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CompTIA Security+ Certification Exam SY0-701 Practice Test 1

Which of the following answers can be used to describe technical security controls? (Select 3 answers)

- Focused on protecting material assets (X Your answer)
 - Sometimes called logical security controls (O Missed)
 - Executed by computer systems (instead of people) (X Your answer)
 - Also known as administrative controls
 - Implemented with technology (O Missed)
 - Primarily implemented and executed by people (as opposed to computer systems) (X Your answer)
- Your answer to this question is incorrect or incomplete.

Which of the answers listed below refer to examples of technical security controls? (Select 3 answers)

- Security audits
 - Encryption (O Missed)
 - Organizational security policy
 - IDSs (O Missed)
 - Configuration management
 - Firewalls (O Missed)
- Your answer to this question is incorrect or incomplete.

Which of the following answers refer to the characteristic features of managerial security controls? (Select 3 answers)

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CompTIA Security+ Certification Exam Sample Questions (Q571-Q576):

NEW QUESTION # 571

A company tested and validated the effectiveness of network security appliances within the corporate network. The IDS detected a high rate of SQL injection attacks against the company's servers, and the company's perimeter firewall is at capacity. Which of the following would be the best action to maintain security and reduce the traffic to the perimeter firewall?

- A. Set the appliance to IPS mode and place it in front of the company firewall.
- B. Set the firewall to fail open if it is overloaded with traffic and send alerts to the SIEM.
- C. Configure the firewall to perform deep packet inspection and monitor TLS traffic.
- D. Convert the firewall to a WAF and use IPSec tunnels to increase throughput.

Answer: A

Explanation:

Given the scenario where an Intrusion Detection System (IDS) has detected a high rate of SQL injection attacks and the perimeter firewall is at capacity, the best action would be to set the appliance to Intrusion Prevention System (IPS) mode and place it in front of the company firewall.

This approach has several benefits:

Intrusion Prevention System (IPS): Unlike IDS, which only detects and alerts on malicious activity, IPS can actively block and prevent those activities. Placing an IPS in front of the firewall means it can filter out malicious traffic before it reaches the firewall, reducing the load on the firewall and enhancing overall security.

Reducing Traffic Load: By blocking SQL injection attacks and other malicious traffic before it reaches the firewall, the IPS helps maintain the firewall's performance and prevents it from becoming a bottleneck.

Enhanced Security: The IPS provides an additional layer of defense, identifying and mitigating threats in real-time.

NEW QUESTION # 572

Which of the following explains why an attacker cannot easily decrypt passwords using a rainbow table attack?

- A. Digital signatures
- B. Perfect forward secrecy
- C. Salting
- D. Hashing

Answer: C

Explanation:

Salting is a technique used to enhance the security of hashed passwords by adding a unique, random value (salt) to each password before hashing it. This prevents attackers from easily decrypting passwords using rainbow tables, which are precomputed tables for reversing cryptographic hash functions. Since each password has a unique salt, the same password will produce different hash values, making rainbow table attacks ineffective.

NEW QUESTION # 573

Which of the following best represents an application that does not have an on-premises requirement and is accessible from anywhere?

- A. IaaS
- B. SaaS
- C. PaaS
- D. Private cloud
- E. Hybrid cloud

Answer: B

NEW QUESTION # 574

Visitors to a secured facility are required to check in with a photo ID and enter the facility through an access control vestibule. Which of the following best describes this form of security control?

- A. Operational

- B. Physical
- C. Managerial
- D. Technical

Answer: B

Explanation:

A physical security control is a device or mechanism that prevents unauthorized access to a physical location or asset. An access control vestibule, also known as a mantrap, is a physical security control that consists of a small space with two sets of interlocking doors, such that the first set of doors must close before the second set opens. This prevents unauthorized individuals from following authorized individuals into the facility, a practice known as piggybacking or tailgating. A photo ID check is another form of physical security control that verifies the identity of visitors. Managerial, technical, and operational security controls are not directly related to physical access, but rather to policies, procedures, systems, and processes that support security objectives. Reference: CompTIA Security+ Study Guide: Exam SY0-701, 9th Edition, page 341; Mantrap (access control) - Wikipedia2

NEW QUESTION # 575

An organization would like to store customer data on a separate part of the network that is not accessible to users on the main corporate network. Which of the following should the administrator use to accomplish this goal?

- A. Isolation
- B. Patching
- C. Encryption
- D. Segmentation

Answer: D

Explanation:

Segmentation is a network design technique that divides the network into smaller and isolated segments based on logical or physical boundaries. Segmentation can help improve network security by limiting the scope of an attack, reducing the attack surface, and enforcing access control policies. Segmentation can also enhance network performance, scalability, and manageability. To accomplish the goal of storing customer data on a separate part of the network, the administrator can use segmentation technologies such as subnetting, VLANs, firewalls, routers, or switches. References: CompTIA Security+ Study Guide: Exam SY0-701, 9th Edition, page 308-309 1

NEW QUESTION # 576

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