Network+ CertMaster Learn
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  - 10.6.1 Authentication
  - 10.6.2 Public Key Infrastructure
  - 10.6.3 Authorization and Account Management
  - 10.6.4 Switch Port Security
- 10.7 Module Quiz

11.0 Supporting Network Security Design

- 11.1 Zone-based Security
  - 11.1.1 Network Security Zones
  - 11.1.2 Configuring a Screened Subnet
  - 11.1.3 Perimeter Networks
  - 11.1.4 Screened Subnets
  - 11.1.5 Lab: Configure a Screened Subnet (DMZ)
  - 11.1.6 Lab: Configure Screened Subnets
  - 11.1.7 Intrusion Detection and Prevention Systems
  - 11.1.8 Implementing Intrusion Detection and Prevention
  - 11.1.9 Lab: Implement Intrusion Prevention
  - 11.1.10 Lesson Review
- 11.2 Internet of Things
  - 11.2.1 IoT Devices
  - 11.2.2 Industrial Embedded Systems
  - 11.2.3 IoT Networks
  - 11.2.4 IoT Network Security
  - 11.2.5 Lab: Scan for IoT Devices
  - 11.2.6 Lesson Review
- 11.3 Physical Security
  - 11.3.1 Locks
  - 11.3.2 Cameras
  - 11.3.3 Geofencing
  - 11.3.4 Lab: Implement Physical Security
  - 11.3.5 Lesson Review
- 11.4 Additional Resources
  - 11.4.1 Zones and Perimeter Networks
  - 11.4.2 Embedded Systems and Zero Trust
- 11.5 Module Quiz

12.0 Configuring Wireless Networks

- 12.1 Wireless Concepts and Standards
  - 12.1.1 IEEE 802.11 Wireless Standards
  - 12.1.2 IEEE 802.11a and 5GHz Channel Bandwidth
  - 12.1.3 IEEE 802.11b/g and 2.4GHz Channel Bandwidth
  - 12.1.4 IEEE 802.11n, MIMO, and Channel Bonding
  - 12.1.5 Wi-Fi 5 and Wi-Fi 6
  - 12.1.6 Multiuser MIMO and Band Steering
  - 12.1.7 Cellular Technologies
  - 12.1.8 Satellite Technologies
  - 12.1.9 Lab: Configure Wireless Profiles
  - 12.1.10 Lesson Review
- 12.2 Enterprise Wireless Network Design
  - 12.2.1 Infrastructure Network Type
  - 12.2.2 Range and Signal Strength
  - 12.2.3 Wireless Surveys and Heat Maps
  - 12.2.4 Wireless Roaming
  - 12.2.5 Wireless Controllers
  - 12.2.6 Antenna Types
  - 12.2.7 Other Wireless Network Types
  - 12.2.8 Lab: Design an Indoor Wireless Network
  - 12.2.9 Lab: Design an Outdoor Wireless Network
  - 12.2.10 Lab: Implement an Enterprise Wireless Network
  - 12.2.11 Lesson Review
- 12.3 Wireless Security
  - 12.3.1 Wi-Fi Encryption Standards
  - 12.3.2 Personal Authentication
  - 12.3.3 Enterprise Authentication
  - 12.3.4 Guest Networks and Captive Portals
  - 12.3.5 Bring Your Own Device Issues
  - 12.3.6 Wireless Network Attacks
  - 12.3.7 Lab: Configure a Captive Portal
  - 12.3.8 Lab: Create a Guest Network for BYOD
  - 12.3.9 Lab: Secure an Enterprise Wireless Network
  - 12.3.10 Lab: Secure a Home Wireless Network
  - 12.3.11 Lab: Enable Wireless Intrusion Prevention
  - 12.3.12 Lesson Review

- 12.4 Wireless Troubleshooting
  - 12.4.1 Wireless Performance Assessment
  - 12.4.2 Insufficient Wireless Coverage Issues
  - 12.4.3 Channel Overlap Issues
  - 12.4.4 Interference Issues
  - 12.4.5 Roaming and Client Disassociation Issues
  - 12.4.6 Overcapacity Issues
  - 12.4.7 Lab: Explore Wireless Network Problems
  - 12.4.8 Lab: Troubleshoot Wireless Network Problems
  - 12.4.9 Lab: Optimize a Wireless Network
  - 12.4.10 Lesson Review
- 12.5 Additional Resources
  - 12.5.1 Enterprise Wireless Network Design
  - 12.5.2 Wireless Standards and Security
  - 12.5.3 Wireless Troubleshooting
- 12.6 Module Quiz
- 12.7 Checkpoint Review

