CNX-001 Exam Topics - CNX-001 Trustworthy Exam Content

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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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 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	• 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.

>> CNX-001 Exam Topics <<

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CompTIA CloudNetX Certification Exam Sample Questions (Q60-Q65):

NEW QUESTION # 60
A company is experiencing numerous network issues and decides to expand its support team. The new junior employees will need to be onboarded in the shortest time possible and be able to troubleshoot issues with minimal assistance. Which of the following should the company create to achieve this goal?

- A. A mentor program for guiding each junior employee until they are familiar with the networking infrastructure
- B. Clearly documented runbooks for networking issues and knowledge base articles
- C. Physical and logical network diagrams of the entire networking infrastructure
- D. Statement of work documenting what each junior employee should do when troubleshooting

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Runbooks and knowledge base articles provide step-by-step instructions for resolving common issues, helping new employees quickly become productive with minimal supervision. These documents can be updated as new issues arise and serve as a foundational training and operational resource.
Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Operational Documentation and Knowledge Transfer":
"Runbooks contain standardized procedures for handling recurring operational tasks. Knowledge base articles enable consistent troubleshooting and resolution with minimal oversight." Other options:
* A. A Statement of Work (SOW) is used for defining project deliverables, not training.
* C. Network diagrams are useful for understanding architecture, but not for operational procedures.
* D. A mentor program can help, but it doesn't scale or provide immediate troubleshooting steps.

NEW QUESTION # 61
A network architect is working on a physical network design template for a small education institution's satellite campus that is not yet built. The new campus location will consist of two small buildings with classrooms, one screening room with audiovisual equipment, and 200 seats for students. Which of the following enterprise network designs should the architect suggest?

- A. Collapsed core
- B. Dual-layer
- C. Hybrid
- D. Three-tier

Answer: A

Explanation:
In a small satellite campus with limited buildings and user density, a collapsed-core (two-tier) design combines the core and distribution layers into a single set of switches. This minimizes hardware, simplifies management, and still provides the necessary segmentation and resiliency for the classrooms, screening room, and student seating areas.

NEW QUESTION # 62
A company just launched a cloud-based application. Some users are reporting the application will not load. A cloud engineer investigates the issues and reports the following:
* Not all users are experiencing the issue.
* The application infrastructure is optimal.
* Users experiencing the issue belong to the company's remote sales team.
Which of the following is most likely misconfigured?

- A. Ports and protocols
- B. IP addressing
- C. Geolocation rules
- D. Application load balancers

Answer: C

Explanation:
Since only the remote sales team is affected and the infrastructure and network settings are correct, it's most likely that your geolocation or geo-restriction policies are blocking traffic from the regions where those users are located. Correcting those rules to allow their locations should restore access without impacting other users.

NEW QUESTION # 63
A cloud engineer is planning to build VMs in a public cloud environment for a cloud migration. A cloud security policy restricts access to the console for new VM builds. The engineer wants to replicate the settings for each of the VMs to ensure the network settings are preconfigured. Which of the following is the best deployment method?

- A. CLI command
- B. IaC template
- C. API script
- D. Custom SDK

Answer: B

Explanation:
Using an Infrastructure-as-Code template lets you define and version all VM configurations, including network settings, in code that's automatically applied during deployment, eliminating the need for console changes and ensuring consistency across each build.

NEW QUESTION # 64
Application development team users are having issues accessing the database server within the cloud environment. All other users are able to use SSH to access this server without issues. The network architect reviews the following information to troubleshoot the issue:

Traceroute output from an application developer's machine with the assigned IP 192.168.2.7:

* Application development gateway: 192.168.2.1/24
* Server segment gateway: 192.168.1.1/24
* Database server: 192.168.1.9
* Application developer machine IP: 192.168.2.7
* Traceroute ends at hop 4: 192.168.4.1 (server segment firewall), then times out Which of the following is the most likely cause of the issue?

- A. The core firewall is blocking the traffic.
- B. The server segment gateway is having bandwidth issues.
- C. Network security groups do not have the correct outbound rule configured.
- D. The server segment firewall is dropping the traffic.

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The traceroute shows that the traffic successfully passes through the application development network (192.168.2.1), to the server segment gateway (192.168.1.1), and reaches the serversegment firewall (192.168.4.1). However, it times out immediately after hitting 192.168.4.1, indicating that the traffic is being dropped or filtered at that firewall.
Because other users (outside of the application development segment) are able to SSH into the database server (192.168.1.9), the issue is not with the database server itself or the core network. This points to the server segment firewall blocking traffic originating from the application development subnet (192.168.2.0/24), which is a common practice in segmented network designs unless proper access rules are defined.
Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Network Segmentation and Firewall Rules":
"Firewalls between network segments may enforce security policies that restrict access based on source
/destination IP and port. Lack of proper allow rules can result in blocked traffic even if routing is successful." Other options:
* A. The core firewall is not in the traceroute path; it is irrelevant to this specific flow.
* B. NSGs (Network Security Groups) apply to cloud workloads, but the behavior and hop-by-hop flow suggest it is a firewall-level issue, not NSG misconfiguration.
* D. Bandwidth issues would typically show packet loss or high latency, not consistent timeouts at a specific hop.

NEW QUESTION # 65
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