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## CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Network Troubleshooting: 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 2	<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 3	<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>
Topic 4	<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>

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## CompTIA CloudNetX Certification Exam Sample Questions (Q75-Q80):

### NEW QUESTION # 75

A network architect must ensure only certain departments can access specific resources while on premises. Those same users cannot be allowed to access those resources once they have left campus. Which of the following would ensure access is provided according to these requirements?

- A. Implementing a PKI-based authentication system to ensure access
- B. Configuring UEBA to monitor all access to those resources during non-business hours
- C. Enabling MFA for only those users within the departments needing access
- **D. Configuring geofencing with the IPs of the resources**

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Geofencing is a network access control method that enforces restrictions based on location data. In this scenario, the organization requires access to be permitted only when users are on premises (i.e., within a specific physical location). Geofencing can be implemented using source IP ranges or GPS-based location data to define boundaries (fences). This allows access to certain applications or services only when the user is inside a designated network or area.

MFA (Option A) provides identity assurance but does not enforce physical location-based restrictions.

UEBA (Option C) provides behavioral analytics but is not used for real-time access control.

PKI (Option D) provides identity validation through certificates but is not location-aware.

Relevant Extract from CompTIA CloudNetX CNX-001 Official Study Guide:

"Geofencing allows organizations to define physical or logical boundaries that restrict or allow access based on user location. Policies can be configured to allow access only when users are on a trusted campus or corporate network, denying requests originating from outside the geofenced area." Covered under the topic: "Access Control Technologies and Identity Enforcement Mechanisms."

### NEW QUESTION # 76

A network architect is designing a solution to secure the organization's applications based on the security policy. The requirements are:

\* Users must authenticate using one set of credentials.

\* External users must be located in authorized sites.  
\* Session timeouts must be enforced.  
\* Network access requirements should be changed as needed.  
Which of the following best meet these requirements? (Choose two.)

- A. Role-based access
- **B. Single sign-on**
- C. Risk-based authentication
- D. Multifactor authentication
- E. Static IP allocation
- **F. Conditional access policy**

**Answer: B,F**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

B: Single Sign-On (SSO) - SSO enables users to authenticate once using a unified set of credentials and gain access to multiple applications. It improves user experience and simplifies identity management.

E: Conditional Access Policy - This supports dynamic enforcement of access policies based on user location, device, risk level, and session characteristics. It allows administrators to define rules such as only allowing access from authorized geographic regions and automatically enforcing session timeouts or requiring reauthentication.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Identity and Access Management (IAM)":

"SSO provides seamless authentication across services while reducing password fatigue and attack surfaces."

"Conditional Access enforces access controls based on real-time conditions such as location, device compliance, and session context, supporting dynamic security postures." Other options:

- \* A. Role-based access defines permissions but does not handle location or session control.
- \* C. Static IP allocation does not offer user-based access controls.
- \* D. MFA enhances security but is not directly aligned with all the listed requirements.
- \* F. Risk-based authentication evaluates threat levels but does not handle session timeout or location enforcement directly.

#### NEW QUESTION # 77

A network security engineer must secure a web application running on virtual machines in a public cloud. The virtual machines are behind an application load balancer. Which of the following technologies should the engineer use to secure the virtual machines? (Choose two.)

- A. DLP
- B. SIEM
- C. CDN
- **D. NSG**
- **E. WAF**
- F. IDS

**Answer: D,E**

Explanation:

WAF: Protects the web application by inspecting incoming HTTP/HTTPS requests at the load balancer, blocking SQL injection, XSS, and other common web attacks.

NSG: Enforces network-layer controls on the VMs' subnets or interfaces, allowing only approved ports and IP ranges to reach the application servers.

#### NEW QUESTION # 78

An administrator logged in to a cloud account on a shared machine but forgot to log out after the session ended. Which of the following types of security threats does this action pose?

- A. Privilege escalation
- **B. On-path attack**
- C. Zero-day
- D. IP spoofing

**Answer: B**

Explanation:

By leaving an active session open on a shared machine, an attacker with access to that machine can intercept or hijack the administrator's session tokens or credentials - classic on-path behavior - allowing them to impersonate the admin without needing elevated exploits.

#### NEW QUESTION # 79

An administrator needs to add a device to the allow list in order to bypass user authentication of an AAA system. The administrator uses MAC filtering and needs to discover the device's MAC address to accomplish this task. The device receives an IP address from DHCP, but the IP address changes daily. Which of the following commands should the administrator run on the device to locate its MAC address?

- A. arp -a
- B. nslookup
- C. netstat -an
- D. ipconfig /all

**Answer: D**

Explanation:

Running ipconfig /all on the device will display the physical (MAC) address of each network adapter, allowing you to copy the correct MAC for your allow-list entry.

#### NEW QUESTION # 80

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