Citrix XenServer from HP
Getting Started Guide



Overview

This guide outlines the basic setup, installation, and configuration steps required to begin using your Citrix XenServer from HP. A first time wizard-based setup guides you through initial installation and configuration, and a GUI provides ongoing virtual machine monitoring and management.

To provide active hardware management using HP Systems Insight Manager (SIM), HP SIM Agents are installed with Citrix XenServer. These agents proactively surface hardware monitoring data to provide the most up-to-date server state information possible.

The *Citrix XenServer from HP Getting Started Guide* is for Citrix XenServer; HP Select Edition, Citrix Essentials for XenServer, HP Enterprise Edition; or Citrix Essentials for XenServer, HP Platinum Edition. The accompanying ISO installs Citrix XenServer. The ISO includes a license for Citrix XenServer, HP Select Edition and a 90 day trial license for PVC. Licenses for XenServer, HP Select Edition; Essentials for XenServer, HP Enterprise Edition; and Citrix Essentials for XenServer, HP Platinum Edition are purchased separately.

Citrix XenServer, HP Select Edition license offers a low cost, all-in-one solution with Citrix XenServer from HP, HP PVC for single server management, and XenCenter for virtual machine management across multiple servers. HP PVC enables simplified creation and management of the local virtualization environment and the virtual machines. Citrix XenServer enables the creation of an unlimited number of virtual machines per server with up to 64-bit MB memory and eight virtual CPUs per VM.

Essentials for XenServer, HP Enterprise Edition license enables all of the features of XenServer and adds historical performance reporting, high availability, and work flow orchestration. Essentials for XenServer, HP Enterprise Edition includes HP PVC for single server management and XenCenter for virtual machine management across multiple servers.

Essentials for XenServer, HP Platinum Edition license includes everything available with Essentials for XenServer, HP Enterprise Edition and adds Citrix provisioning server and Automated Lab Management.

Setting up and configuring HP ProLiant servers to host virtual machines

1. Choose one of the following destinations options for installing the Citrix XenServer:

- Any HP supported hard drive
- Secure Digital (SD) memory card
    - HP 4GB SD flash media
    - HP part number 580387-B21

- HP spare kit part number 583306-001

- Flash media (USB flash drive)
  - HP 4GB USB flash media drive key
  - HP part number 580385-B21
  - HP spare kit part number 583307-001

  Citrix XenServer from HP does not support any other USB or SD card devices.

2. Download the installation software from Software Depot home (http://software.hp.com/), and then select **Virtualization**.
3. Burn the installation ISO to a CD-ROM, or move the ISO image to a location accessible using the Virtual Media capabilities of iLO 2.

   NOTE: The CD-ROM is bootable. Boot the server and choose to install the Citrix XenServer from HP product either to the hard drive or to flash media (USB key or SD card). The flash media must be installed into the internal port on your ProLiant server.

4. Set up the server hardware, and if desired, connect your server to the network. If installing to flash media (USB or SD Card), you must install the flash media into the internal port on your ProLiant server.

   For specific instructions on how to access the internal flash media (USB or SD card) port, see the server documentation included with your server.

   NOTE: The server must have access to either locally attached disk storage or a supported shared storage device. For advanced storage configurations, see the documentation for the remote storage devices and the storage chapter in the *Citrix XenServer Reference Manual*.

   For hardware information, see the server documentation included with your server.

5. Access the server console in one of the following ways:
   - Locally—Use your local keyboard and monitor.
   - Remotely—Use iLO Integrated Remote Console remotely from a network client using a web browser.

     Remote setup requires HP iLO 2 Advanced Pack, which is sold separately for HP ProLiant ML and DL servers. The remote graphics capability is included with BL servers.

   IMPORTANT: After you boot up the server, you must press the correct function key when prompted to enter setup mode to configure boot order, configure hardware virtualization, and configure iLO and the Smart Array controller. Familiarize yourself with the following steps and prompts. Each prompt is available for only a few seconds during the boot process.

If you are installing to the hard drive, proceed to step 8.

