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### 

### Networking Basics

#### Networking Overview

#### Network Topologies

#### The OSI Model

#### Network Protocols

#### Numbering Systems

### Cables and Connectors

#### Twisted Pair

#### Coaxial

#### Fiber Optic

#### Wiring Implementation

#### Troubleshoot Network Media

### Networking Devices

#### Network Adapters

#### Network Devices

#### Internetwork Devices

### Ethernet

#### Architecture

#### Ethernet Specifications

#### Connect Network Devices

#### Troubleshoot Physical Connectivity

### IP Configuration

#### IP Addressing

#### APIPA and Alternate Addressing

#### DHCP Server Configuration

#### DHCP Relay

#### DNS Name Resolution

#### IP Version 6

#### Multicast

#### Troubleshoot IP Configuration Issues

#### Troubleshoot IP Communications

### Switch Management

#### Switch Access

#### Switch IP Configuration

#### Switch Interface Configuration

#### Virtual LANs

#### Trunking

#### Spanning Tree Protocol

#### Switch Troubleshooting

### Routing

#### Routing Basics

#### Routing Protocols

#### Network Address Translation

#### Routing Troubleshooting

### Firewalls

#### Security Appliances

#### Design and Implementation

### Network Customization

#### Network Based Storage

#### Storage Area Networks (SANs)

#### iSCSI SAN

#### Network Area Storage (NAS)

#### VOiP

#### Virtualization

#### Virtual Networking

#### Cloud Computing

### Wireless Networking

#### Architecture/Infrastructure

#### Wireless Standards

* + 802.11a
    - 5GHz
    - 54Mbps
    - 100ft
    - 23 Channels
  + 802.11b
    - 2.4GHz
    - 11Mbps
    - 150ft
    - 11 channels
  + 802.11g
    - 2.4GHz
    - 54Mbps
    - 150ft
    - 11 Channels
  + 802.11n
    - 2.4GHz or 5GHz
    - 600Mbps
    - 300ft
    - Channels
      * 2.4GHz - 11
      * 5GHz - 23
  + 802.11ac
    - 5GHz
    - 1.3Gbps
    - 150ft

#### Wireless Configuration

#### Wireless Network Design

#### Wireless Security

#### Wireless Troubleshooting

### Wide Area Networks (WANs)

#### Concepts

#### WAN Connections

#### Internet Connectivity

#### Remote Access

#### WAN Troubleshooting