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CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Network Implementation: For network technicians and junior network engineers, this section covers Characteristics of routing technologies, Configuration of switching technologies and features, and
Topic 2	<ul style="list-style-type: none">• Networking Concepts: For network administrators and IT support professionals, this domain covers
Topic 3	<ul style="list-style-type: none">• OSI reference model concepts, Comparison of networking appliances, applications, and functions

CompTIA Network+ Certification Exam Sample Questions (Q234-Q239):

NEW QUESTION # 234

Which of the following describes the best reason for using BGP?

- A. Improving reconvergence times
- B. Sharing routes with a Layer 3 switch
- **C. Exchanging router updates with a different ISP**
- D. Preventing a loop within a LAN

Answer: C

Explanation:

BGP (Border Gateway Protocol) is used for routing data between different ISPs, making it essential for the functioning of the internet. Its primary use is for exchanging routing information between autonomous systems, especially different ISPs. Preventing loops within a LAN is handled by protocols like Spanning Tree Protocol (STP), while improving reconvergence times and sharing routes with a Layer 3 switch are functions of other protocols or internal mechanisms.

Reference:

The CompTIA Network+ training emphasizes BGP's role in the exchange of routing information across different ISPs and autonomous systems.

NEW QUESTION # 235

A network architect needs to create a wireless field network to provide reliable service to public safety vehicles. Which of the following types of networks is the best solution?

- A. Point-to-point
- B. Ad hoc
- C. Infrastructure
- **D. Mesh**

Answer: D

Explanation:

A mesh network is the best solution for providing reliable wireless service to public safety vehicles. In a mesh network, each node (vehicle) can connect to multiple other nodes, providing multiple paths for data to travel. This enhances reliability and redundancy, ensuring continuous connectivity even if one or more nodes fail. Mesh networks are highly resilient and are well-suited for dynamic and mobile environments such as public safety operations.

Reference: CompTIA Network+ study materials.

NEW QUESTION # 236

A customer wants to cache commonly used content to reduce the number of full page downloads from the internet. Which of the following should the network administrator recommend?

- A. Code repository
- B. Open relay
- **C. Proxy server**
- D. Load balancer

Answer: C

Explanation:

Comprehensive and Detailed Explanation (paraphrased, aligned to N10-009):

A proxy server (specifically a caching HTTP/HTTPS proxy) stores frequently accessed web objects and serves them locally to clients, reducing external bandwidth consumption and improving response times.

B). Load balancer distributes traffic across servers but does not inherently cache internet content.

C). Open relay is a misconfigured mail server that permits unauthorized relaying-this is a security issue, not a caching solution.

D). Code repository (e.g., for source control) isn't related to web content caching.

References (CompTIA Network+ N10-009):

Domain: Network Standards, Protocols, and Implementations - Application-layer services (HTTP/HTTPS), proxies and caching behavior, performance optimization.

NEW QUESTION # 237

A network administrator is planning to implement device monitoring to enhance network visibility. The security that the solution provides authentication and encryption. Which of the following meets these requirements?

- A. NetFlow
- **B. SNMPv3**
- C. Syslog
- D. SIEM

Answer: B

Explanation:

SNMPv3 (Simple Network Management Protocol version 3) provides device monitoring with authentication and encryption. This enhances network visibility and security by ensuring that monitoring data is securely transmitted and access to network devices is authenticated.

Authentication: SNMPv3 includes robust mechanisms for authenticating users accessing network devices.

Encryption: It provides encryption to protect the integrity and confidentiality of the data being transmitted.

Network Management: SNMPv3 allows for detailed monitoring and management of network devices, ensuring better control and security.

Network Reference:

CompTIA Network+ N10-007 Official Certification Guide: Covers SNMP versions, their features, and security enhancements in SNMPv3.

Cisco Networking Academy: Provides training on implementing and securing SNMP for network management.

Network+ Certification All-in-One Exam Guide: Explains the benefits and security features of SNMPv3 for network monitoring.

NEW QUESTION # 238

After a recent power outage, users are reporting performance issues accessing the application servers.

Wireless users are also reporting intermittent Internet issues.

INSTRUCTIONS

Click on each tab at the top of the screen. Select a widget to view information, then use the drop-down menus to answer the associated questions. If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Answer:

Explanation:

See the answer and solution below.

Explanation:

Network Health:

WAN 2 appears to have a lower average latency and loss percentage, which would make it the preferred WAN station for VoIP traffic. VoIP traffic requires low latency and packet loss to ensure good voice quality and reliability. WAN 1 seems to have higher RAM and processor usage, which could also affect the performance of VoIP traffic.

Here's the summary of the key metrics for WAN 1 and WAN 2 from the image provided:

* WAN 1:

* Uplink Speed: 10G

* Total Usage: 26.969GB Up / 1.748GB Down

* Average Throughput: 353MBps Up / 23.42MBps Down

* Loss: 2.51%

* Average Latency: 24ms

* Jitter: 9.5ms

* WAN 2:

* Uplink Speed: 1G

* Total Usage: 930GB Up / 138GB Down

* Average Throughput: 12.21MBps Up / 1.82MBps Down

* Loss: 0.01%

* Average Latency: 11ms

* Jitter: 3.9ms

For VoIP traffic, low latency and jitter are particularly important to ensure voice quality. While WAN 1 has higher bandwidth and throughput, it also has higher latency and jitter compared to WAN 2. However, WAN 2 has much lower loss, lower latency, and lower jitter, which are more favorable for VoIP traffic that is sensitive to delays and variation in packet arrival times.

Given this information, WAN 2 would generally be preferred for VoIP traffic due to its lower latency, lower jitter, and significantly

