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CompTIA CloudNetX Certification Exam Sample Questions (Q59-Q64):

NEW QUESTION # 59

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. Portfast**
- B. Priority
- C. BPDU Guard
- D. Tagging

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

PortFast is a feature in Spanning Tree Protocol (STP) that allows switch ports connected to end devices (like user workstations) to bypass the usual STP states (Listening and Learning) and transition immediately to the Forwarding state. This significantly reduces convergence time and speeds up the network availability when new switches or ports are introduced.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "STP Optimization Techniques":

"PortFast reduces STP convergence time by immediately placing access ports into the forwarding state, useful in environments where rapid network availability is required." Other options:

- * A. BPDU Guard is used to disable ports that receive Bridge Protocol Data Units, enhancing security but not STP speed.
- * B. Priority modifies bridge priority but doesn't reduce convergence time.
- * C. Tagging relates to VLAN identification, not STP behavior.

NEW QUESTION # 60

A company provides an API that runs on the public cloud for its customers. A fixed number of VMs host the APIs. During peak hours, the company notices a spike in usage that results in network communication speeds slowing down for all customers. The management team has decided that access for all customers should be fair and accessible at all times. Which of the following is the most cost-effective way to address this issue?

- A. Use an allow list for customers using APIs.
- B. Increase the number of VMs running APIs.
- C. Increase the MTU on the VMs.
- **D. Enable throttling on APIs.**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

API throttling limits the number of requests a user or system can make in a given time frame. This ensures that no single customer overwhelms the service, maintaining fair access and stability for all users during peak usage periods. It is cost-effective as it avoids unnecessary resource scaling.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "API Management and Traffic Control":

"Throttling allows for controlled usage of APIs, preventing service degradation and ensuring equitable access during high traffic periods." Other options:

- * A. Allow lists control access, not traffic volume.
- * B. Increasing VMs increases cost and may not scale linearly.
- * D. MTU settings affect packet size but not API-level fairness or traffic spikes.

NEW QUESTION # 61

A network administrator is troubleshooting an outage at a remote site. The administrator examines the logs and determines that one of the internet links at the site appears to be down. After the service provider confirms this information, the administrator fails over traffic to the backup link. Which of the following should the administrator do next?

- **A. Verify full system functionality.**
- B. Establish a plan of action.
- C. Document the lessons learned.
- D. Identify the problem

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

According to the standard CompTIA troubleshooting methodology, once the issue has been identified and a solution has been implemented (e.g., failing over traffic to the backup link), the next logical step is to verify full system functionality. This ensures that the backup path is working as intended and that services have resumed properly for the users.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "Troubleshooting Process":

"After implementing the solution, it is critical to verify full system functionality to ensure the resolution has addressed the problem without causing unintended consequences." Other options:

- * A. Documenting lessons learned is the final step.
- * B. The plan of action should have been created before the failover.
- * C. Identifying the problem already occurred earlier in the scenario.

NEW QUESTION # 62

A network engineer is working on securing the environment in the screened subnet. Before penetration testing, the engineer would like to run a scan on the servers to identify the OS, application versions, and open ports. Which of the following commands should the engineer use to obtain the information?

- A. `tcpdump -ni eth0 src net 10.10.10.0/28`
- B. `nc -v -n 10.10.10.x 1-1000`
- C. `hping3 -I 10.10.10.x -rand-dest -I eth0`
- **D. `nmap -A 10.10.10.0/28`**

Answer: D

Explanation:

The -A flag enables aggressive scanning, which combines OS detection, version detection, script scanning, and traceroute to give you detailed information on hosts in the 10.10.10.0/28 range.

NEW QUESTION # 63

A network architect is designing an expansion solution for the branch office network and requires the following business outcomes:

- * Maximize cost savings with reduced administration overhead
- * Easily expand connectivity to the cloud
- * Use cloud-based services to the branch offices

Which of the following should the architect do to best meet the requirements?

- A. Design a dark fiber solution for headquarters and branch offices' connectivity; deploy point-to-site VPN between headquarters and the cloud provider; use the headquarters connectivity to the cloud provider.
- B. Design point-to-site branch connectivity for offices to headquarters; deploy ExpressRoute and/or DirectConnect between headquarters and the cloud; use headquarters connectivity to connect to the cloud provider.
- **C. Design a SD-WAN solution to integrate with the cloud provider; use SD-WAN to connect branch offices to the cloud provider.**
- D. Design an MPLS architecture for the branch offices and site-to-site VPN between headquarters and branch offices; use site-to-site connectivity to the cloud provider.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

SD-WAN (Software-Defined Wide Area Networking) is ideal for enterprises that want to simplify WAN management, reduce operational overhead, and optimize connectivity to cloudservices. SD-WAN provides intelligent traffic routing, dynamic path selection, and direct-to-cloud access without backhauling traffic through a central data center.

Relevant Extract from CompTIA CloudNetX CNX-001 Study Guide - under "SD-WAN and Cloud Connectivity":

"SD-WAN enables efficient cloud access from branch offices and simplifies management through centralized policy control. It is cost-effective and reduces the need for complex hardware configurations and manual routing." Other options:

- * B. Adds latency and overhead by backhauling through headquarters.
- * C. MPLS is expensive and less flexible than SD-WAN.
- * D. Dark fiber is high-cost and not scalable for cloud-first architectures.

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