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**2025 WGU D488 Cybersecurity Architecture and Engineering Oa/ Wgu D488 Objective Assessment
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The security team has noticed that several endpoints on the network have been infected with malware. Leadership has tasked the security team with identifying these attacks in the future.

Which solution will notify the team automatically in the event of future malware variants invading the network?

A) Security information and event management (SIEM) alerts
B) Data loss prevention (DLP) alerts
C) Antivirus alerts
D) Syslog alerts
C) Antivirus alerts

The cybersecurity analyst at a software company conducted a vulnerability assessment to identify potential security risks to the organization and discovered multiple vulnerabilities on the company's webpage. The analyst then provided the results to the chief information security officer (CISO), who then decided not to fix the discrepancies due to the vulnerabilities being outside of the organization's resources.

Which risk mitigation strategy is demonstrated in this scenario?

A) Accept
B) Mitigate
C) Avoid
D) Transfer
A) Accept

pg. 1

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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q179-Q184):

NEW QUESTION # 179

The security team manages a set of legacy firewalls that have been in production for nearly tenyears. The organization recently issued a mandate requiring that all firewalls be configured with intrusion detection controls that alert the team in real time based on known threats.

- A. Replacing the legacy firewalls with a security information and event management (SIEM) appliance
- B. Replacing the legacy firewalls with a load balancer
- C. **Replacing the legacy firewalls with next-generation firewalls (NGFWs)**
- D. Replacing the legacy firewalls with a reverse proxy

Answer: C

Explanation:

Next-Generation Firewalls (NGFWs)offer a unified solution that includes traditional packet filtering andadvanced detection featureslike Intrusion Detection and Prevention (IDPS). This makes them the most efficient and scalable option for replacing legacy firewalls in modern environments.

NIST SP 800-94 Rev. 1 (Guide to Intrusion Detection and Prevention Systems):

"NGFWs integrate IDS/IPS features with traffic inspection, enabling detection and prevention of attacks in real time."

#WGU Course Alignment:

Domain:Security Operations

Topic:Implement detection and prevention solutions (e.g., NGFWs, IDS/IPS)

NEW QUESTION # 180

A healthcare provider is required to comply with the Health Insurance Portability and Accountability Act (HIPAA), which sets requirements for the protection of patient health information. The provider uses various software applications to manage and store patient health information, which must be coded to protect its confidentiality and integrity.

Which protocol will meet the needs of this provider?

- A. Wired Equivalent Privacy (WEP)
- B. Rivest-Shamir-Adleman (RSA)
- C. Simple Mail Transfer Protocol (SMTP)
- D. **Advanced Encryption Standard (AES)**

Answer: D

Explanation:

The correct answer is B - Advanced Encryption Standard (AES).

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), AES is a widely adopted symmetric encryption standard that ensures the confidentiality and integrity of sensitive data, including patient health information, which HIPAA mandates to protect. AES is considered highly secure and efficient for encrypting stored or transmitted healthcare data.

WEP (A) is outdated and insecure. SMTP (C) is a protocol for sending emails, not encryption. RSA (D) is an asymmetric encryption method typically used for key exchanges, not bulk data encryption.

Reference Extract from Study Guide:

"Advanced Encryption Standard (AES) is recommended for encrypting sensitive healthcare data, providing strong protection for confidentiality and integrity in HIPAA-regulated environments."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Encryption Standards and Regulatory Compliance

NEW QUESTION # 181

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.

- A. Challenge-Handshake Authentication Protocol (CHAP)
- B. Two-step verification
- C. Privileged identity management
- **D. Identity federation**

Answer: D

Explanation:

Identity federation allows authentication credentials to be used across multiple systems or domains- including on-premises and cloud platforms- without duplicating user databases.

NIST SP 800-63C (Federated Identity Guidelines):

"Federation enables users to access multiple, disparate services using a single digital identity that can be shared securely across organizational boundaries." This approach is essential in hybrid architectures where cloud VMs and on-prem servers must recognize a centralized identity provider like Active Directory.

#WGU Course Alignment:

Domain: Access Control and Identity Management

Topic: Implement federated identity in hybrid and multi-cloud environments

NEW QUESTION # 182

A software development company has experienced a noticeable slowdown in its network performance, which suggests that some machines on the network may have been infected by a botnet. The company has decided to analyze the threats and vulnerabilities within the enterprise based on the indicators of compromise to mitigate the risk.

What should the company do to detect a botnet and other malware-based threats within the enterprise based on the indicators of compromise?

- A. Use two-factor authentication for external users
- B. Implement a configuration management solution
- **C. Constantly scan for known signatures on every machine**
- D. Define strict firewall rules

Answer: C

Explanation:

The correct answer is C - Constantly scan for known signatures on every machine.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), scanning for known malware signatures is an essential method for detecting infections such as botnets. Signature-based detection compares files and behaviors against databases of known indicators of compromise (IOCs).

Two-factor authentication (A) protects login processes but does not detect malware. Firewall rules (B) help control access but do not detect infections. Configuration management (D) ensures system setup integrity but does not detect botnets.

Reference Extract from Study Guide:

"Signature-based scanning detects malware and botnets by comparing system files and behaviors against databases of known threats and indicators of compromise (IOCs)."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Malware Detection and Threat Response

NEW QUESTION # 183

An application team manages a large farm of web servers on virtual machines in the cloud. The team wants to reduce the server load by caching static content. Adding a second layer of protection is also a requirement.

What should this team recommend in this scenario?

- A. Firewall rule changes
- **B. Reverse proxy**
- C. Intrusion detection system (IDS)
- D. Network address translation (NAT)

Answer: B

Explanation:

The correct answer is C - Reverse proxy.

As per the WGU Cybersecurity Architecture and Engineering (KFO1 / D488) course content, a reverse proxy server acts on behalf of web servers by caching static content (such as images, scripts, and HTML files), significantly reducing server load. It also provides an additional layer of protection by hiding the backend servers from direct exposure to clients and enabling centralized application of security policies such as SSL termination and Web Application Firewall (WAF) integration.

Firewall rule changes (A) manage access control but do not handle caching or reduce load. An IDS (B) monitors for intrusions but doesn't offload traffic or cache content. NAT (D) translates IP addresses but doesn't cache content or add a protection layer.

Reference Extract from Study Guide:

"A reverse proxy server provides caching capabilities for static content and acts as a protective intermediary between client requests and backend servers, thus reducing server load and enhancing security."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Secure Network Design Concepts

NEW QUESTION # 184

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