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CompTIA CNX-001 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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 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.

>> Valid CNX-001 Exam Notes <<

Passing CompTIA CNX-001 Exam is Easy with Our Reliable Valid CNX-001 Exam Notes: CompTIA CloudNetX Certification Exam

The CompTIA CNX-001 web-based practice test software is very user-friendly and simple to use. It is accessible on all browsers. It will save your progress and give a report of your mistakes which will surely be beneficial for your overall exam preparation. A useful certification will bring you much outstanding advantage when you apply for any jobs about CompTIA company or products.

CompTIA CloudNetX Certification Exam Sample Questions (Q40-Q45):

NEW QUESTION # 40

A network architect is working on a physical network design template for a small education institution's satellite campus that is not yet built. The new campus location will consist of two small buildings with classrooms, one screening room with audiovisual equipment, and 200 seats for students. Which of the following enterprise network designs should the architect suggest?

- A. Hybrid
- **B. Collapsed core**
- C. Three-tier
- D. Dual-layer

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A collapsed core design combines the core and distribution layers into a single tier, making it ideal for small-scale networks such as satellite campuses or branch offices. It reduces complexity, cost, and footprint while still supporting redundancy and scalability where needed.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Network Design Models":

"For small to medium-sized deployments, a collapsed core topology reduces hardware and configuration complexity while maintaining essential functionality." Other options:

- * A. Hybrid refers to cloud/physical blends, not network topology.
- * B. Dual-layer isn't a standard enterprise architecture reference.
- * C. Three-tier is overkill for small networks and adds unnecessary complexity.

NEW QUESTION # 41

A company deployed new applications in the cloud and configured a site-to-site VPN to connect the internal data center with the

cloud. The IT team wants the internal servers to connect to those applications without using public IP addresses. Which of the following is the best solution?

- A. Configure proxy service in the site-to-site VPN to allow internal servers to access applications through the proxy.
- **B. Create a DNS server in the cloud. Configure the DNS server in the customer data center to forward DNS requests for cloud resources to the cloud DNS server.**
- C. Configure a NAT server on the cloud to allow internal servers to connect to the applications through the NAT server.
- D. Register applications on the cloud with a public DNS server and configure internal servers to connect to them using their public DNS names.

Answer: B

Explanation:

By forwarding only the cloud application DNS queries to a cloud-hosted DNS zone that returns private IP addresses, your internal servers will resolve and connect over the site-to-site VPN without ever touching public IPs.

NEW QUESTION # 42

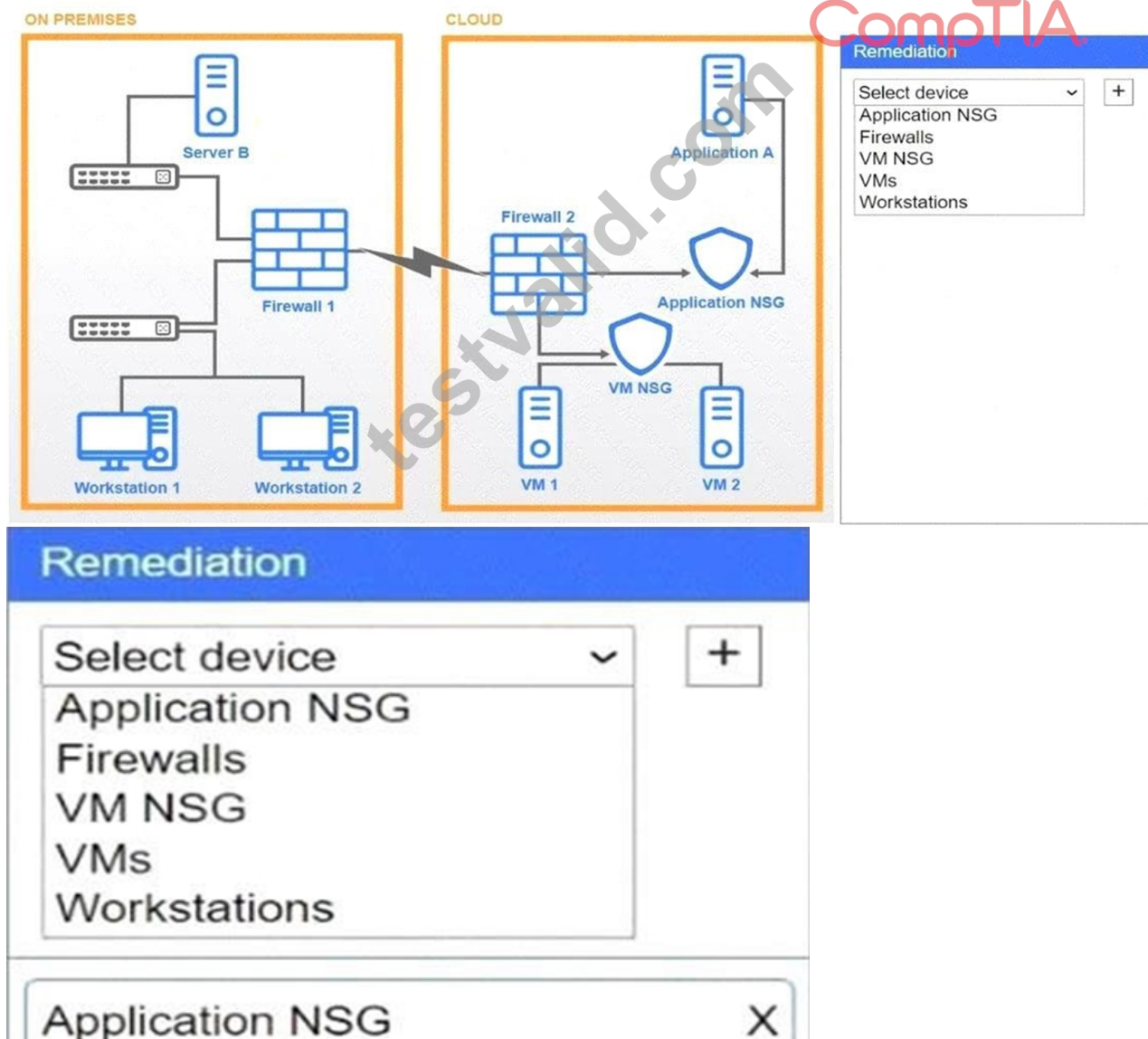
A network administrator needs to resolve connectivity issues in a hybrid cloud setup. Workstations and VMs are not able to access Application A. Workstations are able to access Server B.

