

CompTIA N10-009 Certification Questions and Answers PDF

CompTIA Network+ CERTIFICATION QUESTIONS & ANSWERS

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Getting Ready for the N10-009 Exam:

Use proven study tips and techniques to prepare for the N10-009 exam confidently. Boost your readiness, improve your understanding regarding the Core, and increase your chances of success in the CompTIA Network+ with our comprehensive guide. Start your journey towards exam excellence today.

CompTIA Network+ Certification Details:

Exam Name	CompTIA Network+
Exam Code	N10-009
Exam Price	\$369 (USD)
Duration	90 mins
Number of Questions	90
Passing Score	720 / 900
Books / Training	CertMaster Perform Network+
	CertMaster Learn Network+
	CertMaster Practice for Network+ Training
	CompTIA Instructor-Led Training
Schedule Exam	Pearson VUE
Sample Questions	CompTIA Network+ Sample Questions
Practice Exam	CompTIA N10-009 Certification Practice Exam

Explore N10-009 Syllabus:

Topic	Details
	Networking Concepts - 23%
Explain concepts related to the Open Systems Interconnection (OSI) reference model.	- Layer 1 - Physical - Layer 2 - Data link - Layer 3 - Network - Layer 4 - Transport - Layer 5 - Session - Layer 6 - Presentation - Layer 7 - Application
Compare and contrast networking appliances, applications, and functions.	 Physical and virtual appliances Router Switch Firewall Intrusion detection system (IDS)/intrusion prevention system (IPS) Load balancer Proxy Network-attached storage (NAS) Storage area network (SAN) Wireless - Access point (AP) - Controller



Topic	Details
-	- Applications
	Content delivery network (CDN)
	- Functions
	Virtual private network (VPN)
	Quality of service (QoS)
	Time to live (TTL)
	- Network functions virtualization (NFV)
	- Virtual private cloud (VPC)
	- Network security groups
	- Network security lists
	- Cloud gateways
	Internet gateway
	Network address translation (NAT) gateway
	- Cloud connectivity options
	VPN
	Direct Connect
Summarize cloud concepts	- Deployment models
and connectivity options.	• Public
	Private
	Hybrid
	- Service models
	Software as a service (SaaS)
	 Infrastructure as a service (laaS)
	Platform as a service (PaaS)
	- Scalability
	- Elasticity
	- Multitenancy
	- Protocols
	File Transfer Protocol (FTP)
	Secure File Transfer Protocol (SFTP)
	Secure Shell (SSH)
	• Telnet
	Simple Mail Transfer Protocol (SMTP)
	Domain Name System (DNS)
	 Dynamic Host Configuration Protocol (DHCP)
	T : : E : T C D . (TETD)
Explain common networking	` '
ports, protocols, services, and	Simple Network Management Protocol (SNMP) Linkture in the Director of Access Protocol (LDAD)
traffic types.	Lightweight Directory Access Protocol (LDAP)
	Hypertext Transfer Protocol Secure (HTTPS)
	Server Message Block (SMB)
	• Syslog
	Simple Mail Transfer Protocol Secure (SMTPS)
	Lightweight Directory Access Protocol over SSL (LDAPS)
	Structured Query Language (SQL) Server
	Remote Desktop Protocol (RDP)
	Session Initiation Protocol (SIP)
	- Ports
	• 20/21
	• 22



