Prerequisites

Before you install Virtual Replicator Version 3.0, make sure your system meets the following requirements:

Software Requirements

- **Either** of the following operating systems:
  - Microsoft Windows NT Version 4.0, with Service Pack 6a
  - Microsoft Windows 2000, Professional, Server, or Advanced Server, with Service Pack 3.

  NOTE: Of these versions of Windows 2000, only Advanced Server supports clustering.

- Microsoft Internet Explorer Version 5.01 or greater

  You can download a free copy of Internet Explorer from the Microsoft website, http://www.microsoft.com/.

- Microsoft Management Console 1.1 or greater

  MMC is included with Windows 2000, but not with Windows NT 4.0. To obtain the latest version, contact Microsoft.

Hardware Requirements

- An Intel-architecture, 32-bit processor
- 128 MB of memory (minimum); 256 MB (recommended)
- 100 MB of disk space for a full installation

License Requirements

To use Virtual Replicator, you need to obtain a valid license. Follow the instructions on the License Key Retrieval Instruction Sheet included with the VR license kit (ordered separately). HP recommends that you begin the process of retrieving your license before installing Virtual Replicator.

NOTE: The Virtual Replicator V3.0 license agreement and access key that are included in your license kit apply to the Virtual Replicator V3.0B software.

See "Setting Up Virtual Replicator Licensing" for instructions on completing the licensing procedure.

Components

Version 3.0 of Virtual Replicator includes two installable components:

- Snapshot Planner

  Use this tool to help predict how much disk space you need for your snapshots. Snapshot Planner is useful only *before* you create Virtual Replicator resources.

- Virtual Replicator

  Use Virtual Replicator to create pools of storage, divide the pools into virtual disks, create snapshots of the virtual disks, and grow volumes dynamically.

Installing Snapshot Planner

If you want to use the optional Snapshot Planner tool, install the tool, use it, and then uninstall it **before** you install Virtual Replicator.

1. Log on to a user account that has Administrator privileges.

2. Insert the Virtual Replicator installation CD into your CD-ROM drive. Installation begins automatically.

   NOTE: Alternatively, you can double click SETUP.EXE from the root directory on the CD.

3. Click **Snapshot Planner** on the first screen. Follow the instructions provided by the setup wizard until you are finished.

See the *System Administrator's Guide* for more information on using Snapshot Planner.

Installing Virtual Replicator

For new installations of Virtual Replicator:

1. Log on to a user account that has Administrator privileges.

2. Insert the Virtual Replicator installation CD into your CD-ROM drive. Installation begins automatically.

   NOTE: Alternatively, you can double click SETUP.EXE from the root directory on the CD.

3. Click **Virtual Replicator** on the first screen.

   The License Agreement screen is displayed.

4. Click the button to accept the terms of the license agreement, then click **Next**.

   The **License Server Location** screen is displayed. Virtual Replicator uses the Globetrotter FLEXlm license server for management of VR licenses.

5. Choose whether to install the license server on the local computer or to connect to another computer that already has the license server installed.

   NOTE: If you wish to install the license server separately from VR on another computer, follow the instructions in the Release Notes (readme.htm).

   - If the FLEXlm license server is not installed elsewhere, click the button to install the license server locally.

   - If the FLEXlm license server has been previously installed elsewhere, click the button to connect to another computer. Then, type the IP address or hostname of the other computer.

6. Click **Next**.

The **Setup Type** screen is displayed.

7. Choose the type of installation you want: Complete, Custom, or Management Only.

   The default installation is Complete. Choose the Custom option if you want to select specific features. Choose the Management Only option if you want just the management tools that allow you to remotely administer VR.

8. Continue through the wizard screens until you have finished.

   NOTE: Restart your computer after completing the installation if you receive an instruction to do so.

9. The next time you start your computer, make sure you log on to the **same user account** as in step 1.

Before using Virtual Replicator, you must obtain the required licenses. See the next section.

Setting Up Virtual Replicator Licensing

After following the instructions on the License Key Retrieval Instruction Sheet and receiving an e-mail message from HP containing your license key, use SLM to create a license file. The license file allows SLM to implement the license properly.

To start SLM:

1. Click **Start > Programs > SANworks Storage License Manager > Storage License Manager** .

   The **Web-Based Management Account Login** window opens.

   If you installed the license server on the local computer, continue with step 2.

   If the license server is installed on another computer, connect to it by replacing **localhost** in the web browser **Address** box with the hostname or IP address of the other computer. Then continue with step 2.

2. Type **administrator** in both the **Name** and **Password** boxes and click **OK**.

   administrator is the default SLM username and password for new users. You can change them later.

   The SLM web browser interface opens.

3. Click **Licenses** on the License Manager menu bar.

   The **License Files** window opens.

4. Click **Add** to display the **Add License File** page.

5. Type a unique name for the license file, then click **Create**.

6. Click **Close** to return to the **License Files** page.

7. Select the name of the license file you just created from the list of current licenses and click **Modify**.

    The **Contents of License File** window opens at the bottom of the page.

8. Open the e-mail message from HP that contains your license key text.

9. Cut and paste the license key text from the e-mail message into the **Contents of License File** window.

10. Click **Save**.

11. Click **Exit** on the menu bar.

Your system is now properly registered to operate Virtual Replicator.

Installing in a Cluster

The Virtual Replicator components are fully cluster aware. On a cluster, install Virtual Replicator on each node following the instructions in "Installing Virtual Replicator." Be sure to install exactly the same Virtual Replicator options on all nodes of a cluster. For example, if you choose the Custom Setup option and install the Online Volume Growth feature on one node, make sure you install it on all the nodes in the cluster.

A separate Virtual Replicator license is required for each node of the cluster. Set up licensing for both nodes by

•   Installing Storage License Manager on both nodes or pointing both nodes to a remote SLM server

•   Obtaining a separate Virtual Replicator license for each node.

Installing Adobe Acrobat Reader

PDF versions of this and several other documents are included in the Documentation folder on the installation CD. To view PDF files, you must have Adobe Acrobat Reader installed. You can find an installation file for Acrobat Reader in the Documentation\Acrobat Reader folder. To install this software, use Microsoft Windows Explorer to find the file, AR405ENG.EXE, on the installation CD, and double click it. Then follow the instructions provided by the installation wizard.

You can download a free copy of the latest version of Acrobat Reader from the Adobe website http://www.adobe.com.

Getting Help

If you have a problem with Virtual Replicator, you can get further information and other help in the following locations.

Virtual Replicator Website

The Virtual Replicator website has information on this product. You can access the website at http://www.compaq.com/sanworks.

Additional Services

HP offers a variety of software product services for OpenView products. For information on services available for Virtual Replicator, contact your local representative. A listing of telephone numbers is available at http://www.compaq.com/support.

HP Authorized Reseller

For the name of your nearest HP Authorized Reseller:

•   In the United States, call 1-800-345-1518.

•   In Canada, call 1-800-263-5868.

Elsewhere, see the website for locations and telephone numbers.

hp OpenView

storage virtual replicator Version 3.0B

Installation

These instructions apply to **new** installations of Virtual Replicator only.

If you are upgrading from previous versions, see the upgrade instructions in the *Virtual Replicator System Administrator's Guide*.

Additional information about installing or upgrading the software and other issues is available in the Virtual Replicator Release Notes. The Release Notes are in a file called readme.htm on the installation CD.