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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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 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 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.

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

NEW QUESTION # 24

After a malicious actor used an open port in a company's lobby, a network architect needs to enhance network security. The solution must enable:

- * Security posture check
- * Auto remediation capabilities
- * Network isolation
- * Device and user authentication

Which of the following technologies best meets these requirements?

- A. NAC
- B. Microsegmentation
- C. 802.1X
- D. IPS

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Network Access Control (NAC) evaluates the posture of a device before allowing access to the network. It can enforce security policies, authenticate users and devices, and isolate or remediate non-compliant devices.

NAC is widely used in enterprise environments to secure access at the network edge, such as in guest or public areas.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Access Control and Posture Assessment":

"NAC provides device authentication, security posture validation, and can enforce automated remediation or quarantine actions based on policy compliance." Other options:

- * A. IPS detects and prevents known threats but does not perform access control or posture checks.
- * B. Microsegmentation isolates workloads but lacks posture checks and auto-remediation.

NEW QUESTION # 25

A company hosts a cloud-based e-commerce application and only wants the application accessed from certain locations. The network team configures a cloud firewall with WAF enabled, but users can access the application globally. Which of the following should the network team do?

- A. Implement a CDN
- B. Configure geo-restriction
- C. Reconfigure WAF rules
- D. Configure a NAT gateway

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A Web Application Firewall (WAF) is primarily used for inspecting HTTP/HTTPS requests and filtering out malicious traffic, such as SQL injection or cross-site scripting (XSS) attacks. However, WAFs do not restrict access based on geographical location by default.

To control access to the cloud-hosted application based on geographical location, the correct measure is to implement geo-

restriction (geo-blocking). This technique limits access to cloud-based resources by using the source IP's geographical origin. Geo-restriction is typically enforced at the cloud firewall or load balancer level.

Relevant Extract from CompTIA CloudNetX CNX-001 Official Objectives:

"Cloud access control policies can enforce geo-restriction settings, ensuring applications and services are only accessible from authorized geographic regions." Also found under "Security Controls in Cloud Deployments" section:

"Geo-restriction uses IP geolocation data to restrict access to services based on geographic criteria, supporting compliance and security requirements."

NEW QUESTION # 26

An organization wants to evaluate network behavior with a network monitoring tool that is not inline. The organization will use the logs for further correlation and analysis of potential threats. Which of the following is the best solution?

- A. SNMP trap with log analytics
- B. Syslog to a common dashboard used in the NOC
- C. SSL decryption of network packets with preconfigured alerts
- **D. NetFlow to feed into the SIEM**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

NetFlow provides flow-level metadata about IP traffic without requiring inline deployment. It summarizes who is talking to whom, for how long, and how much data was exchanged. It's ideal for behavior monitoring and threat detection when sent to a SIEM for correlation and analysis.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "NetFlow and Network Telemetry":

"NetFlow provides visibility into traffic patterns, which can be used for anomaly detection and security analysis when integrated with SIEM platforms." Other options:

- * A. Syslog shows event-level data, but not network behavior.
- * B. SNMP traps monitor device status, not traffic behavior.
- * C. SSL decryption is complex and requires inline positioning

NEW QUESTION # 27

A network architect needs to design a solution to ensure every cloud environment network is built to the same baseline. The solution must meet the following requirements:

- * Use automated deployment.
- * Easily update multiple environments.
- * Share code with a community of practice.

Which of the following are the best solutions? (Choose two.)

- A. Automated image deployment
- **B. CI/CD pipelines**
- **C. Public code repository**
- D. Deployment runbooks
- E. Deployment guides
- F. Private code repository

Answer: B,C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A: CI/CD pipelines - Continuous Integration and Continuous Deployment (CI/CD) pipelines allow automated and repeatable deployments of infrastructure and application code. This ensures consistency across environments and supports rapid, reliable updates to multiple environments simultaneously.

B: Public code repository - A public repository (e.g., GitHub, GitLab public projects) allows sharing code with the broader community of practice, enabling collaboration, peer review, and reuse. It supports version control and standardized deployment scripts (e.g., Terraform, Ansible).

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Infrastructure as Code and Automation Pipelines":

"CI/CD pipelines enable automated, consistent deployments across environments, reducing manual configuration errors."

"Public repositories facilitate code sharing and collaboration, supporting standardized infrastructure templates." Other options:

- * C. Deployment runbooks are static and not inherently automated.
- * D. Private repositories restrict sharing, conflicting with the requirement to share code.
- * E. Image deployment refers to server builds, not full network configuration.
- * F. Deployment guides are manual documents, not automation tools.

NEW QUESTION # 28

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:

```
c:\>ipconfig /all
Windows IP Configuration
Ethernet adapter Ethernet 1:
    Physical Address. . . : 1A-21-11-33-44-5A
    DHCP Enabled. . . . : Yes
    IPv4 Address. . . . . : 10.21.12.8
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . : 10.21.12.254
```

A router on the same network shows the following output:

```
#arp -a
Internet Address          Physical Address
10.21.12.254             12-34-56-78-9a-bc
10.21.12.255             ff-ff-ff-ff-ff-ff
10.21.12.2               1A-21-11-2F-1E-11
10.21.12.3               1A-21-11-1B-2C-44
10.21.12.8               1A-21-11-31-74-4C
10.21.12.10              1A-21-11-43-10-BB
```

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

Answer: A

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.

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