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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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 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.

CompTIA CloudNetX Certification Exam Sample Questions (Q30-Q35):

NEW QUESTION # 30

Which of the following helps the security of the network design to align with industry best practices?

- **A. Reference architectures**
- B. Service-level agreement
- C. Licensing agreement
- D. Memorandum of understanding

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Reference architectures are pre-defined templates or blueprints provided by vendors, standardsbodies, or industry alliances (e.g., NIST, CIS, vendor frameworks) that define recommended practices for secure and reliable infrastructure design. They help ensure alignment with compliance, security controls, and industry- recognized configurations.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Architecture Standards and Security Best Practices":

"Reference architectures guide the implementation of secure, scalable, and compliant infrastructure. They embody industry best practices and reduce misconfiguration risks in cloud and hybrid environments." Other options:

* B. Licensing agreements pertain to software usage rights, not security alignment.

* C. SLAs define service expectations, not design standards.

* D. MOUs are informal agreements between parties, not technical or security frameworks.

NEW QUESTION # 31

A network administrator is troubleshooting an outage at a remote site. The administrator examines the logs and determines that one of the internet links at the site appears to be down. After the service provider confirms this information, the administrator fails over

traffic to the backup link. Which of the following should the administrator do next?

- A. Identify the problem.
- **B. Verify full system functionality.**
- C. Document the lessons learned.
- D. Establish a plan of action.

Answer: B

Explanation:

After implementing the failover solution, you should confirm that all services and network paths are fully restored and operating correctly before closing the ticket.

NEW QUESTION # 32

A company is expanding its network and needs to ensure improved stability and reliability. The proposed solution must fulfill the following requirements:

- * Detection and prevention of network loops
- * Automatic configuration of ports
- * Standard protocol (not proprietary)

Which of the following protocols is the most appropriate?

- A. BGP
- **B. STP**
- C. SIP
- D. RTSP

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

STP (Spanning Tree Protocol) is a Layer 2 standard protocol that prevents switching loops in Ethernet networks by creating a loop-free logical topology. It can automatically block and unblock redundant paths based on network changes, ensuring reliability and avoiding broadcast storms.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Ethernet Loop Prevention and Switching Protocols": "STP is a standard Layer 2 protocol used to detect and prevent network loops, enhancing network stability in switched topologies."

Other options:

- * B. SIP is a signaling protocol used in VoIP.
- * C. RTSP is for media streaming control.
- * D. BGP is a routing protocol, not for Layer 2 loop prevention.

NEW QUESTION # 33

End users are getting certificate errors and are unable to connect to an application deployed in a cloud. The application requires HTTPS connection. A network solution architect finds that a firewall is deployed between end users and the application in the cloud. Which of the following is the root cause of the issue?

- A. The firewall on the application server has port 443 blocked.
- **B. The firewall has an expired certificate while SSL/HTTPS inspection is enabled.**
- C. The end users do not have certificates on their laptops.
- D. The firewall has port 443 blocked while SSL/HTTPS inspection is enabled.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When SSL/HTTPS inspection is enabled on a firewall, it intercepts and decrypts HTTPS traffic. This requires the firewall to present its own trusted certificate to the client device. If that certificate is expired, the client browser will display a certificate error and block access to the application. This is a common misconfiguration that breaks HTTPS communication.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "TLS/SSL Inspection and Certificate Management": "SSL inspection appliances must have valid certificates installed. Expired or untrusted certificates will result in browsers rejecting the

HTTPS session and displaying errors to users." Other options:

- * A. Would prevent connection, but not result in certificate errors.
- * B. Blocked port 443 would prevent any connection, not cause cert errors.
- * C. Client-side certificates are not required unless mutual TLS is configured, which is not stated here.

NEW QUESTION # 34

After a company migrated all services to the cloud, the security auditor discovers many users have administrator roles on different services. The company needs a solution that:

- * Protects the services on the cloud
- * Limits access to administrative roles
- * Creates a policy to approve requests for administrative roles on critical services within a limited time
- * Forces password rotation for administrative roles
- * Audits usage of administrative roles

Which of the following is the best way to meet the company's requirements?

- A. Session-based token
- **B. Privileged access management**
- C. Access control list
- D. Conditional access

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Privileged Access Management (PAM) is the optimal solution to control, audit, and secure administrative access to systems and services. PAM enables role-based approval workflows, time-limited access, auditing, and credential rotation, fully aligning with the requirements.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Identity and Access Controls":

"Privileged Access Management allows fine-grained control over administrator-level access, supports just-in-time access provisioning, password rotation, and audit logging." Other options:

- * B. Session-based tokens allow temporary access but do not enforce policies or auditing.
- * C. Conditional access provides policy enforcement based on context but lacks full PAM features.
- * D. ACLs control access to resources but don't manage privilege workflows or audits.

NEW QUESTION # 35

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