## **COMPTIA N10-008**

**CompTIA Network+ Certification Questions & Answers** 

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N10-008

**CompTIA Certified Network+** 

90 Questions Exam - 720 / 900 Cut Score - Duration of 90 minutes













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#### Discover More about the N10-008 Certification

Are you interested in passing the CompTIA N10-008 exam? First discover, who benefits from the N10-008 certification. The N10-008 is suitable for a candidate if he wants to learn about Core. Passing the N10-008 exam earns you the CompTIA Certified Network+ title.

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### CompTIA N10-008 Network+ Certification Details:

Exam Name	CompTIA Cortified Notworks
Exam Name	CompTIA Certified Network+
Exam Code	N10-008
Exam Price	\$358 (USD)
Duration	90 mins
Number of Questions	90
Passing Score	720 / 900
Books / Training	<u>eLearning</u>
	Virtual Lab
	Study Guides
	Instructor-Led Training
Schedule Exam	CompTIA Marketplace
	Pearson VUE
Sample Questions	CompTIA Network+ Sample Questions
Practice Exam	CompTIA N10-008 Certification Practice Exam



## N10-008 Syllabus:

Topic	Details
	Networking Fundamentals - 24%
Compare and contrast the Open Systems Interconnection (OSI) model layers and encapsulation concepts.	<ul> <li>OSI model</li> <li>Layer 1 – Physical</li> <li>Layer 2 – Data link</li> <li>Layer 3 – Network</li> <li>Layer 4 – Transport</li> <li>Layer 5 – Session</li> <li>Layer 6 – Presentation</li> <li>Layer 7 – Application</li> <li>Data encapsulation and decapsulation within the OSI model context</li> <li>Ethernet header</li> <li>Internet Protocol (IP) header</li> <li>Transmission Control Protocol (TCP)/User Datagram Protocol (UDP) headers</li> <li>TCP flags</li> <li>Payload</li> <li>Maximum transmission unit (MTU)</li> </ul>
Explain the characteristics of network topologies and network types.	<ul> <li>Mesh</li> <li>Star/hub-and-spoke</li> <li>Bus</li> <li>Ring</li> <li>Hybrid</li> <li>Network types and characteristics</li> <li>Peer-to-peer</li> <li>Client-server</li> <li>Local area network (LAN)</li> <li>Metropolitan area network (MAN)</li> </ul>



Topic	Details
	Wide area network (WAN)
	<ul> <li>Wireless local area network (WLAN)</li> </ul>
	<ul> <li>Personal area network (PAN)</li> </ul>
	<ul> <li>Campus area network (CAN)</li> </ul>
	<ul> <li>Storage area network (SAN)</li> </ul>
	<ul> <li>Software-defined wide area network (SDWAN)</li> </ul>
	<ul> <li>Multiprotocol label switching (MPLS)</li> </ul>
	<ul> <li>Multipoint generic routing encapsulation (mGRE)</li> </ul>
	- Service-related entry point
	Demarcation point
	<ul> <li>Smartjack</li> </ul>
	- Virtual network concepts
	<ul> <li>vSwitch</li> </ul>
	<ul> <li>Virtual network interface card (vNIC)</li> </ul>
	<ul> <li>Network function virtualization (NFV)</li> </ul>
	<ul> <li>Hypervisor</li> </ul>
	- Provider links
	Satellite
	<ul> <li>Digital subscriber line (DSL)</li> </ul>
	Cable
	Leased line
	Metro-optical
	- Copper
Summarize the types of cables and connectors and explain which is the appropriate type for a solution.	<ul> <li>Twisted pair</li> <li>1. Cat 5</li> <li>2. Cat 5e</li> <li>3. Cat 6</li> <li>4. Cat 6a</li> <li>5. Cat 7</li> <li>6. Cat 8</li> <li>Coaxial/RG-6</li> </ul>



