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## SETTING UP A NOVELL SERVER WITH NETWARE v3.12

- System Memory** 10gig HDD partition = 64megs, 256megs = 40gig HDD, 512megs = 80 Gig  
Note> Shunt drive for 32gig max to save memory, or partition drive for 4-gigs {16mrgs}  
**Warning! CMOS HDD Settings Must be NORMAL (Large or LBA Could Fail)**
- Initial System Boot** Boot using Novell Install Diskette. (Make certain CD-ROM drivers are loaded)  
Choose} "Install New Netware v3.12", then use the system defaults
- DOS Partition** Create 5mb partition and format. Note: System will re-boot once
- Server Name** **SERVER**
- IPX Internal Net** Assign IPX internal network number (**use default**)
- Copy Boot Files** Copy server boot files to DOS partition: SYSTEM\_1, SYSTEM\_2, and UNICODE  
Press **F10** for locale configuration
- File Format** "Select the file format" – (Use DOS filename format)  
"Do you want to specify any special startup?" **NO**  
"Do you want AUTOEXEC.BAT to load SERVER.EXE? **YES**  
"Enter the path to your AUTOEXEC.BAT" Path: **C:\AUTOEXEC.BAT**
- System Console** System Console will now automatically load...  
**Load Disk Driver** type} **Load IDE** (default) OR **Load AHA1520** OR **1540** depending on SCSI board  
Press} **Enter** for default I/O port of **1F0**, press enter for default Interrupt **E**
- Load Install** type} **Load INSTALL**  
Select} "Disk Options", "Partition Tables", "Create Netware Partition". Type} **Esc** to create partition  
Select} **Yes, Esc, Esc, Esc**, then Exit
- Register Memory** type} **Register Memory 1000000 D000000** (256meg), **F000000** (512meg)  
You will receive the following message: "Memory was successfully added"
- Volume Options** type} **Load install**  
Select} "Volume Options"  
Press} **INS**, press} **Esc**  
"Create volume", **Yes**  
"Mount Volume", (allow approximately 4 minutes for this function to complete), press} **Esc**.  
press} **Enter**, down arrow to "Status:", press} **Enter, Enter** again to "Mount Volume", wait  
approximately 2 minutes. Status will change to" Mounted". **Esc, Esc**
- System Options** Select} "System Options"  
Select} "Copy System and Public Files"  
If using a CD-Rom, press} **F6**  
File Location on CD-ROM: **D:\Netware.312\English** (allow 10 minutes for files to copy), then **Esc**
- Create Startups** Select} "Create AUTOEXEC.NCF" Esc, then **Yes** to save settings.  
Select} "Create STARTUP.NCF", press} **Enter, Esc** select} **Yes, Esc**, and exit install
- DOWN SYSTEM** type} **DOWN**, insert the INSTALL Diskette, then type} **EXIT** to get C:\SERVER.312  
**Note: Do Not Turn-off Server's Power until the next patch function is completed**

## SETTING UP A NOVELL NETWARE SERVER Cont...

**Patch System Files** If you have access to the batch file **PATCH.BAT**, execute it and skip down to RE-BOOT SERVER  
Copy System Patches from FDD to C:\SERVER.312 - View readme and execute the following instruction  
type} **LSWAP LOADER.EXE SERVER.EXE** (Precludes the need to register memory)  
You will receive the message: "The new Loader file LOADER.EXE has been successfully installed"

**LPT2 & LPT3** **SIIG:** Copy all files **A:\DOS** to **C:\**  
**OTHER CARDS:** Copy Printer Drivers from Floppy Disk to **C:\**  
Edit **AUTOEXEC.BAT** to load Printer Drivers other then SIIG

**Copy LAN Drivers** **RTk8139:** Distribution Disk, Change DIR to **A:\NWSERVER\312**  
Copy all server files to **C:\SERVER.312**

**ISA Card:** Reboot then Load NE2000 Frame=Ethernet\_802.3  
Bind IPX to NE2000, Use Network#: 100

**RE-BOOT SERVER** Re-boot & Wait for Novell Prompt **DBS:** (allow up to 4 minutes depending on processor speeds)

**Load LAN Drivers** **RealTek 8139 Drivers**  
**Load C:\SERVER.312\NBI31X**  
**Load C:\SERVER.312\RTSSRV Slot=2 Frame=Ethernet\_802.2**  
**Bind IPX to RTSSRV Net=100**  
**Load c:\SERVER.312\RPL** <Remote Boot Loader Only  
**Bind RPL to RTSSRV** <Remote Boot Loader Only  
Note: Frame type must be **802.3** to run NE2000 Clients

**Update AUTOEXEC** type} **Load Install**, select "System Options" select "Create AUTOEXEC.NCF File"  
Add or modify the above LAN driver load. **Esc** to save, **Esc, Esc**, Exit Install  
**End of Server Setup**

