

Phalanx v2.0 Hardware Support List

Minimum Hardware Requirements:

CPU: Any Pentium compatible CPU.

RAM: 128 MB.

Storage: At least 8 GB of hard disk storage of any type.
Bootable CD-ROM during installation at least.

Network: At least two Network Interfaces.

Recommended Hardware:

CPU: 2 Ghz or better.

RAM: At least 512 MB PC-133 with ECC.

Storage: At least 18 GB of disk. SCSI. RAID.

Network: At least three Network Interfaces.

Other Considerations:

The signature based NIDS and proxy servers consume a great deal of CPU and therefore CPU should be provided at the highest level possible when high network volume is expected.

The caching proxy server can make use of very large amounts of RAM. More is always better when high network volume is expected.

The caching proxy server can also use very large amounts of disk storage. More disk will allow a higher hit ratio for the cache, and will also provide more space for maintaining historic usage and attack data.

High speed routing is a top priority and so you should be careful which network interface cards you use. Intel's EEPro series and 3Com's 900 series provide low latency and high throughput with efficient CPU utilization.

All the following hardware is supported by the standard Phalanx v2.0. Other hardware may be supported by special arrangement.

CPU:

- x86 Series.
 - **AMD:** K6, K6-2, K7, Athlon, Duron
 - **Intel:** Pentium, Pentium Pro, Pentium II, Celeron, Pentium III, Xeon, Pentium IV

STORAGE:

- SATA
 - **Silicon Image** 3112
 - **AHCI**
 - **Broadcom**
 - **Intel** PIIX/ICH
 - **nVidia**
 - **Promise** TX2, TX4, SX4
 - **Serverworks** Frodo
 - **Silicon Image** 3112
 - **SiS** 964/180
 - **Uli**
 - **VIA**
 - **Vitesse** VSC-7174
- IDE/ATA
 - **AEC** 62xx
 - **Ali** 15xx
 - **AMD** Viper, nVidia
 - **ATI** IXP
 - **CMD** 64x
 - **Compaq** Triflex
 - **Cyrix** CS5530, MediaGX
 - **HPT** 34x, 36x, 37x
 - **Intel** PIIX2, PIIX3, PIIX4, i810, i815, i820
 - **Opti** 82C621
 - **Pacific Digital** ADMA-100
 - **PCI** 2000i, 2220i
 - **Promise** 20246, 2026x, 2027x
 - **PSI** 240i
 - **Silicon Image** 680, 3112
 - **SiS** 5513
 - **SLC** 90E66
 - **Tekram** TRM290
 - **Uli** SATA
 - **VIA** 82Cxxx

- IDE/ATA/SATA RAID/SoftRAID
 - **3Ware**
 - **Highpoint** 370 softraid
 - **Promise** softraid
 - **Silicon Image** 3112 softraid

- SCSI
 - **Acard** 870
 - **Adaptec** 154x, 1740, AIC 7xxx
 - **AdvanSys**
 - **Always** IN2000
 - **AM** 53c974, 79c974
 - **BusLogic** Flashpoint, Multimaster
 - **Compaq** StorageWorks Fibre Channel
 - **Domex** DMX3191D
 - **DTC** 3180, 3280
 - **Future Domain** 1660/1680, 1650/1670, 3260, 1610M/MER/MEX
 - **Initio** 91xxU/W, A100U2W
 - **NCR** 53c406, 53C7xx, 53C8xx
 - **QLogic** IQ-PCI, IQ-PCI-10, IQ-PCI-D, ISP2100, ISP1x80, ISP 1x160
 - **Symbios** 53c416, 53c8xx
 - **Trantor** T128, T228
 - **UltraStore** 14F, 24F, 34F
 - **Western Digital** 7000 Fast
 - **Workbit** Ninja-32Bi

- SCSI RAID
 - **AAR** 2410SA SATA
 - **Adaptec** 2120S, 2200S, 3230S, 3240S, 5400S, I2O
 - **AMI** MegaRAID 418, 428, 438, 466, 762, 490, 467, 471, 493, 518, 520, 531, 532
 - **ARR** 2020S PCI-X
 - **Compaq** Smart2 RAID, SmartArray5 (5xxx)
 - **Dell** PERC 2, PERC 2/Si, PERC 3/Si, PERC 3/Di
 - **DPT** RAID
 - **HP** NetRAID-4M
 - **IBM** ServerRAID
 - **Intel** ICP Vortex
 - **IPC Vortex** GDT RAID
 - **Legend** S220, S230
 - **Mylex**, AcceleRaid, eXtremeRaid, DAC960, DAC1100

