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QUESTION 1

An organization has a security requirement that all network connections can be traced back to a user. A network administrator needs to identify a solution to implement on the wireless network. Which of the following is the best solution?

- A. Implementing enterprise authentication
- B. Requiring the use of PSKs
- C. Configuring a captive portal for users
- D. Enforcing wired equivalent protection

Correct Answer: A

Enterprise authentication (such as WPA2-Enterprise) utilizes unique credentials for each user, typically integrating with an authentication server like RADIUS. This allows for tracking and logging user activity, ensuring that all connections can

be traced back to individual users. PSKs (Pre-Shared Keys) are shared among users and do not provide individual accountability. Captive portals can identify users but are less secure than enterprise authentication, and Wired Equivalent

Privacy (WEP) is outdated and not recommended for security purposes.

Reference:

CompTIA Network+ materials highlight enterprise authentication methods as the preferred solution for secure and accountable wireless network access.

QUESTION 2

Which of the following attacks can cause users who are attempting to access a company website to be directed to an entirely different website?

- A. DNS poisoning
- B. Denial-of-service
- C. Social engineering
- D. ARP spoofing

Correct Answer: A

Network segmentation involves dividing a network into smaller segments or subnets. This is particularly important when integrating OT (Operational Technology) devices to ensure that these devices are isolated from other parts of the

network. Segmentation helps protect the OT devices from potential threats and minimizes the impact of any security incidents. It also helps manage traffic and improves overall network performance.

References:

CompTIA Network+ study materials.

QUESTION 3

A technician is working on a solution to isolate traffic between specific types of devices, servers, and users on the internal firewall. Which of the following traffic flows should be isolated?

- A. East-west
- B. Access/edge
- C. Core/distribution
- D. North-south

Correct Answer: A

QUESTION 4

A network engineer wants to implement a new IDS between the switch and a router connected to the LAN. The engineer does not want to introduce any latency by placing the IDS in line with the gateway. The engineer does want to ensure that the IDS sees all packets without any loss. Which of the following is the best way for the engineer to implement the IDS?

- A. Use a network tap.
- B. Use Nmap software.
- C. Use a protocol analyzer.
- D. Use a port mirror.

Correct Answer: D

Reference: CompTIA Network+ Certification Exam Objectives - Network Security section.

QUESTION 5

After upgrading to a SOHO router that supports Wi-Fi 6, the user determines throughput has not increased. Which of the following is the MOST likely cause of the issue?

- A. The wireless router is using an incorrect antenna type.
- B. The user's workstation does not support 802.11ax.
- C. The encryption protocol is mismatched.
- D. The network is experiencing interference.

Correct Answer: B

QUESTION 6

Which of the following routing protocols uses an autonomous system number?

- A. IS-IS
- B. EIGRP
- C. OSPF
- D. BGP

Correct Answer: D

BGP (Border Gateway Protocol) uses an Autonomous System (AS) number for its operations. An AS is a collection of IP networks and routers under the control of a single organization that presents a common routing policy to the Internet. BGP is used to exchange routing information between different ASes on the Internet, making it the only protocol among the listed options that uses an AS number. References: CompTIA Network+ study materials and RFC 4271.

QUESTION 7

A user is having trouble uploading files to a server. However, other users in the department are not experiencing this issue. The network administrator checks the access switch and sees multiple CRC errors on that user's switchport. Which of the following should the network administrator do first?

- A. Replace the uplink cable for the access switch.
- B. Replace the user's network cable.
- C. Replace the NIC for the user's PC.
- D. Replace the access switch.

Correct Answer: B

QUESTION 8

Which of the following OSI model layers will ensure messages are transmitted to their destinations and no data is duplicated?

- A. Session
- B. Data link
- C. Network
- D. Transport

Correct Answer: D

The transport layer is the fourth layer of the OSI model, and it is responsible for end-to-end delivery of data over a

network. It uses standard protocols such as TCP, UDP, and DCCP to enhance its functionalities. One of the main functions of the transport layer is to ensure that messages are transmitted to their destinations reliably and in the correct order. It also prevents data duplication by using sequence numbers, acknowledgments, and retransmission mechanisms

QUESTION 9

Which of the following attacks utilizes a network packet that contains multiple network tags?

