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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 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 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.

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CompTIA CloudNetX Certification Exam Sample Questions (Q12-Q17):

NEW QUESTION # 12

A company is transitioning from on-premises to a hybrid environment. Due to regulatory standards, the company needs to achieve a high level of reliability and high availability for the connection between its data center and the cloud provider. Which of the following solutions best meets the requirements?

- A. Establish a Direct Connect with the cloud provider and peer to two different VPCs in the cloud network.
- **B. Establish two Direct Connect connections to the cloud provider using two different suppliers.**
- C. Establish a VPN with two tunnels to a transit gateway at the cloud provider.
- D. Establish a Direct Connect with the cloud provider and a redundant connection with a VPN over the internet.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Establishing two Direct Connect (or equivalent private connectivity services such as Azure ExpressRoute) connections with two different providers ensures maximum redundancy and reliability. This setup complies with high availability (HA) and fault-tolerance design best practices for regulated industries, where minimal downtime and service continuity are critical.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Hybrid Connectivity and High Availability":

"Redundant connections to cloud providers should use physically separate paths and providers to ensure fault tolerance and meet reliability requirements in hybrid cloud environments."

"Direct connections provide higher availability and consistent performance than VPNs." Other options:

- * A. Peering to two VPCs does not ensure link redundancy.
- * B. Combining Direct Connect with VPN offers backup but less reliability than dual Direct Connects.
- * D. VPNs over the internet are lower in reliability and do not meet high availability standards required for regulated industries.

NEW QUESTION # 13

A network architect needs to design a new network to connect multiple private data centers. The network must:

- Provide privacy for all traffic between locations.
- Use preexisting internet connections.
- Use intelligent steering of application traffic over the best path.

Which of the following best meets these requirements?

- A. SD-WAN
- B. MPLS connections
- C. ExpressRoute
- D. Site-to-site VPN

Answer: A

Explanation:

By running encrypted tunnels over your existing Internet links and dynamically steering traffic across the optimal path, an SD-WAN solution delivers privacy and performance intelligence without requiring new private circuits.

NEW QUESTION # 14

You are designing a campus network with a three-tier hierarchy and need to ensure secure connectivity between locations and traveling employees.

INSTRUCTIONS

Review the command output by clicking on the server, laptops, and workstations on the network.

Use the drop-down menus to determine the appropriate technology and label for each layer on the diagram.

Options may only be used once.

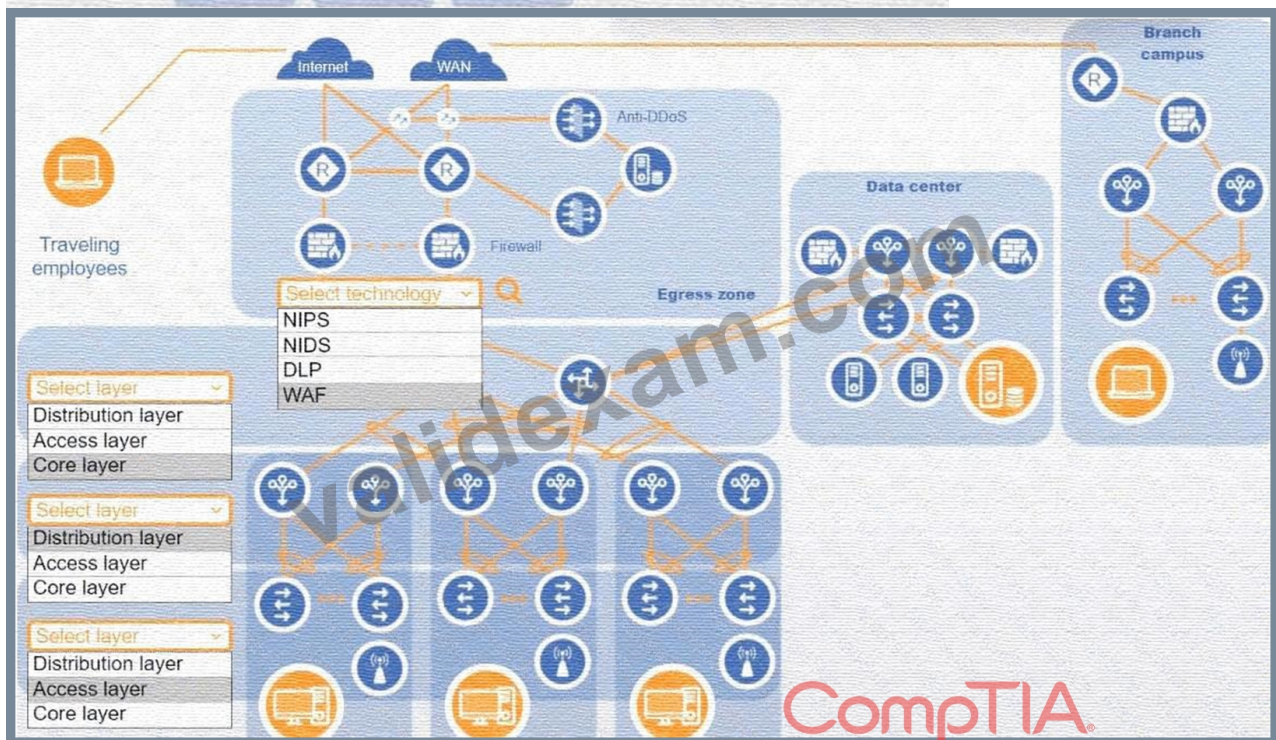
Click on the magnifying glass to make additional configuration changes.

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



Answer:

Explanation:



NEW QUESTION # 15

An organization's Chief Technical Officer is concerned that changes to the network using IaC are causing unscheduled outages. Which of the following best mitigates this risk?

- A. Adding review/approval steps to the CI/CD pipelines
- B. Forking the code repository before making changes
- C. Enforcing code review of the change by the author
- D. Making code changes to the master branch

Answer: A

Explanation:

Introducing mandatory review and approval gates in your deployment pipelines ensures that every Infrastructure-as-Code change is peer-reviewed, tested, and explicitly signed off before going live, reducing the chance of unvetted code causing unexpected outages.

NEW QUESTION # 16

