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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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.
Topic 4	<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.

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CompTIA CloudNetX Certification Exam Sample Questions (Q35-Q40):

NEW QUESTION # 35

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

Answer: B

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 # 36

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. Deploy multiple local load balancers in the newly added geographic area.

- B. Use a geographically weighted DNS solution to distribute the traffic.
- C. Serve the customers in the acquired area with a highly compressed version of content.
- D. Utilize CDN for all customers regardless of geographic location.

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A Content Delivery Network (CDN) distributes content across geographically distributed edge locations to provide faster access and higher quality to users, especially in areas with suboptimal connectivity to central data centers. By caching and serving content from edge servers near users, CDNs reduce latency and improve streaming performance globally.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "CDN and Cloud Edge Services":

"CDNs provide globally distributed edge nodes for content caching and delivery, ensuring low-latency, high-bandwidth access for end users regardless of their location." Other options:

- * A. Reduces quality, contrary to the stated goal.
- * B. DNS-based routing helps with direction but does not solve content delivery or bandwidth issues.
- * C. Load balancers help distribute traffic locally, but do not provide edge caching or bandwidth optimization.

NEW QUESTION # 37

A network architect needs to design a solution to ensure every cloud environment network is built to the same baseline. The solution must meet the following requirements:

- * Use automated deployment.
- * Easily update multiple environments.
- * Share code with a community of practice.

Which of the following are the best solutions? (Choose two.)

- A. Deployment guides
- B. Private code repository
- C. Deployment runbooks
- D. Automated image deployment
- E. Public code repository
- F. CI/CD pipelines

Answer: E,F

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A: CI/CD pipelines - Continuous Integration and Continuous Deployment (CI/CD) pipelines allow automated and repeatable deployments of infrastructure and application code. This ensures consistency across environments and supports rapid, reliable updates to multiple environments simultaneously.

B: Public code repository - A public repository (e.g., GitHub, GitLab public projects) allows sharing code with the broader community of practice, enabling collaboration, peer review, and reuse. It supports version control and standardized deployment scripts (e.g., Terraform, Ansible).

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Infrastructure as Code and Automation Pipelines":

"CI/CD pipelines enable automated, consistent deployments across environments, reducing manual configuration errors."

"Public repositories facilitate code sharing and collaboration, supporting standardized infrastructure templates." Other options:

- * C. Deployment runbooks are static and not inherently automated.
- * D. Private repositories restrict sharing, conflicting with the requirement to share code.
- * E. Image deployment refers to server builds, not full network configuration.
- * F. Deployment guides are manual documents, not automation tools.

NEW QUESTION # 38

A network architect is designing a solution to place network core equipment in a rack inside a data center.

This equipment is crucial to the enterprise and must be as secure as possible to minimize the chance that anyone could connect directly to the network core. The current security setup is:

In a locked building that requires sign in with a guard and identification check.

In a locked data center accessible by a proximity badge and fingerprint scanner.

In a locked cabinet that requires the security guard to call the Chief Information Security Officer (CISO) to get permission to provide the key.

Which of the following additional measures should the architect recommend to make this equipment more secure?

- A. Require anyone entering the data center for any reason to undergo a background check.
- B. Have the CISO accompany any network engineer that needs to do work in this cabinet.
- **C. Set up a video surveillance system that has cameras focused on the cabinet.**
- D. Make all engineers with access to the data center sign a statement of work.

Answer: C

Explanation:

Recording and monitoring all activity at the cabinet greatly strengthens security by providing a real-time deterrent, an audit trail of who accessed it and when, and forensic evidence if an incident ever occurs.

NEW QUESTION # 39

A company has a 40Gbps network that uses a network tap to inspect the traffic using an IDS. The IDS usually performs normally except when the servers are downloading patches from their local update repository 10.10.10.139 using HTTPS. During the patch windows, the IDS cannot handle the extra load and drops a significant number of packets. Which of the following would allow a network engineer to prevent this issue without compromising the network visibility?

- A. Adding a "dst host 10.10.10.139" BPF on the tap
- B. Scheduling a cron job to stop the IDS service during the patch window
- **C. Using PF_RING offload to filter out "host 10.10.10.139 and port 443"**
- D. Configuring the IDS to ignore traffic from 10.10.10.139

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

PF_RING is a high-performance packet capture and filtering framework that allows IDS systems to handle large volumes of traffic efficiently. By offloading and filtering out traffic that is known and trusted (such as HTTPS traffic from a patch server), the IDS can focus on analyzing critical traffic and reduce dropped packets.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Traffic Filtering and IDS Performance Optimization": "Advanced filtering solutions like PF_RING allow offloading of known trusted traffic, reducing processing overhead on IDS systems and improving visibility into meaningful events." Other options:

- * A. Directly configuring the IDS to ignore traffic may bypass too much, affecting visibility.
- * C. BPF filters on the tap itself may interfere with other systems using the tap.
- * D. Disabling the IDS temporarily removes all visibility - a poor security practice.

NEW QUESTION # 40

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