Cisco Certified Support Technician Networking

The successful candidate has the foundational knowledge and skills necessary to demonstrate how networks operate, including the devices, media, and protocols that enable network communication. This test will be an entry point into the Cisco certification program. The next certification in the pathway is CCNA.

This is a certification for entry-level network technicians, networking students, interns, etc. The exam targets secondary and immediate post-secondary students, and entry-level IT and Networking professionals. The successful candidates are qualified entry-level network technicians and customer support technicians, students, and interns with at least 150 hours of instruction and hands-on experience.

Objectives

1. Standards and Concepts
   - 1.1. Identify the fundamental conceptual building blocks of networks.
     - TCP/IP model, OSI model, frames and packets, addressing
   - 1.2. Differentiate between bandwidth and throughput.
     - Latency, delay, speed test vs. Iperf
   - 1.3. Differentiate between LAN, WAN, MAN, CAN, PAN, and WLAN.
     - Identify and illustrate common physical and logical network topologies.
   - 1.4. Compare and contrast cloud and on-premises applications and services.
     - Public, private, hybrid, SaaS, PaaS, IaaS, remote work/hybrid work
   - 1.5. Describe common network applications and protocols.
     - TCP vs. UDP (connection-oriented vs. connectionless), FTP, SFTP, TFTP, HTTP, HTTPS, DHCP, DNS, ICMP, NTP
2. Addressing and Subnet Formats
   - 2.1. Compare and contrast private addresses and public addresses.
     - Address classes, NAT concepts
   - 2.2. Identify IPv4 addresses and subnet formats.
     - Subnet concepts, Subnet Calculator, slash notation, and subnet mask; broadcast domain
   - 2.3. Identify IPv6 addresses and prefix formats.
     - Types of addresses, prefix concepts
3. Endpoints and Media Types
   - 3.1. Identify cables and connectors commonly used in local area networks.
     - Cable types: fiber, copper, twisted pair; Connector types: coax, RJ-45, RJ-11, fiber connector types
   - 3.2. Differentiate between Wi-Fi, cellular, and wired network technologies.

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Shasha Hu

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Table of Contents Networking Objective Free Download

1. Understanding the eBook Networking Objective Free Download
    - The Rise of Digital Reading Networking Objective Free Download
    - Advantages of eBooks Over Traditional Books
2. Identifying Networking Objective Free Download
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Networking Objective Free Download
    - User-Friendly Interface
4. Exploring eBook Recommendations from Networking Objective Free Download
    - Personalized Recommendations
    - Networking Objective Free Download User Reviews and Ratings
    - Networking Objective Free Download and Bestseller Lists

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7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Networking Objective Free Download
    - Highlighting and Note-Taking Networking Objective Free Download
    - Interactive Elements Networking Objective Free Download
8. Staying Engaged with Networking Objective Free Download
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Networking Objective Free Download
9. Balancing eBooks and Physical Books Networking Objective Free Download
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Networking Objective Free Download
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Networking Objective Free Download
    - Setting Reading Goals Networking Objective Free Download
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Networking Objective Free Download
    - Fact-Checking eBook Content of Networking Objective Free Download
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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