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**QUESTION 1**

A security analyst has received several reports of an issue on an internal web application. Users state they are having to provide their credentials twice to log in. The analyst checks with the application team and notes this is not an expected behavior. After looking at several logs, the analyst decides to run some commands on the gateway and obtains the following output:

| Internet address | Physical address | Type |
|------------------|-------------------|---------|
| 192.168.1.1 | ff-ec-ab-00-aa-78 | dynamic |
| 192.168.1.5 | ff-00-5e-48-00-fb | dynamic |
| 192.168.1.8 | 00-0c-29-1a-e7-fa | dynamic |
| 192.168.1.10 | fc-41-5e-48-00-ff | dynamic |
| 224.215.54.47 | fc-00-5e-48-00-fb | static |

Which of the following BEST describes the attack the company is experiencing?

- A. MAC flooding
- B. URL redirection
- C. ARP poisoning
- D. DNS hijacking

Correct Answer: C

ARP Poisoning (also known as ARP Spoofing) is a type of cyber attack carried out over a Local Area Network (LAN) that involves sending malicious ARP packets to a default gateway on a LAN in order to change the pairings in its IP to MAC address table. ARP Protocol translates IP addresses into MAC addresses.

QUESTION 2

An email recipient is unable to open a message encrypted through PKI that was sent from another organization. Which of the following does the recipient need to decrypt the message?

- A. The sender's private key
- B. The recipient's private key
- C. The recipient's public key
- D. The CA's root certificate
- E. The sender's public key
- F. An updated CRL

Correct Answer: E

**QUESTION 3**

An employer requires that employees use a key-generating app on their smartphones to log into corporate applications. In terms of authentication of an individual, this type of access policy is BEST defined as:

- A. Something you have.
- B. Something you know.
- C. Something you do.
- D. Something you are.

Correct Answer: A

QUESTION 4

A systems administrator wants to provide balance between the security of a wireless network and usability. The administrator is concerned with wireless encryption compatibility of older devices used by some employees. Which of the following would provide strong security and backward compatibility when accessing the wireless network?

- A. Open wireless network and SSL VPN
- B. WPA using a preshared key
- C. WPA2 using a RADIUS back-end for 802.1x authentication
- D. WEP with a 40-bit key

Correct Answer: A

QUESTION 5

Which of the following would allow for the QUICKEST restoration of a server into a warm recovery site in a case in which server data mirroring is not enabled?

- A. Full backup
- B. Incremental backup
- C. Differential backup
- D. Snapshot

Correct Answer: C

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