VERSION 3.0 SUPPORT PACK 1

Quick Start

NetWare® NFS* Services 3.0 Support Pack 1 provides a file sharing system between NetWare and UNIX* platforms. Through this service, UNIX and NetWare users can be administered from a single point, namely Novell® Directory Services® (NDS®).

Minimum System Requirements

- Novell NetWare 5.1 Support Pack 1 or later, NetWare 5.1 (international release), or NetWare 5 Support Pack 5 or later. The NFS Gateway component is designed to work with NetWare 5.1 Support Pack 2 and NetWare 5 Support Pack 6. To run it on NetWare 5.1 Support Pack 1, refer to the NFS 3.0 SP1 download information at the Novell Support site (http://support.novell.com/filefinder/1550/index.html).
- TCP/IP loaded and configured.
- DNS correctly configured.
- 20 MB RAM in addition to NetWare requirements.
- NetWare NFS Services 3.0.
- To install NetWare NFS Services 3.0 Support Pack 1 with Cluster Services, Novell Cluster Services™ must be installed and a Cluster object consisting of two or more nodes (servers) and a shared disk on the same tree must be created.
- To run NetWare NFS Services 3.0 Support Pack 1 with Cluster Services, ensure that NetWare NFS Services 3.0 is installed on all nodes one after another.

IMPORTANT: NetWare NFS Services 3.0 SP1 contains the later version of NETDB.NLM than found in NetWare 5.1 SP2 and NetWare 5.0 SP6. Before installing NetWare NFS Services 3.0 SP1, make sure you unload the existing NETDB.NLM. After the install, make sure NETDB.NLM was successfully overwritten with the new version (NETDB 4.10J, November 8, 2000). Later, if you apply NetWare 5.1 SP2 (or earlier) or NetWare 5.0 SP6 (or earlier), make sure your system retains the newer NETDB.NLM.

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Installing NetWare NFS Services 3.0 SP1 without Cluster Services

1. Before you install NetWare NFS Services 3.0 Support Pack 1, stop the NetWare NFS Services 3.0 running on your server by performing nfsstop.
2. Download NetWare NFS Services 3.0 Support Pack 1 into a folder in the server.
3. Start the product installation using either the GUI console or the NWCONFIG utility from the server console.

   - To install from the GUI console, click Novell > Install > Add.

     You are prompted for the directory that you are installing the product from.

   - To install from the server console, enter **NWCONFIG**, click Product Options > Install a Product Not Listed, specify the path that the product will be installed from, and press Enter.

   If NetWare NFS Services 3.0 is not already installed on your machine, the installation of NetWare NFS Services 3.0 Support Pack 1 will stop at this stage.
4. At the NetWare NFS Services 3.0 Support Pack 1 Welcome screen, click Next.
5. At the Languages screen prompt, click Next.

   For this release, only English language support is provided.
6. At the Install with NetWare Cluster Services prompt, select No and click Next.
7. Select the components you want and click Next > Finish.

HINT: During the original NetWare NFS Services 3.0 installation, an NIS Server object is created by default in the NDS bindery context of the server. If you want the NIS Server object in a different context from the system console prompt, run **NISINST -x *contextname***.

For any further configuration of the NIS Server object, use the object created under the context you specified.

Starting and Stopping NetWare NFS Services 3.0 SP1 without Cluster Services

1. To start NFS Services, enter

   nfsstart
2. To stop NFS Services, enter

   nfsstop

Preconfiguring for NetWare NFS Services 3.0 SP1 with Cluster Services Installation

Before installing NetWare NFS Services 3.0 Support Pack 1 with Cluster Services, create a shared volume and a Cluster Volume object by doing the following:

1. Create a shared volume using NWCONFIG > NSS volumes.

   Do not use the name *nfsclust* because it is a reserved word.

2. To create a Cluster Volume object from the ConsoleOne™ snap-in, complete the following:

   2a. Select the Cluster object.

   2b. Click File > New > Cluster > Cluster Volume.

   2c. Browse and select the shared volume.

   2d. Enter the secondary IP address or the virtual IP address associated with the cluster.

   The address will be in the following format:

   AAA.BBB.CCC.DDD

   2e. Check the Define Additional Properties check box and click Create.

   2f. Set the Start, Failover, and Failback Modes.

   2g. Verify the order of the servers in the nodes list.

   2h. To save the changes to the Cluster Volume object, click OK.

After the shared volume <servername>_<shared vol name> is cluster enabled, ConsoleOne renames it to <cluster object name>_<shared vol name>.

ConsoleOne creates a virtual server associated with the shared volume and is called <cluster object name>_<shared vol name>_SERVER.

ConsoleOne also creates a Cluster Volume object called <shared vol name>_SERVER in the Cluster object container.