NETWORKING

- 10bT/100bT Ethernet
 - **3Com** 509, 59x, 90x, 990
 - **Adaptec** Starfire, DuraLAN
 - **Allied Telesis** AT1700
 - **AMD** AT1500, NE2100, PCNet32, 8111
 - **Apricot** Xen-II
 - **Broadcom** 4400
 - **CableTron** E21xx
 - **CS** 89x0
 - **Davicom** DM9102 PCI
 - **DEC** DECchip, EtherWORKS, Tulip (dc21x4x)
 - **Digi** RightSwitch SE-x
 - **FMV** 181, 182, 183, 184
 - **Fujitsu** FMV-181,182,183,184
 - **HP**
 - PCLan 27xxx
 - PCLAN+ 27247B, 27252A
 - 10/100VG PCLAN ISA, EISA, PCI
 - **ICL Etherteam** 16i, 32
 - **Intel**
 - Depca DE10x, DE200, DE201, DE202, DE210, DE422
 - EtherWorks DE203, DE204, DE205
 - EtherExpress 10, 16, Pro, 82595, Pro100
 - **Myson** MTD-8xx
 - **National Semiconductor** DP83810 (PureData, NetGear, Linksys)
 - **nForce**
 - **LP** 486E onboord
 - **NE** 1000, 2000, 2000PCI
 - **Racal-Interlan** NI5010, NI5210, NI6510
 - **RealTek** 8129, 8139
 - **TI** Thunderlan
 - **SeeQ** 8005
 - **SiS** 900, 7016
 - **SMC** Ultra, Ultra32, 9194, EtherPowerII
 - **Sundance** Alta
 - **VIA** Rhine
 - **Western Digital** 80x3
 - **Winbond** W89c840

- Gigabit Ethernet
 - **3Com** 3C985
 - **Alteon** AceNIC
 - **Broadcom** Tigon3
 - **D-Link** DGE-550T, DL2000
 - **Farallon** PN9000-SX
 - **Intel** Pro1000
 - **National Semiconductor** DP83820
 - D-Link DGE-500T
 - NetGear GA621
 - PureData PDP8023Z-TG
 - SMC 9452TX, 9462TX
 - SOHO GA2000T, GA2500T
 - **NetGear** GA620
 - **PacketEngines** GNIC-II, Yellowfin
 - **Realtek** 8169
 - **SGI** Gigabit
 - **SysKonnnect** SK98xx

- FDDI
 - **Digital** DEFTA, DEFEA, DEFPA
 - **SysKonnnect**

- ATM
 - **Efficient Networks** Speedstream 3010, ENI155P
 - **FORE Systems** 200E, ForeRunner HE
 - **Fujitsu** FireStream
 - **IDT** 77201 (NICStAR, ForeRunnerLE), 77252 (NICStAR II)
 - **Interphase** x575, x525, x531
 - **Madge Ambassador** Collage PCI155, Horizon Collage 25
 - **ZeitNet** ZN1221, ZN1225

- WAN
 - **Control** Hostess SV-11
 - **COSA/SRP**
 - **Cyclades** PC-300
 - **FarSync** T-Series
 - **Goramo** PCI200SYN
 - **Infineon** DSCC4
 - **Lan Media** 1000, 1200, 5200, 5245,
 - **Moxa Technologies** C101, SuperSync
 - **Multigate** COMX, CMX, HiCOMX, LoCOMX, MixCOM
 - **Sangoma** S502A, S502E, S503, S508, WANpipe
 - **SBE Inc.** wanXL PCI
 - **SDL Communications** RISCom Single, Dual
 - **Sealevel Systems** ACB 56
 - **SyncLink**
 - **Xpeed** X200 IDSL, X300 SDSL

- **ISDN**
 - **AsusCom** OEM
 - **Auverttech** TurboPAM
 - **AVM** PnP/PCI, A1, B1 ISA, B1 PCI, T1 ISA, T1 PCI, C4
 - **Elsa** Microlink, Quickstep
 - **Eicon** Diehl, Diva, Scm, Quadro
 - **Gazel**
 - **HFC** HFC-S, HFC-S+, HFC-SP
 - **Hyperscpe** Champ, Ergo, Metro
 - **IBM** Active 2000
 - **ICN** 2B, 4B
 - **ITK** ix1-Micro
 - **PCBIT**
 - **Saphir**
 - **Scitel** Quadro
 - **Sedlbaur**
 - **Siemens** I-Surf
 - **Spellcaster**
 - **TeleINT** SA1
 - **TeleKom** A4T
 - **Teles** PCI, S0Box, 16, 16.3, 16.3c, 8
 - **Traverse Technologies** NETjet, NETspider U
 - **US Robotics** Internal TA
 - **Winbond** 6692 based cards

- **Multiport Serial**
 - **Computone** Intelliport
 - **Control** Rocketport
 - **Cyclades** Async
 - **Digi** Digiboard PC/Xx
 - **Hayes** ESP
 - **Microgate** Synclink
 - **Moxa** Intellio, SmartIO
 - **Multi-Tech**
 - **SDL** RISCom
 - **Specialix** IO8+, SX, RIO
 - **Stallion** EasyIO, EC8/32, EC8/64, ONboard, Brumby

HARDWARE WATCHDOG

- **Ali M7101**
- **Berkshire Products** PC Watchdog
- **Intel** i810, i815
- **Mixcom**
- **WDT** 500P, 501P, PCI