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QUESTION 1

A network technician discovered multiple failed logins on a production server. Upon investigation, the technician determined that a client plugged a personal laptop in to the corporate LAN, which allowed malware on the laptop to probe the network. Which of the following would have prevented this unauthorized device?

A. Port security

B. Bring your own device policy

C. Patch management

D. Changing default passwords

Correct Answer: A

QUESTION 2

A technician is investigating why a PC cannot reach a file server with the IP address 192.168.8.129. Given the following TCP/IP network configuration:

Link-local IPv6 address	fe80::28e4:a7cc:a55e:4bea
IPv4 address	192.168.8.105
Subnet mask	255.255.255.128
Default gateway	192.168.8.1

Which of the following configurations on the PC is incorrect?

A. Subnet mask

B. IPv4 address

C. Default gateway

D. IPv6 address

Correct Answer: C

The default gateway is the IP address of the router that connects the PC to other networks. The default gateway should be on the same subnet as the PC\\'s IPv4 address. However, in this case, the default gateway is 192.168.9.1, which is on a different subnet than the PC\\'s IPv4 address of 192.168.8.15. Therefore, the default gateway configuration on the PC is incorrect and prevents the PC from reaching the file server on another subnet.

QUESTION 3

An IT technician installs five old switches in a network. In addition to the low port rates on these switches, they also have improper network configurations. After three hours, the network becomes overwhelmed by continuous traffic and

eventually shuts down. Which of the following is causing the issue?

A. Broadcast storm

B. Collisions

C. IP settings

D. Routing loops

Correct Answer: A

A broadcast storm is a situation where a network is flooded with broadcast packets, which are sent to all devices on the network. This can consume bandwidth, cause congestion, and degrade performance. A broadcast storm can be caused by improper network configurations, such as loops or misconfigured switches. In this scenario, the old switches may have created loops or failed to filter broadcast packets, resulting in a broadcast storm that overwhelmed the network. References: CompTIA Network+ Certification Exam Objectives Version 7.0 (N10-007), Objective 2.4: Given a scenario, use appropriate software tools to troubleshoot connectivity issues.

QUESTION 4

A technician receives feedback that some users are experiencing high amounts of jitter while using the wireless network. While troubleshooting the network, the technician uses the ping command with the IP address of the default gateway and verifies large variations in latency. The technician thinks the issue may be interference from other networks and non-802.11 devices. Which of the following tools should the technician use to troubleshoot the issue?

A. NetFlow analyzer

B. Bandwidth analyzer

C. Protocol analyzer

D. Spectrum analyzer

Correct Answer: D

A spectrum analyzer is a tool that focuses on the physical layer, which will vary based on the type of analyzer. Although vendors make these analyzers for both audio and optical signals, in most cases spectrum analyzers are used to analyze wireless or radio frequency signals. Spectrum analyzers are primarily used to identify and measure the strength of radio signals that are present in the area. They can visually display these signals by frequency on the device. These devices are used to locate sources of interference that may impact the operation of a wireless network.

QUESTION 5

Which of the following protocols can be routed?

A. FCoE

B. Fibre Channel

C. iSCSI

D. NetBEUI

Correct Answer: C

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