

Summary of Features: Network Operating Systems

| | | | PC Magazine Editors' Choice | | | |
|------------------------------------|-------------------------------|--------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|
| | Microsoft NT Server 3.5 | NetWare 3.12 | NetWare 4.1 | OS/2 LAN Server 4.0 Entry | OS/2 LAN Server 4.0 Advanced | VINES 5.54 |
| General Features | | | | | | |
| Minimum disk space required | 90MB | 40MB | 75MB | 52MB | 52MB | 80MB |
| Maximum disk space supported | 1,700TB | 32TB | 32TB | 1.5TB | 1.5TB | 20GB |
| File systems supported: | | | | | | |
| FAT | Y | N | N | Y | Y | N |
| HPFS | N | N | N | Y | Y | N |
| NetWare file system | N | Y | Y | N | N | N |
| NFS | Optional (via third party) | Optional | Optional | Optional | Optional | Optional (via third party) |
| NTFS | Y | N | N | N | N | N |
| VINES file system | N | N | N | N | N | Y |
| User can migrate from other NOS | Y (NetWare 3.x) | N | Y (NetWare 3.x) | Y (NetWare 3.x) | Y (NetWare 3.x) | Y (NetWare 3.x) |
| Server Disk Options | | | | | | |
| Data compression/migration | NN | NN | YY | Optional Y | Optional Y | NN |
| Data-block suballocation | Y | N | Y | Y | Y | N |
| Hardware striping | Y | Y | Y | Y | Y | Y |
| Software striping | Y | Y | Y | Optional (via third party) | Optional (via third party) | m |
| Spanning | Y | Y | Y | Y (via third party) | Y (via third party) | Y (via third party) |
| Networked CD-ROM support | Y | Y | Y | Y | Y | Y |
| CPU Support | | | | | | |
| Intel x86 | Y | Y | Y | Y | Y | Y |
| DEC Alpha | Y | N | N | N | N | N |
| Motorola 680x0 | N | N | N | N | N | N |
| Multiprocessing | Y | N | N | Optional | Optional | Optional |
| Multitasking and multithreading | Y | Y | Y | Y | Y | Y |
| Memory Usage | | | | | | |
| Dynamic memory-resource allocation | Y | Y | Y | N | N | Y |
| Maximum cache size | 2GB | 4GB | 4GB | 4GB | 4GB | 100MB |
| Maximum amount of RAM | 4GB | 4GB | 4GB | 4GB | 4GB | 256MB |
| Minimum memory requirement | 16MB | 4MB | 8MB | 8MB | 16MB | 8MB |
| Protected memory (ring 3) | Y | N | Y | Y | Y | Y |
| Network Security | | | | | | |

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| Access to operations by user name and user group | Y | Y | Y | Y | Y | Y |
| Access-control lists are managed on a per-file basis | Y | Y | Y | Y | Y | Y |
| Administrator can limit amount of hard disk space | N | Y | Y | N | Y | Y |
| Administrator can require periodic password changes | Y | Y | Y | Y | Y | Y |
| C2 certification | N | N | N | N | N | N |
| Offers intruder detection and lockout | Y | Y | Y | Y | Y | Y |
| Passwords are encrypted when sent across the network | Y | Y | Y | Y | Y | Y |
| Password restrictions | Y | Y | Y | Y | Y | Y |
| Network Printing | | | | | | |
| Supports printers connected to server | Y | Y | Y | Y | Y | Y |
| Supports printers connected to workstations | Y | Y | Y | Y | Y | Y |
| Supports printers connected to network | Y | Y | Y | Y | Y | Y |
| Protocol Support | | | | | | |
| AppleTalk | Y | Y | Y | Optional | Optional | Optional |
| DHCP | Y | N | N | N | N | N |
| DLC | Y | Y | Y | Y | Y | Y |
| IPX Large Internet Packet | Y | Y | Y | N | N | Y |
| IPX/SPX | Y | Y | Y | N | N | N |
| NetBEUI | Y | Y | Y | Y | Y | Y |
| TCP/IP | Y | Y | Y | Y | Y | Y |
| Server Management | | | | | | |
| Displays error and system status log | Y | Y | Y | Y | Y | Y |
| Displays the number of packets and bytes sent and received | Y | Y | Y | Y | Y | Y |
| Displays cache statistics | Y | Y | Y | Y | Y | Y |
| Displays cache utilization | Y | Y | Y | Y | Y | Y |
| Displays hard disk information | Y | Y | Y | Y | Y | Y |
| Displays LAN driver statistics | Y | Y | Y | Y | Y | Y |
| Displays logical-disk statistics | Y | Y | Y | N | Y | Y |
| Displays the number of open files | Y | Y | Y | Y | Y | Y |

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| Displays paging statistics | Y | N | N | N | N | Y |
| Displays the percentage of CPU utilization | Y | Y | Y | Y | Y | Y |
| Displays physical disk statistics | Y | Y | Y | Y | Y | Y |
| Displays redirector statistics | Y | Y | Y | Y | Y | Y |
| Displays server data statistics | Y | Y | Y | Y | Y | Y |
| Displays session statistics | Y | Y | Y | Y | Y | Y |
| Displays statistics of third-party server services | Y | Y | Y | Y | Y | Y |
| Can assign a single-reference time server | Y | N | Y | Y | Y | Optional |
| CMIP agent | N | Optional | Optional | Optional | Optional | N |
| NetView agent | N | Y | Optional | Y | Y | Y |
| SNMP agent | Y | Optional | Optional | Optional | Optional | Y |
| Audit Trails | | | | | | |
| File and object access | Y | N | Y | Y | Y | Y |
| Log-on and log-off | Y | Y | Y | Y | Y | Y |
| System restart and shutdown | Y | N | N | N | N | Y |
| System errors | Y | Y | Y | Y | m | Y |
| User and group management | Y | N | Y | Y | Y | Y |
| Fault Tolerance | | | | | | |
| Full server redundancy (SFT III) | N | Optional | Optional | N | N | N |
| Duplexing | m | m | m | m | m | m |
| Mirroring | m | m | m | m | m | m |
| RAID levels supported | 0, 1, 5 | 0, 1 | 0, 1 | 1 (others are optional) | 1 (others are optional) | 0, 1, 5 |
| Client OS Support | | | | | | |
| DOS 3.x and higher | Y | Y | Y | m | m | m |
| Macintosh System 7.5 | Y | Y | Y | Optional | Optional | Optional |
| OS/2 1.3 and 2.x | Y | Y | Y | Y | Y | Y |
| OS/2 Warp 3 | N | Y | Y | Y | Y | Y |
| Windows 3.1 | Y | Y | Y | Y | Y | Y |
| Windows for Workgroups 3.11 | Y | Y | Y | Y | Y | Y |
| Windows NT Workstation 3.5 | Y | Y | Y | Y | Y | Y |
| Other Services | | | | | | |
| Backup | Y | Y | Y | Optional | Optional | Y |
| E-mail | Y | Y | Y | Optional | Optional | Optional |
| Host connectivity | Optional | Optional | Optional | Optional | Optional | Optional |
| Remote access | Y | Optional | Optional | Optional | Optional | Optional |

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| Software distribution | Optional | Optional | Optional | Optional | Optional | Optional |
| UPS support | Y | Y | Y | Y | Y | Optional (via third party) |
| Telephony support | Optional (via third party) | Optional | Optional | Optional (via third party) | Optional (via third party) | Optional (via third party) |