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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 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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CNX-001 Exam Certification Cost - CNX-001 Quiz

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CompTIA CloudNetX Certification Exam Sample Questions (Q21-Q26):

NEW QUESTION # 21

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

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Weighted load balancing allows distribution of traffic based on server capacity or assigned weights. In this case, the new node should receive a weight of 3, and each of the three older nodes a weight of 1. This ensures the new node handles the same total number of requests as the other three combined (3:1:1:1).

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Load Balancing Algorithms and Traffic Distribution": "Weighted load balancing accounts for node capacity, distributing requests proportionally according to performance capability or administrator-defined weights." Other options:

- * A. Round-robin sends traffic equally to all servers regardless of capacity.
- * B. Load-based requires dynamic performance measurement and is more complex.
- * C. Least connections may work in certain cases, but doesn't guarantee proportional traffic split based on server performance.

NEW QUESTION # 22

A network administrator is configuring firewall rules to lock down the network from outside attacks. Which of the following should the administrator configure to create the most strict set of rules?

- A. URL filtering
- B. File blocking
- C. Network security group

- **D. Allow List**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

An Allow List (also known as Whitelisting) is the most restrictive firewall rule approach. It blocks all traffic by default and only permits explicitly defined trusted IPs, URLs, or applications. This minimizes the attack surface and ensures that only known, safe traffic is allowed into the network.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Firewall and Security Rule Configuration":

"Whitelisting or Allow Listing enforces a default-deny security posture by permitting only specified trusted sources. This approach offers the highest level of control and reduces exposure to unknown threats." Other options:

- * A. URL filtering restricts content access but is not as strict as allow lists.
- * B. File blocking targets malicious payloads but doesn't limit traffic sources.
- * C. Network Security Groups (NSGs) are effective but broader in scope; they use allow/deny rules but may not be as tightly controlled as explicit allow lists.

NEW QUESTION # 23

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. Upgrade all of the switch firmware to the latest hardware levels.
- **C. Connect the switch management ports to a separate physical network.**
- D. Disable unused physical ports on the switches to keep unauthorized users out.

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 # 24

An administrator must ensure that credit card numbers are not contained in any outside messaging or file transfers from the organization. Which of the following controls meets this requirement?

- A. Egress filtering
- B. Encryption in transit
- C. Intrusion detection system
- **D. Data loss prevention**

Answer: D

Explanation:

Data Loss Prevention solutions inspect outbound communications and file transfers for sensitive data patterns, such as credit card numbers, and block or quarantine any messages that contain them, ensuring that no payment card details leave the organization.

NEW QUESTION # 25

A security architect needs to increase the security controls around computer hardware installations. The requirements are:

- * Auditable access logs to computer rooms
- * Alerts for unauthorized access attempts
- * Remote visibility to the inside of computer rooms

Which of the following controls best meet these requirements? (Choose two.)

- **A. NFC access cards**
- B. Motion sensors
- **C. Video surveillance**
- D. Locks and keys
- E. Automated lighting
- F. Security patrols

Answer: A,C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Video surveillance (A) provides continuous monitoring and allows for real-time, remote visibility of secure locations, such as computer rooms. When integrated with analytics, video surveillance systems can detect movement after hours or unauthorized access and generate immediate alerts. These systems also maintain video logs that can be audited later.

NFC access cards (B) allow controlled access to physical areas, generating time-stamped logs for each entry attempt. When connected to an access control system, these cards can trigger alerts for unauthorized access attempts, such as the use of expired credentials or access during restricted hours.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - Security Controls and Physical Security Section:

"Security access systems using NFC or smart cards allow traceability of personnel entry through electronic logs, while surveillance systems provide visibility and support forensic investigations."

"Video surveillance allows real-time monitoring of physical environments and helps detect unauthorized presence or access in sensitive locations."

NEW QUESTION # 26

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