- A. MAC flooding
- B. VLAN hopping
- C. DNS spoofing
- D. ARP poisoning

Correct Answer: B

VLAN hopping is an attack where an attacker crafts packets with multiple VLAN tags, allowing them to traverse VLAN boundaries improperly. This can result in gaining unauthorized access to network segments that are supposed to be

isolated. The other options do not involve the use of multiple network tags. MAC flooding aims to overwhelm a switch's MAC address table, DNS spoofing involves forging DNS responses, and ARP poisoning involves sending fake ARP messages.

Reference:

According to the CompTIA Network+ course materials, VLAN hopping exploits the tagging mechanism in network packets to gain unauthorized access.

QUESTION 10

Which of the following protocols has a default administrative distance value of 90?

- A. RIP
- B. EIGRP
- C. OSPF
- D. BGP

Correct Answer: B

EIGRP (Enhanced Interior Gateway Routing Protocol) has a default administrative distance (AD) value of 90 for internal routes. The administrative distance is used to rate the trustworthiness of routing information received from different routing protocols. EIGRP, developed by Cisco, has an AD of 90, which is lower than that of RIP (120) and OSPF (110), making it more preferred if multiple protocols provide a route to the same destination. References: CompTIA Network+ study materials.

QUESTION 11

A network technician added a new workstation to the network and needs to make a custom, shielded cable that is 492ft (150m) with both ends wired to TIA/EIA-568A standards. The workstation is not establishing a link to the switchport. Which of the following is the cause of the issue?

- A. Cable shielding
- B. Attenuation
- C. Incorrect pinout
- D. Near-end crosstalk

Correct Answer: B

QUESTION 12

A network engineer receives a vendor alert regarding a vulnerability in a router CPU. Which of the following should the engineer do to resolve the issue?

- A. Update the firmware.
- B. Replace the system board.
- C. Patch the OS.
- D. Isolate the system.

Correct Answer: A

Understanding the Vulnerability:

[uk.co.certification.simulator.questionpool.PList@1cae4595](#) Firmware Update:

Comparison with Other Options:

Best Practice:

References:

CompTIA Network+ study materials on network security and device management.

QUESTION 13

A network administrator is planning to host a company application in the cloud, making the application available for all internal and third-party users. Which of the following concepts describes this arrangement?

- A. Multitenancy
- B. VPC
- C. NFV

D. SaaS

Correct Answer: A

Multitenancy is a cloud computing architecture where a single instance of software serves multiple customers or tenants. Each tenant's data is isolated and remains invisible to other tenants. Hosting a company application in the cloud to be available for both internal and third-party users fits this concept, as it allows shared resources and infrastructure while maintaining data separation and security. References: CompTIA Network+ Exam Objectives and official study guides.

QUESTION 14

Which of the following cloud service models most likely requires the greatest up-front expense by the customer when migrating a data center to the cloud?

- A. Infrastructure as a service
- B. Software as a service
- C. Platform as a service
- D. Network as a service

Correct Answer: A

Reference: CompTIA Network+ Certification Exam Objectives - Cloud Models section.

QUESTION 15

A network administrator is in the process of installing 35 PoE security cameras. After the administrator installed and tested the new cables, the administrator installed the cameras. However, a small number of the cameras do not work. Which of the following is the most reason?

- A. Incorrect wiring standard
- B. Power budget exceeded
- C. Signal attenuation
- D. Wrong voltage

Correct Answer: B

When installing multiple Power over Ethernet (PoE) devices like security cameras, it is crucial to ensure that the total power requirement does not exceed the power budget of the PoE switch. Each PoE switch has a maximum power capacity,

and exceeding this capacity can cause some devices to fail to receive power. PoE Standards: PoE switches conform to standards such as IEEE 802.3af (PoE) and 802.3at (PoE+), each with specific power limits per port and total power capacity.

Power Calculation: Adding up the power requirements of all connected PoE devices can help determine if the total

power budget of the switch is exceeded. Symptoms: When the power budget is exceeded, some devices, typically those

farthest from the switch or connected last, may not power up or function correctly.

Network References:

CompTIA Network+ N10-007 Official Certification Guide: Covers PoE standards and troubleshooting power issues.

Cisco Networking Academy: Discusses PoE technologies, power budgeting, and managing PoE devices.

Network+ Certification All-in-One guide: Provides information on PoE setup, including power budget considerations.

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