Topic	Details
	• 22
	• 23
	• 25
	• 53
	• 67/68
	• 69
	• 80
	• 123
	• 161/162
	• 389
	• 443
	• 445
	• 514
	• 587
	• 636
	• 1433
	• 3389
	• 5060/5061
	- Internet Protocol (IP) types
	Internet Control Message Protocol (ICMP)
	Transmission Control Protocol (TCP)
	User Datagram Protocol (UDP)
	Generic Routing Encapsulation (GRE)
	 Internet Protocol Security (IPSec)
	- Authentication Header (AH)
	- Encapsulating Security Payload (ESP)
	- Internet Key Exchange (IKE)
	Traffic types
	- Unicast
	- Multicast
	- Anycast
	- Broadcast
	- Wireless
	802.11 standards
	Cellular
	Satellite
	- Wired
	802.3 standards
	Single-mode vs. multimode fiber
	Direct attach copper (DAC) cable
Compare and contrast	- Twinaxial cable
transmission media and	Coaxial cable
transceivers.	Cable speeds
	Plenum vs. non-plenum cable
	- Transceivers
	• Protocol
	- Ethernet
	- Fibre Channel (FC)
	Form factors
	- Small form-factor pluggable (SFP)
	- Quad small form-factor pluggable (QSFP)



Topic	Details
-	- Connector types
	Subscriber connector (SC)
	Local connector (LC)
	Straight tip (ST)
	Multi-fiber push on (MPO)
	Registered jack (RJ)11
	RJ45
	F-type - Mesh
	- Hybrid Star/bub and snake
	- Star/hub and spoke
	- Spine and leaf
	- Point to point
Compare and contrast	- Three-tier hierarchical model
network topologies,	• Core
architectures, and types.	 Distribution
	• - Access
	- Collapsed core
	- Traffic flows
	 North-south
	East-west
	- Public vs. private
	 Automatic Private IP Addressing (APIPA)
	• RFC1918
	 Loopback/localhost
	- Subnetting
Given a scenario, use	 Variable Length Subnet Mask (VLSM)
appropriate IPv4 network	Classless Inter-domain Routing (CIDR)
addressing.	- IPv4 address classes
addi soomigi	• Class A
	• Class B
	• Class C
	• Class D
	• Class E
	- Software-defined network (SDN) and software-defined wide area
	· · ·
	network (SD-WAN)
	Application aware
	Zero-touch provisioning
	Transport agnostic
	Central policy management
	- Virtual Extensible Local Area Network (VXLAN)
Summarize evolving use	Data center interconnect (DCI)
cases for modern network	Layer 2 encapsulation
environments.	- Zero trust architecture (ZTA)
	 Policy-based authentication
	 Authorization
	 Least privilege access
	- Secure Access Secure Edge (SASE)/Security Service Edge (SSE)
	- Infrastructure as code (IaC)
	 Automation
	/ GCOTTGCTOTT



Topic	Details
	- Configuration drift/compliance
	- Upgrades
	- Dynamic inventories
	Source control
	- Version control
	- Central repository
	- Conflict identification
	- Branching
	- IPv6 addressing
	Mitigating address exhaustion
	Compatibility requirements
	- Tunneling
	- Dual stack
	- NAT64
	Network Implementation - 20%
	- Static routing
	- Dynamic routing
	 Border Gateway Protocol (BGP)
	 Enhanced Interior Gateway Routing Protocol (EIGRP)
	 Open Shortest Path First (OSPF)
	- Route selection
Explain characteristics of	Administrative distance
routing technologies.	Prefix length
louting teermologies.	Metric
	- Address translation
	• NAT
	Port address translation (PAT)
	- First Hop Redundancy Protocol (FHRP)
	- Virtual IP (VIP)
	- Subinterfaces
	- Virtual Local Area Network (VLAN)
	VLAN database (5)(1)
	Switch Virtual Interface (SVI)
	- Interface configuration
Civer a consula configura	Native VLAN Value VLAN
Given a scenario, configure	Voice VLAN PO3 10 tagging
switching technologies and features.	802.1Q tagging Link aggregation
leatures.	Link aggregation Speed
	SpeedDuplex
	- Spanning tree
	- Maximum transmission unit (MTU)
	Jumbo frames
	- Channels
Given a scenario, select and configure wireless devices and technologies.	Channel width
	Non-overlapping channels
	Regulatory impacts
	- 802.11h
	- Frequency options
	• 2.4GHz
	• 5GHz



