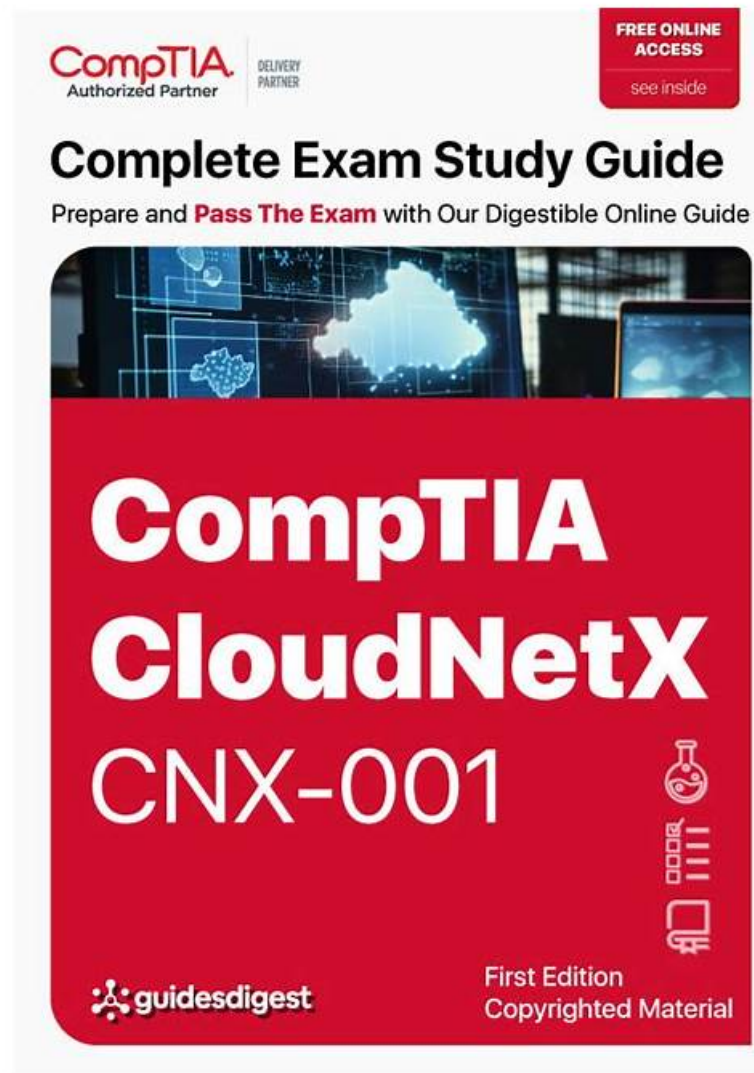


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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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.

Topic 2	<ul style="list-style-type: none"> • 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.
Topic 3	<ul style="list-style-type: none"> • 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.
Topic 4	<ul style="list-style-type: none"> • 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.

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CompTIA CloudNetX Certification Exam Sample Questions (Q57-Q62):

NEW QUESTION # 57

A company provides an API that runs on the public cloud for its customers. A fixed number of VMs host the APIs. During peak hours, the company notices a spike in usage that results in network communication speeds slowing down for all customers. The management team has decided that access for all customers should be fair and accessible at all times. Which of the following is the most cost-effective way to address this issue?

- A. Use an allow list for customers using APIs.
- **B. Enable throttling on APIs.**
- C. Increase the number of VMs running APIs.
- D. Increase the MTU on the VMs.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

API throttling limits the number of requests a user or system can make in a given time frame. This ensures that no single customer overwhelms the service, maintaining fair access and stability for all users during peak usage periods. It is cost-effective as it avoids unnecessary resource scaling.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "API Management and Traffic Control":

"Throttling allows for controlled usage of APIs, preventing service degradation and ensuring equitable access during high traffic periods." Other options:

- * A. Allow lists control access, not traffic volume.
- * B. Increasing VMs increases cost and may not scale linearly.
- * D. MTU settings affect packet size but not API-level fairness or traffic spikes.

NEW QUESTION # 58

An organization's Chief Technical Officer is concerned that changes to the network using IaC are causing unscheduled outages. Which of the following best mitigates this risk?

- A. Making code changes to the master branch
- **B. Adding review/approval steps to the CI/CD pipelines**
- C. Forking the code repository before making changes
- D. Enforcing code review of the change by the author

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The best way to prevent unscheduled outages caused by Infrastructure as Code (IaC) changes is to implement automated review and approval gates in the CI/CD pipeline. This ensures that all changes undergo validation, peer review, testing, and possibly approval from stakeholders before being deployed, thus reducing the likelihood of production-impacting issues.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "CI/CD Security and IaC Controls":

"Incorporating approval gates and automated validation into CI/CD pipelines helps detect misconfigurations and unauthorized changes before deployment, reducing the risk of outages." Other options:

- * A. Making changes directly to the master branch violates best practices.
- * B. Self-review (by the author) lacks objectivity and fails peer validation.
- * C. Forking creates a copy but does not introduce formal validation processes.

NEW QUESTION # 59

A company is expanding its network and needs to ensure improved stability and reliability. The proposed solution must fulfill the following requirements:

- * Detection and prevention of network loops
- * Automatic configuration of ports
- * Standard protocol (not proprietary)

Which of the following protocols is the most appropriate?

- A. RTSP
- B. SIP
- **C. STP**
- D. BGP

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

STP (Spanning Tree Protocol) is a Layer 2 standard protocol that prevents switching loops in Ethernet networks by creating a loop-free logical topology. It can automatically block and unblock redundant paths based on network changes, ensuring reliability and avoiding broadcast storms.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Ethernet Loop Prevention and Switching Protocols":

"STP is a standard Layer 2 protocol used to detect and prevent network loops, enhancing network stability in switched topologies."

Other options:

- * B. SIP is a signaling protocol used in VoIP.
- * C. RTSP is for media streaming control.
- * D. BGP is a routing protocol, not for Layer 2 loop prevention.

NEW QUESTION # 60

A network engineer identified several failed log-in attempts to the VPN from a user's account. When the engineer inquired, the user mentioned the IT help desk called and asked them to change their password.

Which of the following types of attacks occurred?

- A. Evil twin
- B. Initialization vector
- **C. Social engineering**
- D. On-path

Answer: C

Explanation:

The attacker tricked the user into revealing credentials by impersonating the help desk over the phone-an archetypal social engineering tactic.

NEW QUESTION # 61

A network engineer is installing new switches in the data center to replace existing infrastructure. The previous network hardware had administrative interfaces that were plugged into the existing network along with all other server hardware on the same subnet. Which of the following should the engineer do to better secure these administrative interfaces?

- A. Set the administrative interfaces and the network switch ports on the same VLAN.
- B. Disable unused physical ports on the switches to keep unauthorized users out.
- **C. Connect the switch management ports to a separate physical network.**
- D. Upgrade all of the switch firmware to the latest hardware levels.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To better secure administrative interfaces, the best practice is to isolate them from the production network by connecting the management ports to a separate, dedicated management network. This prevents unauthorized access from devices or users on the production subnet and reduces the attack surface.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Securing Network Infrastructure":

"Management interfaces should be placed on a separate out-of-band management network, providing physical and logical separation from user and data traffic." This ensures that only trusted devices on the management network can access the administrative interfaces.

Other options:




- * B. Disabling unused ports is good practice but does not address the segregation of management traffic.
- * C. Placing admin interfaces and production traffic on the same VLAN exposes them to potential internal threats.
- * D. Firmware upgrades are important for security patches but do not isolate the interface.

NEW QUESTION # 62

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