



VIRTUAL PRIVATE LAN NETWORKING

MODEL - VPN100

This trainer provides training of hardware and software theory of Virtual Private networking.



SPECIFICATIONS

(A) Computer Systems (One Server & Two Client's)

- | | | |
|-------------------------|---|-----------------------------|
| 1. CPU with fan | : | Intel Pentium IV 1.5 GHz |
| 2. Mother Board | : | 200 MHZ FSB |
| 3. Memory (RAM) | : | 128 MB SDRAM |
| 4. Display Adaptor card | : | On Board AGP 8 MB |
| 5. Hard Disk | : | 40 GB ATA |
| 6. Floppy Disk Drive | : | 1.44 MB |
| 7. Monitor | : | 15" Colour SVGA |
| 8. Key board | : | 104 Keys Keyboard |
| 9. Mouse | : | Logitech 1st Mouse with pad |
| 10. SMPS | : | 200 Watts AT |

(B) VPN Hardware

- | | | |
|--|---|--------|
| 1. VPN Devices - Routers with Firewall | : | 2 Nos |
| 2. Modem 56 K | : | 1 Nos. |

(C) Training Packages

1. Peer-To-Peer Networking-
2. Client-Server Networking

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

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Dealer:-

EXPERIMENTS

1. To Study the Block Diagram and Working principle of Wireless networking
2. To understand different types of Networks - by Signaling Methods:- Ethernet, ARCNet, Token Ring, Fast Ethernet, FDDI, Gigabit, ATM
3. To understand different types of Networks - by Arrangement type Peer-to-Peer Network, Client-Server Network
4. To understand different types of Network topology - Bus topology, Ring topology, Star topology,
5. To study different types of Network Operating systems - Netware, Netware Light, Fantastic, Windows NT, UNIX
6. To understand different types of Network Protocols - IPX/SPX, NetBEUI, TCP/IP, DLC, NETBIOS,
7. To study different types of Network cables - Yellow thick AUI cable, twisted Pair (UTP), Coax (Thinnest-RG58A/U), Fiber, ARC Net RG-62 cable
8. To study different types of connectors/sockets: - AUI, RJ45 (UTP), BNC, RJ58, Terminators, Patch panel
9. To study different types of Network Interfacing Cards - 16 bit, 8 bit, 32 Bit, ISA, PCI, EISA, MCA, NE2000 compatible, VPN Device Card
10. To study other connecting accessories - Hubs, Repeaters, Routers, Bridges, Switches, Gateway,
11. To Study Installation procedure
12. To configure and install VPN Devices IRQ, I/O port address, DMA channel,
13. To connect RJ-45 connectors, BNC connectors
14. To carry out cabling between computers
15. To connect VPN Device and configure it
16. To install Network Software Server Software, Client software,
17. To test Network installation
18. To perform different types of topology
19. To understand method of connecting LAN to Internet
20. To understand OSI network layers
21. To perform sharing of resources Printer, Hard disk, CD-ROM drive
22. To understand upgrading methods
23. To understand Tuning and speed up methods
24. To understand safety rules on networking
25. To understand and perform preventive methods - Backups, Security, Virus protection
26. To send E-Mails on network
27. To demonstrate and understand different types of faults
28. To study faults diagnosis method
29. To study glossary of the Technical Words