

ICND1 - Interconnecting Cisco Network Devices 1

1. Building a Simple Network

- ✎✎ Exploring the Functions of Networking
- ✎✎ Securing the Network
- ✎✎ Host-to-Host Communication Model
- ✎✎ TCP/IP's Internet Layer
- ✎✎ TCP/IP's Transport Layer
- ✎✎ Packet Delivery Process
- ✎✎ Understanding Ethernet
- ✎✎ Connecting to an Ethernet LAN

2. Ethernet LANs

- ✎✎ Challenges of Shared LANs
- ✎✎ Solving Network Challenges with Switched LAN Technology
- ✎✎ Packet Delivery Process
- ✎✎ Operating Cisco IOS Software
- ✎✎ Starting the Switch
- ✎✎ Understanding Switch Security
- ✎✎ Maximizing the Benefits of Switching
- ✎✎ Troubleshooting Switch Issues

3. Wireless Local Area Networks (WLANs)

- ✎✎ Exploring Wireless Networking
- ✎✎ Understanding WLAN Security
- ✎✎ Implementing a WLAN

4. LAN Connections

- ✎✎ Functions of Routing
- ✎✎ Understanding Binary Basics
- ✎✎ Constructing a Network Addressing Scheme
- ✎✎ Starting a Router
- ✎✎ Configuring a Router
- ✎✎ Packet Delivery Process
- ✎✎ Understanding Router Security
- ✎✎ Using Cisco Router and Security Device Manager
- ✎✎ Using a Router as a DHCP Server
- ✎✎ Accessing Remote Devices

5. Wide Area Networks (WANs)

- ☞☞ WAN Technologies
- ☞☞ Enabling the Internet Connection
- ☞☞ Enabling Static Routing
- ☞☞ Configuring Serial Encapsulation
- ☞☞ Enabling Routing Information Protocol (RIP)

6. Network Environment Management

- ☞☞ Discovering Neighbors on the Network
- ☞☞ Managing Router Startup and Configuration
- ☞☞ Managing Cisco Devices