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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 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 3	<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 4	<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.

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CompTIA CloudNetX Certification Exam Sample Questions (Q38-Q43):

NEW QUESTION # 38

A network architect is designing a solution to secure the organization's applications based on the security policy. The requirements are:

Users must authenticate using one set of credentials.

External users must be located in authorized sites.

Session timeouts must be enforced.

Network access requirements should be changed as needed.

Which of the following best meet these requirements? (Choose two.)

- A. Risk-based authentication
- B. Multifactor authentication
- C. Single sign-on
- D. Static IP allocation
- E. Conditional access policy
- F. Role-based access

Answer: C,E

Explanation:

Single sign-on: Provides users with one set of credentials for authentication across all applications, simplifying access and reducing password fatigue.

Conditional access policy: Enforces location-based restrictions for external users, configurable session timeouts, and dynamic network access controls that can be updated as requirements evolve.

NEW QUESTION # 39

A network engineer is designing a Layer 2 deployment for a company that occupies several floors in an office building. The engineer decides to make each floor its own VLAN but still allow for communication between all user VLANs. The engineer also wants to reduce the time necessary for STP convergence to occur when new switches come online. Which of the following should the engineer enable to accomplish this goal?

- A. Tagging
- B. Priority

- C. Portfast
- D. BPDU Guard

Answer: C

Explanation:

Enabling PortFast on access ports lets them immediately enter the forwarding state, skipping the STP listening /learning timers, and dramatically speeds up convergence when switches or end-stations come online.

NEW QUESTION # 40

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.

The image shows a network simulation interface with two main sections: **ON PREMISES** and **CLOUD**. A large red watermark "CompTIA" is overlaid across the center.

- ON PREMISES:** Contains Server B, Workstation 1, Workstation 2, and Firewall 1.
- CLOUD:** Contains Application A, Application NSG, VM NSG, VM 1, VM 2, and Firewall 2.

Connections are shown between Server B and Firewall 1, and between Firewall 1 and Firewall 2. Firewall 2 is connected to Application A, Application NSG, and VM NSG. VM NSG is connected to VM 1 and VM 2. A lightning bolt icon indicates a connection or issue between Firewall 1 and Firewall 2.

Below the diagram is a **Remediation** panel with a dropdown menu for "Select device" containing: Application NSG, Firewalls, VM NSG, VMs, and Workstations. Below this is a detailed view for **Application NSG** with an "Issue:" dropdown menu listing: Incorrect routing table, Misconfigured rule, Packet loss, Blocked outbound traffic, VPN tunnel down, Duplicated IP addresses, Misconfigured subnet mask, and Overly permissive configuration. At the bottom, a **Firewalls** panel is partially visible.

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

```
Server B X
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

VM 1

```
C:\>
```



Answer:

Explanation:

See explanation below.

Explanation:



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 # 41

An administrator must ensure that credit card numbers are not contained in any outside messaging or file transfers from the organization. Which of the following controls meets this requirement?

- A. Intrusion detection system
- B. Egress filtering
- C. Encryption in transit
- **D. Data loss prevention**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Data Loss Prevention (DLP) solutions scan messages and file transfers for sensitive data patterns, such as credit card numbers or social security numbers. DLP can block, log, or alert when such information is detected attempting to leave the organization.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Data Protection and Compliance Controls":

"DLP systems identify and restrict the transmission of sensitive data such as credit card numbers, enforcing organizational data handling policies." Other options:

* A. IDS detects threats but doesn't enforce data content policies.

* B. Egress filtering restricts destinations but not content.

* D. Encryption protects data in transit, not its content compliance.

NEW QUESTION # 42

A cloud architect must recommend an architecture approach for a new medical application that requires the lowest downtime possible. Which of the following is the best application deployment strategy given the high-availability requirement?

- **A. Two different availability zones (per region) using an active-active topology in two different regions**
- B. Two different availability zones (per region) using an active-passive topology in two different regions
- C. Four different availability zones using an active-passive topology in a single region
- D. Four different availability zones using an active-active topology in a single region

Answer: A

Explanation:

Deploying active-active clusters across two AZs in each of two regions ensures the application can survive both AZ- and entire-region failures, delivering the highest possible uptime.

NEW QUESTION # 43

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