Topic	Details
	Twinaxial
	<ul><li>Termination standards</li><li>1. TIA/EIA-568A</li><li>2. TIA/EIA-568B</li></ul>
	- Fiber
	Single-mode
	<ul> <li>Multimode</li> </ul>
	- Connector types
	<ul> <li>Local connector (LC), straight tip (ST), subscriber connector (SC), mechanical transfer (MT), registered jack (RJ)  1. Angled physical contact (APC)  2. Ultra-physical contact (UPC)</li> <li>RJ11</li> <li>RJ45</li> <li>F-type connector</li> <li>Transceivers/media converters</li> <li>Transceiver type  1. Small form-factor pluggable (SFP)  2. Enhanced form-factor pluggable (SFP+)  3. Quad small form-factor pluggable (QSFP)  4. Enhanced quad small form-factor pluggable (QSFP+)</li> </ul>
	- Cable management
	<ul> <li>Patch panel/patch bay</li> <li>Fiber distribution panel</li> <li>Punchdown block         <ol> <li>66</li> <li>110</li> <li>Krone</li> <li>Bix</li> </ol> </li> <li>Ethernet standards</li> </ul>



Торіс	Details
	<ul> <li>Copper 1. 10BASE-T 2. 100BASE-TX 3. 1000BASE-T 4. 10GBASE-T 5. 40GBASE-T</li> <li>Fiber 1. 100BASE-FX 2. 100BASE-SX 3. 1000BASE-SX 4. 1000BASE-SX 6. 10GBASE-LX 5. 10GBASE-LR 7. Coarse wavelength division multiplexing (CWDM) 8. Dense wavelength division multiplexing (DWDM) 9. Bidirectional wavelength division multiplexing (WDM)</li> </ul>
Given a scenario, configure a subnet and use appropriate IP addressing schemes.	<ul> <li>Public vs. private</li> <li>RFC1918</li> <li>Network address translation (NAT)</li> <li>Port address translation (PAT)</li> <li>IPv4 vs. IPv6</li> <li>Automatic Private IP Addressing (APIPA)</li> </ul>



Topic	Details
•	<ul> <li>Classless (variable-length subnet mask)</li> <li>Classful         <ol> <li>A</li> <li>B</li> <li>C</li> <li>D</li> <li>E</li> <li>Classless Inter-Domain Routing (CIDR) notation</li> </ol> </li> <li>IPv6 concepts <ul> <li>Tunneling</li> <li>Dual stack</li> <li>Shorthand notation</li> <li>Router advertisement</li> <li>Stateless address autoconfiguration (SLAAC)</li> </ul> </li> <li>Virtual IP (VIP)</li> </ul>
	- Subinterfaces  - Protocol sand Ports
Explain common ports and protocols, their application, and encrypted alternatives.	<ul> <li>File Transfer Protocol (FTP) 20/21</li> <li>Secure Shell (SSH) 22</li> <li>Secure File Transfer Protocol (SFTP) 22</li> <li>Telnet 23</li> <li>Simple Mail Transfer Protocol (SMTP) 25</li> <li>Domain Name System (DNS) 53</li> <li>Dynamic Host Configuration Protocol (DHCP) 67/68</li> <li>Trivial File Transfer Protocol (TFTP) 69</li> <li>Hypertext Transfer Protocol (HTTP) 80</li> <li>Post Office Protocol v3 (POP3) 110</li> <li>Network Time Protocol (NTP) 123</li> <li>Internet Message Access Protocol (IMAP) 143</li> <li>Simple Network Management Protocol (SNMP) 161/162</li> </ul>



