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CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	• Networking Concepts: For network administrators and IT support professionals, this domain covers
Topic 2	• Network Implementation: For network technicians and junior network engineers, this section covers Characteristics of routing technologies, Configuration of switching technologies and features, and
Topic 3	• Selection and configuration of wireless devices.
Topic 4	• Cloud concepts and connectivity options, and Common networking ports.
Topic 5	• Network Security: This section of the exam for cybersecurity specialists and network security administrators covers the importance of basic network security concepts, Various types of attacks and their impact on the network, application of network security features, defense techniques, and solutions. Network Troubleshooting: For help desk technicians and network support specialists, this section covers troubleshooting methodology, troubleshooting common cabling and physical interface issues, troubleshooting common issues with network services, and use of appropriate tools or protocols to solve networking issues.

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CompTIA Network+ Certification Exam Sample Questions (Q603-Q608):

NEW QUESTION # 603

A network engineer must configure core switches that:

- Efficiently handle high-bandwidth data transfers.
- Optimize resource consumption.
- Minimize fragmentation.

Which of the following should the engineer enable?

- **A. Jumbo frames**
- B. Link aggregation
- C. Spanning tree
- D. 802.1Q tagging

Answer: A

Explanation:

Jumbo frames increase the Ethernet frame size, allowing more payload data per frame. This improves efficiency for high-bandwidth transfers, reduces protocol overhead, and helps minimize fragmentation when supported end to end.

NEW QUESTION # 604

A data center administrator is evaluating the use of jumbo frames within a storage environment.

Which of the following describes the best reason to use jumbo frames in the storage environment?

- A. To report on the current root switch in the STP
- **B. To reduce device overhead**
- C. To improve routing convergence
- D. To increase drive throughput

Answer: B

Explanation:

Jumbo frames carry more data per packet, reducing the total number of frames and associated processing overhead on devices, which boosts efficiency in a storage environment.

NEW QUESTION # 605

Which of the following best explains the role of confidentiality with regard to data at rest?

- **A. Data can be accessed after privileged access is granted.**
- B. Data can be accessed remotely with proper training.
- C. Data can be accessed after verifying the hash.
- D. Data can be accessed by anyone on the administrative network.

Answer: A

Explanation:

Confidentiality with Data at Rest: Confidentiality is a core principle of data security, ensuring that data stored (at rest) is only accessible to authorized individuals. This protection is achieved through mechanisms such as encryption, access controls, and permissions.

Privileged Access: The statement "Data can be accessed after privileged access is granted" aligns with the confidentiality principle, as it restricts data access to users who have been granted specific permissions or roles. Only those with the appropriate credentials or

permissions can access the data.

Incorrect Options:

- A). "Data can be accessed by anyone on the administrative network." This violates the principle of confidentiality by allowing unrestricted access.
 - B). "Data can be accessed remotely with proper training." This focuses on remote access rather than restricting access based on privileges.
 - D). "Data can be accessed after verifying the hash." This option relates more to data integrity rather than confidentiality.
- CompTIA Network+ materials on data security principles, particularly sections on confidentiality and access control mechanisms.

NEW QUESTION # 606

Which of the following is the correct order of components in a bottom-up approach for the three-tier hierarchical model?

- A. Access, distribution, and core
- B. Core, spine, and leaf
- C. Access, core, and roof
- D. Core, root, and distribution

Answer: A

Explanation:

The three-tier hierarchical model in network design consists of three layers: access, distribution, and core. The access layer is where devices like PCs and printers connect to the network. The distribution layer aggregates the data received from the access layer switches before it is transmitted to the core layer, which is responsible for high-speed data transfer and routing. This approach improves scalability and performance in larger networks. Reference: CompTIA Network+ Exam Objectives and official study guides.

NEW QUESTION # 607

An employee has a new laptop and reports slow performance when using the wireless network.

Switch firmware was updated the previous night. A network administrator logs in to the switch and sees the following statistics on the switch interface for that employee:

```
98469 packets input, 1681937 bytes, 0 no buffer
Received 1548 broadcasts (25285 multicasts)
65335 runts, 0 giants, 0 throttles
11546 input errors, 5 CRC, 0 frame, 0 overrun, 0 ignored
0 input packets with dribble condition detected
22781 packets output, 858040 bytes, 0 underruns
0 output errors, 89920 collisions, 0 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier
0 output buffer failures, 0 output buffers swapped out
```

Which of the following is most likely the cause of the issue?

- A. The switchport bandwidth needs to be increased.
- B. The patch cord from the wall jack is faulty.
- C. The NIC is set to half duplex.
- D. Multicast is not configured correctly on the switch.

Answer: C

Explanation:

The switch interface shows 89,920 collisions, which is a strong indicator of a duplex mismatch.

This typically occurs when one end of the connection (in this case, the NIC on the employee's laptop) is set to half duplex, while the switch port is operating in full duplex.

In half duplex, devices must wait for the line to be clear before transmitting, which leads to collisions if both try to transmit simultaneously. High collisions and performance issues are classic symptoms.

Faulty patch cords often result in CRC errors or physical link problems, not just high collisions.

Switchport bandwidth isn't the issue here - collisions, not congestion, are the root cause.

Multicast misconfiguration would affect group traffic, not cause collisions on a single port. So the correct diagnosis is duplex mismatch, most likely from the NIC being set to half duplex.

NEW QUESTION # 608

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