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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 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 3	<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 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 (Q67-Q72):

NEW QUESTION # 67

A network administrator is troubleshooting a user's workstation that is unable to connect to the company network. The results of ipconfig and arp -a are shown. The user's workstation:

A router on the same network shows the following output:

- * Has an IP address of 10.21.12.8
- * Has subnet mask 255.255.255.0
- * Default gateway is 10.21.12.254
- * ARP table shows 10.21.12.8 mapped to 1A-21-11-31-74-4C (a different MAC address than the local adapter)

- A. Broadcast storm
- **B. IP address conflict**
- C. DHCP server down
- D. Asynchronous routing

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The local machine has the IP address 10.21.12.8 and the physical address 1A-21-11-33-44-5A. However, the ARP table shows that 10.21.12.8 is mapped to a different MAC address (1A-21-11-31-74-4C), meaning another device on the network is responding to ARP requests for the same IP. This is a clear sign of an IP address conflict, which would prevent the workstation from functioning properly on the network.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Troubleshooting IP Addressing Issues":

"An IP conflict occurs when two devices on the same network are assigned the same IP address. Symptoms include connectivity loss, duplicate ARP entries, and inconsistent routing behavior." Other options:

- * A. Asynchronous routing refers to packets taking different return paths, which is unrelated to ARP inconsistencies.
- * C. DHCP server issues would affect IP assignment but are not indicated here - the workstation has an IP address assigned.

NEW QUESTION # 68

A network architect must design a new branch network that meets the following requirements:

- * No single point of failure
- * Clients cannot be impacted by changes to the underlying medium
- * Clients must be able to communicate directly to preserve bandwidth

Which of the following network topologies should the architect use?

- **A. Mesh**
- B. Hub-and-spoke
- C. Star
- D. Spine-and-leaf

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A Mesh topology provides multiple redundant paths between all nodes, ensuring there is no single point of failure. Clients can communicate directly with each other without passing through a central hub, reducing bottlenecks and preserving bandwidth. Mesh networks are fault tolerant and resilient to changes in the underlying medium, making them ideal for distributed environments requiring high availability.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "WAN and LAN Topologies":

"In a mesh topology, every device is connected to every other device. This design offers fault tolerance and allows for direct communication paths between endpoints, maximizing bandwidth efficiency and eliminating single points of failure." Other options:

- * A. Hub-and-spoke introduces a central point of failure and may limit bandwidth.
- * C. Spine-and-leaf is ideal for data centers but not typically used for branch office designs.
- * D. Star topology relies on a central switch and has a single point of failure.

NEW QUESTION # 69

A network engineer is setting up guest access on a Wi-Fi network. After a recent network analysis, the engineer discovered that a user could access the guest network and attack the corporate network, since the networks share the same VLAN. Which of the following should the engineer do to prevent an attack like this one from happening?

- A. Set up a strong password on the guest wireless network.
- B. Set up a MAC filtering rule and add the MAC addresses of all corporate devices to the allow list.
- **C. Configure Layer 2 client isolation for the wireless network.**
- D. Set up a captive portal so all guest users have to register before gaining access to the wireless network.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Layer 2 client isolation ensures that devices connected to the same wireless network (such as a guest SSID) cannot communicate with each other or other VLANs. This prevents guest users from scanning or attacking internal devices. It's a fundamental security control for guest Wi-Fi access.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Wireless Network Segmentation and Security":

"Client isolation prevents peer-to-peer attacks over Wi-Fi by ensuring wireless clients cannot communicate with one another, a necessary control on shared guest networks." Other options:

- * B. MAC filtering is easy to spoof and hard to manage at scale.
- * C. Strong passwords improve access control but don't isolate guest traffic.
- * D. Captive portals add a registration layer but don't address VLAN or broadcast isolation.

NEW QUESTION # 70

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:

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 # 71

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

Answer: A

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 # 72

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