Topic	Details	
	• 6GHz	
	Band steering	
	- Service set identifier (SSID)	
	Basic service set identifier (BSSID)	
	Extended service set identifier (ESSID)	
	- Network types	
	Mesh networks	
	Ad hoc	
	Point to point	
	Infrastructure	
	- Encryption	
	Wi-Fi Protected Access 2 (WPA2)	
	• WPA3	
	- Guest networks	
	Captive portals	
	- Authentication	
	Pre-shared key (PSK) vs. Enterprise	
	- Antennas	
	Omnidirectional vs. directional	
	- Autonomous vs. lightweight access point	
	- Important installation implications	
	• Locations	
	- Intermediate distribution frame (IDF)	
	- Main distribution frame (MDF)	
Explain important factors of	Rack size	
physical installations.	Port-side exhaust/intake	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Cabling	
	- Patch panel	
	- Fiber distribution panel	
	Lockable	
	Network Operations - 19%	
- Documentation		
	Physical vs. logical diagrams	
	Rack diagrams	
	Cable maps and diagrams	
	Network diagrams	
	- Layer 1	
	- Layer 2	
	- Layer 3	
Explain the purpose of	Asset inventory	
organizational processes and	- Hardware	
procedures.	- Software	
	- Licensing	
	- Warranty support	
	IP address management (IPAM)	
	Service-level agreement (SLA)	
	Wireless survey/heat map	
	- Life-cycle management	
	End-of-life (EOL)	
	End-of-support (EOS)	



Topic	Details
-	Software management
	- Patches and bug fixes
	- Operating system (OS)
	- Firmware
	Decommissioning
	- Change management
	Request process tracking/service request
	- Configuration management
	Production configuration
	Backup configuration
	Baseline/golden configuration
	- Methods
	SNMP
	- Traps
	- Management information base (MIB)
	- Versions
	1. v2c
	2. v3
	- Community strings
	- Authentication
	Flow data
	Packet capture
Cirra a casa a sia	Baseline metrics
Given a scenario, use	- Anomaly alerting/notification
network monitoring	Log aggregation
technologies.	- Syslog collector
	- Security information and event management (SIEM)
	Application programming interface (API) integration
	Port mirroring
	- Solutions
	Network discovery
	- Ad hoc
	- Scheduled
	Traffic analysis
	Performance monitoring
	Availability monitoring
	Configuration monitoring
	- DR metrics
	Recovery point objective (RPO)
	Recovery time objective (RTO)
	Mean time to repair (MTTR)
	Mean time between failures (MTBF)
	- DR sites
Explain disaster recovery (DR)	Cold site
concepts.	Warm site
	Hot site
	- High-availability approaches
	Active-active
	Active-passive
	- Testing
	Tabletop exercises



Торіс	Details
•	Validation tests
Given a scenario, implement IPv4 and IPv6 network services.	
	 NTP Precision Time Protocol (PTP) Network Time Security (NTS)
Compare and contrast network access and management methods.	- Site-to-site VPN - Client-to-site VPN - Clientless - Split tunnel vs. full tunnel - Connection methods - SSH - Graphical user interface (GUI) - API - Console - Jump box/host - In-band vs. out-of-band management Network Security - 14%
Evalain the insurant	- Logical security
Explain the importance of	Encryption
basic network security	- Data in transit
concepts.	- Data at rest