Topic	Details
	Lightweight Directory Access Protocol (LDAP) 389
	<ul> <li>Hypertext Transfer Protocol Secure (HTTPS) [Secure Sockets Layer (SSL)] 443</li> </ul>
	HTTPS [Transport Layer Security (TLS)] 443
	Server Message Block (SMB) 445
	Syslog 514
	SMTP TLS 587
	<ul> <li>Lightweight Directory Access Protocol (over SSL) (LDAPS) 636</li> </ul>
	IMAP over SSL 993
	POP3 over SSL 995
	<ul> <li>Structured Query Language (SQL) Server 1433</li> </ul>
	• SQLnet 1521
	MySQL 3306
	Remote Desktop Protocol (RDP) 3389
	Session Initiation Protocol (SIP) 5060/5061
	IP protocol types     1. Internet Control Message Protocol (ICMP)     2. TCP     3. UDP     4. Generic Routing Encapsulation (GRE)     5. Internet Protocol Security (IPSec)     - Authentication Header (AH)/Encapsulating Security Payload (ESP)
	- Connectionless vs. connection-oriented
	- DHCP
	• Scope
Explain the use and	Exclusion ranges  Description
purpose of network	Reservation  Dynamic assignment
services.	Dynamic assignment     Static assignment
	Static assignment     Lease time
	Lease time     Saga antique
	Scope options



Topic	Details
	Available leases
	DHCP relay
	IP helper/UDP forwarding
	- DNS
	<ul> <li>Record types</li> <li>1. Address (A vs. AAAA)</li> <li>2. Canonical name (CNAME)</li> <li>3. Mail exchange (MX)</li> <li>4. Start of authority (SOA)</li> <li>5. Pointer (PTR)</li> <li>6. Text (TXT)</li> <li>7. Service (SRV)</li> </ul>
	<ul><li>8. Name server (NS)</li><li>Global hierarchy</li><li>1. Root DNS servers</li></ul>
	Internal vs. external
	Zone transfers
	Authoritative name servers
	Time to live (TTL)
	DNS caching
	Reverse DNS/reverse lookup/forward lookup
	Recursive lookup/iterative lookup
	- NTP
	<ul><li>Stratum</li><li>Clients</li><li>Servers</li></ul>
	- Three-tiered
Explain basic corporate and datacenter network architecture.	<ul> <li>Core</li> <li>Distribution/aggregation layer</li> <li>Access/edge</li> <li>Software-defined networking</li> </ul>



Topic	Details
	<ul> <li>Application layer</li> <li>Control layer</li> <li>Infrastructure layer</li> <li>Management plane</li> <li>Spine and leaf</li> </ul>
	<ul> <li>Software-defined network</li> <li>Top-of-rack switching</li> <li>Backbone</li> <li>Traffic flows</li> </ul>
	<ul> <li>North-South</li> <li>East-West</li> <li>Branch office vs. on-premises datacenter vs. colocation</li> <li>Storage area networks</li> </ul>
	<ul> <li>Connection types</li> <li>1. Fibre Channel over Ethernet (FCoE)</li> <li>2. Fibre Channel</li> <li>3. Internet Small Computer Systems Interface (iSCSI)</li> </ul>
Summarize cloud concepts and connectivity options.	<ul> <li>Deployment models</li> <li>Public</li> <li>Private</li> <li>Hybrid</li> <li>Community</li> <li>Service models</li> <li>Software as a service (SaaS)</li> <li>Infrastructure as a service (IaaS)</li> <li>Platform as a service (PaaS)</li> <li>Desktop as a service (DaaS)</li> <li>Infrastructure as code</li> </ul>



Topic	Details
	<ul> <li>Automation/orchestration</li> </ul>
	- Connectivity options
	Virtual private petwork (V/PNI)
	<ul><li>Virtual private network (VPN)</li><li>Private-direct connection to cloud provider</li></ul>
	•
	- Multitenancy - Elasticity
	- Scalability
	- Security implications
	Network Implementations - 19%
	- Networking devices
	Layer 2 switch
	Layer 3 capable switch
	Router
	• Hub
	Access point
	Bridge
	Wireless LAN controller
Compare and contrast	Load balancer
various devices, their	Proxy server
features, and their	Cable modem
appropriate placement	DSL modem
on the network.	Repeater
	Voice gateway
	Media converter
	<ul> <li>Intrusion prevention system (IPS)/intrusion</li> </ul>
	detection system (IDS) device
	Firewall
	VPN headend
	- Networked devices
	Voice over Internet Protocol (VoIP) phone



