previously installed data, installation continues with the next step):

> Rebooting because disks *XXX* were erased.

When the reboot is complete, the boot menu reappears and you must continue with Step 2,c, above.

e. Perform **Steps 1e** through **1h**.

f. No action from you is necessary until after the second PM reboots. At that time, remove the bootable medium or unmount the ISO image, disconnect the keyboard/console, and log on to the everRun Availability Console.

Step 6: Logging On to the everRun Availability Console

1. From the remote management computer, type the IP address of node0 (primary) into a browser address bar.

2. The logon page of the everRun Availability Console appears. Enter **admin** for the **Username** and **admin** for **Password**, and then click **LOGIN**.

3. The Stratus everRun EULA appears. Read the EULA and click **Accept** to accept it.

4. The **INITIAL CONFIGURATION** page appears. Under **NOTIFICATIONS**, the box for **Enable Support Notifications** is checked, by default. If you do not want the everRun system to send health and status notifications to your authorized Stratus service representative, uncheck the box. You can change this setting later (see Configuring Remote Support Settings).

5. Under **SYSTEM IP**, for IP Address, enter the address you obtained from your network administrator. After you have entered the network information, click **Continue**.

6. The **Portal Restart Required** window appears. After waiting a minute (as indicated in the window), click **OK** to refresh the console and to continue.

7. The **LICENSE INFORMATION** window appears. Under **Upload License Key**, click **Browse** and navigate to the license **.KEY** file that you received from Stratus. Select the license file and click **Upload**.

   For security, change the default user login name and password for the **admin** account on the **Users & Groups** page.

The everRun Availability Console appears. Bookmark or make note of the system IP address for use when logging in to the console in the future.

Step 7: Creating a Protected Virtual Machine

First, create a virtual CD (VCD) to make software installation media available to the virtual machine (VM).

1. Open the **Virtual CDs** page in the everRun Availability Console

2. Click **Create VCD** to open the **Virtual CD Creation Wizard**.

3. Follow creation wizard prompts. For details, see Creating a Virtual CD in the online help.

Next, create a new virtual machine (VM) and install a guest operating system on your everRun system.

1. On the **Virtual Machines** page, click **Create** to open the **VM Creation Wizard**.

2. Follow the creation wizard prompts. For details, see Creating a New Virtual Machine in the online help.

After you install the operating system, perform any other guest OS configuration tasks (for example, initializing disks and installing applications). For details, see Post-Installation Tasks in the online help.