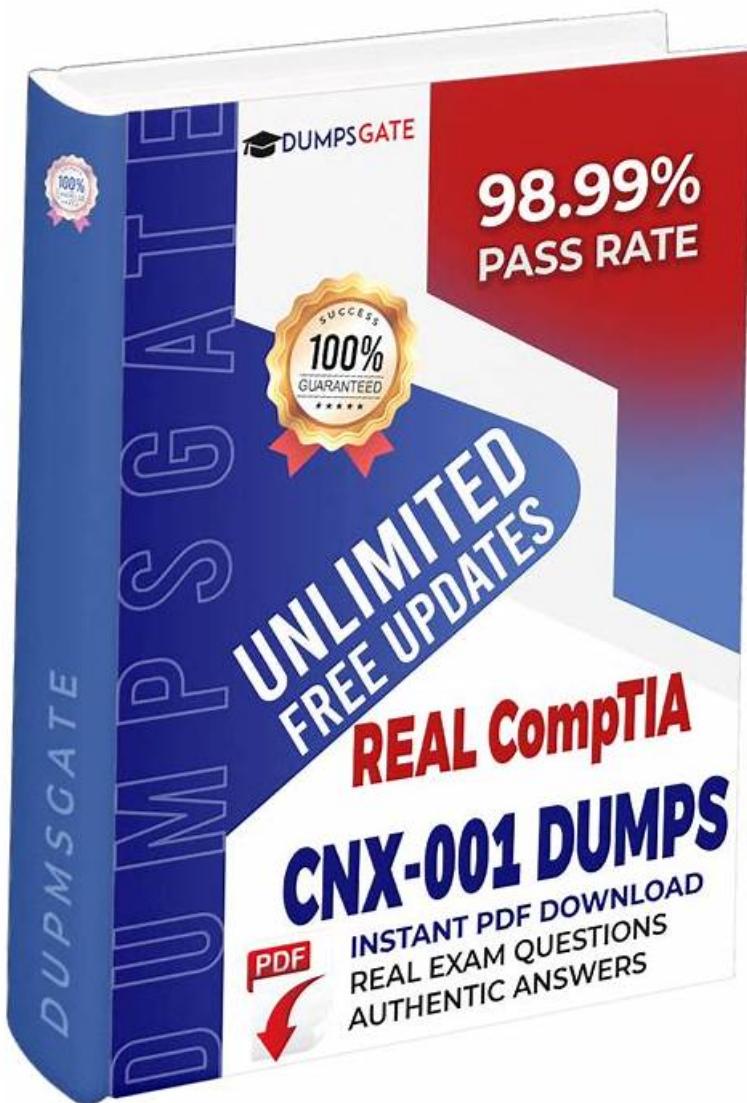


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## CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> <li>Network Security: 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 2	<ul style="list-style-type: none"> <li>Network Architecture Design: 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 3	<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 4	<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>

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### CompTIA CloudNetX Certification Exam Sample Questions (Q85-Q90):

#### NEW QUESTION # 85

A network architect is designing a new network for a rural hospital system. Given the following requirements:

- \* Highly available
- \* Consistent data transmission
- \* Resilient to simultaneous failures

Which of the following topologies should the architect use?

- A. Mesh
- B. Collapsed core
- C. Star
- D. Hub-and-spoke

#### Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A mesh topology provides multiple redundant paths between nodes. It offers the highest availability and fault tolerance by allowing communication to continue even if one or more links or nodes fail. This is especially important in rural healthcare systems where reliability and access to critical services are paramount.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Network Topologies and Redundancy Models": "Mesh topologies provide optimal fault tolerance and support consistent data transmission through redundant links, ideal for mission-critical systems." Other options:

- \* A. Collapsed core is cost-efficient but not fully redundant.
- \* B. Hub-and-spoke introduces a single point of failure at the hub.
- \* D. Star also relies on a central node and is not fault tolerant.

