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WGU D488 Cybersecurity Architecture and Engineering Oa/ Wqu D488
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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 failback 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 (Q99-Q104):

NEW QUESTION # 99

What is the role of the compiler?

- A. To take the most recent line of code, translate it, and execute the machine code
- B. To run scripting languages to test one line of code at a time
- **C. To create an executable program by translating all of the code at one time**
- D. To create executable code that is compatible with different operating systems

Answer: C

Explanation:

Step by Step Comprehensive Detailed ExplanationA compiler is a program that translates source code written in a high-level programming language into machine code.

* Definition: A compiler processes the entire source code of a program and translates it into a machine code executable.

* Functionality: This process is typically done in several stages, including lexical analysis, syntax analysis, semantic analysis, optimization, and code generation.

* Output: The result is an executable file that can be run on a specific operating system.

References

* "Compilers: Principles, Techniques, and Tools" by Alfred V. Aho, Monica S. Lam, Ravi Sethi, and Jeffrey D. Ullman

* NISTIR 7860, "C++ Coding Standards"

NEW QUESTION # 100

Which method is frequently used to protect software?

- A. Fair use
- B. Trademarks
- C. GNU General Public License
- **D. Copyrights**

Answer: D

Explanation:

* Copyrightsare a common legal method used to protect software.

* A copyright gives the creator of the software exclusive rights to use and distribute the software.

* It protects against unauthorized copying, modification, and distribution of the software.

* Software creators can enforce their copyrights to prevent others from infringing on their intellectual property.

* Example:Copyright law is often invoked in cases of software piracy.

References:

* "Copyright Law for the Internet and Information Technology" by Geraldine Collins.

* "Understanding Copyright Law" by Marshall A. Leaffer.

NEW QUESTION # 101

A retail company has recently implemented a new point of sale (POS) system that is critical to its business. Which security control is essential for protecting the availability of the POS system?

- A. Regularly backing up the data stored in the POS system and having a disaster recovery plan can help ensure that the system is available in the event of a security incident or system failure.
- B. Implementing intrusion detection and prevention systems can help detect and prevent unauthorized access to the POS system.
- C. Enforcing strict access controls can limit the number of users with access to the POS system and prevent unauthorized access.
- D. Regularly updating the POS system with the latest security patches can help prevent exploitation of known vulnerabilities and maintain the system's availability.

Answer: A

Explanation:

The correct answer is B - Regularly backing up the data stored in the POS system and having a disaster recovery plan can help ensure that the system is available in the event of a security incident or system failure.

As explained in WGU Cybersecurity Architecture and Engineering (KFO1 / D488), backing up critical systems and establishing a disaster recovery plan ensures business continuity and system availability even after incidents like hardware failures, cyberattacks, or data corruption.

While intrusion detection (A), access control (C), and patch management (D) contribute to overall security, backups and disaster recovery specifically ensure availability.

Reference Extract from Study Guide:

"Data backups and disaster recovery planning are essential controls to ensure system availability during and after a security incident or technical failure."

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

NEW QUESTION # 102

Which system conversion method deploys the new system while the old system is still operational in order to compare output?

- A. Phased
- B. Parallel
- C. Pilot
- D. Direct

Answer: B

Explanation:

Parallel conversion is a system deployment method where the new system is implemented and runs alongside the old system for a period of time. This method allows for:

- * Comparison of outputs: Ensuring that the new system produces the same or better results as the old system.
- * Risk reduction: If there are issues with the new system, the old system can still be used without interrupting business operations.
- * User adaptation: Users can get accustomed to the new system while still having access to the familiar old system.

Parallel conversion is often used to minimize the risk associated with deploying a new system.

References

* Harold Kerzner, "Project Management: A Systems Approach to Planning, Scheduling, and Controlling" Wiley.

* Kathy Schwalbe, "Information Technology Project Management," Cengage Learning.

NEW QUESTION # 103

An e-commerce company has recently experienced a data breach in which the personal and financial information of its customers was stolen. The company is concerned about the potential for future data breaches.

What is the most important factor to consider when evaluating the potential for future data breaches in this scenario?

- A. Threat actors
- B. Impact
- C. Risk
- D. Likelihood

Answer: D

Explanation:

The correct answer is D - Likelihood.

WGU Cybersecurity Architecture and Engineering (KFO1 / D488) emphasizes that when evaluating the chance of future incidents, the focus should be on likelihood - the probability that a threat will exploit a vulnerability again. Given that a breach has already occurred, it is important to assess how likely another breach could happen without additional security measures.

Impact (A) measures consequences, not probability. Risk (B) is a combination of impact and likelihood, but to specifically focus on future potential, likelihood (D) is primary. Threat actors (C) describe adversaries, not probabilities.

Reference Extract from Study Guide:

"Likelihood refers to the probability that a specific threat will successfully exploit a vulnerability, and is a key consideration in predicting future incidents."

- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Risk Assessment Concepts

NEW QUESTION # 104

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