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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 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 (Q17-Q22):

NEW QUESTION # 17

A network architect needs to build a new data center for a large company that has business units that process retail financial transactions. Which of the following information should the architect request from the company?

- A. Statement of work
- B. Internal reference architecture
- C. Business case study
- **D. Regulatory requirements**

Answer: D

Explanation:

Before designing a facility that will handle retail financial transactions, you need to understand all applicable compliance and security mandates (e.g. PCI DSS, SOX, GDPR). Those regulatory requirements will drive your choices around physical security, network segmentation, encryption, logging, redundancy, and operational controls, ensuring the data center meets its legal and industry-specific obligations.

NEW QUESTION # 18

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

Answer: C

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 # 19

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

Answer: B

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 # 20

A large commercial enterprise that runs a global video streaming platform recently acquired a small business that serves customers in a geographic area with limited connectivity to the global telecommunications infrastructure. The executive leadership team issued a mandate to deliver the highest possible video streaming quality to all customers around the world. Which of the following solutions should the enterprise architect suggest to meet the requirements?

- **A. Utilize CDN for all customers regardless of geographic location.**
- B. Deploy multiple local load balancers in the newly added geographic area.
- C. Use a geographically weighted DNS solution to distribute the traffic.
- D. Serve the customers in the acquired area with a highly compressed version of content.

Answer: A

Explanation:

A global Content Delivery Network caches and serves video streams from edge nodes close to end users, minimizing latency and packet loss over limited backhaul links and ensuring the highest possible quality everywhere. By offloading traffic to a CDN, even customers in regions with constrained connectivity will receive optimized streams from the nearest POP rather than traversing the congested core network.

NEW QUESTION # 21

A network engineer is designing a Layer 2 deployment for a company that occupies several floors in an office building. The engineer decides to make each floor its own VLAN but still allow for communication between all user VLANs. The engineer also wants to reduce the time necessary for STP convergence to occur when new switches come online. Which of the following should the engineer enable to accomplish this goal?

- A. BPDU Guard
- **B. Portfast**

- Answer: B**

Enabling PortFast on access ports lets them immediately enter the forwarding state, skipping the STP listening/learning timers, and dramatically speeds up convergence when switches or end-stations come online.

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