**Client Workstation** **CLIENT WORKSTATION SETUP PROCEEDURE...**  
Load supplied files: type} **IPX**, type} **NET6** (initialize Network Card, load LAN Driver)

Type} **LOGIN SUPERVISOR**, Type} **SYSCON**  
Proceed to "Supervisor Options"  
Proceed to "System Login Script" and enter the following:

```
MAP F:=SYS:DBS
MAP s1:=SYS:PUBLIC
MAP s2:=SYS:DOS5
Comspec=s2:COMMAND.COM
DOS SET USER="%FULL_NAME"
```

Press} **Esc** & Save Changes, press} **Esc**

Proceed to "User Information"

Press} **Ins** to enter} "User Name"

Example: type} **USER1**, press} **Enter**

A new window will pop up "Path to Create User's Home Directory" press} **Esc**

USER1 is now added into the User List. Press} **Enter** to continue to User Information...

Select "**Account Restrictions**": Limit Connections to **1**

Select "**Change Password**" (Optional)

Select "**Full Name**" to User's first name, **USER1** <Note: You must use all capitals

Select "**Login Script**" a new window "Login script does not exist" will appear

Press} **Enter**, then Add the following script to the blank window:

```
#CAPTURE /L=1 /J=DEFAULT /Q=PRINTQ_1 <Print Server Only)
#CAPTURE /L=2 /J=DEFAULT /Q=PRINTQ_2 <Print Server Only)
#CAPTURE /L=3 /J=DEFAULT /Q=PRINTQ_3 <Print Server Only)
```

Press} **Esc** and save changes

Select "**Security Equivalences**" press} **Insert**, scroll down to SUPERVISOR and

Press} **Enter**, then **Esc**. This will allow the user to have all login privileges.

## SETTING UP A NOVELL SERVER for v3.12 Cont...

Continue to add as many users as required.

NOTE: Set Supervisor "Full Name" to **SUPERVISOR**

Press} **Esc, Esc**, and exit SYSCON

From your distribution diskette, copy the following system files:

COPY:       **NET\$DOS.SYS**           to: F:\LOGIN  
             **USER.BAT**             to: F:\LOGIN  
             **AUTOEXEC.BAT**       to: F:\LOGIN

**AUTOEXEC.BAT**  
**@echo off**  
**Prompt \$p\$g**  
**F:**  
**CD\LOGIN**  
**USER**

The only required files for the Login Directory are: **LOGIN.EXE, NET\$DOS.SYS, USER.BAT, & AUTOEXEC.BAT**

Create Server Directories from any Workstation on directory **F:\ DBS** and **DOS5**

COPY: **DBS** Files to **F:\DBS**

COPY: **DOS5** files **COMMAND.COM, FORMAT.COM, & SDIR.COM** to **F:\DOS5**

### PRINT SERVER INSTALLATION

#### PRINT SERVER

Pg-21 Novell's "PRINT SERVER" Manual for additional reference

Setup for a total of (3) LPT ports: LPT1, LPT2, LPT3

Login to any Client Workstation as Supervisor

Type} **PCONSOLE**

Select "Print Queue Information"

Press} **INS** key: "New Print Queue Name": enter} **PRINTQ\_1**, then press} **Enter**

Press} **INS** key: "New Print Queue Name": enter} **PRINTQ\_2**, then press} **Enter**

Press} **INS** key: "New Print Queue Name": enter} **PRINTQ\_3**, then press} **Enter**

Press} **Esc** then proceed to "Print Server Information", press **INS** key,

a dialog box will appear "New Print Server Name:" type **PSERV**, then press} **Enter**

Press **Enter** and proceed to "Print Server Configuration", then press} **Enter**

Proceed to "Printer Configuration" and press} **Enter**

From the "Configured Printers" box, press} **Enter** then Type **LPT1** for the Name, then press} **Enter**

For Type: press} **Enter** then choose "**Parallel LPT1**" and **Enter**

For Interrupts choose **N** for No, then press} **Enter** and press} **Esc** to save changes

Repeat this procedure for LPT2 and LPT3...