### NEW QUESTION # 86

A network security administrator needs to set up a solution to:

- \* Gather all data from log files in a single location.
- \* Correlate the data to generate alerts.

Which of the following should the administrator implement?

- A. Event log monitoring
- B. Log management
- C. Syslog
- D. **SIEM**

### Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A SIEM (Security Information and Event Management) solution ingests log data from multiple sources, correlates events, detects anomalies, and generates alerts based on predefined or dynamic rules. This makes SIEM the ideal solution for centralized logging and real-time threat detection.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Security Monitoring and Log Correlation":

"SIEM platforms aggregate, normalize, and analyze logs from diverse sources, providing real-time alerts and incident response support." Other options:

- \* A. Syslog is a transport protocol - it doesn't correlate or alert.
- \* B. Event log monitoring is limited to individual systems.
- \* C. Log management stores logs but doesn't perform analysis or alerting.

### NEW QUESTION # 87

A network architect needs to design a solution to ensure every cloud environment network is built to the same baseline. The solution must meet the following requirements:

Use automated deployment.

Easily update multiple environments.

Share code with a community of practice.

Which of the following are the best solutions? (Choose two.)

- A. Deployment runbooks
- B. Private code repository
- C. **Public code repository**
- D. **CI/CD pipelines**
- E. Automated image deployment
- F. Deployment guides

### Answer: C,D

Explanation:

CI/CD pipelines: Automate the provisioning and configuration of network baselines across all environments, and make it easy to roll out updates consistently.

Public code repository: Enables your community of practice to collaborate, review, and contribute to shared IaC modules and templates, while making updates discoverable and reusable.

### NEW QUESTION # 88

A network engineer adds a large group of servers to a screened subnet and configures them to use IPv6 only.

The servers need to seamlessly communicate with IPv4 servers on the internal networks. Which of the following actions is the best way to achieve this goal?

- A. Set up a bridge between the screened subnet and internal networks to handle the conversion.
- **B. Implement NAT64 on the router between the screened subnet and the internal network.**
- C. Change the servers in the screened subnet from IPv6 addresses to IPv4 addresses.
- D. Add IPv6 to the network cards on the internal servers so they can communicate with the screened subnet.

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

NAT64 allows IPv6-only devices to communicate with IPv4-only systems. It translates IPv6 addresses to IPv4 and vice versa. This is essential in mixed environments where backward compatibility is needed, and cannot be resolved simply by dual-stacking or bridging.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "IP Version Compatibility and Translation":

"NAT64 allows seamless communication between IPv6-only clients and IPv4-only servers by translating address formats and protocol headers." Other options:

- \* A. Adding IPv6 to internal servers requires changes to all internal devices and does not scale well.
- \* B. Bridging does not handle protocol translation.
- \* C. Changing IPv6 servers back to IPv4 violates the requirement for IPv6-only configuration.

### NEW QUESTION # 89

A network administrator must connect a remote building at a manufacturing plant to the main building via a wireless connection. Which of the following should the administrator choose to get the greatest possible range from the wireless connection? (Choose two.)

- A. 5GHz
- **B. Patch antenna**
- C. Omnidirectional antenna
- D. 6GHz
- E. Built-in antenna
- **F. 2.4GHz**

**Answer: B,F**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

2.4GHz has longer range and better wall penetration than higher frequencies like 5GHz or 6GHz. A patch antenna (a type of directional antenna) focuses the signal in one direction, greatly improving range and reliability over long distances between buildings.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Wireless Deployment and Antenna Selection":

"2.4GHz offers extended range over 5GHz. Directional antennas such as patch antennas concentrate signals toward a target, improving distance communication." Other options:

- \* B & C. Higher frequencies provide faster speeds but shorter range.
- \* D. Omnidirectional antennas spread signal in all directions, not ideal for point-to-point.
- \* F. Built-in antennas are generally low gain and insufficient for building-to-building links.

### NEW QUESTION # 90

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