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QUESTION 1

Which of the following would be a reason for developers to utilize an AES cipher in CCM mode (Counter with Chain Block Message Authentication Code)?

A. It enables the ability to reverse the encryption with a separate key

B. It allows for one time pad inclusions with the passphrase

C. Counter mode alternates between synchronous and asynchronous encryption

D. It allows a block cipher to function as a steam cipher

Correct Answer: D

QUESTION 2

Client computers login at specified times to check and update antivirus definitions using a dedicated account configured by the administrator. One day the clients are unable to login with the account, but the server still responds to ping requests. The administrator has not made any changed. Which of the following most likely happened?

A. Group policy is blocking the connection attempts

B. The administrator account has been disabled

C. The switch port for the server has died

D. The password on the account has expired

Correct Answer: D

QUESTION 3

Which of the following authentication methods requires the user, service provider and an identity provider to take part in the authentication process?

A. RADIUS

B. SAML

C. Secure LDAP

D. Kerberos

Correct Answer: A

QUESTION 4

Joe, the Chief Technical Officer (CTO), is concerned about new malware being introduced into the corporate network.

He has tasked the security engineers to implement a technology that is capable of alerting the team when unusual traffic is on the network. Which of the following types of technologies will BEST address this scenario?

A. Application Firewall

B. Anomaly Based IDS

C. Proxy Firewall

D. Signature IDS

Correct Answer: B

Anomaly-based detection watches the ongoing activity in the environment and looks for abnormal occurrences. An anomaly-based monitoring or detection method relies on definitions of all valid forms of activity. This database of known valid activity allows the tool to detect any and all anomalies. Anomaly-based detection is commonly used for protocols. Because all the valid and legal forms of a protocol are known and can be defined, any variations from those known valid constructions are seen as anomalies.

QUESTION 5

A security engineer, Joe, has been asked to create a secure connection between his mail server and the mail server of a business partner. Which of the following protocol would be MOST appropriate?

A. HTTPS

B. SSH

C. FTP

D. TLS

Correct Answer: D

Explanation: Transport Layer Security (TLS) is a cryptographic protocol designed to provide communications security over a computer network. It uses X.509 certificates and hence asymmetric cryptography to authenticate the counterparty with whom it is communicating, and to exchange a symmetric key. The TLS protocol allows client-server applications to communicate across a network in a way designed to prevent eavesdropping and tampering.

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