Topic	Details
	Printer
	<ul> <li>Physical access control devices</li> </ul>
	Cameras
	<ul> <li>Heating, ventilation, and air conditioning (HVAC) sensors</li> </ul>
	<ul> <li>Internet of Things (IoT)</li> <li>1. Refrigerator</li> <li>2. Smart speakers</li> <li>3. Smart thermostats</li> <li>4. Smart doorbells</li> </ul>
	<ul> <li>Industrial control systems/supervisory control and data acquisition (SCADA)</li> </ul>
	- Routing
Compare and contrast routing technologies and bandwidth management concepts.	<ul> <li>Dynamic routing <ol> <li>Protocols [Routing Internet Protocol (RIP), Open Shortest Path First (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP), Border Gateway Protocol (BGP)]</li> <li>Link state vs. distance vector vs. hybrid</li> <li>Static routing</li> <li>Default route</li> <li>Administrative distance</li> <li>Exterior vs. interior</li> <li>Time to live</li> </ol> </li> <li>Bandwidth management</li> <li>Traffic shaping</li> <li>Quality of service (QoS)</li> </ul>
Given a scenario, configure and deploy common Ethernet switching features.	<ul> <li>Data virtual local area network (VLAN)</li> <li>Voice VLAN</li> <li>Port configurations</li> <li>Port tagging/802.1Q</li> <li>Port aggregation</li> </ul>



Topic	Details
	Duplex
	Speed
	Flow control
	Port mirroring
	Port security
	Jumbo frames
	Auto-medium-dependent interface crossover (MDI-X)
	- Media access control (MAC) address tables - Power over Ethernet (PoE)/Power over Ethernet plus (PoE+) - Spanning Tree Protocol - Carrier-sense multiple access with collision detection (CSMA/CD)
	- Address Resolution Protocol (ARP) - Neighbor Discovery Protocol
	- 802.11 standards
	• a
	• b
	• g
	• n (WiFi 4)
Given a scenario,	• ac (WiFi 5)
install and configure	ax (WiFi 6)
the appropriate wireless standards and technologies.	- Frequencies and range
	• 2.4GHz
	• 5GHz
	- Channels
	Regulatory impacts
	- Channel bonding
	- Service set identifier (SSID)
	Basic service set



Topic	Details
	Extended service set
	<ul> <li>Independent basic service set (Ad-hoc)</li> </ul>
	Roaming
	- Antenna types
	• Omni
	Directional
	- Encryption standards
	<ul> <li>WiFi Protected Access (WPA)/WPA2 Personal [Advanced Encryption Standard (AES)/Temporal Key Integrity Protocol (TKIP)]</li> <li>WPA/WPA2 Enterprise (AES/TKIP)</li> </ul>
	- Cellular technologies
	<ul> <li>Code-division multiple access (CDMA)</li> <li>Global System for Mobile Communications (GSM)</li> <li>Long-Term Evolution (LTE)</li> <li>3G, 4G, 5G</li> <li>Multiple input, multiple output (MIMO) and multi-user MIMO (MU-MIMO)</li> </ul>
	Network Operations - 16%
	- Performance metrics/sensors
Given a scenario, use the appropriate statistics and sensors to ensure network availability.	<ul> <li>Device/chassis <ol> <li>Temperature</li> <li>Central processing unit (CPU) usage</li> <li>Memory</li> <li>Network metrics <ol> <li>Bandwidth</li> <li>Latency</li> <li>Jitter</li> </ol> </li> </ol></li></ul>



