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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 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 3 | <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. |
| Topic 4 | <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. |

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CompTIA CloudNetX Certification Exam Sample Questions (Q30-Q35):

NEW QUESTION # 30

A network load balancer is not correctly validating a client TLS certificate. The network architect needs to validate the certificate installed on the load balancer before progressing. Which of the following commands should the architect use to confirm whether the private key and certificate match?

- A. openssl req -in certificate.csr -verify
openssl-verify -noout -modulus -in privkey.txt | openssl md5
- B. openssl x509 -noout -modulus -in cert.crt | openssl md5
openssl rsa -noout -modulus -in privkey.txt | openssl md5
- C. openssl-rsa -noout -modulus -in cert.crt | openssl md5
openssl-verify -noout -modulus -in privkey.txt | openssl md5
- D. openssl-list -noout -modulus -in cert.crt | openssl md5
openssl rsa -noout -modulus -in privkey.txt | openssl md5

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To verify that the certificate and the private key match, one can extract the modulus from both files and compare their hash values. The correct syntax involves using openssl x509 to extract the modulus from the certificate, and openssl rsa to extract the modulus from the private key, followed by an MD5 hash to ensure they match.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "TLS/SSL Certificate Validation and Troubleshooting":

"To verify that the private key and certificate match, compare the modulus values. A mismatch results in failed TLS handshakes."

Other options:

* A & C: Incorrect syntax (openssl-list and openssl-rsa are not valid commands).

* B: The commands shown are used to verify CSRs, not matching keys.

NEW QUESTION # 31

A network architect is designing a solution to place network core equipment in a rack inside a data center.

This equipment is crucial to the enterprise and must be as secure as possible to minimize the chance that anyone could connect directly to the network core. The current security setup is:

In a locked building that requires sign in with a guard and identification check.

In a locked data center accessible by a proximity badge and fingerprint scanner.

In a locked cabinet that requires the security guard to call the Chief Information Security Officer (CISO) to get permission to provide the key.

Which of the following additional measures should the architect recommend to make this equipment more secure?

- A. Make all engineers with access to the data center sign a statement of work.
- B. Have the CISO accompany any network engineer that needs to do work in this cabinet.
- C. Set up a video surveillance system that has cameras focused on the cabinet.
- D. Require anyone entering the data center for any reason to undergo a background check.

Answer: C

Explanation:

Recording and monitoring all activity at the cabinet greatly strengthens security by providing a real-time deterrent, an audit trail of who accessed it and when, and forensic evidence if an incident ever occurs.

NEW QUESTION # 32

A user reports an issue connecting to a database server. The front-end application for this database is hosted on the company's web server. The network engineer has changed the network subnet that the company servers are located on along with the IP addresses of the servers. These are the new configurations:

New subnet for the servers is 10.10.10.64/27



Web server IP address is 10.10.10.101

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Database server IP is 10.10.10.93

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Which of the following is most likely causing the user's issue?

- A. The web application server is not forwarding the requests.
- B. The database server firewall is blocking the port to the database.
- C. The DNS server is not resolving properly.
- **D. The web server does not have the correct network configuration.**

Answer: D

Explanation:

With a /27 mask on 10.10.10.64/27, valid host addresses run from 10.10.10.65 through 10.10.10.94. The database server's IP (10.10.10.93) is in that range, but the web server's IP (10.10.10.101) falls outside it-so it's mis-configured and cannot reach the database.

NEW QUESTION # 33

A developer reports errors when trying to access a web application. The developer uses Postman to troubleshoot and receives the following error:

- * HTTP Status: 403 Forbidden
- * Headers include authentication-related variables such as access_key, signature, salt, and timestamp
- * The request is a GET request to a payment methods API

GET New request QAAP

Payment collection / New request

GET `{{base_url}}/payment_methods/country?country=US¤cy=USD`

Parameters Authorization Headers (11) Body Pre-request script Tests Settings

Headers 6 hidden

| Key | Value | Description |
|--|--|-------------|
| <input checked="" type="checkbox"/> access_key | <code>{{rapyd_access_key}}</code> | |
| <input checked="" type="checkbox"/> signature | <code>{{rapyd_signature}}</code> | |
| <input checked="" type="checkbox"/> salt | <code>{{rapyd_signature_salt}}</code> | |
| <input checked="" type="checkbox"/> timestamp | <code>{{rapyd_request_timestamp}}</code> | |
| <input checked="" type="checkbox"/> content-type | application/json | |
| Key | Value | Description |

Body Cookies Headers (5) Test results

Pretty Raw Preview Visualize HTML

```

1 <html>
2
3 <head>
4   <title>403 Forbidden</title>
5 </head>
6
7 <body>
8   <center>
9     <h1>403 Forbidden</h1>
10  </center>
11 </body>
12
13 </html>

```

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Which of the following is the cause of the issue?

- A. Requested element not found
- **B. Lack of user authentication**
- C. Too restrictive NGFW rule
- D. Incorrect HTTP redirection

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A 403 Forbidden error indicates that the request was understood by the server but is refusing to fulfill it due to insufficient authorization. The developer is attempting to call a protected API that requires valid credentials such as an access key and signature (often used in HMAC-based APIs), but the values appear as Postman variables (e.g., `{{rapyd_access_key}}`), which suggests they were not replaced with actual credentials.

This typically means that the request lacks proper authentication or authorization headers, or the keys

/signature are incorrect or missing. The presence of `access_key`, `signature`, `salt`, and `timestamp` in the request implies the API requires authentication, but the variables were not resolved or valid.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "API Security and Authentication":

"A 403 error typically results from failed authentication or lack of proper authorization. Developers must ensure that tokens or signatures are valid, not missing, and properly injected." Other options:

- * A. 404 is the code for a missing resource, not 403.
- * C. A firewall rule would block the request entirely (e.g., no response or a 0 status), not result in a 403 from the server.
- * D. HTTP redirection issues typically result in 3xx codes, not 403.

NEW QUESTION # 34

A network engineer needs to implement a cloud native solution. The solution must allow the recording of network conversation metadata of the host and appliances attached to a VPC. Which of the following will accomplish these goals with the least effort?

- **A. Enabling network flow**
- B. Implementing QoS network tagging
- C. Configuring SNMP traps

- D. Installing a cloud monitoring agent

Answer: A

Explanation:

Enabling VPC (or equivalent) flow logs is the native, zero-agent way to capture metadata about every network conversation, source/destination IPs, ports, protocols, bytes transferred, across both hosts and managed appliances in your virtual network. It requires minimal setup (just a checkbox or API call) and scales automatically with your VPC.

NEW QUESTION # 35

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