

# Connecting NEXTSTEP to NFS Networks

It's quite simple to integrate a NEXTSTEP system in any other NFS network, because NFS capabilities are integrated in the NEXTSTEP operating system.

Follow these steps:

1. Log in as `^root^a` to your NEXTSTEP system.
2. Start the SimpleNetworkStarter (SNS) application. In case that you have already used this application for system installation you should reset the NetInfo database to its defaults. This can be done by executing the shell script, represented by the icon below. Double-clicking it will create copies of your configuration files, naming them `hostconfig.old` and `netinfo.old`, and **reboot** your computer. After reboot you have to start with step 1 again, but may skip this section.

Note that you will have to create all users again after executing this script. This can easily be accomplished by restoring the saved files `hostconfig.old` and `netinfo.old`, though.

`makeclient -`

3. Install your NEXTSTEP system using SNS as server (third option; if you want to install further NEXTSTEP computers, this may be different).

The notes in step a to c refer to TCP/IP networks with class C network addresses. Please consult your network administrator if your network are assigned addresses of class A or B. It may be necessary to check your netmask.

- a. You can usually accept the defaults of the SNS. You only have to correct the IP address, which is composed of four numbers, e.g.: 32.64.158.16
- b. The first three numbers (32.64.158 in the example above) should correspond to the IP address of the NFS server. Ask your network administrator for those numbers.
- c. The fourth number (16 in the example above) may only exist once within the network. It can range from 0 to 255. (It is advised to use numbers from 1 to 254 only.) Your network administrator will be able to supply an appropriate number for your system.

4. Get the file `/etc/hosts` from the NFS server. In the worst case you will have to display it on a terminal and to type it in a text editor manually. The easiest way is using ftp:

- a. Start Terminal.app located in the /NextApps folder and enter the command `cd /tmp`.

**b.** Type `ftp {IP address}`  where `{IP address}` has to be the IP address of the NFS server (e.g.: `32.64.158.2`).

**c.** You will have to enter a (login-) name and a password. You can get them from the network administrator of the NFS server. Usually it is sufficient to log in as `aguest`.

**d.** Enter the command `binary`.

**e.** Enter `cd /etc`.

**f.** Request the file `^hosts^`, typing `get hosts`.

**g.** Type `quit` to log out again.

**5.** Make sure that the file `^hosts^` is located in the folder `/tmp`.

**6.** Load the file `/tmp/hosts` in an editor and remove all empty lines and comments, i.e., all lines starting with `^#^`. Save the modified file.

**7.** Enter the following command on a terminal command line:

```
niload hosts . < /tmp/hosts
```

Don't omit the blanks!

8. Add an entry for your NEXTSTEP system to the file /etc/hosts on your NFS server, e.g.,  
`32.64.158.16 next`
9. For accessing files on the NFS server you have to specify in the NEXTSTEP NFSManager which of the folders made available by the server you want to mount on your system. The terminal command for viewing all folders that are available is:  
`showmount -e {server}`  
<sup>a</sup>server<sup>o</sup> has to be replaced by the correct name of the NFS server. This command is valid for UNIX-NFS servers. Other system may require different commands.
10. All paths displayed through the command above can be mounted to your system with the NFSManager. All settings you make in the NFSManager only become valid after rebooting the system.