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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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 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.

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ValidBraindumps CompTIA CloudNetX Certification Exam (CNX-001) practice test has real CompTIA CloudNetX Certification Exam (CNX-001) exam questions. You can change the difficulty of these questions, which will help you determine what areas appertain to more study before taking your CompTIA CNX-001 Exam Dumps. Here we listed some of the most important benefits you can get from using our CompTIA CNX-001 practice questions.

CompTIA CloudNetX Certification Exam Sample Questions (Q72-Q77):

NEW QUESTION # 72

A company is experiencing numerous network issues and decides to expand its support team. The new junior employees will need to be onboarded in the shortest time possible and be able to troubleshoot issues with minimal assistance. Which of the following should the company create to achieve this goal?

- A. A mentor program for guiding each junior employee until they are familiar with the networking infrastructure
- B. Statement of work documenting what each junior employee should do when troubleshooting
- C. Physical and logical network diagrams of the entire networking infrastructure
- **D. Clearly documented runbooks for networking issues and knowledge base articles**

Answer: D

Explanation:

Runbooks provide step-by-step troubleshooting procedures, and a solid knowledge base captures known issues and resolutions. Together they let new team members ramp up quickly and resolve common network problems with minimal hand-holding.

NEW QUESTION # 73

A company provides an API that runs on the public cloud for its customers. A fixed number of VMs host the APIs. During peak hours, the company notices a spike in usage that results in network communication speeds slowing down for all customers. The management team has decided that access for all customers should be fair and accessible at all times. Which of the following is the most cost-effective way to address this issue?

- A. Increase the number of VMs running APIs.
- B. Increase the MTU on the VMs.
- **C. Enable throttling on APIs.**

- D. Use an allow list for customers using APIs.

Answer: C

Explanation:

Implementing request throttling (rate limiting) lets you cap how many requests each customer can make per time unit. This ensures no single user can saturate the API servers, providing fair access across all customers without the recurring costs of adding more VMs.

NEW QUESTION # 74

A customer asks a MSP to propose a ZTA (Zero Trust Architecture) design for its globally distributed remote workforce. Given the following requirements:

- * Authentication should be provided through the customer's SAML identity provider.
- * Access should not be allowed from countries where the business does not operate.
- * Secondary authentication should be added to the workflow to allow for passkeys.
- * Changes to the user's device posture and hygiene should require reauthentication into the network.
- * Access to the network should only be allowed to originate from corporate-owned devices.

Which of the following solutions should the MSP recommend to meet the requirements?

- A. Enforce posture assessment only during the initial network log-on.
Implement RADIUS for SSO.
Restrict access from all non-U.S. IP addresses.
Configure a BYOD access policy.
Disable auditing for remote access.
- B. Chain the existing identity provider to a new SAML.
Require the use of time-based one-time passcode hardware tokens.
Enable debug logging on the VPN clients by default.
Disconnect users from the network only if their IP address changes.
- C. Configure geolocation settings to block certain IP addresses.
Enforce MFA.
Federate the solution via SSO.
Enable continuous access policies on the WireGuard tunnel.
Create a trusted endpoints policy.
- D. Enforce certificate-based authentication.
Permit unauthenticated remote connectivity only from corporate IP addresses.
Enable geofencing.
Use cookie-based session tokens that do not expire for remembering user log-ins.
Increase RADIUS server timeouts.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

D includes all the key elements of Zero Trust:

- * MFA (Multi-Factor Authentication) supports secondary passkey-based authentication.
- * Geolocation settings enforce geo-restrictions.
- * SSO federation allows use of an existing SAML identity provider.
- * Continuous access policies support dynamic reauthentication based on changes in posture.
- * Trusted endpoint policies ensure only corporate-owned, compliant devices are allowed to connect.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Zero Trust Architecture and Identity Management":

"ZTA enforces continuous access policies that monitor session state, posture, and user behavior."

"Federated identity with SSO and posture-based trust evaluation are core ZTA components."

"Geo-restrictions and trusted endpoint policies limit exposure and enforce device compliance." Other options:

- * A uses static session tokens and disables timely expiration, violating Zero Trust principles.
- * B allows BYOD and disables auditing, which conflicts with compliance and monitoring.

NEW QUESTION # 75

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

Answer: B

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 # 76

A network engineer is working on securing the environment in the screened subnet. Before penetration testing, the engineer would like to run a scan on the servers to identify the OS, application versions, and open ports. Which of the following commands should the engineer use to obtain the information?

- A. `tcpdump -ni eth0 src net 10.10.10.0/28`
- B. `nc -v -n 10.10.10.x 1-1000`
- C. `hping3 -l 10.10.10.x -rand-dest -I eth0`
- **D. `nmap -A 10.10.10.0/28`**

Answer: D

Explanation:

The -A flag enables aggressive scanning, which combines OS detection, version detection, script scanning, and traceroute to give you detailed information on hosts in the 10.10.10.0/28 range.

NEW QUESTION # 77

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