Configuring Windows NT 4.0 on TCP/IP Networks

Data Requirements

Parameter	Description	Your Value
Printer name	User-assigned name of the printer	
Printer driver name	Name of the printer driver for NT. The **default** name of the driver is "IBM Network Printer *nn*".	
IP address	IP address of the NIC.	
Name of the printer (lpd queue name)	This is not the same as the printer name. Set to the capitalized word PASS. (If you are printing plain text files without an IBM printer driver and experience formatting problems, try using the capitalized word TEXT.)	

Configuration Procedure

> **Authority Level Required**
>
> All of the following configuration steps carried out on Windows NT for TCP/IP may require **administrative** authority to be able to login to the NT 4.0 server.
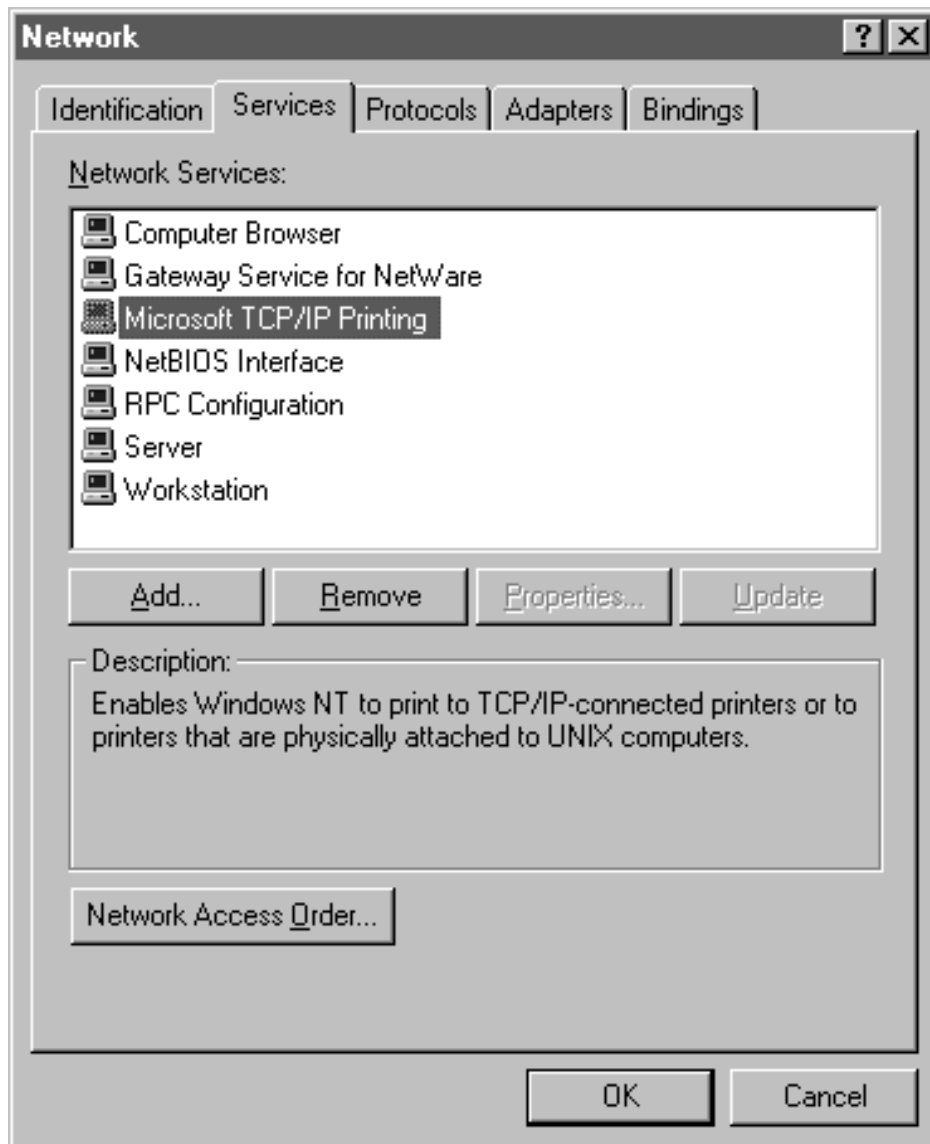
Summary of Configuration Procedure:

