CNX-001 Exam Objectives - CNX-001 Exam Questions Fee

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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 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	• 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 (Q47-Q52):

NEW QUESTION # 47
A company is experiencing multiple switch failures. The network analyst discovers the following:
* Network recovery time is unacceptable and occurs after the shutdown of some switches.
* Some loops were detected in the network.
* No broadcast storm was detected.
Which of the following is the most cost-effective solution?

- A. Implement tagging.
- B. Implement STP.
- C. Add a new Layer 3 switch.
- D. Add multiple VLANs.

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Spanning Tree Protocol (STP) is a Layer 2 protocol that prevents loop conditions in redundant switch topologies. It automatically disables redundant links in a controlled way, allowing one active path at a time.
When a switch fails, STP recalculates and activates an alternate path. In this case, loops are detected, but no broadcast storms occurred, indicating that STP is not in place or not configured properly. Implementing STP is a low-cost and effective solution to resolve these issues.
Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Switching Technologies and Loop Prevention":
"STP prevents switching loops by dynamically identifying and disabling redundant paths. When a link failure occurs, STP re-converges to restore network connectivity."
"STP is an essential protocol in redundant Layer 2 topologies to avoid broadcast and loop issues." Other options:
* A. A Layer 3 switch adds routing functionality but does not prevent Layer 2 loops.
* B. VLANs segment broadcast domains but do not inherently prevent physical loops.
* D. Tagging (e.g., VLAN tagging) helps with segmentation but not with loop prevention.

NEW QUESTION # 48
A cloud network engineer needs to enable network flow analysis in the VPC so headers and payload of captured data can be inspected. Which of the following should the engineer use for this task?

- A. Traffic mirroring
- B. Syslog service
- C. Network flows
- D. Application monitoring

Answer: A

Explanation:
VPC Traffic Mirroring lets you capture copies of inbound and outbound network traffic, full packet headers and payload, and send them to appliances or analysis tools for deep inspection, which goes beyond the metadata provided by standard flow logs.

NEW QUESTION # 49
A user reports an issue connecting to a database server. The front-end application for this database is hosted on the company's web server. The network engineer has changed the network subnet that the company servers are located on along with the IP addresses of the servers. These are the new configurations:
New subnet for the servers is 10.10.10.64/27

Web server IP address is 10.10.10.101

Database server IP is 10.10.10.93

Which of the following ismostlikely causing the user's issue?

- A. The database server firewall is blocking the port to the database.
- B. The web server does not have the correct network configuration.
- C. The DNS server is not resolving properly.
- D. The web application server is not forwarding the requests.

Answer: B

Explanation:
With a /27 mask on 10.10.10.64/27, valid host addresses run from 10.10.10.65 through 10.10.10.94. The database server's IP (10.10.10.93) is in that range, but the web server's IP (10.10.10.101) falls outside it-so it's mis-configured and cannot reach the database.

NEW QUESTION # 50
A network administrator must connect a remote building at a manufacturing plant to the main building via a wireless connection. Which of the following should the administrator choose to get thegreatestpossible range from the wireless connection? (Choose two.)

- A. Omnidirectional antenna
- B. 6GHz
- C. Patch antenna
- D. 5GHz
- E. Built-in antenna
- F. 2.4GHz

Answer: C,F

Explanation:
2.4 GHz: The lower-frequency 2.4 GHz band propagates farther and better penetrates obstacles than 5 GHz or 6 GHz, giving you greater link distance.
Patch antenna: A directional (patch) antenna focuses RF energy into a narrow beam, maximizing gain and range between two fixed points - the best for a long-haul wireless link.

NEW QUESTION # 51
A company is transitioning from on-premises to a hybrid environment. Due to regulatory standards, the company needs to achieve a high level of reliability and high availability for the connection between its data center and the cloud provider. Which of the following solutions best meets the requirements?

- A. Establish two Direct Connect connections to the cloud provider using two different suppliers.
- B. Establish a Direct Connect with the cloud provider and peer to two different VPCs in the cloud network.
- C. Establish a VPN with two tunnels to a transit gateway at the cloud provider.
- D. Establish a Direct Connect with the cloud provider and a redundant connection with a VPN over the internet.

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Establishing two Direct Connect (or equivalent private connectivity services such as Azure ExpressRoute) connections with two different providers ensures maximum redundancy and reliability. This setup complies with high availability (HA) and fault-tolerance design best practices for regulated industries, where minimal downtime and service continuity are critical.
Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Hybrid Connectivity and High Availability":
"Redundant connections to cloud providers should use physically separate paths and providers to ensure fault tolerance and meet reliability requirements in hybrid cloud environments."
"Direct connections provide higher availability and consistent performance than VPNs." Other options:
* A. Peering to two VPCs does not ensure link redundancy.
* B. Combining Direct Connect with VPN offers backup but less reliability than dual Direct Connects.

* D. VPNs over the internet are lower in reliability and do not meet high availability standards required for regulated industries.

NEW QUESTION # 52

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