Торіс	Details
	<ul> <li>Traps</li> <li>Object identifiers (OIDs)</li> <li>Management information bases (MIBs)</li> <li>Network device logs</li> </ul>
	<ul> <li>Log reviews</li> <li>1. Traffic logs</li> <li>2. Audit logs</li> <li>3. Syslog</li> <li>Logging levels/severity levels</li> <li>Interface statistics/status</li> </ul>
	<ul> <li>Link state (up/down)</li> <li>Speed/duplex</li> <li>Send/receive traffic</li> <li>Cyclic redundancy checks (CRCs)</li> <li>Protocol packet and byte counts</li> <li>Interface errors or alerts</li> </ul>
	<ul> <li>CRC errors</li> <li>Giants</li> <li>Runts</li> <li>Encapsulation errors</li> <li>Environmental factors and sensors</li> </ul>
	<ul> <li>Temperature</li> <li>Humidity</li> <li>Electrical</li> <li>Flooding</li> </ul> Baselines
	<ul><li>NetFlow data</li><li>Uptime/downtime</li></ul>
Explain the purpose of organizational	- Plans and procedures



Topic	Details
documents and policies.	<ul> <li>Change management</li> <li>Incident response plan</li> <li>Disaster recovery plan</li> <li>Business continuity plan</li> <li>System life cycle</li> <li>Standard operating procedures</li> </ul>
	- Hardening and security policies
	<ul> <li>Password policy</li> <li>Acceptable use policy</li> <li>Bring your own device (BYOD) policy</li> <li>Remote access policy</li> <li>Onboarding and offboarding policy</li> <li>Security policy</li> <li>Data loss prevention</li> <li>Common documentation</li> </ul>
	<ul> <li>Physical network diagram</li> <li>1. Floor plan</li> <li>2. Rack diagram</li> <li>3. Intermediate distribution frame (IDF)/main distribution frame (MDF) documentation</li> <li>Logical network diagram</li> <li>Wiring diagram</li> <li>Site survey report</li> <li>Audit and assessment report</li> <li>Baseline configurations</li> <li>Common agreements</li> </ul>
	<ul> <li>Non-disclosure agreement (NDA)</li> <li>Service-level agreement (SLA)</li> <li>Memorandum of understanding (MOU)</li> </ul>



Topic	Details
	- Load balancing
	- Multipathing
	- Network interface card (NIC) teaming
	- Redundant hardware/clusters
	<ul><li>Switches</li><li>Routers</li><li>Firewalls</li><li>Facilities and infrastructure support</li></ul>
	Uninterruptible power supply (UPS)
	Power distribution units (PDUs)
	Generator
	• HVAC
Explain high	Fire suppression
availability and disaster recovery	- Redundancy and high availability (HA) concepts
concepts and	Cold site
summarize which is	Warm site
the best solution.	Hot site
	Cloud site
	Active-active vs. active-passive
	Multiple Internet service providers (ISPs)/diverse paths
	Virtual Router Redundancy Protocol
	(VRRP)/First Hop Redundancy Protocol (FHRP)
	Mean time to repair (MTTR)
	Mean time between failure (MTBF)
	Recovery time objective (RTO)
	Recovery point objective (RPO)
	- Network device backup/restore
	State
	<ul> <li>Configuration</li> </ul>



Topic	Details
	Network Security - 19%
Explain common security concepts.	Network Security - 19%  - Confidentiality, integrity, availability (CIA) - Threats  - Internal - External - Vulnerabilities  - Common vulnerabilities and exposures (CVE) - Zero-day - Exploits - Least privilege - Role-based access - Zero Trust - Defense in depth  - Network segmentation enforcement - Screened subnet [previously known as demilitarized zone (DMZ)] - Separation of duties - Network access control - Honeypot - Authentication methods
	<ul> <li>Multifactor</li> <li>Terminal Access Controller Access-Control System Plus (TACACS+)</li> </ul>
	<ul> <li>Single sign-on (SSO)</li> <li>Remote Authentication Dial-in User Service (RADIUS)</li> </ul>
	<ul><li>LDAP</li><li>Kerberos</li><li>Local authentication</li></ul>
	• 802.1X