13.0 Comparing Remote Access Methods

- 13.1 WAN and Internet Connectivity
  - 13.1.1 Wide Area Networks and the OSI Model
  - 13.1.2 Internet Access Types
  - 13.1.3 Fiber to the Curb and Fiber to the Premises
  - 13.1.4 Lesson Review
- 13.2 Virtual Private Networks
  - 13.2.1 Remote Access Considerations
  - 13.2.2 Tunneling Protocols
  - 13.2.3 Internet Protocol Security
  - 13.2.4 Internet Key Exchange
  - 13.2.5 Client-to-Site VPNs
  - 13.2.6 Clientless VPNs
  - 13.2.7 Site-to-Site VPNs
  - 13.2.8 Lab: Configure a Remote Access VPN
  - 13.2.9 Lab: Configure an iPad VPN Connection
  - 13.2.10 Lab: Configure a RADIUS Solution
  - 13.2.11 Lesson Review
- 13.3 Remote Management
  - 13.3.1 Remote Host Access
  - 13.3.2 Secure Shell
  - 13.3.3 Telnet
  - 13.3.4 Remote Desktop Protocol
  - 13.3.5 Console Connections and Out-of-Bound Management
  - 13.3.6 Jump Boxes
  - 13.3.7 API Connection Methods
  - 13.3.8 Lab: Allow Remote Desktop Connections
  - 13.3.9 Lab: Use PowerShell Remote
  - 13.3.10 Lesson Review
- 13.4 Additional Resources
  - 13.4.1 Network Types: LANs, WLANs, and WANs
  - 13.4.2 Internet Connection Types
  - 13.4.3 VPNs
  - 13.4.4 Remote Access
- 13.5 Module Quiz

14.0 Summarizing Cloud Concepts

- 14.1 Datacenter and Storage Networks
  - 14.1.1 Data Center Network Design
  - 14.1.2 Spine and Leaf Topology
  - 14.1.3 Storage Area Networks
  - 14.1.4 Fibre Channel
  - 14.1.5 Lab: Configure an iSCSI Target
  - 14.1.6 Lab: Configure an iSCSI Initiator
  - 14.1.7 Lesson Review
- 14.2 Cloud Concepts
  - 14.2.1 Cloud Scalability and Elasticity
  - 14.2.2 Cloud Deployment Models
  - 14.2.3 Cloud Service Models
  - 14.2.4 Content Delivery Networks
  - 14.2.5 Lesson Review
- 14.3 Cloud Networking
  - 14.3.1 Cloud Instances
  - 14.3.2 Virtual Private Clouds
  - 14.3.3 Cloud Gateways
  - 14.3.4 Cloud Connectivity Options
  - 14.3.5 Cloud Firewall Security
  - 14.3.6 Security Groups and Security Lists
  - 14.3.7 Lesson Review
- 14.4 Modern Network Environments
  - 14.4.1 Infrastructure as Code
  - 14.4.2 Uses for Infrastructure as Code
  - 14.4.3 Source Control
  - 14.4.4 Software-Defined Networking
  - 14.4.5 Software-Defined WAN
  - 14.4.6 Overlay Networks
  - 14.4.7 Zero Trust Architecture
  - 14.4.8 Secure Access Service Edge
  - 14.4.9 Lesson Review
- 14.5 Additional Resources
  - 14.5.1 Datacenter and Storage Networks
  - 14.5.2 Cloud Concepts and Networks

    - 14.5.3 Modern Network Environments
- 14.6 Module Quiz

A.0 Network Sandbox

- A.1 Network Sandbox Lab

B.0 Prepare for CompTIA Network+ Certification

- B.1 Prepare for CompTIA Network+ Certification
  - B.1.1 Why Should I Take a Certification Exam?
  - B.1.2 Exam Details for CompTIA Network+ N10-009
  - B.1.3 Exam Objectives for CompTIA Network+ N10-009
  - B.1.4 Course Mapping with CompTIA Network+ N10-009 Exam Objectives
  - B.1.5 How to Take the Certification Exam
  - B.1.6 Tips for Taking the Certification Exam
- B.2 CompTIA Network+ N10-009 Practice Materials
  - B.2.1 Exam Practice 1: Networking Concepts
  - B.2.2 Exam Practice 2: Network Implementations
  - B.2.3 Exam Practice 3: Network Operations
  - B.2.4 Exam Practice 4: Network Security
  - B.2.5 Exam Practice 5: Network Troubleshooting
  - B.2.6 Skills Practice: Competency in Networking
  - B.2.7 Practice Test: CompTIA Network+ N10-009