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## CompTIA Network+ Certification Exam Sample Questions (Q374-Q379):

### NEW QUESTION # 374

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

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

**Answer: C**

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.

### NEW QUESTION # 375

After installing a series of Cat 8 keystones, a data center architect notices higher than normal interference during tests. Which of the following steps should the architect take to troubleshoot the issue?

- A. Use passthrough modular crimping plugs instead of traditional crimping plugs.
- B. Run a speed test on a device that can only achieve 100Mbps speeds.
- C. Connect the RX/TX wires to different pins.
- **D. Check to see if the end connections were wrapped in copper tape before terminating.**

**Answer: D**

Explanation:

\* Importance of Proper Termination:

\* Cat 8 cabling requires precise termination practices to ensure signal integrity and reduce interference. One common requirement is to wrap the end connections in copper tape to maintain shielding and reduce electromagnetic interference (EMI).

\* Interference Troubleshooting:

\* Interference in high-frequency cables like Cat 8 can be caused by improper shielding or grounding. Checking the end connections for proper wrapping in copper tape is a crucial step.

\* Why Other Options are Less Likely:

\* Passthrough modular crimping plugs: Not specifically related to interference issues and are typically used for ease of cable assembly.

\* Connecting RX/TX wires to different pins: Would likely result in no connection or incorrect data transmission rather than interference.

\* Running a speed test on a device that can only achieve 100Mbps speeds: This would not diagnose interference and would not provide relevant information for Cat 8 cabling rated for

\* higher speeds.

\* Corrective Actions:

\* Verify that all end connections are properly wrapped with copper tape before termination.

\* Ensure that the shielding is continuous and properly grounded throughout the installation.

\* Retest the cabling for interference after making corrections.

References:

\* CompTIA Network+ study materials and structured cabling installation guides.

### NEW QUESTION # 376

Which of the following is the most cost-effective way for a network administrator to establish a persistent, secure connection between two facilities?

- A. Dedicated line
- B. VXLAN
- C. GRE tunnel
- **D. Site-to-site VPN**

**Answer: D**

Explanation:

A Site-to-site VPN (Virtual Private Network) is the most cost-effective solution for establishing a persistent, secure connection between two facilities. It uses the public internet to create an encrypted tunnel, leveraging existing internet connections without requiring expensive dedicated infrastructure. This makes it ideal for organizations looking to securely connect remote sites while minimizing costs.

Why not GRE tunnel? Generic Routing Encapsulation (GRE) tunnels encapsulate traffic but do not provide encryption natively, requiring additional protocols (e.g., IPsec) for security. This adds complexity and is less cost-effective than a site-to-site VPN, which integrates encryption.

Why not VXLAN? Virtual Extensible LAN (VXLAN) is used for overlay networks in data centers to extend Layer 2 networks, not for secure site-to-site connectivity.

Why not Dedicated line? A dedicated line (e.g., leased line or MPLS) provides high reliability but is significantly more expensive due to the need for dedicated infrastructure.

### NEW QUESTION # 377

What does QoS primarily focus on in a network environment?

- A. STP
- **B. QoS**

**Answer: B**

Explanation:

Quality of Service (QoS) prioritizes delay-sensitive traffic such as VoIP by assigning higher priority in queues, reducing jitter, latency, and packet loss. Implementing QoS policies ensures stable and clear voice communication.

\* B. STP (Spanning Tree Protocol) prevents switching loops, but it does not address jitter or real-time traffic performance.

References (CompTIA Network+ N10-009):

\* Domain: Network Infrastructure - QoS, traffic shaping, prioritization of voice/video.

### NEW QUESTION # 378

A network administrator needs to assign IP addresses to a newly installed network. They choose 192.168.1.0 /24 as their network address and need to create three subnets with 30 hosts on each subnet. Which of the following is a valid subnet mask that will meet the requirements?

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

**Answer: C**

Explanation:

To create three subnets with at least 30 hosts each:

Subnet Calculation: Each subnet must support 32 addresses (30 usable + 2 reserved for network and broadcast).

Bits for Subnets: Subnet mask 255.255.255.192 (/26) provides 64 addresses per subnet (4 subnets total).

Valid Subnets: Each subnet provides sufficient IPs to meet the requirement.

255.255.255.128 (A): Creates only 2 subnets, not enough for the requirement.

255.255.255.224 (C): Provides 8 subnets but only 30 addresses per subnet (28 usable), insufficient for hosts.

255.255.255.240 (D): Too restrictive, only 16 addresses per subnet (14 usable).

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