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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 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 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.

CNX-001 Learning Materials: CompTIA CloudNetX Certification Exam - CNX-001 Actual Lab Questions

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CompTIA CloudNetX Certification Exam Sample Questions (Q24-Q29):

NEW QUESTION # 24
You are designing a campus network with a three-tier hierarchy and need to ensure secure connectivity between locations and traveling employees.
INSTRUCTIONS
Review the command output by clicking on the server, laptops, and workstations on the network.
Use the drop-down menus to determine the appropriate technology and label for each layer on the diagram.
Options may only be used once.
Click on the magnifying glass to make additional configuration changes.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Answer:

Explanation:

NEW QUESTION # 25
An outage occurred after a software upgrade on core switching. A network administrator thinks that the firmware installed had a bug. Which of the following should the network administrator do next?

- A. Implement the solution.
- B. Document lessons learned.
- C. Establish a plan of action to resolve the issue.
- D. Test the theory to determine cause.

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
According to the structured troubleshooting methodology outlined in the CNX-001 objectives, once a potential root cause is

identified (in this case, a suspected firmware bug), the next step is to test the theory to confirm the cause before taking action. This helps prevent misdiagnosis and unnecessary configuration changes.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Structured Troubleshooting Methodology":

"After identifying symptoms and forming a theory of probable cause, the next step is to test the theory to verify it is the actual cause of the problem." Other options:

* A. Establishing a plan of action comes after confirming the cause.
* C. Documenting lessons learned is the final step.
* D. Implementing the solution should only occur after the issue is confirmed.

NEW QUESTION # 26

A network administrator is troubleshooting a user's workstation that is unable to connect to the company network. The results of commands the administrator runs on the workstation are shown below:

A router on the same network shows the following output:

Which of the following is the most likely cause of the issues?

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

Answer: C

NEW QUESTION # 27

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. DHCP server down
- C. IP address conflict
- D. Asynchronous routing

Answer: C

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 # 28

As part of a project to modernize a sports stadium and improve the customer service experience for fans, the stadium owners want to implement a new wireless system. Currently, all tickets are electronic and managed by the stadium mobile application. The new solution is required to allow location tracking precision within 5ft (1.5m) of fans to deliver the following services:

* Emergency/security assistance
* Mobile food order

* Event special effects
* Raffle winner location displayed on the giant stadium screen
Which of the following technologies enables location tracking?

- A. SSID
- B. NFC
- C. BLE
- D. IoT

Answer: C

Explanation:
BLE (Bluetooth Low Energy) is a wireless personal area network (WPAN) technology designed for applications that require lower energy consumption and reduced cost while maintaining a communication range similar to classic Bluetooth. BLE supportslocation tracking with an accuracy range typically between 1 to 2 meters (approximately 3 to 6 feet), making it ideal for applications that demandfine-grained location services, such as stadium services requiring real-time user proximity data.
According to theCompTIA CloudNetX CNX-001 Official Objectives, under theNetwork Architecture domain, specifically in the subdomain:
"Wireless Technologies: Identify capabilities of BLE, NFC, RFID, and IoT devices within a network environment,"it is outlined that:
* "BLE enables proximity-based services and real-time indoor location tracking with high accuracy when used with beacon infrastructure."
* "BLE beacons can be deployed throughout a physical space, transmitting signals received by mobile applications to determine a user's location within a few feet."
* "BLE is widely adopted for use cases including indoor navigation, asset tracking, and personalized user engagement, making it a critical technology for modern high-density venues such as stadiums." In comparison:
* SSIDmerely identifies a wireless network and has no location tracking function.
* NFCrequires close contact (under 4 cm), and is not suitable for continuous or broad-range tracking.
* IoTis an overarching category that includes connected devices and sensors; however, IoT is not a standalone location tracking technology. It may include BLE as a component, butBLE specifically provides the precise location tracking functionality.
These distinctions are explicitly addressed in theCompTIA CloudNetX CNX-001 Study Guide, under the section:
* "Emerging Network Technologies and Architectures", where BLE is described as a key enabling technology for context-aware and location-based services in enterprise and public environments.

NEW QUESTION # 29
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