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QUESTION 1

Network upgrades have been completed and the WINS server was shutdown. It was decided that NetBIOS network traffic will no longer be permitted. Which of the following will accomplish this objective?

- A. Content filtering
- B. Port filtering
- C. MAC filtering
- D. IP filtering

Correct Answer: B

TCP/IP port filtering is the practice of selectively enabling or disabling Transmission Control Protocol (TCP) ports and User Datagram Protocol (UDP) ports on computers or network devices. When used in conjunction with other security practices, such as deploying firewall software at your Internet access point, applying port filters to intranet and Internet servers insulates those servers from many TCP/IP-based security attacks, including internal attacks by malicious users.

QUESTION 2

The process of restricting internal web traffic to an employee-only website based upon Layer 3 addresses is known as which of the following?

- A. MAC filtering
- B. Traffic shaping
- C. Session filtering
- D. IP filtering

Correct Answer: D

QUESTION 3

Which of the following commands can a network technician use to check whether the DNS server for a given domain is reachable?

- A. nmap
- B. nbtstat
- C. dig
- D. arp

Correct Answer: C

The command dig is a tool for querying DNS nameservers for information about host addresses, mail exchanges, nameservers, and related information. This tool can be used from any Linux (Unix) or Macintosh OS X operating system. The most typical use of dig is to simply query a single host.

QUESTION 4

A network administrator has decided to tighten company security after a recent data breach. The new scheme calls for a strong 10 character password, a special 4 digit pin code, and a one-time use dynamic token that is accessed via a smartphone application.

Which of the following is being implemented?

- A. Two-factor authentication
- B. Biometric security
- C. Multi-factor authentication
- D. Single factor authentication

Correct Answer: A

QUESTION 5

After a network technician has added a new workstation and cabling to the network, users report the network is very slow. The activity lights on all switches are blinking rapidly, showing large amounts of traffic. Which of the following is the BEST explanation for the traffic?

- A. The new user is downloading large files.
- B. The router failed, flooding the network with beacons.
- C. The new user's IP address is a duplicate.
- D. A switching loop was created.

Correct Answer: D

Switching loop or Bridge loop occurs in computer networks when there is more than one Layer 2 (OSI model) path between two endpoints (e.g. multiple connections between two network switches or two ports on the same switch connected to each other). The loop creates broadcast radiation as broadcasts and multicasts are forwarded by switches out every port, the switch or switches will repeatedly rebroadcast the broadcast messages flooding the network.