INSTRUCTIONS

Click on workstations, VMs, firewalls, and NSGs to troubleshoot and gather information. Type help in the terminal to view a list of available commands.

Select the appropriate device(s) requiring remediation and identify the associated issue(s).

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.



Issue:

Incorrect routing table
Misconfigured rule
Packet loss
Blocked outbound traffic
VPN tunnel down
Duplicated IP addresses
Misconfigured subnet mask
Overly permissive configuration

Firewalls

X

Issue:

Incorrect routing table
Misconfigured rule
Packet loss
Blocked outbound traffic
VPN tunnel down
Duplicated IP addresses
Misconfigured subnet mask
Overly permissive configuration

VM NSG

X

Issue:

Incorrect routing table
Misconfigured rule
Packet loss
Blocked outbound traffic
VPN tunnel down
Duplicated IP addresses
Misconfigured subnet mask
Overly permissive configuration

VMs

X

Issue:

Incorrect routing table
Misconfigured rule
Packet loss
Blocked outbound traffic
VPN tunnel down
Duplicated IP addresses
Misconfigured subnet mask
Overly permissive configuration

Workstations

X

Issue:

Incorrect routing table

Incorrect routing table
Misconfigured rule
Packet loss
Blocked outbound traffic
VPN tunnel down
Duplicated IP addresses
Misconfigured subnet mask
Overly permissive configuration

Server B

```
C:\>ipconfig
```

Windows IP Configuration

Ethernet adapter Local Area Connection:

```
Connection-specific DNS Suffix.:local.net
IPv4 Address. . . . . :10.9.8.14
Subnet Mask . . . . . :255.255.255.0
Default Gateway. . . . . :10.10.10.1
```

```
C:\>
```

Firewall 1

Public IP: 86.210.16.10 Internal IP: 10.2.2.1

Source	Destination	Port	Action
10.3.9.0/24	any	any	allow
10.2.2.0/24	10.3.9.0/24	any	block
10.9.8.14	10.3.9.0/24	any	allow
10.9.8.14	10.2.2.0/24	any	allow
192.2.1.0/24	10.3.9.0/24	any	allow
10.3.9.0/24	192.2.1.0/24	any	allow
10.3.9.0/24	10.9.8.14	any	allow
10.2.2.0/24	10.9.8.14	any	allow
10.3.9.0/24	10.2.2.0/24	any	block
10.3.9.0/24	10.9.8.0/24	any	block
any	any	any	block

```
fw1# show ipsec tunnels ike
IPsec Tunnel: 0
IKE SA: ipip0 ID: 17 Version: IKEv2
Local: 86.210.16.10[500] Remote: 89.215.198.10[500]
Status: DOWN

IPsec Tunnel: 1
IKE SA: ipip1 ID: 21 Version: IKEv2
Local: 86.210.16.10[500] Remote: 51.187.39.9[500]
Status: ESTABLISHED Up: 762s Reauth: 25278s
```

