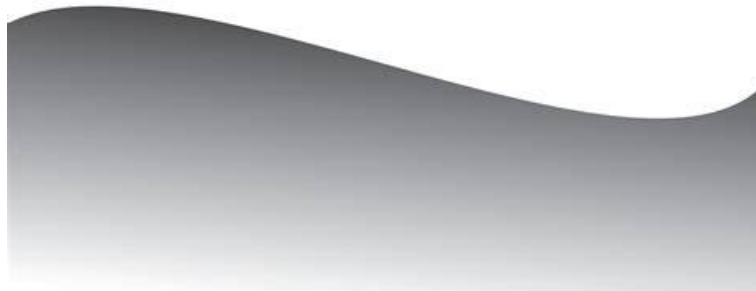


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CompTIA SY0-701 Exam Syllabus Topics:

Section	Weight	Objectives

Threats, Attacks & Vulnerabilities	24%	- Compare and contrast different types of security threats and attacks • 1. Social engineering attacks • 2. Supply chain attacks • 3. Malware types • 4. Application/web-based attacks • 5. Network attacks • 6. Insider threats - Given a scenario, analyze indicators of malicious activity • 1. Attack framework concepts • 2. Indicators of attack • 3. Indicators of compromise - Explain penetration testing and vulnerability scanning concepts • 1. Remediation and mitigation • 2. Penetration testing methodologies • 3. Vulnerability scanning
Implementation	25%	- Given a scenario, implement cybersecurity resilience solutions • 1. Backup and recovery strategies • 2. Redundancy and fault tolerance • 3. Resiliency and continuity measures - Given a scenario, implement appropriate controls for mobile and embedded devices • 1. Mobile device enforcement and monitoring • 2. Mobile device management • 3. Mobile device deployment - Given a scenario, implement appropriate environmental and physical controls • 1. Environmental controls • 2. Physical security controls • 3. Composite risks - Given a scenario, implement identity and access management (IAM) solutions • 1. Authentication factors and methods • 2. Directory services and federation • 3. Access control models • 4. Identity and access management concepts

Architecture & Design	21%	- Given a scenario, implement secure network architecture concepts • 1. Secure network designs • 2. Network segmentation • 3. Network device placement • 4. Network monitoring - Explain the concept of the attack surface and network architecture • 1. Virtualization and cloud concepts • 2. Zero Trust • 3. Network architecture • 4. Physical security controls - Given a scenario, implement secure application and protocol concepts • 1. Hardening techniques • 2. Application protocols • 3. Secure application development - Explain the importance of cryptographic solutions • 1. Public key infrastructure (PKI) • 2. Cryptographic standards and protocols • 3. Symmetric and asymmetric cryptography • 4. Hashing and digital signatures - Explain the importance of embedded and specialized systems security • 1. Specialized systems • 2. Security constraints • 3. Embedded systems
Operations & Incident Response	16%	- Given a scenario, apply incident response and recovery procedures • 1. Incident response procedures • 2. Business continuity and disaster recovery • 3. Incident investigation and digital forensics - Describe the collection and use of threat intelligence • 1. Threat intelligence sources • 2. Threat intelligence analysis - Explain the use of frameworks, policies, procedures, and controls • 1. Governance and compliance frameworks • 2. Security policies and procedures • 3. Security controls - Given a scenario, use the appropriate tool to assess organizational security • 1. Cybersecurity automation and orchestration • 2. Log analysis and packet capture • 3. Vulnerability scanning and remediation • 4. Network reconnaissance and discovery

Governance, Risk & Compliance	14%	- Explain privacy and sensitive data concepts in relation to security • 1. Privacy and data protection regulations • 2. Data classification and handling • 3. Privacy-enhancing technologies - Explain regulations, standards, and frameworks that impact cybersecurity • 1. Public and private sector compliance requirements • 2. Regulations, standards, and frameworks - Compare and contrast the various types of controls • 1. Control categories • 2. Control types - Given a scenario, apply risk management strategies • 1. Risk monitoring and reporting • 2. Risk mitigation and treatment • 3. Risk identification and assessment
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CompTIA Security+ Certification Exam Sample Questions (Q130-Q135):

NEW QUESTION # 130

A security manager needs an automated solution that will take immediate action to protect an organization against inbound malicious traffic. Which of the following is the best solution?

- A. VPN
- B. UEM
- C. IPS
- D. WAF

Answer: C

Explanation:

An Intrusion Prevention System (IPS) is designed to automatically block or mitigate malicious network traffic in real time. Unlike an IDS, which only detects threats, an IPS performs inline traffic inspection and takes active action-such as dropping malicious packets, blocking connections, or updating firewall rules.

This matches the requirement for an automated system that responds immediately to inbound threats.

Security+ SY0-701 highlights IPS as a preventive control that detects signature-based, anomaly-based, and behavioral threats, including exploits, malware, and command-and-control activity. IPS systems are essential in defending against fast-moving attacks where human response time is too slow.

UEM (A) manages endpoints but does not block inbound network threats.

WAF (C) protects web applications, not the entire network.

VPN (D) provides secure tunnels but does not prevent malicious inbound traffic.

Thus, B: IPS is the best solution for automatic threat blocking.

NEW QUESTION # 131

The marketing department set up its own project management software without telling the appropriate departments. Which of the following describes this scenario?

- A. Insider threat
- B. Service disruption
- C. Data exfiltration
- **D. Shadow IT**

Answer: D

Explanation:

Explanation:Shadow IT is the term used to describe the use of unauthorized or unapproved IT resources within an organization. The marketing department set up its own project management software without telling the appropriate departments, such as IT, security, or compliance. This could pose a risk to the organization's security posture, data integrity, and regulatory compliance.

NEW QUESTION # 132

The Chief Information Security Officer (CISO) at a large company would like to gain an understanding of how the company's security policies compare to the requirements imposed by external regulators. Which of the following should the CISO use?

- A. Attestation
- B. Penetration test
- C. External examination
- **D. Internal audit**

Answer: D

Explanation:

An internal audit is the mechanism an organization uses on its own initiative to measure its policies, controls, and practices against a defined standard - including external regulatory requirements. That's exactly the gap analysis the CISO is asking for: where do our policies already satisfy the regulators, and where do they fall short? Because it's self-directed, the CISO controls the scope, timing, and depth, and the findings come back internally where they can be remediated before anyone outside sees them.

NEW QUESTION # 133

A systems administrator wants to implement a backup solution. the solution needs to allow recovery of the entire system, including the operating system, in case of a disaster. Which of the following backup types should the administrator consider?

- A. Incremental
- B. Storage area network
- C. Differential
- **D. Image**

Answer: D

NEW QUESTION # 134

After an audit, an administrator discovers all users have access to confidential data on a file server. Which of the following should the administrator use to restrict access to the data quickly?

- **A. Access control lists**
- B. Content filtering
- C. Data loss prevention
- D. Group Policy

Answer: A

Explanation:

Access control lists (ACLs) are rules that specify which users or groups can access which resources on a file server. They can help restrict access to confidential data by granting or denying permissions based on the identity or role of the user. In this case, the

NEW QUESTION # 135

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