6. To enable flash media (USB flash drive or SD card):
   a. Configure your flash device to boot before the hard drive. By default, flash media is already configured to boot before the hard drive.
   b. Boot server, and then press **F9** to enter ROM Based Setup Utility (RBSU).
   c. Scroll down to Standard Boot Order (IPL), and then press **Enter**.
   d. To modify the boot order, highlight the device you want to move, and then press **Enter.**
   e. A menu appears to change the device boot order. Ensure the flash media is set to boot before the hard drive.
7. Enable CPU virtualization.
   a. If you are not in ROM Based Setup Utility (RBSU), boot the server, and then press **F9**.
   b. Scroll down to Advanced Options, and then press **Enter**.
   c. Scroll down to Processor Options, and then press **Enter**.
   d. Scroll down to the servers supported processor (either Intel® Virtualization Technology or AMD® Virtualization), and then press **Enter**.
   e. At the next screen highlight **Enable,** and then press **Enter**.
   f. Save configuration changes, and then exit. The server reboots.
8. To configure iLO network parameters, directory settings, global settings, and user accounts, when prompted at POST, press **F8**.

   For more information, see the *HP Integrated Lights-Out 2 User Guide*.
9. To create, view, or delete a logical drive for the Smart Array Controller using local storage, press **F8** when prompted.

   For more information, see the *Configuring Arrays on HP Smart Array Controllers Reference Guide*.

Installing Citrix XenServer from HP

To install the software image locally:

1. Place the Install CD into the CD-ROM drive, and then boot the server.
2. Choose to install the Citrix XenServer from HP product either to the hard drive or to flash media (USB key or SD card).

To install the software image remotely using iLO 2:

1. Verify that the server has the appropriate iLO license to use Virtual Media, open a web browser on your local machine, and then log in to iLO.

   HP c-Class servers include a license for Virtual Media. For other servers, an HP iLO 2 Advanced Pack license is required and is sold separately.
2. Select the Virtual Media tab, and then select the **Virtual Media Applet**.

3. Choose from one of the following options:
   - Local Media Drive
     i. Under the Virtual CD/DVD-Rom section, select **Local Media Drive**.
     ii. From the menu, select the drive letter of the desired physical CD/DVD-ROM drive on your client computer.
     iii. Click **Connect**. The connected drive icon turns green.
   - Local Image File
     i. Under the Virtual CD/DVD-ROM section, select **Local Image File**.
     ii. Enter the path or file name of the image (ISO file) in the text box or click **Browse** to locate the image file.
     iii. Click **Connect**. The connected drive icon turns green.
4. Follow the prompts generated by the Install CD to complete the installation.
5. If performing a restoration or recovery, when installation is complete, restore from backup files.

Configuring the HP ProLiant Virtual Console

When you initially boot up your machine, the HP PVC setup wizard appears and guides you through initial configuration. The wizard only appears during the initial configuration.

1. Select the language, and then click **OK**. The Welcome screen appears.
2. Click **Forward**.
3. Accept the End User License Agreement. Click **Forward**. The Enter a root password page appears.
4. Enter a password for your root account. Confirm the password.
5. Click **Forward**. The Set Screen Resolution page appears.
6. Select a screen resolution.
7. Click **Forward**. The Set the date/time page appears.
8. Set the date, time, and time zone, and then specify the NTP server.
9. Click **Forward**. The Server Hostname/Server Management Interface page appears.
10. Enter the hostname, and then configure the server management interface.
11. Click **Forward**. The HP Insight Management Agents/HP System Management Homepage page appears.
12. Choose the manageability options. To manage the server using HP SIM, you must enable the HP SIM Agents.
13. (Optional) If you have not set up any storage repositories, the Setup Storage Repository page appears.
14. To exit the wizard, click **Finish**. The PVC appears.

Enabling entitlements

To obtain and install the software and licenses for Essentials for XenServer, HP Platinum Edition, and HP Enterprise Edition follow the instructions on your license entitlement certificate.

Recovering from a system failure

If you encounter a system failure and need to reinstall, see Installing Citrix XenServer from HP.



IMPORTANT: Using the Install CD completely erases all existing data and user configurations. All preconfigured settings and user data are lost.



IMPORTANT: If you are performing a system recovery and your previous installation included a Citrix Enterprise license or an HP PVC license, you must reapply the licenses to enable the same level of services you had with the previous installation. If you no longer have the Citrix Enterprise license or the HP PVC license, you must obtain a replacement copy through the HP website (http://www.webware.hp.com,) or by contacting the HP License Center using the contact information located on the Entitlement Certificate.

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