Press} **Esc, Esc** to return to the "Print Server Configuration" option, then press} **Enter**

Select "Queues Served by Printer" Press} **Enter** for LPT1, press} **Enter**

A new dialog box named: | File Server       Queue       Priority | will appear

Press} **Insert** key, Select **PRINTQ\_1**, press} **Enter**, then **Enter** for Priority 1: **Esc** to Save setting

Follow this procedure for each printer, LPT2 & LPT3

**Esc, Esc, Esc**, and Exit **PCONSOLE**

From File Server's Keyboard, type} **LOAD PSERVER PSERV**

8 boxes will display showing LPT1, LPT2, & LPT3, with the remaining boxes as "Not Installed"

Press} **Alt-Esc** to return to the monitor screen with the **DBS** prompt:

Type} **Load Install**

Drop down to "System Options"

Drop down to "Edit AUTOEXEC.NCF File"

Add **Load PSERVER PSERV** to the bottom blank line

Press} **Esc**, then Save Changes, press} **Esc** System Options, press} **Esc** to Exit Install

# SETTING UP A NOVELL NETWARE SERVER Cont...

## From any Client's Workstation:

Enter **PRINTCON**

Select "Edit Print Job Configurations"

Press} **Insert** key, type **DEFAULT**, when prompted "Enter new name", press} **Enter**

A banner will appear saying: No forms defined on server..., press} **Esc** to continue

Configure the next screen as such:

Number of copies:	<b>1</b>	Form name:	(None defined)
File Contents:	Byte stream	Print banner:	<b>No</b>
Tab Size:	(blank)	Name:	(blank)
Suppress Form feed:	<b>Yes</b>	Banner name:	(blank)
Notify when done:	No		
Local printer:	1	Enable timeout:	<b>Yes</b>
Auto endcap:	Yes	Timeout count:	5
File server:	DBS		
Print queue:	PRINTQ_1		
Print server:	(Any)		
Device:	(None)		
Mode:	(None)		

Press} **Esc** to Save Changes

Press} **Esc, Esc**, Exit Printcon and "Save Print Job Configuration"

Type} **Logout**, then log back in as } **LOGIN SUPERVISOR**, to get the new print job profile

Enter} **PRINTCON**

Select "Copy Print Job Configurations"

Source User: type} **SUPERVISOR** type} **Enter**

Target User: (User Names) Example: **USER1**

Repeat this procedure for all users...

Press} **Esc** and Exit Printcon

## Exit System

Enter} **LOGOUT**

Down the File Server by typing} **DOWN**, then type} **Exit**

Re-Boot Server

## End of Installation

After the Server is fully re-booted, displaying the 8 printers, you can then login to all workstations.

Hint: If you are using Diskless Workstations, Login using the Remote Boot-Rom to test the system's NET\$DOS.SYS file.

You should be able to login without any drives on the Workstation. For multiple Boot Images, refer to pg 65 in the "Workstation for DOS"

Note: flag NET\$DOS.SYS as sharable to insure that other workstations will not be locked out during boot time.

If old users are removed, run BINDFX from any workstation to automatically remove mail & trustee rights

To Shut-Down the File Server, Logoff and power-down all user's Workstations.

From the Server's keyboard press} **Alt-Escape** then type} **DOWN**

Note: Pressing} **ALT-Esc** again will restore the Print Server's Screen

You will receive a message "Notifying Stations that File Server is down"

You can now safely turn-off the Server's Power, or type} **EXIT** to return to DOS

# APPENDIX

## TYPICAL NOVELL FILE SERVER NIC DRIVER SETUP

### Sample AUTOEXEC.NCF found in the SYSTEM sub-directory

File Server Name **DBS**  
IPX Internal net xxxxxxxxxxxx  
Register memory 1000000 X000000

<Note: X000000 depends on the memory size

rem **REALTEK Chip Set**  
rem load c:\server.312\NBI31X  
rem load c:\server.312\RTSSRV slot=1 frame=ethernet\_802.2  
rem bind IPX to RTSSRV net=100  
rem load c:\server.312\RPL  
rem bind RPL to RTSSRV  
rem load pserver PSERV

Note: You Must Use Frame Type 802.3 for NE-2000 Clients. ISA NICs typically won't address 802.2

rem **MSI**  
rem load c:\server.312\NBI31X  
rem load c:\server.312\rtgbsrv slot=2 frame=ethernet\_802.2  
rem bind IPX to rtgbsrv net=100  
rem load c:\server.312\RPL  
rem bind RPL to rtgbsrv  
rem load pserver PSERV

rem **DELL (Intel PRO/100)**  
rem load c:\server.312\MSM31X  
rem load c:\server.312\ETHERTSM  
rem load c:\intel\CE100B  
rem bind IPX to CE100B Net=100  
rem load c:\server.312\RPL  
rem bind RPL to CE100B  
rem load pserver pserv

rem **NE2000**  
rem load c:\server.312\NE2000 port=320 int=5 frame=ethernet\_802.3  
rem bind IPX to NE2000 Net=100  
rem load pserver PSERV

### Sample STARTUP.NCF

Load IDE port=1F int=E

DOS Partition 8-megs  
Netware Partition 4-gigs

BINDFIX: If old users are removed, run BINDFX from any workstation to automatically remove mail & trustee rights