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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 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.

CompTIA CloudNetX Certification Exam Sample Questions (Q43-Q48):

NEW QUESTION # 43

A network load balancer is not correctly validating a client TLS certificate. The network architect needs to validate the certificate installed on the load balancer before progressing. Which of the following commands should the architect use to confirm whether the private key and certificate match?

- A. openssl list -noout -modulus -in cert.crt | openssl md5
openssl rsa -noout -modulus -in privkey.txt | openssl md5
- B. openssl x509 -noout -modulus -in cert.crt | openssl md5
openssl rsa -noout -modulus -in privkey.txt | openssl md5
- C. openssl rsa -noout -modulus -in cert.crt | openssl md5
openssl verify -noout -modulus -in privkey.txt | openssl md5
- D. openssl req -in certificate.csr -verify
openssl verify -noout -modulus -in privkey.txt | openssl md5

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To verify that the certificate and the private key match, one can extract the modulus from both files and compare their hash values. The correct syntax involves using openssl x509 to extract the modulus from the certificate, and openssl rsa to extract the modulus from the private key, followed by an MD5 hash to ensure they match.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "TLS/SSL Certificate Validation and

Troubleshooting":

"To verify that the private key and certificate match, compare the modulus values. A mismatch results in failed TLS handshakes."

Other options:

- * A & C: Incorrect syntax (openssl-list and openssl-rsa are not valid commands).
- * B: The commands shown are used to verify CSRs, not matching keys.

NEW QUESTION # 44

A network architect is designing a solution to place network core equipment in a rack inside a data center.

This equipment is crucial to the enterprise and must be as secure as possible to minimize the chance that anyone could connect directly to the network core. The current security setup is:

In a locked building that requires sign in with a guard and identification check.

In a locked data center accessible by a proximity badge and fingerprint scanner.

In a locked cabinet that requires the security guard to call the Chief Information Security Officer (CISO) to get permission to provide the key.

Which of the following additional measures should the architect recommend to make this equipment more secure?

- A. Require anyone entering the data center for any reason to undergo a background check.
- B. Have the CISO accompany any network engineer that needs to do work in this cabinet.
- **C. Set up a video surveillance system that has cameras focused on the cabinet.**
- D. Make all engineers with access to the data center sign a statement of work.

Answer: C

Explanation:

Recording and monitoring all activity at the cabinet greatly strengthens security by providing a real-time deterrent, an audit trail of who accessed it and when, and forensic evidence if an incident ever occurs.

NEW QUESTION # 45

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

Answer: C

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 # 46

A network architect is creating a network topology for a global SD-WAN deployment. The business has offices in Asia, Europe, and the United States and makes use of data centers in the United States and Europe. Most traffic between sites must have the lowest latency possible. Which of the following topologies best meets this requirement?

- **A. Mesh**
- B. Hub-and-spoke
- C. Spine-and-leaf
- D. Star

Answer: A

Explanation:

A full-mesh SD-WAN topology allows each site to establish direct overlays with every other site, minimizing the number of hops and avoiding backhauling through a central hub, thereby delivering the lowest latency paths between Asia, Europe, and the US.

NEW QUESTION # 47

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

Answer: A

Explanation:

By enabling client isolation at Layer 2, guest clients can still reach the Internet but cannot directly communicate with any other device on that VLAN, including your corporate endpoints, stopping lateral attacks without needing MAC whitelists or overly complex captive-portal setups.

NEW QUESTION # 48

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