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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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 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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CompTIA CloudNetX Certification Exam Sample Questions (Q55-Q60):

NEW QUESTION # 55

A company hosts a cloud-based e-commerce application and only wants the application accessed from certain locations. The network team configures a cloud firewall with WAF enabled, but users can access the application globally. Which of the following should the network team do?

- A. Reconfigure WAF rules
- B. Implement a CDN
- C. Configure a NAT gateway
- D. Configure geo-restriction

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A Web Application Firewall (WAF) is primarily used for inspecting HTTP/HTTPS requests and filtering out malicious traffic, such as SQL injection or cross-site scripting (XSS) attacks. However, WAFs do not restrict access based on geographical location by default.

To control access to the cloud-hosted application based on geographical location, the correct measure is to implement geo-restriction (geo-blocking). This technique limits access to cloud-based resources by using the source IP's geographical origin. Geo-restriction is typically enforced at the cloud firewall or load balancer level.

Relevant Extract from CompTIA CloudNetX CNX-001 Official Objectives:

"Cloud access control policies can enforce geo-restriction settings, ensuring applications and services are only accessible from authorized geographic regions." Also found under "Security Controls in Cloud Deployments" section:

"Geo-restriction uses IP geolocation data to restrict access to services based on geographic criteria, supporting compliance and security requirements."

NEW QUESTION # 56

A network architect must design a new branch network that meets the following requirements:

- * No single point of failure
- * Clients cannot be impacted by changes to the underlying medium
- * Clients must be able to communicate directly to preserve bandwidth

Which of the following network topologies should the architect use?

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

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A Mesh topology provides multiple redundant paths between all nodes, ensuring there is no single point of failure. Clients can communicate directly with each other without passing through a central hub, reducing bottlenecks and preserving bandwidth. Mesh networks are fault tolerant and resilient to changes in the underlying medium, making them ideal for distributed environments requiring high availability.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "WAN and LAN Topologies":

"In a mesh topology, every device is connected to every other device. This design offers fault tolerance and allows for direct communication paths between endpoints, maximizing bandwidth efficiency and eliminating single points of failure." Other options:

- * A. Hub-and-spoke introduces a central point of failure and may limit bandwidth.
- * C. Spine-and-leaf is ideal for data centers but not typically used for branch office designs.
- * D. Star topology relies on a central switch and has a single point of failure.

NEW QUESTION # 57

A network administrator receives a ticket from one of the company's offices about video calls that work normally for one minute and then get very choppy. The network administrator pings the video server from that site to ensure that it is reachable:

□ Which of the following is most likely the cause of the video call issue?

- A. Loss
- B. Jitter
- C. Latency
- D. Throughput

Answer: B

Explanation:

The wildly varying ping response times (from 11 ms up to 849 ms) indicate high packet-delay variation, which causes the video stream to become choppy after a short period. That fluctuation in latency is known as jitter.

NEW QUESTION # 58

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. Disable unused physical ports on the switches to keep unauthorized users out.
- B. Set the administrative interfaces and the network switch ports on the same VLAN.
- C. Upgrade all of the switch firmware to the latest hardware levels.
- D. Connect the switch management ports to a separate physical network.

Answer: D

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 # 59

An architecture team needs to unify all logging and performance monitoring used by global applications across the enterprise to perform decision-making analytics. Which of the following technologies is the best way to fulfill this purpose?

- A. Relational database
- B. Content delivery network
- **C. Data lake**
- D. CIEM

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A data lake is ideal for aggregating structured and unstructured data at scale. It supports storage and analysis of logs, performance metrics, and other telemetry data from various sources. Data lakes enable advanced analytics and machine learning for decision support.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Data Aggregation and Analytics":

"Data lakes allow storage and analysis of high-volume, diverse data types, including logs and monitoring data. They support enterprise-wide visibility and strategic decision-making." Other options:

- * A. Relational databases are optimized for structured data and are less scalable for log aggregation.
- * B. CDNs deliver content, not used for data aggregation.
- * C. CIEM (Cloud Infrastructure Entitlement Management) governs cloud permissions, not logging.

NEW QUESTION # 60

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