N10-009^{Q&As}

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QUESTION 1

A network administrator is notified that a user cannot access resources on the network. The network administrator checks the physical connections to the workstation labeled User and sees the Ethernet is properly connected. However, the network interface\'s indicator lights are not blinking on either the computer or the switch. Which of the following is the most likely cause?

A. The switch failed.

B. The default gateway is wrong.

C. The port is shut down.

D. The VLAN assignment is incorrect.

Correct Answer: C

If the port is shut down, it means that the switch has disabled the port and is not sending or receiving any traffic on it. This would explain why the network interface\'s indicator lights are not blinking on either the computer or the switch, and why the user cannot access resources on the network. The port could be shut down manually by the network administrator, or automatically by the switch due to security or error conditions.

QUESTION 2

A newtwork administrator needs to create an SVI on a Layer 3-capable device to separate voice and data traffic. Which of the following best explains this use case?

A. A physical interface used for trunking logical ports

B. A physical interface used for management access

C. A logical interface used for the routing of VLANs

D. A logical interface used when the number of physical ports is insufficent.

Correct Answer: C

An SVI (Switched Virtual Interface) is a logical interface on a Layer 3-capable switch used to route traffic between VLANs. This is particularly useful in environments where voice and data traffic need to be separated, as each type of traffic can

be assigned to different VLANs and routed accordingly.

SVI (Switched Virtual Interface): A virtual interface created on a switch for inter- VLAN routing.

VLAN Routing: Enables the routing of traffic between VLANs on a Layer 3 switch, allowing for logical separation of different types of traffic, such as voice and data. Use Case: Commonly used in scenarios where efficient and segmented traffic

management is required, such as in VoIP implementations.

Network References:

CompTIA Network+ N10-007 Official Certification Guide: Discusses VLANs, SVIs, and their applications in network segmentation and routing. Cisco Networking Academy: Provides training on VLAN configuration and inter- VLAN routing

using SVIs.

Network+ Certification All-in-One uide: Covers network segmentation techniques, including the use of SVIs for VLAN routing.

QUESTION 3

A network administrator is connecting two Layer 2 switches in a network. These switches must transfer data in multiple networks.

Which of the following would fulfill this requirement?

A. Jumbo frames

B. 802.1Q tagging

C. Native VLAN

D. Link aggregation

Correct Answer: B

802.1Q tagging, also known as VLAN tagging, is used to identify VLANs on a trunk link between switches. This allows the switches to transfer data for multiple VLANs (or networks) over a single physical connection. This method ensures that

traffic from different VLANs is properly separated and managed across the network.References:

CompTIA Network+ study materials.

QUESTION 4

A senior administrator has been directed to incorporate AAA services within a domain environment for regulatory compliance purposes. Which of the following standards will enable the use of an AAA server in a domain environment?

A. 802.1Q

B. 802.1X

C. 802.3bt

D. 802.11h

Correct Answer: B

802.1X is a standard that enables the use of an AAA server in a domain environment by providing port-based network access control. 802.1X authenticates users or devices before granting them access to the network resources, and can also authorize them based on their roles or policies. 802.1X can work with different AAA protocols, such as RADIUS or TACACS+, to communicate with the AAA server.

QUESTION 5

A network administrator wants to configure a backup route in case the primary route fails. A dynamic routing protocol is not installed on the router. Which of the following routing features should the administrator choose to accomplish this task?

A. Neighbor adjacency

B. Link state flooding

C. Administrative distance D. Hop count

Correct Answer: C

Introduction to Administrative Distance uk.co.certification.simulator.questionpool.PList@15cf51e2 Static Routes and Backup Routes Configuring Static Routes with Administrative Distance Example Configuration: plaintext Copy code ip route 192.168.1.0 255.255.255.0 10.0.0.1 1 ip route 192.168.1.0 255.255.255.0 10.0.0.2 10 uk.co.certification.simulator.questionpool.PList@512aeca7 Verification: References: CompTIA Network+ guide explains the concept of administrative distance and its use in static routing configuration (see page Ref 9Basic Configuration Commands).

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