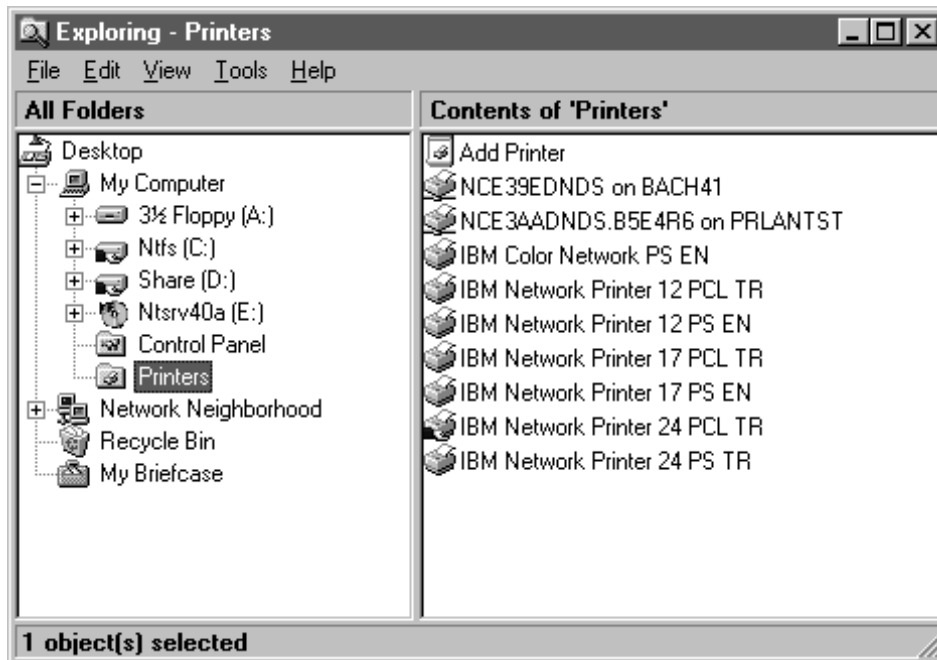- Setup the NIC as an LPR port
- Share the printer on the network

Detailed Configuration Procedure:

1. Logon to the NT 4.0 server as administrator.
2. Verify that **Microsoft TCP/IP Printing** service has been installed by doing one of the following two procedures:
   - One way:

1

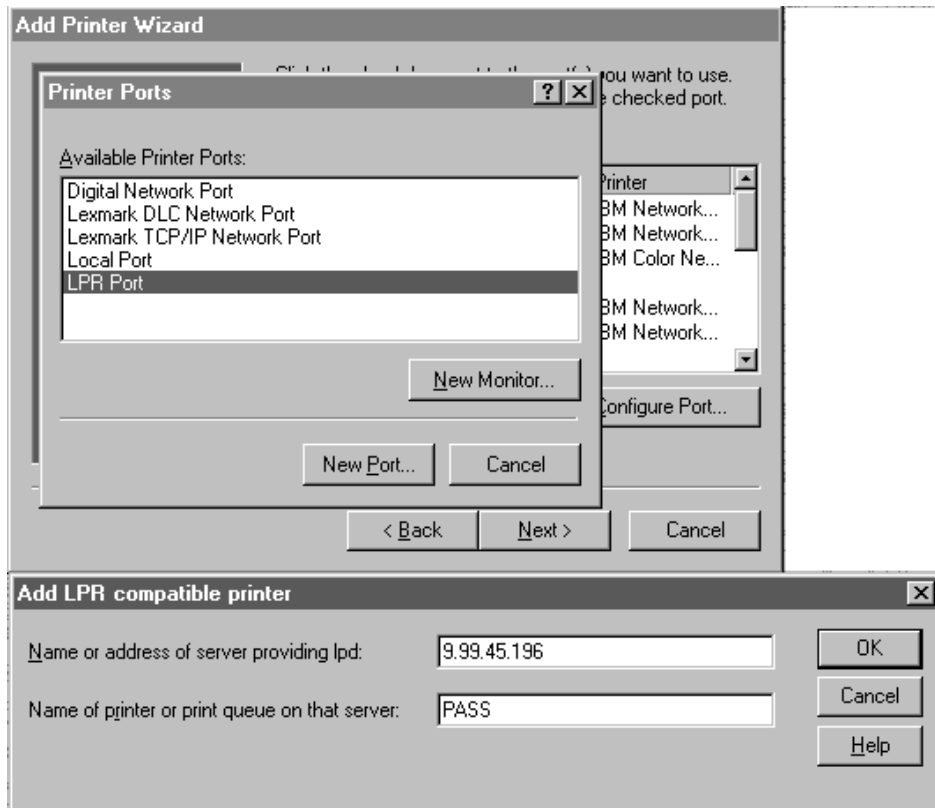a. RIGHT click the **Network Neighborhood** icon to display a dialog.
   b. Select **Properties**.
   c. Select the **Services** tab.
- Another way:
   a. Select **Start**, then **Settings**, then **Control Panel**, then **Network**.
   b. Select the **Services** tab.
- Verify that Microsoft TCP/IP Printing is on the list of installed services. If the service is not on the list, use the NT 4.0 documentation to install it.