Topic	Details
	Extensible Authentication Protocol (EAP)
	- Risk Management
	<ul> <li>Security risk assessments</li> <li>1. Threat assessment</li> <li>2. Vulnerability assessment</li> <li>3. Penetration testing</li> <li>4. Posture assessment</li> <li>Business risk assessments</li> <li>1. Process assessment</li> <li>2. Vendor assessment</li> </ul>
	- Security information and event management (SIEM)
Compare and contrast common types of attacks.	<ul> <li>Technology-based</li> <li>Denial-of-service (DoS)/distributed denial-of-service (DDoS) <ol> <li>Botnet/command and control</li> <li>On-path attack (previously known as man-in-the-middle attack)</li> <li>DNS poisoning</li> <li>VLAN hopping</li> <li>ARP spoofing</li> <li>Rogue DHCP</li> <li>Rogue access point (AP)</li> <li>Evil twin</li> <li>Ransomware</li> <li>Password attacks <ol> <li>Brute-force</li> <li>Dictionary</li> <li>MAC spoofing</li> <li>Deauthentication</li> <li>Malware</li> </ol> </li> </ol></li></ul>



Topic	Details
	Social engineering     1. Phishing     2. Tailgating     3. Piggybacking     4. Shoulder surfing  - Best practices
Given a scenario, apply network hardening techniques.	<ul> <li>Secure SNMP</li> <li>Router Advertisement (RA) Guard</li> <li>Port security</li> <li>Dynamic ARP inspection</li> <li>Control plane policing</li> <li>Private VLANs</li> <li>Disable unneeded switchports</li> <li>Disable unneeded network services</li> <li>Change default passwords</li> <li>Password complexity/length</li> <li>Enable DHCP snooping</li> <li>Change default VLAN</li> <li>Patch and firmware management</li> <li>Access control list</li> <li>Role-based access</li> <li>Firewall rules <ol> <li>Explicit deny</li> <li>Implicit deny</li> </ol> </li> <li>Wireless security</li> </ul>
	<ul> <li>MAC filtering</li> <li>Antenna placement</li> <li>Power levels</li> <li>Wireless client isolation</li> <li>Guest network isolation</li> <li>Preshared keys (PSKs)</li> <li>EAP</li> </ul>



Topic	Details
	Geofencing
	Captive portal
	- IoT access considerations
	- Site-to-site VPN
	- Client-to-site VPN
	Clientless VPN
Compare and contrast	Split tunnel vs. full tunnel
remote access	- Remote desktop connection
methods and security	- Remote desktop gateway
implications.	- SSH - Virtual network computing (VNC)
	- Virtual desktop
	- Authentication and authorization considerations
	- In-band vs. out-of-band management
	- Detection methods
	Camera
	Motion detection
	Asset tags
	Tamper detection
	- Prevention methods
Explain the importance	Employee training
of physical security.	Access control hardware
	Badge readers     Biometrics
	Locking racks
	Locking cabinets
	<ul> <li>Access control vestibule (previously known as a</li> </ul>
	mantrap)
	Smart lockers
	- Asset disposal



