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## CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Network Operations, Monitoring, and Performance: This section of the exam measures skills of Network Operations Specialists and covers day-to-day operational management of network environments. It involves configuring monitoring tools, analyzing performance data, and responding to alerts. Candidates are evaluated on their ability to maintain network health, optimize throughput, and ensure consistent uptime by applying best practices for proactive performance tuning and operations management.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Network Troubleshooting:</b> This section of the exam measures the skills of Network Support Engineers and covers diagnosing and resolving connectivity and performance issues across various network layers. It focuses on identifying root causes, using diagnostic tools, and applying systematic troubleshooting methodologies. The goal is to ensure that professionals can minimize downtime, restore service quickly, and prevent recurring problems by maintaining a resilient and stable network environment.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Network Architecture Design:</b> This section of the exam measures the skills of Network Architects and covers the ability to design scalable, secure, and efficient network architectures. It focuses on understanding design principles, selecting appropriate network components, and aligning architecture decisions with organizational needs. Candidates are expected to demonstrate a solid grasp of topology planning, high-availability configurations, and integration of cloud and on-premise systems to ensure reliability and performance.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Network Security:</b> This section of the exam measures the skills of Security Engineers and covers core practices for protecting network infrastructure. It includes applying firewall rules, implementing access control measures, and designing secure segmentation strategies. The content emphasizes threat mitigation techniques, secure configuration of networking devices, and adherence to compliance frameworks, preparing professionals to safeguard both internal and external network assets effectively.</li> </ul>

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## CompTIA CloudNetX Certification Exam Sample Questions (Q40-Q45):

### NEW QUESTION # 40

A company just launched a cloud-based application. Some users are reporting the application will not load. A cloud engineer investigates the issues and reports the following:

- \* Not all users are experiencing the issue.
- \* The application infrastructure is optimal.
- \* Users experiencing the issue belong to the company's remote sales team.

Which of the following is most likely misconfigured?

- A. IP addressing
- B. Ports and protocols
- **C. Geolocation rules**
- D. Application load balancers

**Answer: C**

Explanation:

Since only the remote sales team is affected and the infrastructure and network settings are correct, it's most likely that your geolocation or geo-restriction policies are blocking traffic from the regions where those users are located. Correcting those rules to allow their locations should restore access without impacting other users.

### NEW QUESTION # 41

Security policy states that all inbound traffic to the environment needs to be restricted, but all external outbound traffic is allowed within the hybrid cloud environment. A new application server was recently set up in the cloud. Which of the following would most

likely need to be configured so that the server has the appropriate access set up? (Choose two.)

- A. Port security
- B. Application gateway
- **C. Network security group**
- D. Screened subnet
- E. IPS
- **F. Firewall**

**Answer: C,F**

Explanation:

A perimeter firewall enforces the organization's "deny inbound by default, allow all outbound" policy at the edge of the cloud environment, while an Azure-style NSG applies the same rule set at the VM/subnet level.

Together they ensure no inbound connections slip through and that outbound traffic remains unrestricted.

#### NEW QUESTION # 42

A company's IT department is expected to grow from 100 to 200 employees, and the sales department is expected to grow from 1,000 to a maximum of 2,000 employees. Each employee owns a single laptop with a single IP allocated. The network architect wants to deploy network segmentation using the IP range 10.0.0.0

/8. Which of the following is the best solution?

- A. Allocate 10.1.0.0/30 to the IT department. Allocate 10.2.0.0/16 to the sales department.
- B. Allocate 10.1.0.0/16 to the IT department. Allocate 10.2.1.0/24 to the sales department.
- **C. Allocate 10.1.0.0/22 to the IT department. Allocate 10.2.0.0/15 to the sales department.**
- D. Allocate 10.1.0.0/16 to the IT department. Allocate 10.2.1.0/25 to the sales department.

**Answer: C**

Explanation:

A /22 gives you 1,022 usable addresses, ample headroom for 200 IT laptops, while a /15 yields 32,766 addresses, covering up to 2,000 sales laptops with room to grow, all within the 10.0.0.0/8 space.

#### NEW QUESTION # 43

A network engineer is working on securing the environment in the screened subnet. Before penetration testing, the engineer would like to run a scan on the servers to identify the OS, application versions, and open ports. Which of the following commands should the engineer use to obtain the information?

- A. `hping3 -l 10.10.10.x -rand-dest -I eth0`
- B. `tcpdump -ni eth0 src net 10.10.10.0/28`
- **C. `nmap -A 10.10.10.0/28`**
- D. `nc -v -n 10.10.10.x 1-1000`

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

`nmap` - A performs aggressive scanning, which includes OS detection, version detection, script scanning, and traceroute - exactly what is required in this case. It's the most effective and commonly used tool for comprehensive network reconnaissance prior to security testing.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Security Scanning and Reconnaissance Tools":

"Nmap supports comprehensive scanning options, including OS fingerprinting, service version detection, and port scanning, enabling detailed pre-penetration testing assessments." Other options:

- \* A. `tcpdump` is for packet capture, not scanning.
- \* C. `nc` (netcat) is a port scanning tool, but it lacks OS/app detection.
- \* D. `hping3` is a packet generator, not suitable for full-service scanning.

#### NEW QUESTION # 44

A network engineer is setting up guest access on a Wi-Fi network. After a recent network analysis, the engineer discovered that a user could access the guest network and attack the corporate network, since the networks share the same VLAN. Which of the following should the engineer do to prevent an attack like this one from happening?

- A. Set up a strong password on the guest wireless network.
- **B. Configure Layer 2 client isolation for the wireless network.**
- C. Set up a MAC filtering rule and add the MAC addresses of all corporate devices to the allow list.
- D. Set up a captive portal so all guest users have to register before gaining access to the wireless network.

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Layer 2 client isolation ensures that devices connected to the same wireless network (such as a guest SSID) cannot communicate with each other or other VLANs. This prevents guest users from scanning or attacking internal devices. It's a fundamental security control for guest Wi-Fi access.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Wireless Network Segmentation and Security":

"Client isolation prevents peer-to-peer attacks over Wi-Fi by ensuring wireless clients cannot communicate with one another, a necessary control on shared guest networks." Other options:

- \* B. MAC filtering is easy to spoof and hard to manage at scale.
- \* C. Strong passwords improve access control but don't isolate guest traffic.
- \* D. Captive portals add a registration layer but don't address VLAN or broadcast isolation.

## NEW QUESTION # 45

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