

Cisco CCNA Outline

Domain 1.0: The Evolution of Internetworking

- 1.1 Basic Internetworking
- 1.2 IP Evolution
- 1.3 Original IP Addressing: Classful Addressing
 - 1.3.1 Class A: (24 bit Host number)
 - 1.3.2 Class B: (16 bit Host number)
 - 1.3.3 Class C: (8 bit Host number)
- 1.4 Basic IP Forwarding
- 1.5 Moving to a Global Internet
- 1.6 Subnetting
- 1.7 Supernetting (CIDR)
- 1.8 Domains, Ass, Border Routers, EGP
- 1.9 BGP

Domain 2.0: Internetworking Devices

- 2.1 Gateway
- 2.2 Router
- 2.3 Redirector
- 2.4 Brouter
- 2.5 Bridge
- 2.6 Switch
- 2.7 Hub
- 2.8 Multiplexer
- 2.9 Repeater

Domain 3.0: The OSI Model

- 3.1 Application
- 3.2 Presentation
- 3.3 Session
- 3.4 Transport
- 3.5 Network
- 3.6 Data link
- 3.7 Physical

Domain 4.0: The Purpose of Each Layer of the OSI Model

- 4.1 Application layer
- 4.2 Presentation layer

- 4.3 Session layer
- 4.4 Transport layer
- 4.5 Network layer
- 4.6 Data link layer
- 4.7 Physical layer

Domain 5.0: Installation and Configuration of CISCO Routers

- 5.1 Locating IOS and Load IOS into Flash
- 5.2 Create backup copy of IOS
- 5.3 Router basic commands

Domain 6.0: TCP/IP Configuration

- 6.1 TCP/IP overview
- 6.2 IP addressing
- 6.3 Subnet addressing/subnet mask
- 6.4 Internet Control Message Protocol (ICMP)
- 6.5 ARP

Domain 7.0: CISCO Router Configuration

- 7.1 TCP/IP
- 7.2 Novell/IPX
 - 7.3 Appletalk

Domain 8.0: Testing Router Configuration

- 8.1 Use CISCO Router Debugging Tools for Multi-protocol Routing
 - 8.2 Telnet
 - 8.3 Trace
 - 8.4 Show Interface
 - 8.5 Ping
 - 8.6 Debug

Domain 9.0: WAN Connectivity and Bridging

- 9.1 ISDN
 - 9.2 X.25
 - 9.3 Frame Relay
 - 9.4 Transparent Bridging
 - 9.5 Source Route Bridging

Review and Test Prep