Торіс	Details
	Factory reset/wipe configuration
	Sanitize devices for disposal
	Network Troubleshooting - 22%
	- Identify the problem
	Gather information
	Question users
	<ul> <li>Identify symptoms</li> </ul>
	<ul> <li>Determine if anything has changed</li> </ul>
	<ul> <li>Duplicate the problem, if possible</li> </ul>
	<ul> <li>Approach multiple problems individually</li> </ul>
	- Establish a theory of probable cause
	Question the obvious
Explain the network	<ul> <li>Consider multiple approaches</li> </ul>
Explain the network troubleshooting	<ol> <li>Top-to-bottom/bottom-to-top OSI model</li> <li>Divide and conquer</li> </ol>
methodology.	- Test the theory to determine the cause
	If the theory is confirmed, determine the next steps to resolve the problem
	<ul> <li>If the theory is not confirmed, reestablish a new theory or escalate</li> </ul>
	- Establish a plan of action to resolve the problem and identify potential effects
	- Implement the solution or escalate as necessary
	<ul> <li>Verify full system functionality and, if applicable, implement preventive measures</li> </ul>
	- Document findings, actions, outcomes, and lessons learned
Given a scenario,	- Specifications and limitations
troubleshoot common	- Throughout
cable connectivity	<ul><li>Throughput</li><li>Speed</li></ul>
	• Opecu



Topic	Details
issues and select the	Distance
appropriate tools.	- Cable considerations
	Shielded and unshielded
	Plenum and riser-rated
	- Cable application
	Rollover cable/console cable
	Crossover cable
	Power over Ethernet
	- Common issues
	Attenuation
	Interference
	Decibel (dB) loss
	Incorrect pinout
	Bad ports
	Open/short
	Light-emitting diode (LED) status indicators
	Incorrect transceivers
	Duplexing issues
	Transmit and receive (TX/RX) reversed
	Dirty optical cables
	- Common tools
	Cable crimper
	Punchdown tool
	Tone generator
	Loopback adapter
	Optical time-domain reflectometer (OTDR)
	Multimeter
	Cable tester
	Wire map
	• Tap



Topic	Details
	Fusion splicers
	Spectrum analyzers
	Snips/cutters
	Cable stripper
	Fiber light meter
	- Software tools
	WiFi analyzer
	Protocol analyzer/packet capture
	Bandwidth speed tester
	Port scanner
	• iperf
	NetFlow analyzers
	Trivial File Transfer Protocol (TFTP) server
	Terminal emulator
	IP scanner
	- Command line tool
Given a scenario, use	
the appropriate	• ping
network software tools	ipconfig/ifconfig/ip
and commands.	nslookup/dig
	traceroute/tracert
	• arp
	netstat
	hostname
	• route
	• telnet
	tcpdump
	• nmap
	- Basic network platform commands
	show interface
	show config



Topic	Details
	show route
Given a scenario, troubleshoot common wireless connectivity issues.	<ul> <li>Specifications and limitations</li> <li>Throughput</li> <li>Speed</li> <li>Distance</li> <li>Received signal strength indication (RSSI) signal strength</li> <li>Effective isotropic radiated power (EIRP)/power settings</li> <li>Considerations</li> <li>Antennas <ol> <li>Placement</li> <li>Type</li> <li>Polarization</li> <li>Channel utilization</li> <li>AP association time</li> <li>Site survey</li> </ol> </li> <li>Common issues</li> </ul>
	<ul> <li>Interference <ol> <li>Channel overlap</li> <li>Antenna cable attenuation/signal loss</li> <li>RF attenuation/signal loss</li> <li>Wrong SSID</li> <li>Incorrect passphrase</li> <li>Encryption protocol mismatch</li> <li>Insufficient wireless coverage</li> <li>Captive portal issues</li> <li>Client disassociation issues</li> </ol> </li></ul>
Given a scenario, troubleshoot general networking issues.	<ul><li>Considerations</li><li>Device configuration review</li><li>Routing tables</li></ul>



Торіс	Details
	Interface status
	VLAN assignment
	Network performance baselines
	- Common issues
	Collisions
	Broadcast storm
	Duplicate MAC address
	Duplicate IP address
	Multicast flooding
	Asymmetrical routing
	Switching loops
	Routing loops
	Rogue DHCP server
	DHCP scope exhaustion
	<ul> <li>IP setting issues</li> <li>Incorrect gateway</li> <li>Incorrect subnet mask</li> <li>Incorrect IP address</li> <li>Incorrect DNS</li> </ul>
	Missing route
	Low optical link budget
	Certificate issues
	Hardware failure
	<ul> <li>Host-based/network-based firewall settings</li> </ul>
	Blocked services, ports, or addresses
	Incorrect VLAN
	DNS issues
	NTP issues
	BYOD challenges
	Licensed feature issues
	<ul> <li>Network performance issues</li> </ul>



