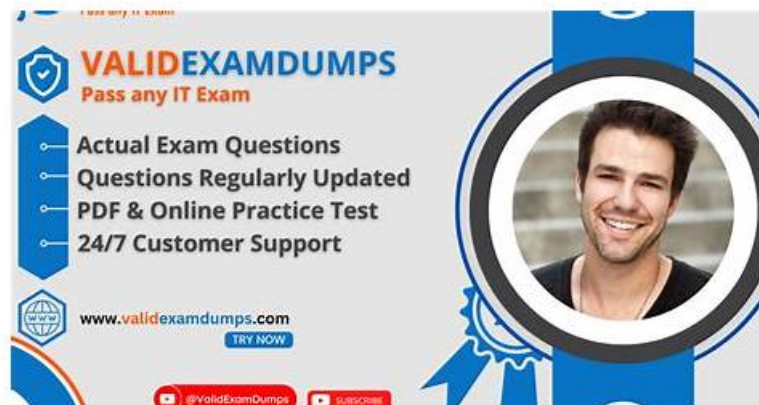


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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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.
Topic 4	• 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.

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CompTIA CloudNetX Certification Exam Sample Questions (Q36-Q41):

NEW QUESTION # 36

An application is hosted on a three-node cluster in which each server has identical compute and network performance specifications. A fourth node is scheduled to be added to the cluster with three times the performance as any one of the preexisting nodes. The network architect wants to ensure that the new node gets the same approximate number of requests as all of the others combined. Which of the following load- balancing methodologies should the network architect recommend?

- A. Round-robin
- **B. Weighted**
- C. Least connections
- D. Load-based

Answer: B

Explanation:

Assign each of the three original nodes a weight of 1 and the new high-performance node a weight of 3. With weighted balancing, the new node will receive $3 / (1 + 1 + 1 + 3) = 50\%$ of traffic - equal to the combined load on the other three.

NEW QUESTION # 37

After a malicious actor used an open port in a company's lobby, a network architect needs to enhance network security. The solution must enable:

- * Security posture check
- * Auto remediation capabilities
- * Network isolation
- * Device and user authentication

Which of the following technologies best meets these requirements?

- A. 802.1X
- B. IPS
- **C. NAC**
- D. Microsegmentation

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Network Access Control (NAC) evaluates the posture of a device before allowing access to the network. It can enforce security policies, authenticate users and devices, and isolate or remediate non-compliant devices.

NAC is widely used in enterprise environments to secure access at the network edge, such as in guest or public areas.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Access Control and Posture Assessment":

"NAC provides device authentication, security posture validation, and can enforce automated remediation or quarantine actions based on policy compliance." Other options:

- * A. IPS detects and prevents known threats but does not perform access control or posture checks.
- * B. Microsegmentation isolates workloads but lacks posture checks and auto-remediation.

NEW QUESTION # 38

A cloud architect needs to change the network configuration at a company that uses GitOps to document and implement network changes. The Git repository uses main as the default branch, and the main branch is protected. Which of the following should the architect do after cloning the repository?

- **A. Create a new branch for the change, then create a pull request including the changes.**
- B. Rebase the remote main branch after making the changes to implement.
- C. Use the main branch to make and commit the changes back to the remote repository.

- D. Check out the development branch, then perform and commit the changes back to the remote repository.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

With GitOps, all infrastructure changes are tracked as code and committed to version-controlled repositories.

When the main branch is protected, changes should not be committed directly. Instead, best practices require that a new feature or change branch be created, followed by a pull request (PR) for peer review and approval before merging into the protected branch.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Infrastructure as Code and GitOps":

"In GitOps workflows, changes are made in feature branches, reviewed via pull requests, and merged into protected branches only after validation, ensuring auditability and control over infrastructure deployments." Other options:

- * A. Direct commits to protected branches are restricted and violate GitOps practices.
- * C. The development branch may exist, but the question specifies main is the default, and the correct process requires a PR.
- * D. Rebase is for integrating histories, not submitting approved changes.

NEW QUESTION # 39

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

Answer: A

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 # 40

A customer asks a MSP to propose a ZTA design for its globally distributed remote workforce. Given the following requirements:

Authentication should be provided through the customer's SAML identity provider.

Access should not be allowed from countries where the business does not operate.

Secondary authentication should be added to the workflow to allow for passkeys.

Changes to the user's device posture and hygiene should require reauthentication into the network.

Access to the network should only be allowed to originate from corporate-owned devices.

Which of the following solutions should the MSP recommend to meet the requirements?

- **A. Configure geolocation settings to block certain IP addresses.**
Enforce MFA.
Federate the solution via SSO.
Enable continuous access policies on the WireGuard tunnel.
Create a trusted endpoints policy.
- B. Enforce posture assessment only during the initial network log-on.
Implement RADIUS for SSO.
Restrict access from all non-U.S. IP addresses.
Configure a BYOD access policy.
Disable auditing for remote access.

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