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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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 4	• 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 (Q17-Q22):

NEW QUESTION # 17

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

Answer: C

Explanation:

A data lake provides a scalable, centralized repository that can ingest and store massive volumes of structured and unstructured data, including logs and performance metrics, from across your global applications. By keeping raw data in its native format, you can run batch and real-time analytics, machine learning, and business-intelligence workloads on one unified platform, making it ideal for enterprise-wide decision-making.

NEW QUESTION # 18

A company's IT department is expected to grow from 100 to 200 employees, and the sales department is expected to grow from 1,000 to a maximum of 2,000 employees. Each employee owns a single laptop with a single IP allocated. The network architect wants to deploy network segmentation using the IP range 10.0.0.0

/8. Which of the following is the best solution?

- A. Allocate 10.1.0.0/16 to the IT department. Allocate 10.2.1.0/25 to the sales department.
- B. Allocate 10.1.0.0/30 to the IT department. Allocate 10.2.0.0/16 to the sales department.
- **C. Allocate 10.1.0.0/22 to the IT department. Allocate 10.2.0.0/15 to the sales department.**
- D. Allocate 10.1.0.0/16 to the IT department. Allocate 10.2.1.0/24 to the sales department.

Answer: C

Explanation:

A /22 gives you 1,022 usable addresses, ample headroom for 200 IT laptops, while a /15 yields 32,766 addresses, covering up to 2,000 sales laptops with room to grow, all within the 10.0.0.0/8 space.

NEW QUESTION # 19

An outage occurred after a software upgrade on core switching. A network administrator thinks that the firmware installed had a bug. Which of the following should the network administrator do next?

- A. Document lessons learned.
- **B. Test the theory to determine cause.**
- C. Establish a plan of action to resolve the issue.
- D. Implement the solution.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

According to the structured troubleshooting methodology outlined in the CNX-001 objectives, once a potential root cause is identified (in this case, a suspected firmware bug), the next step is to test the theory to confirm the cause before taking action. This helps prevent misdiagnosis and unnecessary configuration changes.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Structured Troubleshooting Methodology":

"After identifying symptoms and forming a theory of probable cause, the next step is to test the theory to verify it is the actual cause of the problem." Other options:

- * A. Establishing a plan of action comes after confirming the cause.
- * C. Documenting lessons learned is the final step.
- * D. Implementing the solution should only occur after the issue is confirmed.

NEW QUESTION # 20

A network architect needs to design a new network to connect multiple private data centers. The network must:

- * Provide privacy for all traffic between locations
- * Use preexisting internet connections
- * Use intelligent steering of application traffic over the best path

Which of the following best meets these requirements?

- A. MPLS connections
- B. ExpressRoute
- **C. SD-WAN**
- D. Site-to-site VPN

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

SD-WAN (Software-Defined Wide Area Network) enables private, encrypted connections over public internet links and supports policy-based routing for application-aware traffic steering. It offers centralized management, redundancy, and automatic path selection - all aligned with the stated requirements.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Software-Defined Networking and WAN Optimization":

"SD-WAN uses secure tunnels over the public internet, supports dynamic path selection, and provides application-aware routing, making it ideal for multi-site enterprise connectivity without dedicated links." Other options:

- * A. MPLS requires dedicated circuits and is costly.
- * C. Site-to-site VPN provides security but lacks intelligent traffic steering.
- * D. ExpressRoute is a private connection to Azure, not suited for general internet-based multi-site connectivity.

NEW QUESTION # 21

A company's IT department is expected to grow from 100 to 200 employees, and the sales department is expected to grow from 1,000 to a maximum of 2,000 employees. Each employee owns a single laptop with a single IP allocated. The network architect wants to deploy network segmentation using the IP range 10.0.0.0

/8. Which of the following is the best solution?

- A. Allocate 10.1.0.0/16 to the IT department. Allocate 10.2.1.0/25 to the sales department.

- Answer: C**

* B & D also misallocate resources inefficiently.

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