Topic	Details
-	Certificates
	- Public key infrastructure (PKI)
	- Self-signed
	Identity and access management (IAM)
	- Authentication
	- Multifactor authentication (MFA)
	- Single sign-on (SSO)
	- Remote Authentication Dial-in User Service (RADIUS)
	- LDAP
	- Security Assertion Markup Language (SAML)
	- Terminal Access Controller Access Control System Plus
	(TACACS+)
	- Time-based authentication
	- Authorization
	1. Least privilege
	2. Role-based access control
	Geofencing
	- Physical security
	Camera
	• Locks
	- Deception technologies
	Honeypot
	Honeynet
	- Common security terminology
	Risk
	Vulnerability
	Exploit
	Threat
	Confidentiality, Integrity, and Availability (CIA) triad
	- Audits and regulatory compliance
	Data locality
	Payment Card Industry Data Security Standards (PCI DSS)
	General Data Protection Regulation (GDPR)
	- Network segmentation enforcement
	Internet of Things (IoT) and Industrial Internet of Things (IIoT)
	Supervisory control and data acquisition (SCADA), industrial
	control System (ICS), operational technology (OT)
	• Guest
	Bring your own device (BYOD) Control of the state of the sta
	- Denial-of-service (DoS)/distributed denial-of-service (DDoS)
	- VLAN hopping
	- Media Access Control (MAC) flooding
Summarize various types of	- Address Resolution Protocol (ARP) poisoning
attacks and their impact to	- ARP spoofing
the network.	- DNS poisoning
	- DNS spoofing
	- Rogue devices and services
	• DHCP
	• AP



Topic	Details
	- Evil twin
	- On-path attack
	- Social engineering
	• Phishing
	Dumpster diving
	Shoulder surfing
	Tailgating
	- Malware
	- Device hardening
	Disable unused ports and services
	Change default passwords
	- Network access control (NAC)
	Port security
	• 802.1X
Given a scenario, apply	MAC filtering
network security features,	- Key management
defense techniques, and	- Security rules
solutions.	Access control list (ACL)
	Uniform Resource Locator (URL) filtering
	Content filtering
	- Zones
	Trusted vs. untrusted
	Screened subnet
	Network Troubleshooting - 24%
•	- Identify the problem
	Gather information
	Question usersIdentify symptoms
	 Determine if anything has changed
	Duplicate the problem, if possible Approach multiple problems individually.
	Approach multiple problems individually Establish a theory of probable cause.
	Establish a theory of probable causeQuestion the obvious
	Consider multiple approaches Ton to bettem (bettem to ton OSI model)
Explain the troubleshooting	- Top-to-bottom/bottom-to-top OSI model
methodology.	- Divide and conquer
	- Test the theory to determine the cause
	If theory is confirmed, determine next steps to resolve
	problem
	If theory is not confirmed, establish a new theory or escalate
	- Establish a plan of action to resolve the problem and identify
	potential effects
	- Implement the solution or escalate as necessary
	- Verify full system functionality and implement preventive measures
	if applicable
	- Document findings, actions, outcomes, and lessons learned
	throughout the process
Given a scenario,	- Cable issues
troubleshoot common	Incorrect cable
cabling and physical interface	- Single mode vs. multimode
issues.	



Topic	Details
-	- Category 5/6/7/8
	- Shielded twisted pair (STP) vs. unshielded twisted pair (UTP)
	Signal degradation
	- Crosstalk
	- Interference
	- Attenuation
	Improper termination
	Transmitter (TX)/Receiver (RX) transposed
	- Interface issues
	Increasing interface counters
	- Cyclic redundancy check (CRC)
	- Runts
	- Giants
	- Drops
	Port status
	- Error disabled
	- Administratively down
	- Suspended
	- Hardware issues
	Power over Ethernet (PoE)
	- Power budget exceeded
	- Incorrect standard
	Transceivers
	- Mismatch
	- Signal strength
Given a scenario, troubleshoot common issues with network services.	- Switching issues
	• STP
	- Network loops
	- Root bridge selection
	- Port roles
	- Port states
	Incorrect VLAN assignment
	• ACLs
	- Route selection
	Routing table
	Default routes
	- Address pool exhaustion
	- Incorrect default gateway
	- Incorrect IP address
	Duplicate IP address
	- Incorrect subnet mask
	- Congestion/contention
	- Bottlenecking
	- Bandwidth
Given a scenario,	Throughput capacity
troubleshoot common	- Latency
performance issues.	- Packet loss
	- Jitter
	- Wireless
	Interference
	- Channel overlap



