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ISACA Certified Cybersecurity Operations Analyst Sample Questions (Q125-Q130):

NEW QUESTION # 125

Which of the following BEST offers data encryption, authentication, and integrity of data flowing between a server and the client?

- A. Transport Layer Security (TLS)

- B. Simple Network Management Protocol (SNMP)
- C. Secure Sockets Layer (SSL)
- D. Kerberos

Answer: A

Explanation:

Transport Layer Security (TLS) provides:

- * Data Encryption: Ensures that the data transferred between the client and server is encrypted, preventing eavesdropping.
- * Authentication: Verifies the identity of the server (and optionally the client) through digital certificates.
- * Data Integrity: Detects any tampering with the transmitted data through cryptographic hash functions.
- * Successor to SSL: TLS has largely replaced SSL due to better security protocols.

Incorrect Options:

- * A. Secure Sockets Layer (SSL): Deprecated in favor of TLS.
- * B. Kerberos: Primarily an authentication protocol, not used for data encryption in transit.
- * D. Simple Network Management Protocol (SNMP): Used for network management, not secure data transmission.

Exact Extract from CCOA Official Review Manual, 1st Edition:

Refer to Chapter 5, Section "Encryption Protocols," Subsection "TLS" - TLS is the recommended protocol for secure communication between clients and servers.

NEW QUESTION # 126

How can port security protect systems on a segmented network?

- A. By enforcing encryption of data on the network
- **B. By preventing unauthorized access to the network**
- C. By establishing a Transport Layer Security (TLS) handshake
- D. By requiring multi-factor authentication

Answer: B

Explanation:

Port security is a network control technique used primarily to prevent unauthorized access to a network by:

- * MAC Address Filtering: Restricts which devices can connect by allowing only known MAC addresses.
- * Port Lockdown: Disables a port if an untrusted device attempts to connect.
- * Mitigating MAC Flooding: Helps prevent attackers from overwhelming the switch with spoofed MAC addresses.

Incorrect Options:

- * A. Enforcing encryption: Port security does not directly handle encryption.
- * C. Establishing TLS handshake: TLS is related to secure communications, not port-level access control.
- * D. Requiring multi-factor authentication: Port security works at the network level, not the authentication level.

Exact Extract from CCOA Official Review Manual, 1st Edition:

Refer to Chapter 5, Section "Network Security," Subsection "Port Security" - Port security helps protect network segments by controlling device connections based on MAC address.

NEW QUESTION # 127

Which of the following security practices is MOST effective in reducing system risk through system hardening?

- **A. Enabling only the required capabilities**
- B. Permitting only the required access
- C. Having more than one user to complete a task
- D. Giving users only the permissions they need

Answer: A

Explanation:

System hardening involves disabling unnecessary features and enabling only required capabilities to reduce the attack surface:

- * Minimizing Attack Vectors: Reduces potential entry points by disabling unused services and ports.
- * Configuration Management: Ensures only essential features are active, reducing system complexity.
- * Best Practice: Hardening is part of secure system configuration management to mitigate vulnerabilities.

Incorrect Options:

- * A. Multiple users completing a task: More related to separation of duties, not hardening.
- * B. Permitting only required access: Relevant for access control but not directly for system hardening.
- * C. Giving users only necessary permissions: Reduces privilege risks but does not reduce the system attack surface.

Exact Extract from CCOA Official Review Manual, 1st Edition:

Refer to Chapter 4, Section "System Hardening Techniques," Subsection "Minimal Configuration" - Hardening involves enabling only necessary system functions to reduce risks.

NEW QUESTION # 128

Which of the following is the MOST effective way to obtain business owner approval of cybersecurity initiatives across an organisation?

- A. Conduct an Internal audit.
- B. Generate progress reports.
- C. Provide data classifications.
- **D. Create a steering committee.**

Answer: D

Explanation:

The most effective way to obtain business owner approval for cybersecurity initiatives is to create a steering committee that includes key stakeholders from different departments. This approach works because:

- * Inclusive Decision-Making: Involving business owners in a structured committee fosters collaboration and buy-in.
- * Alignment with Business Goals: A steering committee ensures that cybersecurity initiatives align with the organization's strategic objectives.
- * Regular Communication: Provides a formal platform to present cybersecurity challenges, proposed solutions, and progress updates.
- * Informed Decisions: Business owners are more likely to support initiatives when they understand the risks and benefits.
- * Consensus Building: A committee fosters a sense of ownership and shared responsibility for cybersecurity.

Other options analysis:

- * A. Provide data classifications: While useful for identifying data sensitivity, this alone does not directly gain approval.
- * C. Generate progress reports: These are informative but lack the strategic collaboration needed for decision-making.
- * D. Conduct an Internal audit: Helps assess current security posture but does not engage business owners proactively.

CCOA Official Review Manual, 1st Edition References:

- * Chapter 2: Governance and Management: Discusses forming committees for cross-functional decision-making.
- * Chapter 5: Risk Management Strategies: Emphasizes stakeholder engagement through structured groups.

NEW QUESTION # 129

Which of the following is a network port for service message block (SMB)?

- **A. 0**
- B. 1
- C. 2
- D. 3

Answer: A

Explanation:

Port 445 is used by Server Message Block (SMB) protocol:

- * SMB Functionality: Allows file sharing, printer sharing, and access to network resources.
- * Protocol: Operates over TCP, typically on Windows systems.
- * Security Concerns: Often targeted for attacks like EternalBlue, which was exploited by the WannaCry ransomware.
- * Common Vulnerabilities: SMBv1 is outdated and vulnerable; it is recommended to use SMBv2 or SMBv3.

Incorrect Options:

- * B. 143: Used by IMAP for email retrieval.
- * C. 389: Used by LDAP for directory services.
- * D. 22: Used by SSH for secure remote access.

Exact Extract from CCOA Official Review Manual, 1st Edition:

Refer to Chapter 5, Section "Common Network Ports and Services," Subsection "SMB and Network File Sharing" - Port 445 is commonly used for SMB file sharing on Windows networks.

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