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CERTIFICATION EXAM OBJECTIVES COMPTIA NETWORK+ N10-009

1.0 Networking Concepts	23%
2.0 Network Implementation	20%
3.0 Network Operations	19%
4.0 Network Security	14%
5.0 Network Troubleshooting	24%

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As for the structure of content, please believe that our team of experts has many years of experience in compiling and designing on the N10-009 exam questions. I can say that no person can know the N10-009 study materials than them for they have been devoting themselves in this career for ten years. And they know every detail about the N10-009 learning guide. No matter how high your request is, our N10-009 learning quiz must satisfy you.

CompTIA Network+ Certification Exam Sample Questions (Q319-Q324):

NEW QUESTION # 319

A customer needs six usable IP addresses. Which of the following best meets this requirement?

- A. 255.255.255.192
- B. 255.255.255.128
- C. 255.255.255.224
- D. 255.255.255.240**

Answer: D

Explanation:

To meet the requirement of six usable IP addresses, the subnet mask 255.255.255.240 (also represented as /28) is the best fit. A /28 subnet provides 16 total IP addresses, out of which 14 are usable (the first address is the network address, and the last address is the broadcast address). This meets and exceeds the requirement for six usable IP addresses, ensuring there are enough addresses for future expansion if needed. The other options provide either too few or too many addresses for this specific requirement.

Reference: CompTIA Network+ Certification Exam Objectives - IP Addressing section.

NEW QUESTION # 320

Which of the following can support a jumbo frame?

- A. Access point
- B. Hub
- C. Bridge
- D. **Switch**

Answer: D

Explanation:

* Definition of Jumbo Frames:

* Jumbo frames are Ethernet frames with more than 1500 bytes of payload, typically up to 9000 bytes. They are used to improve network performance by reducing the overhead caused by smaller frames.

* Why Switches Support Jumbo Frames:

* Switches are network devices designed to manage data packets and can be configured to support jumbo frames. This capability enhances throughput and efficiency, particularly in high-performance networks and data centers.

* Incompatibility of Other Devices:

* Access Point: Primarily handles wireless communications and does not typically support jumbo frames.

* Bridge: Connects different network segments but usually operates at standard Ethernet frame sizes.

* Hub: A simple network device that transmits packets to all ports without distinguishing between devices, incapable of handling jumbo frames.

* Practical Application:

* Enabling jumbo frames on switches helps in environments where large data transfers are common, such as in storage area networks (SANs) or large-scale virtualized environments.

References:

* CompTIA Network+ course materials and networking hardware documentation.

NEW QUESTION # 321

A network administrator wants users to be able to authenticate to the corporate network using a port-based authentication framework when accessing both wired and wireless devices. Which of the following is the best security feature to accomplish this task?

- A. MAC filtering
- B. Port security
- C. Access control list
- D. **802.1X**

Answer: D

Explanation:

802.1X is a port-based network access control (PNAC) protocol that provides an authentication mechanism to devices wishing to connect to a LAN or WLAN. It is widely used for secure network access, ensuring that only authenticated devices can access the network, whether they are connecting via wired or wireless means.

802.1X works in conjunction with an authentication server, such as RADIUS, to validate the credentials of devices trying to connect. References: CompTIA Network+ study materials.

NEW QUESTION # 322

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 lower loss percentage, despite its lower bandwidth compared to WAN 1. The high bandwidth of WAN 1 may be more suitable for other types of traffic that are less sensitive to latency and jitter, such as bulk data transfers.

Device Monitoring:

the device that is experiencing connectivity issues is the APP Server or Router 1, which has a status of Down.

This means that the server is not responding to network requests or sending any data. You may want to check the physical connection, power supply, and configuration of the APP Server to troubleshoot the problem.

A screenshot of a computer AI-generated content may be incorrect.

NEW QUESTION # 323

A VoIP phone is plugged in to a port but cannot receive calls. Which of the following needs to be done on the port to address the issue?

- A. Tag the traffic to voice VLAN.
- B. Configure the native VLAN.
- C. Disable VLANs.
- D. Trunk all VLANs on the port.

Answer: A

Explanation:

* Understanding VoIP and VLANs:

* VoIP (Voice over IP) phones often use VLANs (Virtual Local Area Networks) to separate voice traffic from data traffic for improved performance and security.

* Tagging Traffic to Voice VLAN:

* Voice VLAN Configuration: The port on the switch needs to be configured to tag traffic for the specific voice VLAN. This ensures that voice packets are prioritized and handled correctly.

* VLAN Tagging: VLAN tagging allows the switch to identify and separate voice traffic from other types of traffic on the network, reducing latency and jitter for VoIP communications.

- * Comparison with Other Options:
- * Trunk all VLANs on the port: Trunking all VLANs is typically used for links between switches, not for individual device ports.
- * Configure the native VLAN: The native VLAN is for untagged traffic and does not address the need for separating and prioritizing voice traffic.
- * Disable VLANs: Disabling VLANs would mix voice and data traffic, leading to potential performance issues and lack of traffic separation.
- * Implementation:
- * Configure the switch port connected to the VoIP phone to tag the traffic for the designated voice VLAN, ensuring proper network segmentation and quality of service.

References:

- * CompTIA Network+ study materials on VLAN configuration and VoIP implementation.

NEW QUESTION # 324

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