Workstation 1

C:\>

Workstation 2

C:\>

Firewall 2

Public IP: 89.215.198.10 Internal IP: 10.3.9.1

Source	Destination	Port	Action
10.3.9.0/24	any	any	allow
192.2.1.0	any	any	allow
10.2.2.0/24	10.9.8.14	any	allow
10.2.2.0/24	10.3.9.0/24	any	block
10.2.2.0/24	192.2.1.11	any	allow
10.2.2.0/24	10.9.8.0/24	any	block
10.2.2.0/24	192.2.1.0/24	any	block
10.9.8.14	10.3.9.0/24	any	allow
10.9.8.14	10.2.2.0/24	any	allow
10.9.8.14	192.2.1.11	any	allow
10.3.9.0/24	192.2.1.11	any	allow
10.3.9.0/24	10.9.8.14	any	allow
10.3.9.0/24	10.2.2.0/24	any	block
10.3.9.0/24	10.9.8.0/24	any	block
10.3.9.0/24	192.2.1.0/24	any	block
any	any	any	block

fw2# show ipsec tunnels ike

IPsec Tunnel: 1

IKE SA: ipip1 ID: 53 Version: IKEv2

Local: 89.215.198.10[500] Remote: 43.250.192.5[500]

Status: ESTABLISHED Up: 2152s Reauth: 22763s

IPsec Tunnel: 2

IKE SA: ipip2 ID: 58 Version: IKEv1

Local: 89.215.198.10[500] Remote: 86.210.16.10[500]

Status: DOWN

IPsec Tunnel: 3

IKE SA: ipip3 ID: 60 Version: IKEv2

Local: 89.215.198.10[500] Remote: 52.47.73.70[500]

Status: ESTABLISHED Up: 11748s Reauth: 13262s

Application NSG

Source	Destination	Port	Action
192.2.1.0/24	any	any	allow
10.2.2.0/24	192.2.1.0/24	any	allow
10.3.9.0/24	192.2.1.0/24	any	block
10.9.8.14	192.2.1.0/24	any	allow
192.2.1.0/24	10.9.8.14	any	allow
192.2.1.0/24	10.2.2.0/24	any	block
192.2.1.0/24	10.3.9.0/24	any	allow
192.2.1.0/24	10.9.8.0/24	any	block
any	192.2.1.0/24	any	block

Application A

```
C:\>ipconfig
```

```
Windows IP Configuration
```

```
Ethernet adapter Local Area Connection:
```

```
    Connection-specific DNS Suffix.:local.net
    IPv4 Address. . . . .:192.2.1.11
    Subnet Mask . . . . .:255.255.255.0
    Default Gateway . . . . .:192.2.1.1
```

```
C:\>
```

VM NSG			
Source	Destination	Port	Action
10.3.9.0/24	any	any	allow
10.2.2.0/24	10.3.9.0/24	any	block
10.9.8.14	10.3.9.0/24	any	allow
192.2.1.0/24	10.3.9.0/24	any	allow
10.3.9.0/24	192.2.1.0/24	any	allow
10.3.9.0/24	10.9.8.14	any	allow
10.3.9.0/24	10.2.2.0/24	any	block
10.3.9.0/24	10.9.8.0/24	any	block
any	10.3.9.0/24	any	block



Answer:

Explanation:

See explanation below.

Explanation:

The screenshot shows the 'Remediation' section of the Azure portal. At the top, there is a 'Select device' dropdown menu with a '+' button. The dropdown is open, showing a list of devices: 'Application NSG', 'Firewalls', 'VM NSG', 'VMs', and 'Workstations'. Below this, there are two panels, each with a title and a close button (X). The first panel is titled 'Application NSG' and has an 'Issue:' dropdown menu. The dropdown is open, showing a list of issues: 'Incorrect routing table', 'Misconfigured rule', 'Packet loss', 'Blocked outbound traffic', 'VPN tunnel down', 'Duplicated IP addresses', 'Misconfigured subnet mask', and 'Overly permissive configuration'. The second panel is titled 'Firewalls' and also has an 'Issue:' dropdown menu. The dropdown is open, showing the same list of issues. In both panels, the 'Misconfigured rule' issue in the first panel and the 'VPN tunnel down' issue in the second panel are highlighted with a green border.

Firewalls # VPN tunnel down

The IPsec tunnel between on-prem Firewall 1 and cloud Firewall 2 (pip0/pip2) is down, so no traffic can traverse to the cloud.

Application NSG # Misconfigured rule

There's a "block" rule for 10.3.9.0/24 # 192.2.1.0/24, preventing legitimate on-prem clients from reaching Application A.

NEW QUESTION # 43

Which of the following helps the security of the network design to align with industry best practices?

- A. Memorandum of understanding
- B. Reference architectures
- C. Licensing agreement
- D. Service-level agreement

Answer: B

Explanation:

Reference architectures provide standardized, vendor-agnostic blueprints that incorporate industry best practices for security, ensuring your network design aligns with proven frameworks.

NEW QUESTION # 44

A cloud engineer is planning to build VMs in a public cloud environment for a cloud migration. A cloud security policy restricts access to the console for new VM builds. The engineer wants to replicate the settings for each of the VMs to ensure the network settings are preconfigured. Which of the following is the best deployment method?

- A. IaC template
- B. API script
- C. Custom SDK
- D. CLI command

Answer: A

Explanation:

Using an Infrastructure-as-Code template lets you define and version all VM configurations, including network settings, in code that's automatically applied during deployment, eliminating the need for console changes and ensuring consistency across each build.

NEW QUESTION # 45

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