Topic	Details
•	Signal degradation or loss
	Insufficient wireless coverage
	Client disassociation issues
	Roaming misconfiguration
	- Software tools
	Protocol analyzer
	Command line
	- ping
	- traceroute/tracert
	- nslookup
	- tcpdump
	- dig
	- netstat
	- ip/ifconfig/ipconfig
	- arp
	Nmap
	 Link Layer Discovery Protocol (LLDP)/Cisco Discovery Protocol
Given a scenario, use the	(CDP)
appropriate tool or protocol	Speed tester
to solve networking issues.	- Hardware tools
	Toner
	Cable tester
	• Taps
	Wi-Fi analyzer
	Visual fault locator
	- Basic networking device commands
	 show mac-address-table
	show route
	show interface
	show config
	show arp
	show vlan
	show power

Prepare with N10-009 Sample Questions:

Question: 1

Which of the following kinds of targeted attacks uses multiple computers or bots to request the same resource repeatedly?

- a) On-path
- b) MAC flooding
- c) ARP spoofing
- d) DDoS

Answer: d



Question: 2

Which of the following ports is a secure protocol?

- a) 20
- b) 23
- c) 443
- d) 445

Answer: c

Question: 3

While working in a coffee shop, an attacker watches a user log in to a corporate system and writes down the user's log-in credentials. Which of the following social engineering attacks is this an example of?

- a) Phishing
- b) Dumpster diving
- c) Shoulder surfing
- d) Tailgating

Answer: c

Question: 4

Which of the following antenna types would most likely be used in a network repeater that is housed in a central point in a home office?

- a) Omnidirectional
- b) Parabolic
- c) High-gain
- d) Patch

Answer: a

Question: 5

A network engineer wants to improve network availability. Which of the following should the engineer install in the main closet?

- a) A voltage monitor
- b) A gaseous fire suppression system
- c) Lockable cabinets
- d) An uninterruptible power supply

Answer: d

Question: 6

Which of the following should a junior security administrator recommend implementing to mitigate malicious network activity?

- a) IPS
- b) Honeypot
- c) SIEM
- d) VPN

Answer: a



Question: 7

Which of the following refers to a weakness in a mechanism or technical process?

- a) Vulnerability
- b) Risk
- c) Exploit
- d) Threat

Answer: a

Question: 8

Which of the following cloud deployment models involves servers that are hosted at a company's property and are only used by that company?

- a) Public
- b) Private
- c) Hybrid
- d) Community

Answer: b

Question: 9

A technician is troubleshooting a user's connectivity issues and finds that the computer's IP address was changed to 169.254.0.1. Which of the following is the most likely reason?

- a) Two or more computers have the same IP address in the ARP table.
- b) The computer automatically set this address because the DHCP was not available.
- c) The computer was set up to perform as an NTP server.
- d) The computer is on a VPN and is the first to obtain a different IP address in that network.

Answer: b

Question: 10

Which of the following is the first step a network administrator should take in the troubleshooting methodology?

- a) Establish a plan of action.
- b) Document findings and outcomes.
- c) Test the theory to determine cause.
- d) Identify the problem.

Answer: d



Study Tips to Pass the CompTIA Network+ Exam:

Understand the N10-009 Exam Format:

Before diving into your study routine, it's essential to familiarize yourself with the N10-009 exam format. Take the time to review the <u>exam syllabus</u> understand the test structure, and identify the key areas of focus. Prior knowledge of what to expect on exam day will help you tailor your study plan.

Make A Study Schedule for the N10-009 Exam:

To effectively prepare for the N10-009 exam, make a study schedule that fits your lifestyle and learning style. Set specific time slots for studying each day and focus on the topics based on their importance and your proficiency level. Consistency is a must, so stick to your schedule and avoid procrastination.

Study from Different Resources:

Make sure to expand beyond one source of study material. Utilize multiple resources such as textbooks, online courses, <u>practice exams</u>, and study guides to understand the N10-009 exam topics comprehensively. Each resource offers unique insights and explanations that can enhance your learning experience.

