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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 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 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 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.

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CompTIA CloudNetX Certification Exam Sample Questions (Q31-Q36):

NEW QUESTION # 31
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. Regulatory requirements
- B. Statement of work
- C. Business case study
- D. Internal reference architecture

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
When building infrastructure for business units that process financial transactions (such as in the retail or banking sector), the architect must first understand all relevant compliance and regulatory requirements.
These may include PCI DSS, SOX, or GDPR, depending on the nature of the data and jurisdiction. These regulations influence design decisions regarding encryption, segmentation, data retention, and logging.
Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Compliance and Regulatory Considerations":
"Regulatory requirements such as PCI DSS, HIPAA, and others dictate the security controls, logging, data protection, and architectural design of infrastructure handling sensitive or financial data." Other options:
* B. Statement of Work defines project scope, but doesn't include legal/compliance mandates.
* C. Business case studies illustrate value or ROI, not security or compliance needs.
* D. Internal reference architectures may help with standards but are based on already defined requirements.

NEW QUESTION # 32
A network security engineer must secure a web application running on virtual machines in a public cloud. The virtual machines are behind an application load balancer. Which of the following technologies should the engineer use to secure the virtual machines? (Choose two.)

- A. DLP
- B. SIEM

- C. CDN
- D. IDS
- E. NSG
- F. WAF

Answer: E,F

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
WAF (Web Application Firewall) protects web applications by inspecting HTTP/S traffic to and from the application. It filters, monitors, and blocks malicious traffic and exploits targeting web application vulnerabilities. WAFs are deployed at the edge, often in conjunction with load balancers, and are ideal for mitigating threats like SQL injection, cross-site scripting, and protocol violations. NSG (Network Security Group) is a native security feature offered by many cloud providers (such as Azure), functioning similarly to a firewall. NSGs control inbound and outbound traffic at the virtual network interface, subnet, or VM level, allowing engineers to define allowed or denied traffic rules.
Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide under "Cloud Workload Protection & Security Tools":
"WAFs are critical for protecting web-facing applications in public cloud environments."
"Network Security Groups (NSGs) are used to enforce access policies on cloud-based virtual networks, providing filtering and segmentation at the instance or subnet level."

NEW QUESTION # 33
A network architect is designing a new network for a rural hospital system. Given the following requirements:
* Highly available
* Consistent data transmission
* Resilient to simultaneous failures
Which of the following topologies should the architect use?

- A. Mesh
- B. Collapsed core
- C. Hub-and-spoke
- D. Star

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
A mesh topology provides multiple redundant paths between nodes. It offers the highest availability and fault tolerance by allowing communication to continue even if one or more links or nodes fail. This is especially important in rural healthcare systems where reliability and access to critical services are paramount.
Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Network Topologies and Redundancy Models":
"Mesh topologies provide optimal fault tolerance and support consistent data transmission through redundant links, ideal for mission-critical systems." Other options:
* A. Collapsed core is cost-efficient but not fully redundant.
* B. Hub-and-spoke introduces a single point of failure at the hub.
* D. Star also relies on a central node and is not fault tolerant.

NEW QUESTION # 34
A network architect is designing an expansion solution for the branch office network and requires the following business outcomes:
Maximize cost savings with reduced administration overhead
Easily expand connectivity to the cloud
Use cloud-based services to the branch offices
Which of the following should the architect do to best meet the requirements?

- A. Design point-to-site branch connectivity for offices to headquarters; deploy ExpressRoute and/or DirectConnect between headquarters and the cloud; use headquarters connectivity to connect to the cloud provider.
- B. Design an MPLS architecture for the branch offices and site-to-site VPN between headquarters and branch offices; use site-to-site connectivity to the cloud provider.
- C. Design a dark fiber solution for headquarters and branch offices' connectivity; deploy point-to-site VPN between headquarters and the cloud provider; use the headquarters connectivity to the cloud provider.

- D. Design a SD-WAN solution to integrate with the cloud provider; use SD-WAN to connect branch offices to the cloud provider.

Answer: D

Explanation:
By deploying SD-WAN you centrally manage and orchestrate all branch connections, minimizing administration overhead, while establishing direct, optimized tunnels into the cloud provider for low-latency, scalable access to cloud services.

NEW QUESTION # 35
An organization wants to evaluate network behavior with a network monitoring tool that is not inline. The organization will use the logs for further correlation and analysis of potential threats. Which of the following is the best solution?

- A. SSL decryption of network packets with preconfigured alerts
- B. SNMP trap with log analytics
- C. NetFlow to feed into the SIEM
- D. Syslog to a common dashboard used in the NOC

Answer: C

Explanation:
NetFlow provides detailed, flow-level metadata (source/destination IPs, ports, protocols, byte counts, timestamps) without sitting inline. By exporting these records into your SIEM, you gain centralized logging and can correlate network behaviors with other security events for threat detection and analysis.

NEW QUESTION # 36
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