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QUESTION
A company is concerned about the security of its network and wants to implement a control that will allow only preapproved software to run on its endpoints. Which control should the company implement to achieve this goal?

ANSWER
Allowlisting

QUESTION
A company is concerned about the potential risks associated with unauthorized access to its cloud infrastructure. The company has decided to implement security controls to mitigate the risk. Which actions can ensure the integrity and authenticity of the cloud infrastructure and applications?

ANSWER
Implementing attestation services

QUESTION
A company is looking to protect sensitive data stored on its storage devices and ensure that this data is secure from unauthorized access. The company is looking for a solution that provides a high level of security and protection for its data. Which security technology will protect sensitive data stored on the company's storage devices by automatically initiating security procedures as they are written to the device?

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WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q80-Q85):

NEW QUESTION # 80

Why are businesses beginning to use big data?

- A. To integrate vast amounts of electronic data into analysis in order to gain insight for better decision making
- B. To connect a myriad of devices to the Internet and allow these devices to logically interact with one another
- C. To store enormous amounts of paper documents and electronic data in databases and data warehouses for future analysis
- D. To collect large amounts of data from various sources, both external and internal, both paper and electronic

Answer: A

Explanation:

Big data refers to the use of large and complex data sets that traditional data-processing software cannot adequately handle. Businesses leverage big data to analyze and systematically extract information from large datasets, which helps them gain valuable insights, improve decision-making, enhance customer experiences, and optimize business processes. This capability is critical in today's data-driven world, where informed decision-making can significantly impact a company's success.

NEW QUESTION # 81

What type of a system requirement involves preventing unauthorized access to data?

- A. Design
- B. Accessibility
- C. User needs
- D. Security

Answer: D

Explanation:

A system requirement that involves preventing unauthorized access to data is a **Security requirement**. Security requirements ensure that the system:

- * Protects data integrity: Ensuring data is accurate and unchanged by unauthorized users.
- * Maintains confidentiality: Preventing unauthorized access to sensitive information.
- * Ensures availability: Making sure that data and resources are available to authorized users when needed.

Security requirements are critical for safeguarding the system against threats and vulnerabilities.

References

* Dieter Gollmann, "Computer Security," Wiley.

* Ross Anderson, "Security Engineering: A Guide to Building Dependable Distributed Systems," Wiley.

NEW QUESTION # 82

A retail company wants to establish the frequency at which it needs to backup its critical data to ensure it can be restored in case of a disruption with the least amount of acceptable loss in recovery.

What is the term used to describe this metric?

- A. Business impact analysis (BIA)
- B. Disaster recovery (DR)
- C. Continuous data protection (CDP)
- D. Recovery point objective (RPO)

Answer: D

Explanation:

The correct answer is D - Recovery point objective (RPO).

According to WGU Cybersecurity Architecture and Engineering (KFO1 / D488), the RPO defines the maximum amount of data loss that is tolerable in terms of time. It sets the backup frequency to ensure that in the event of a disruption, no more than the specified amount of data is lost.

Continuous data protection (A) is a method but not the term for the metric. BIA (B) identifies impacts but does not define backup timing. DR (C) refers to the overall recovery process, not backup frequency.

Reference Extract from Study Guide:

"Recovery point objective (RPO) defines the maximum age of files that must be recovered from backup storage for normal operations to resume after a failure."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Disaster Recovery and Recovery Objectives

NEW QUESTION # 83

A company has recently completed its disaster recovery plan and is preparing to test it. The company's IT team has identified the need to simulate a disaster scenario to evaluate the effectiveness of the plan. The team has considered a few options, including a full interruption test, a walk-through, tabletop exercises, and checklists. They want to choose a testing method that will allow them to evaluate the plan in a controlled environment while minimizing the impact on the company's operations.

Which testing method will meet the needs of the company?

- A. Full interruption test
- B. Tabletop exercises
- C. Checklists
- D. Walk-through

Answer: B

Explanation:

The correct answer is B - Tabletop exercises.

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) defines a tabletop exercise as a controlled simulation where participants discuss their roles during a simulated disaster scenario. It allows the evaluation of the plan without causing real disruption to operations.

Walk-throughs (A) review plans but are less interactive. Checklists (C) are passive validation. Full interruption tests (D) would disrupt operations, which the company wants to avoid.

Reference Extract from Study Guide:

"Tabletop exercises allow teams to simulate disaster scenarios in a controlled, discussion-based format, helping validate plans without impacting real-world operations."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Disaster Recovery Testing Methods

NEW QUESTION # 84

A corporate website is currently being redesigned, which leaves it vulnerable to security threats. Management does not want to provide an attacker with any information about the web server. Which strategy should be used to prevent an attacker from gaining unauthorized information?

- A. Using HTTPS for all page and content requests
- B. Becoming PCI-DSS compliant and certified
- C. Enabling Hypertext Transfer Protocol Secure (HTTPS) over Domain Name Service (DNS)
- D. Obfuscating error messages on the site or within the Uniform Resource Locator (URL)

Answer: D

Explanation:

Obfuscating error messages prevents attackers from receiving technical details (e.g., software version, file paths, or database errors) that they can use for exploitation. This is part of secure coding and error handling practices.

OWASP Secure Coding Practices - Error Handling and Logging:

"Applications should not disclose detailed error messages to users. Instead, provide generic messages to prevent leakage of system or application details." HTTPS secures transport, but doesn't address information disclosure via error output.

#WGU Course Alignment:

Domain: Information Systems and Architecture

Topic: Implement secure design practices (e.g., error handling, obfuscation)

NEW QUESTION # 85

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