Practice Regularly for the N10-009 Exam:

Practice makes you perfect for the N10-009 exam preparation as well. Regular practice allows you to reinforce your knowledge of key concepts, enhance your problem-solving skills, and familiarize yourself with the **exam format**. Dedicate time to solving practice questions and sample tests to gauge your progress.

Take Breaks and Rest:

While it's essential to study, taking breaks and allowing yourself to rest is equally important. Overloading your brain with information without adequate rest can lead to burnout and decreased productivity. Set short breaks during your study sessions to recharge and maintain focus.

Stay Organized During the N10-009 Exam Preparation:

Stay organized throughout your N10-009 study journey by keeping track of your progress and materials. Maintain a tidy study space, use folders or digital tools to organize your notes and resources, and create a checklist of topics to cover. An organized approach helps you stay on track and minimize stress.



Seek Clarification from Mentors:

Feel free to seek clarification if you encounter any confusing or challenging concepts during your study sessions. Reach out to peers, instructors, or online forums for assistance. Clarifying doubts early on will prevent misunderstandings and ensure you have a <u>solid grasp</u> of the material.

Regular Revision Plays A vital Role for the N10-009 Exam:

Consistent revision is essential for the long-term retention of information. Review previously covered topics to reinforce your understanding and identify any areas requiring additional attention. Reviewing regularly will help solidify your knowledge and boost your confidence.

Practice Time Management for the N10-009 Exam:

Effective time management is crucial on exam day to ensure you complete all sections within the allocated time frame. During your practice sessions, simulate N10-009 exam conditions and practice pacing yourself accordingly. Develop strategies for tackling each section efficiently to maximize your score.

Stay Positive and Confident:

Lastly, always have a positive mindset and believe in your abilities. Stay confident in your preparation efforts and trust that you have adequately equipped yourself to tackle the N10-009 exam. Visualize success, stay focused, and approach the exam calmly and confidently.

Benefits of Earning the N10-009 Exam:

- Achieving the N10-009 certification opens doors to new career opportunities and advancement within your field.
- The rigorous preparation required for the N10-009 exam equips you with in-depth knowledge and practical skills relevant to your profession.
- Holding the N10-009 certification demonstrates your expertise and commitment to excellence, earning recognition from peers and employers.
- Certified professionals often grab higher salaries and enjoy greater earning potential than their non-certified counterparts.
- Obtaining the N10-009 certification validates your proficiency and credibility, instilling confidence in clients, employers, and colleagues.



Discover the Reliable Practice Test for the N10-009 Certification:

Edusum brings you comprehensive information about the N10-009 exam. We offer genuine practice tests tailored for the N10-009 certification. What benefits do these practice tests offer? You'll encounter authentic exam-like questions crafted by industry experts, providing an opportunity to enhance your performance in the actual exam. Count on Edusum for rigorous, unlimited access to N10-009 practice tests over two months, enabling you to bolster your confidence steadily. Through dedicated practice, many candidates have succeeded in streamlining their journey towards obtaining the CompTIA Network+.

Concluding Thoughts:

Preparing for the N10-009 exam requires dedication, strategy, and effective study techniques. These study tips can enhance your preparation, boost your confidence, and improve your chances of passing the exam with flying colors. Remember to stay focused, stay organized, and believe in yourself. Good luck!

Here is the Trusted Practice Test for the N10-009 Certification

EduSum.com offers comprehensive details about the N10-009 exam. Our platform provides authentic practice tests designed for the N10-009 exam. What benefits do these practice tests offer? By accessing our practice tests, you will encounter questions closely resembling those crafted by industry experts in the exam. This allows you to enhance your performance and readiness for the real exam. Count on Edusum to provide rigorous practice opportunities, offering unlimited attempts over two months for the N10-009 practice tests. Through consistent practice, many candidates have found success and simplified their journey towards attaining the CompTIA Network+.

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