Installing NetWare NFS Services 3.0 SP1 with Cluster Services

1. Before you install NetWare NFS Services 3.0 Support Pack 1, stop the NetWare NFS Services 3.0 running on your server by performing nfsstop.

2. Make sure that the shared volume where all the configuration files are to be copied is mounted on the server.

3 Download NetWare NFS Services 3.0 Support Pack 1 into a folder on the server.

4 Click Novell > Install > Add.

You are prompted for the directory that you are installing the product from.

5 At the Welcome screen, click Next.

6 At the Languages screen prompt, click Next.

For this release, only English language support is provided.

7 Choose to install NetWare NFS Services 3.0 Support Pack 1 with Cluster Services.

7a Click Yes for Cluster-enabled installation.

7b Enter the <shared vol name>_SERVER for the Cluster Volume object.

This name should not exceed 20 characters.

7c Enter the <shared vol name> that is used by the machines in the cluster.

7d Enter the Secondary IP Address associated with the NFS Cluster Resource Object Name and click Next.

8 At the Login panel, enter the NDS Tree Name, context of the server, username, and password. Then click OK.

9 At the prompt informing you that the configuration files will be copied to the ETC directory of the shared volume, click Yes unless you are not sure or you want to modify the information. Clicking No will take you back to Step 7.

10 At the Components panel, check the components you want to install.

By default, all the components are installed.

11 Click Next > Finish.

12 (Conditional) If you choose to install NIS Server, then after installing NIS Server, load nisinst from the server console to create an NISSERV_*resourcename* object in NDS. Then from ConsoleOne, add the domains listed in the NISSERV_*servername* object Membership tab of each node in the cluster to the NISSERV_*resourcename* Membership tab.

This ensures that the NIS Server will serve the domains which you earlier migrated.

13 Install NetWare NFS Services 3.0 Support Pack 1 with Cluster Services on all the nodes.

To install on each next node, dismount the Cluster Service from the previous node. After installing on all the nodes, dismount the service from the last node before you begin using the service. To dismount the service, go to the server prompt and enter

nfsstop

dismount <shared vol name>

nss /forcedeactivate=<shared vol name>

14 Edit the IP addresses and volume-specific commands in the load and unload scripts to customize your specific NetWare NFS Services 3.0 Support Pack 1 configuration.

See the next section, “Configuring NetWare NFS Services 3.0 SP1 with Cluster Services.”

Configuring NetWare NFS Services 3.0 SP1 with Cluster Services

To customize your specific NetWare NFS Services 3.0 SP1 configuration, edit the IP addresses and volume-specific commands in the load and unload scripts. Select and right-click the Cluster Volume object and then click Properties to find the Cluster Resource Load Script and Cluster Resource Unload Script. Following are the formats for these scripts.

```
Load Script

nss /activate=<shared vol name>

mount <shared vol name> volid=XX

nfsclust <AAA.BBB.CCC.DDD> <shared vol name> <shared vol name>_SERVER

<shared vol name>:\ETC\NFSSTART

NUDP ADD <cluster object name>_<shared vol name>_SERVER AAA.BBB.CCC.DDD

ADD SECONDARY IPADDRESS AAA.BBB.CCC.DDD
```

If you want to export other shared volumes using NFS Server, include the following statements before **NUDP ADD <cluster object name>_<shared vol name>_SERVER AAA.BBB.CCC.DDD** for every new shared volume that you will be exporting:

nss /activate=<volumename>

mount <volumename> volid= <253 or lesser than this no>

To get the exact value for *volid*, refer to the product Readme.

Unload Script

```
del secondary ipaddress <AAA.BBB.CCC.DDD>

NUDP DEL <cluster object name>_<shared vol name>_SERVER AAA.BBB.CCC.DDD

<shared vol name>:\etc\nfsstop

dismount <shared vol name> /force

nss /forcedeactivate=<shared vol name>
```

If you have already exported other shared volumes using NFS Server, include the following statements after **`nss /forcedeactivate=<shared vol name>`** to deactivate and dismount every shared volume:

`dismount <volumename> volid=<number specified in the load script>`

`nss /forcedeactivate=<volumename>`

Starting and Stopping NetWare NFS Services 3.0 SP1 with Cluster Services

1. To start NFS Services, from the Cluster ConsoleOne, click Cluster Object > View > Cluster State > Cluster Vol Object Online.
2. To stop NFS Services, from the Cluster ConsoleOne, click Cluster Object > View > Cluster State > Cluster Vol Object Offline.

For further details on working with NetWare Cluster Services, refer to the NetWare Cluster Services documentation at the Novell online documentation site (http://www.novell.com/documentation/lg/ncs/docui/index.html).