Sixty Short Steps To Diskless OS/2 Bliss

For booting diskless OS/2 Warp Connect 3.0 clients via RPL.

Requirements

1. A server system (486 or higher with 1 GB of hard disk space, an OS/2-compatible network card, and at least 16 MB of RAM, though 32 MB is highly recommended). A CD-ROM drive and working floppy drive are required.
2. A client system with an OS/2-compatible network card and the accompanying RPL boot ROM for your specific card. A 386 SX/25 or higher processor is required, with 8 MB of RAM required (16 MB recommended). No hard disk is necessary. If you have one, disable/disconnect it.
3. Ethernet switch, cables, etc., to connect the machines.
4. Copies of OS/2 Warp Connect 3.0 and OS/2 Warp Server 4, Advanced Server edition.

Steps

1. Install OS/2 Warp Server 4. Configure it as a Domain Controller and install NetBIOS, IBM 802.2, and TCP/IP protocols. This is probably the hardest part on real hardware. OS/2 is a finicky beast.
2. Boot your newly-installed server and open LAN Services File and Print Folder
3. Run OS/2 LAN Services Installation/Configuration
4. When prompted for the installation type, choose Tailored.
5. Install or Configure This Workstation
6. Server Type: Domain Controller
7. When asked to re-install MPTS, choose No
8. On Adapter Confirmation dialog, click OK.
9. On LAPS Configuration dialog, make sure 802.2 and NetBIOS are installed. Click OK.
10. At the Installation and Configuration dialog, choose Install or remove a component.
11. Choose OS/2 Remote IPL Service and the DOS Requester service, click the Install button.
12. Make a note of the RIPLINST note indicated by the dialog, then click OK.
13. At the Install and Remove dialog, click OK.
14. At Installation and Configuration dialog, choose Configure a component
15. Select the OS/2 Remote IPL Service and choose Configure.
16. In Copy Programs, select OS/2 LAN Requester and click Copy. Do the same with DOS LAN Requester.
17. Click OK
18. Remote IPL Subdirectory dialog: Choose drive C and click OK.
19. Remote IPL User Subdirectory dialog: Choose drive C and click OK.
20. Configure dialog reappears. Click OK.

21. Installation and Configuration reappears. Choose Apply the changes and click OK.
22. Choose OK to stop LAN Server.
23. Hard Disk allocation dialog appears. Click OK.
24. You'll be prompted for the Warp Server 4 CD-ROM. Insert it. Click OK.
25. The installation will prompt for your PC-DOS diskettes. Follow the prompts to install your chosen version of PC-DOS.
26. The File Backup dialog appears. Click OK.
27. Installation Complete dialog appears. Click OK.
28. Reboot OS/2.
29. Download OS/2 Warp 3.0 Connect CD-ROM ISO from WinWorldPC, burn it to a disc, and insert the disc into your CD-ROM drive.
30. Open an OS/2 Window and navigate to the root directory of C: if you're not already there.
31. Run UNPACK D:\OS2IMAGE\DISK_7\RIPLINST (this installs to C:\OS2\INSTALL)
32. Make a directory in C:\ called **disks**
33. CD DISKS
34. XCOPY /S/E D:\OS2IMAGE* .
35. From the OS/2 Windows, run RIPLINST
36. Set the Source Directory to C:\DISKS and the Remote IPL Directory to C:\IBMLAN\RPL\OS2.30
37. Click the Install button and await the file copy.
38. Exit OS/2 3.0 Installation for RPL.
39. Log onto the OS/2 domain with administrator rights (Use the **Login** icon in the LAN Services File and Print folder or run **NET LOGON** from the OS/2 Window).
40. Run GETRPL from the OS/2 Window.
41. After a few minutes, a message indicating the update is complete appears. Click OK.
42. You must configure 3COM EtherLink III NDIS support. Put the 3C509B driver disk in drive A: and open a OS/2 Window.
43. Set your current drive to A:, and change to the NDIS2\OS2 directory.
44. Copy the OS/2 NIC driver (*.OS2) and NIF (*.NIF) file to C:\IBMLAN\RPL\IBMCOM\MACS directory. The 3c509b has no MSG file on my disk. Rename EL3IBMO2.NIF to ELNK3.NIF
45. Copy the DOS NIC driver (*.DOS) and NIF (*.NIF) files to C:\IBMLAN\DOSLAN\LSP\DOS. There is no MSG file. Rename el3ibmds.nif to elnk3.nif
46. Using the MS-DOS Editor (QBASIC /EDIT in OS/2), edit C:\IBMLAN\RPL\RPL.MAP and uncomment the OS/2 warp 3 line with R_230_OETE3 to enable the EtherLink III support for OS/2. Similarly uncomment the EtherLink III option for IBM DOS. Save and quit the editor.
47. Create a PC-DOS boot image with UMB support. Run the command: makeimg std3humb /f1.4
48. Close the OS/2 Window.
49. Open LAN Services File and Print from the desktop.
50. Log on as ADMINISTRATOR (Logon) if not logged on.

51. Open the LAN Services File and Print folder, and run the LAN Server Administrator application.
52. Double-click Local Workstation, then open Services
53. Right-click Remote IPL and choose Start. When prompted for parameters, leave them blank.
54. Back in the Local Workstation WARPDRIVE folder, open Remote IPL Requesters
55. Right-click Remote IPL Requester Template and choose Create...
56. Set the following:
    Status: Enable OS/2 Requester (Choose DOS Requestor if you want PC-DOS)
    Machine ID: TAN2500
    Description: Tandy 2500 SX/25
    Machine ID: 00A02413EB92
57. Click the Parameters tab and choose:
    Server Record Identifier: R_230_OET3E3 (for PC-DOS, choose the ELink III profile)
    Remote IPL Boot Drive: C (for PC-DOS, instead of drive letter, choose std3humb)
58. Click Create
59. Boot the client.
60. Enjoy the diskless OS/2 Warp 3.0 experience!