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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

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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q70-Q75):

NEW QUESTION # 70

A cybersecurity analyst at a manufacturing company is tasked with analyzing the indicators of compromise (IOCs) to identify potential threats and vulnerabilities within the organization. While viewing the security information and event management (SIEM), the analyst notices an unknown IP address logging on to the company's Secure Shell (SSH) server.

Which potential vulnerability is the manufacturing company facing?

- A. Enumeration
- B. Exfiltration
- **C. Weak passwords**
- D. Unpatched software

Answer: C

Explanation:

The correct answer is D - Weak passwords.

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), unauthorized SSH access from an unknown IP address often suggests that the attacker exploited weak or compromised passwords to gain access. Weak passwords are a common vulnerability for services exposed to the internet, especially SSH servers.

Exfiltration (A) refers to data theft after access, not initial unauthorized access. Unpatched software (B) might lead to other vulnerabilities but is not indicated here. Enumeration (C) is gathering information but not gaining login access directly.

Reference Extract from Study Guide:

"Weak or compromised passwords are a primary cause of unauthorized access, particularly for remote management interfaces such as SSH."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Authentication Security BestPractices

NEW QUESTION # 71

Which data type should be used to calculate 90% of the retail price of an item?

- A. Boolean
- B. Auto-number
- **C. Floating-point**
- D. String

Answer: C

Explanation:

A floating-point data type is used for numerical calculations that require a decimal point, such as percentages.

In this case, to calculate 90% of the retail price of an item, a floating-point data type is necessary because it can represent both the whole number and the fractional part of the number, allowing for precise calculations.

NEW QUESTION # 72

A government agency is planning a hybrid cloud deployment. Strict controls must be in place that can label classified data. The solution must ensure that access rights will be granted based on the user's government security classification.

- A. Role-Based Access Control (RBAC)
- **B. Mandatory Access Control (MAC)**
- C. Attribute-Based Access Control (ABAC)

Answer: B

Explanation:

Mandatory Access Control (MAC) is the access control model used in environments that manage classified information such as government or military systems. Under MAC, access is based on security labels (e.g., Top Secret, Confidential), and users cannot change access controls.

NIST SP 800-53 Rev. 5 - AC-3 (Access Enforcement):

"MAC policies enforce access based on system-enforced labels, without user discretion, and are ideal for high-security environments where strict data control is essential." MAC is the only model where access control decisions are centrally controlled and enforced by a policy administrator, making it ideal for environments requiring data labeling and user classification.

#WGU Course Alignment:

Domain: Access Control and Identity Management

Topic: Understand and apply MAC for high-security environments

NEW QUESTION # 73

Which two benefits do computer networks provide for businesses?

Choose 2 answers

- A. Organization cost savings
- B. Increased business efficiency
- **C. Lower IT operations costs**
- D. Improved information security
- E. Increased Internet communications speed

Answer: C

NEW QUESTION # 74

A project manager is working on a project that involves securing the network of a tall building. The manager is tasked with managing these risks effectively to ensure the successful completion of the project within a given time frame and budget. The manager identified multiple potential risks associated with the project.

What is the next step in the risk management life cycle?

- A. Review
- B. Identify
- **C. Assess**
- D. Control

Answer: C

Explanation:

The correct answer is C - Assess.

As per WGU Cybersecurity Architecture and Engineering (KFO1 / D488) materials, after risks have been identified, the next step in the risk management life cycle is to assess them. Assessment involves analyzing and prioritizing the risks based on their potential impact and likelihood. Only after assessment can proper strategies be formulated for controlling and mitigating the risks.

Identification (A) occurs before assessment, while reviewing (B) and controlling (D) happen later in the process.

Reference Extract from Study Guide:

"Following the identification of risks, the risk management process proceeds to risk assessment, where risks are analyzed and prioritized based on likelihood and impact to guide mitigation efforts."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Risk Management Process

NEW QUESTION # 75

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