



## Setting up an upgrade server

You set up an upgrade server by selecting each computer you want to act as a server, installing OPENSTEP Release 4.0 on it, copying the contents of the *OPENSTEP* CD-ROM into a directory on the server, and then using NFSManager to export that directory.

1. Select each computer you want to set up as an upgrade server.

You need to at least one upgrade server on each subnet. You can use any kind of computer (Intel-based, NeXT, or SPARC as an upgrade server for any other kind of computer.

Because you will copy the contents of the *OPENSTEP* CD-ROM onto it, an upgrade server needs about 300 megabytes of free disk space. You also need to connect a CD-ROM drive to the server to complete these instructions.

If you plan to use an upgrade server to upgrade Intel-based or NeXT computers, you NFS-export a copy of the *OPENSTEP* CD-ROM.

2. Upgrade the software on the upgrade server to OPENSTEP Release 4.0, using the *OPENSTEP* CD-ROM.

You can follow the instructions in *Upgrading to OPENSTEP Release 4.0* to upgrade from any earlier version of OPENSTEP Release 3. Or you can install OPENSTEP Release 4.0 from scratch, as described in *Installing and Configuring OPENSTEP Release 4.0*.

3. Log into the server as **root** and create a directory where you will copy the contents of the *OPENSTEP* CD-ROM.



10. Choose Import To from the NFSManager menu and in the panel that opens, select the domain that contains the computers you want to upgrade. Then click OK.

F1.tiff ,

If you're on a small network, the NetInfo domain of the computers you're upgrading is probably the root NetInfo domain, named `ap`.

11. Click the Add button in NFSManager's Imported Directories window and in the panel that opens, type the host name of the upgrade server in the upper field and the pathname of the directory you created in step 3 in the lower field. Then click OK.

ImportDirectoriesPanel.tiff ↵

12. Quit NFSManager and restart the upgrade server.

The computer is now ready to use as a network upgrade server.

## Preparing to use the RemoteUpgrade utility

Before you can use the RemoteUpgrade utility to upgrade multiple, identically configured computers, you need to upgrade one of those computers to create files the RemoteUpgrade utility uses as templates. You also need to alter a file on each computer you want to upgrade so you can execute programs as **root** when you're logged into another computer.

1. Use the Upgrader application to upgrade one of the identically configured computers (we'll refer to this as the *template computer*).

Using the Upgrade application is described in *Upgrading to OPENSTEP Release 4.0*.

2. Create a directory called **RemoteUpgradeFiles** on a partition that is NFS-mounted by all the computers you want to upgrade with the RemoteUpgrade utility.
3. Copy the files **/Release4.0.uplan** and **/Release4.0.uplan.bom** from the template computer into the **RemoteUpgradeFiles** directory.
4. Copy the **/UpdatedBoms** directory from the template computer into the **RemoteUpgradeFiles** directory.
5. Copy the RemoteUpgrade utility from **/Upgrader.app/Default.upgrade/RemoteUpgrade** on the *OPENSTEP* CD-ROM into the **RemoteUpgradeFiles** directory.
6. Add a line containing the host name of the computer on which you will be running the RemoteUpgrade utility to the **/.rhosts** file on each computer you want to upgrade.

For more information on the **/.rhosts** file, see the UNIX manual page for **hosts.equiv**.

## Upgrading multiple computers with the RemoteUpgrade utility

Once you've set up an upgrade server, created the template files, and prepared the computers you want to upgrade (as described in the previous two sections), you can use the RemoteUpgrade utility to upgrade multiple, identically configured computers.

