

2. Upgrade the software on the upgrade server to NEXTSTEP Release 3.3, using the *NEXTSTEP* CD-ROM.

You can follow the instructions in *Upgrading to NEXTSTEP Release 3.3* to upgrade from any earlier version of NEXTSTEP Release 3. Or you can install NEXTSTEP Release 3.3 from scratch, as described in *Installing and Configuring NEXTSTEP Release 3.3*.

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

You can create a directory on the server's startup disk or use all or part of another disk (or partition) that's connected to the server.

4. Insert the *NEXTSTEP* CD-ROM in the CD-ROM drive and use the following command to copy the contents of the CD-ROM into the directory you created:

```
ditto /NEXTSTEP_3.3 /UpgradeDirectory
```

Change **/NEXTSTEP_3.3** to **/NEXTSTEP_3.3risc** if you're copying the CD-ROM that comes with NEXTSTEP Release 3.3 for SPARC and PA-RISC Workstations. Replace **/UpgradeDirectory** with the name of the directory you created in step 3.

5. Start up NFSManager (it's in **/NextAdmin**).
6. Drag the directory you created in step 3 from the File Viewer to the icon well in NFSManager's Exported Directories window.

7. Choose "Read-only" from the upper pop-up list.
8. Check "Allow unknown users."
9. Choose "User with uid:" from the lower pop-up list and type **0** in the field next to it.

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Caution: Setting the "User with uid" option to 0 removes security from the upgrade server's file system. Make sure that you've selected a computer where this lack of security is appropriate and that you reset this option when you're done using the server for upgrading.

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F0.tiff ↪

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 "/".

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 NEXTSTEP Release 3.3*.

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 **/Release3.3.uplan** and **/Release3.3.uplan.bom** from the

