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The security team plans to deploy an intrusion detection system (IDS) solution to alert engineers about inbound threats. The team already has a database of signatures that they want the IDS solution to validate. Which detection technique meets the requirements?

- A - Intrusion detection
- B - Deep packet inspection
- C - Signature-based detection
- D - Intrusion prevention - **CORRECT ANSWER** C - Signature-based detection

An IT organization had a security breach after deploying an update to its production web servers. The application currently goes through a manual update process a few times per year. The security team needs to recommend a fallback option for future deployments. Which solution fulfills these requirements?

- A - Implementing a code scanner
- B - Implementing code signing
- C - Implementing versioning
- D - Implementing a security requirements traceability matrix (SRTM) - **CORRECT ANSWER** C - Implementing versioning

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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q153-Q158):

NEW QUESTION # 153

What is a function of a proxy server?

- A. It responds to user queries to create, manipulate, and retrieve records from a database.
- B. It stores files that any user of the network may wish to access.
- **C. It acts as a giant cache of web pages that anyone in the organization has recently retrieved.**
- D. It responds to HTTP requests and can execute scripts to generate dynamic pages.

Answer: C

Explanation:

* Proxy Server Functions:

* Caching: Proxy servers can store copies of web pages and other web resources. This helps to improve load times for frequently accessed resources and reduce bandwidth usage.

* Security: They can provide additional security by anonymizing the user's IP address and filtering unwanted content.

* Correct Function:

* Acting as a cache (B) is one of the primary functions, where it stores web pages that users in the organization have recently accessed.

* Incorrect Functions:

* A: Describes a file server.

* C: Describes a database server.

* D: Describes a web server.

References:

* Proxy servers: Proxy Server

* Caching in proxy servers:Caching Proxy

NEW QUESTION # 154

An IT organization needs to enable secure communication across virtual networks in Microsoft Azure and Amazon Web Services. Which protocol will offer the most reliable and secure method for data transport?

- A. File Transfer Protocol (FTP)
- **B. Internet Protocol Security (IPsec)**
- C. Secure Shell (SSH)

Answer: B

Explanation:

IPsec is an end-to-end encryption protocol that operates at the network layer, providing authentication, integrity, and confidentiality between virtual networks—even across different cloud environments like Azure and AWS.

NIST SP 800-77 Rev. 1 (Guide to IPsec VPNs):

"IPsec provides network-layer protection through authentication headers (AH) and encapsulating security payloads (ESP), suitable for securing traffic across untrusted environments." FTP is insecure, and SSH is more suitable for command-line access or remote sessions—not secure VPC-to- VPC tunnels.

#WGU Course Alignment:

Domain:Cryptography

Topic:Use encryption protocols like IPsec for secure data transmission between networks

NEW QUESTION # 155

A healthcare organization is concerned about the potential risks associated with unauthorized access to sensitive patient information on its endpoint devices. The organization has decided to implement hardening techniques and endpoint security controls to mitigate the risk.

Which hardening technique will meet the needs of this organization?

- A. Conducting regular vulnerability assessments and penetration testing
- **B. Logging and monitoring endpoint devices**
- C. Implementing a network-based intrusion detection and prevention system
- D. Enforcing strict password policies for all user accounts

Answer: B

Explanation:

Logging and monitoring endpoint activity enables early detection of unauthorized access, suspicious file changes, or user behavior anomalies that may indicate an insider threat or external breach.

NIST SP 800-137 (Information Security Continuous Monitoring):

"Endpoint logging and behavior monitoring are essential for detecting unauthorized access to sensitive information, especially in healthcare environments governed by HIPAA." This control supports real-time alerting, incident response, and compliance auditing for patient data (ePHI).

#WGU Course Alignment:

Domain:System Security Engineering

Topic:Implement endpoint monitoring and logging for healthcare compliance (e.g., HIPAA)

NEW QUESTION # 156

A company is planning to implement a new cloud-based system to store sensitive customer information.

What should be identified in the first step of the risk management process for this project?

- A. Potential vulnerabilities of the new system
- B. Potential business impacts of a security breach
- **C. Business assets that will be stored in the new system**
- D. Possible threats to the new system

Answer: C

Explanation:

The correct answer is D - Business assets that will be stored in the new system.

As described in WGU Cybersecurity Architecture and Engineering (KFO1 / D488), the first step in risk management is identifying and classifying assets that need protection. Without understanding the business assets, you cannot properly assess threats, vulnerabilities, or impacts.

Threats (A), impacts (B), and vulnerabilities (C) are assessed after assets are identified.

Reference Extract from Study Guide:

"Identifying and classifying business assets is the first step in the risk management process, as assets drive the prioritization of threats and mitigations."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Risk Identification and Asset Classification

NEW QUESTION # 157

An IT organization has recently implemented a hybrid cloud deployment. The server team is deploying a new set of domain-joined Windows servers on cloud-based virtual machines. Users must be able to use their Active Directory credentials to sign in to applications regardless of whether they are running on Windows servers in the cloud or on-premises.

Which solution should be implemented to meet the requirements?

- **A. Identity federation**
- B. Two-step verification

- C. Challenge-Handshake Authentication Protocol (CHAP)
- D. Privileged identity management

Answer: A

Explanation:

The correct answer is D - Identity federation.

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) details that identity federation enables users to authenticate using the same credentials across multiple systems and platforms, including hybrid cloud and on-premises environments. Federation facilitates Single Sign-On (SSO) and seamless authentication.

Two-step verification (A) improves authentication strength but does not federate identities. CHAP (B) is an old protocol for PPP connections. Privileged identity management (C) manages high-privilege accounts, not general user access across domains.

Reference Extract from Study Guide:

"Identity federation allows for seamless authentication across on-premises and cloud environments by trusting external identity providers, supporting Single Sign-On (SSO) and hybrid deployments."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Federation and Identity Management Concepts

NEW QUESTION # 158

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