

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.
2. Open LAN Services File and Print Folder
3. Run OS/2 LAN Services Installation/Configuration
4. Install or Configure This Workstation
5. Server Type: Domain Controller
6. When asked to re-install MPTS, choose No
7. On Adapter Confirmation dialog, click OK.
8. On LAPS Configuration dialog, make sure 802.2 and NetBIOS are installed. Click OK.
9. At Installation and Configuration dialog, choose Install or remove a component.
10. Choose OS/2 Remote IPL Service and the DOS Requester service, click the Install button.
11. Make a note of the RIPLINST note indicated by the dialog, then click OK.
12. At the Install and Remove dialog, click OK.
13. At Installation and Configuration dialog, choose Configure a component
14. Select the OS/2 Remote IPL Service and choose Configure.
15. In Copy Programs, select OS/2 LAN Requester and click Copy. Do the same with DOS LAN Requester.
16. Click OK
17. Remote IPL Subdirecetory dialog: Choose drive C and click OK.
18. Remote IPL User Subdirecetory dialog: Choose drive C and click OK.
19. Configure dialog reappears. Click OK.
20. Installation and Configuration reappears. Choose Apply the changes and click OK.
21. Choose OK to stop LAN Server.

22. Hard Disk allocation dialog appears. Click OK.
23. The installation will prompt for your PC-DOS diskettes. Follow the prompts to install your chosen version of PC-DOS.
24. The File Backup dialog appears. Click OK.
25. Installation Complete dialog appears. Click OK.
26. Reboot OS/2.
27. 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.
28. Open an OS/2 Window and navigate to the root directory of C: if you're not already there.
29. Run UNPACK D:\OS2IMAGE\DISK_7\RIPLINST (this installs to C:\OS2\INSTALL)
30. Make a directory in C:\ called **disks**
31. CD DISKS
32. XCOPY /S/E D:\OS2IMAGE* .
33. From the OS/2 Windows, run RIPLINST
34. Set the Source Directory to C:\DISKS and the Remote IPL Directory to C:\IBMLAN\RPL\OS2.30
35. Click the Install button and await the file copy.
36. Exit OS/2 3.0 Installation for RPL.
37. Log onto the OS/2 domain with administrator rights (Use the **Login** icon in the LAN Services File and Print folder).
38. Run GETRPL from the OS/2 Window.
39. After a few minutes, a message indicating the update is complete appears. Click OK.
40. Open the LAN Services File and Print folder, and run the LAN Server Administrator application.
41. Double-click Local Workstation, then open Services
42. Right-click Remote IPL and choose Start. When prompted for parameters, leave them blank.
43. OS/2 RPL Next Steps (42 and up)
- 44.
45. You must configure 3COM EtherLink III NDIS support. Put the 3C509B driver disk in drive A: and open a OS/2 Window.
46. Set your current drive to A:, and change to the NDIS2\OS2 directory.
47. 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
48. 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
49. Using the MS-DOS Editor, 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 and DOS Window.
50. Open LAN Services File and Print
51. Log on as ADMINISTRATOR (Logon)

52. Open LAN Server Administrator and choose Local Workstation WARPDRIVE
53. Open Services, right-click Remoteboot, and click Start. Close Services.
54. In Local Workstation WARPDRIVE, open Remote IPL Requesters
55. Right-click Remote IPL Requester Template and choose Create...
56. Set the following:
 - Status: Enable OS/2 Requester
 - Machine ID: [A MACHINE ID, LESS THAN 8 CHARS]
 - Description: [DESCRIBE YOUR MACHINE]
 - Machine ID: [CLIENT MAC ADDRESS]
57. Click the Parameters tab and choose:
 - Server Record Identifier: R_230_OET3E3
 - Remote IPL Boot Drive: C
58. Click Create
59. Boot the client.
60. Enjoy the diskless OS/2 Warp 3.0 experience!