

Network+ Syllabus

1. Network History
2. Network Types
3. Network Models
4. OSI vs TCP/IP Model
5. OSI Layer and Functions
6. Cable Topologies
7. Cable Types
8. Most Common Types of Ethernet
9. Coaxial Cable
10. Fiber Optic Cable
11. Ethernet UTP Cabling
12. UTP Cabling Standards
13. Transmission Methods
14. Hub, Switch, Router
15. Ethernet Addressing
16. Ethernet LAN Switching Concepts
17. Switching Logic
18. Main Switch Jobs
19. Collision Domains
20. Broadcast Domains
21. Virtual LAN
22. Campus LAN Design Terminology
23. IP Address
24. IPV4 Classes
25. Subnet Mask and Wildcard Mask
26. RFC 1918 Private Address Space
27. IP Configuration
28. ICMP (Internet Control Messaging Protocol)
29. ARP (Address Resolution Protocol)
30. DHCP (Dynamic Host Configuration Protocol)
31. Main Layer4 Protocols

- 32. Popular Applications and Their Well-Known Port Numbers**
 - 33. QOS (Quality Of Service)**
 - 34. Application Layer Protocols**
 - 35. DNS (Domain Name Service)**
 - 36. Simulators and Emulators**
 - 37. Domain and Workgroup Networks**
 - 38. Group Policy**
 - 39. Local Group Policy and Domain Group Policy**
 - 40. AAA (Authentication, Authorization, Accounting)**
 - 41. Disk Management**
 - 42. RAID (Redundant Array of Independent Disks)**
 - 43. Clean Installation, Upgrade, Migrate**
 - 44. Firewall**
 - 45. Firewall Types**
 - 46. Inbound and Outbound Traffic on Firewall**
 - 47. Backup and Restore**
 - 48. Internet Connection Sharing**
 - 49. IPV6**
 - 50. IPV6 Addressing and Summarization Rules**
 - 51. NAT and PAT**
 - 52. Wireless Networks**
 - 53. Wireless LAN Standards**
 - 54. Wireless LAN Modes and Names**
 - 55. WLAN Speed and Frequency Reference**
 - 56. WLAN Security Standards**
 - 57. Wireless Network Security**
 - 58. Cabling Laboratory**
 - 59. VM Laboratory**
 - 60. Remote Desktop Laboratory**
 - 61. Telnet Laboratory**
 - 62. VLAN Laboratory**
- 