# Broaden Your Knowledge with CompTIA N10-008 Sample Questions:

#### Question: 1

You suspect that an intruder has gained access to your network. You want to see how many failed logon attempts were made in one day to help determine how the person got in. Which of the following might you do?

- a) Review the history logs.
- b) Review the security logs.
- c) Review the logon logs.
- d) Review the performance logs.

Answer: b

#### Question: 2

A client on your network has had no problems accessing the wireless network in the past, but recently she moved to a new office. Since the move, she cannot access the network. Which of the following is most likely the cause of the problem?

- a) The SSIDs on the client and the AP are different.
- b) The SSID has been erased.
- c) The client has incorrect broadcast settings.
- d) The client system has moved too far from the AP.

Answer: d

#### Question: 3

Because of a recent security breach, you have been asked to design a security strategy that will allow data to travel encrypted through both the Internet and intranet. Which of the following protocols would you use?

- a) IPSec
- b) SST
- c) CHAP
- d) FTP

Answer: a



#### Question: 4

In an Ethernet network, what technology is being implemented when a system wants to send data to another system and first checks to see whether the network medium is free?

- a) QoS
- b) MDI-X
- c) Jumbo frames
- d) CSMA/CD

Answer: d

#### Question: 5

TCP is an example of what kind of transport protocol?

- a) Connection oriented
- b) Connection reliant
- c) Connection dependent
- d) Connectionless

Answer: a

#### Question: 6

One of the programmers has asked that DHCP always issue his workstation the same IP address. What feature of DHCP enables you to accomplish this?

- a) Stipulation
- b) Rider
- c) Reservation
- d) Provision

Answer: c

#### Question: 7

What are two features supported in SNMPv3 and not previous versions?

- a) Authentication
- b) Dynamic mapping
- c) Platform independence
- d) Encryption

Answer: a, d



#### Question: 8

During a discussion with your ISP's technical support representative, she mentions that you might have been using the wrong FQDN. Which TCP/IP-based network service is she referring to?

- a) DHCP
- b) WINS
- c) SNMP
- d) DNS

Answer: d

#### Question: 9

When a WAN is confined to a certain geographic area, such as a city, it is known as a.

- a) LAN
- b) MAN
- c) VAN
- d) VPN

Answer: b

#### Question: 10

Logical unit numbers (LUNs) came from the SCSI world and use "targets" that hold up to how many devices?

- a) 4
- b) 6
- c) 8
- d) 128

Answer: c



## Avail the Study Guide to Pass CompTIA N10-008 Network+ Exam:

- Find out about the N10-008 syllabus topics. Visiting the official site offers an idea about the exam structure and other important study resources. Going through the syllabus topics help to plan the exam in an organized manner.
- Once you are done exploring the <u>N10-008 syllabus</u>, it is time to plan for studying and covering the syllabus topics from the core. Chalk out the best plan for yourself to cover each part of the syllabus in a hassle-free manner.
- A study schedule helps you to stay calm throughout your exam preparation.
  It should contain your materials and thoughts like study hours, number of
  topics for daily studying mentioned on it. The best bet to clear the exam is
  to follow your schedule rigorously.
- The candidate should not miss out on the scope to learn from the N10-008 training. Joining the CompTIA provided training for N10-008 exam helps a candidate to strengthen his practical knowledge base from the certification.
- Learning about the probable questions and gaining knowledge regarding the exam structure helps a lot. Go through the <u>N10-008 sample questions</u> and boost your knowledge
- Make yourself a pro through online practicing the syllabus topics. N10-008
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