3. Back at the main NT window, select **Start**, then **Programs**, then **Windows NT Explorer**.

4. Select the **Printers** folder from the **All Folders** list.

5. From the **Contents of 'Printers'** list, run **Add Printer**.

```
Exploring - Printers                                    _ □ ×
File   Edit   View   Tools   Help
─────────────────────────────────────────────────────────────
All Folders                    │ Contents of 'Printers'
─────────────────────────────────────────────────────────────
Desktop                        │ Add Printer
My Computer                    │ NCE39EDNDS on BACH41
  3½ Floppy (A:)               │ NCE3AADNDS.B5E4R6 on PRLANTST
  Ntfs (C:)                    │ IBM Color Network PS EN
  Share (D:)                   │ IBM Network Printer 12 PCL TR
  Ntsrv40a (E:)                │ IBM Network Printer 12 PS EN
  Control Panel                │ IBM Network Printer 17 PCL TR
  Printers                     │ IBM Network Printer 17 PS EN
Network Neighborhood           │ IBM Network Printer 24 PCL TR
Recycle Bin                    │ IBM Network Printer 24 PS TR
My Briefcase
─────────────────────────────────────────────────────────────
1 object(s) selected
```

6. In the **Add Printer Wizard** window, click the **My Computer** radio button, then click **Next**.

7. In the next screen, click **Add Port**.

8. In the **Printer Ports** window, double-click **LPR Port** from the **Available Printer Ports** list.

9. In the **Add LPR compatible printer** window:

   a. Enter the hostname or IP address assigned to the NICin the **Name or address of server providing lpd** field.

   b. Enter the capitalized word PASS in the **Name of printer or print queue on that server** field. (If you are printing plain text files without an IBM printer driver and experience formatting problems, try using the capitalized word TEXT.)

Add Printer Wizard

Printer Ports

Available Printer Ports:

Digital Network Port
Lexmark DLC Network Port
Lexmark TCP/IP Network Port
Local Port
LPR Port

New Monitor...

New Port...   Cancel

< Back   Next >   Cancel

Add LPR compatible printer

Name or address of server providing lpd: 9.99.45.196

Name of printer or print queue on that server: PASS

OK
Cancel
Help

10. Click **OK**.

11. Click **Close** on the **Printer Ports** window.

12. Verify that the correct port is checked in the **Available ports** list.

13. Click **Next**.

14. If you have not yet installed the IBM NT 4.0 printer driver, click the **Have disk** button and follow the installation instructions. If you have already installed the printer driver, go to step 15.

15. Click **IBM** in the **Manufacturers** list, then click the printer driver for the printer you are configuring.

16. Click **OK**.

17. In the next new driver screen, click the radio button for the option you want, then click **Next**.

18. In the next screen, change the **Printer name**, if you want, then click the radio button if you want the printer to be the default printer.

19. Click **Next**.

20. In the printer sharing window, click the button for your sharing option. Optionally, change the **Share name** by which the printer is to be known on the network.
21. Optionally, select the OS printing support you want, then click **Next**.
22. Print a test page by clicking the appropriate button, then click **Finish**.

Verifying the Configuration

Test the NT configuration for TCP/IP by sending a print job from the command line or an application:

From the Command Line

Send a print job from the command line by entering a command in the form:

```
lpr -S ip_address -P PASS filename
```

where *ip_address* is the IP address of the NIC—not the IP address of the host workstation, and PASS is the printer name specified at step 9.b on page 4.

Notes:

1. The -S and -P must be in capitals, as shown.
2. If the print queue says the print job is printing but nothing prints, check the timeout value. If set too high, the print job may not print right away.

From an Application

Test the configuration by sending a print job to the printer from any Windows application:

1. Select **Print Setup** from the **File** menu, then select the printer queue.
2. Click **OK**, then select **Print** from the **File** menu.

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