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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 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 3	• 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 4	• 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.

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CompTIA CloudNetX Certification Exam Sample Questions (Q38-Q43):

NEW QUESTION # 38
A company is replacing reserved public IP addresses with dynamic IP addresses. The network architect creates a list of assets with some dependencies to these reserved IPs:

IP	Used by
IP_US_Reserved_A	Allow rule on NSG_1
IP_CA_Reserved_B	Allow rule on NSG_2
IP_BR_Reserved_C	VM A - Network Interface 1
IP_BR_Reserved_D	Network Load Balancer IP 1
IP_GB_Reserved_E	Not allocated

(Refer to image: Reserved IPs are in use by NSGs, VMs, load balancers, and one is unallocated.) Which of the following issues may begin to affect cloud assets after the replacement is made?

- A. IP spoofing
- B. IP reuse
- C. IP asymmetric routing
- D. IP exhaustion

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Replacing reserved IPs with dynamic ones can lead to IP reuse issues. Dynamic public IPs can be reallocated to other customers once released. If DNS entries or firewall rules still refer to the original IP, this can lead to data leakage or incorrect routing. Also, some services (e.g., NSGs, load balancers) may require persistent IPs.
Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Public IP Management in Cloud Environments":

"Dynamic public IPs are subject to reuse after release. Services that rely on IP persistence, such as security groups or load balancers, may encounter unexpected behavior or security risks if replaced with dynamically assigned IPs." Other options:
* A. Asymmetric routing involves traffic leaving and returning via different paths.
* B. IP spoofing is a malicious attack, not related to address reassignment.
* C. IP exhaustion relates to resource limits, not dynamic reuse.

NEW QUESTION # 39

A network architect is designing a solution to secure the organization's applications based on the security policy. The requirements are:
Users must authenticate using one set of credentials.
External users must be located in authorized sites.
Session timeouts must be enforced.
Network access requirements should be changed as needed.
Which of the following best meet these requirements? (Choose two.)

- A. Role-based access
- B. Risk-based authentication
- C. Single sign-on
- D. Multifactor authentication
- E. Conditional access policy
- F. Static IP allocation

Answer: C,E

Explanation:
Single sign-on: Provides users with one set of credentials for authentication across all applications, simplifying access and reducing password fatigue.
Conditional access policy: Enforces location-based restrictions for external users, configurable session timeouts, and dynamic network access controls that can be updated as requirements evolve.

NEW QUESTION # 40

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

Answer: C

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 # 41

An administrator needs to add a device to the allow list in order to bypass user authentication of an AAA system. The administrator uses MAC filtering and needs to discover the device's MAC address to accomplish this task. The device receives an IP address from DHCP, but the IP address changes daily. Which of the following commands should the administrator run on the device to locate its MAC address?

- A. nslookup
- B. netstat -an

- C. ipconfig /all
- D. arp -a

Answer: C

Explanation:
Running ipconfig /all on the device will display the physical (MAC) address of each network adapter, allowing you to copy the correct MAC for your allow-list entry.

NEW QUESTION # 42
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 10.2.1.0/24 to the sales department.
- B. Allocate 10.1.0.0/16 to the IT department. Allocate 10.2.1.0/25 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 10.1.0.0/30 to the IT department. Allocate 10.2.0.0/16 to the sales department.

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
To accommodate 200 devices in IT and 2,000 devices in Sales, subnetting must allow for appropriate address allocation:
* /22 provides 1,024 addresses # sufficient for IT (200 users)
* /15 provides 65,536 addresses # more than sufficient for Sales (2,000 users) Option C ensures both departments are placed in separate, appropriately sized segments within the private
10.0.0.0/8 range.
Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "IP Addressing and Subnetting":
"Proper subnetting ensures sufficient host addresses and supports future growth. Network segmentation improves manageability and security." Other options:
* A. /30 provides only 2 usable IPs - insufficient for IT.
* B & D: /24 and /25 do not support 2,000 users in Sales.
* B & D also misallocate resources inefficiently.

NEW QUESTION # 43
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