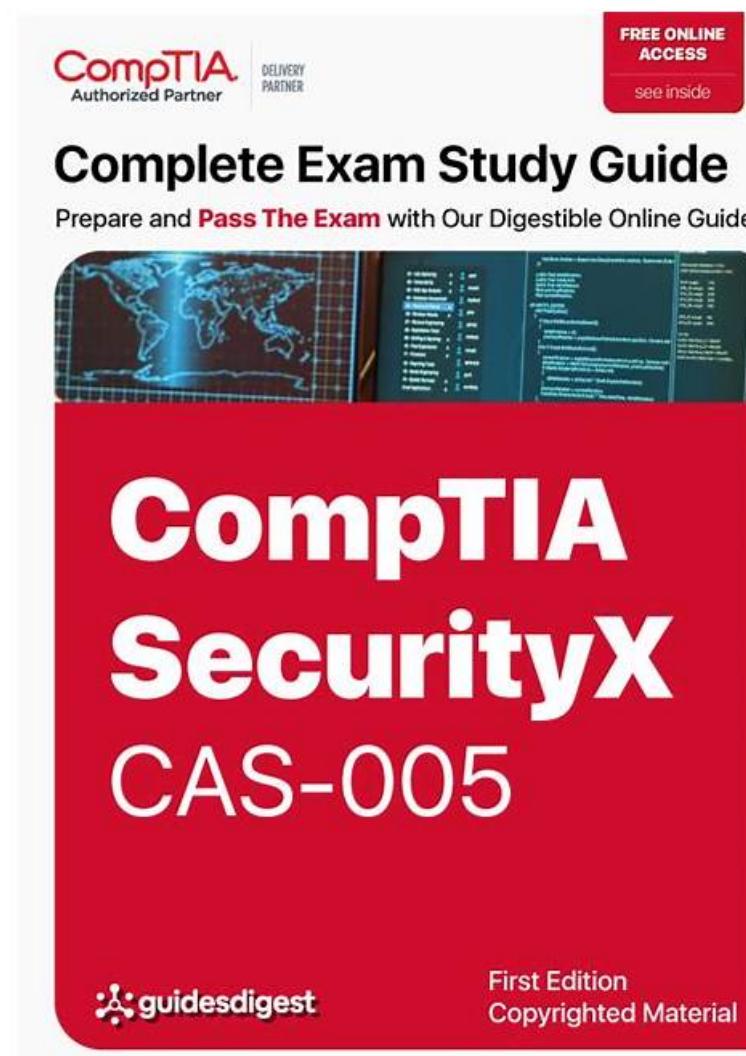


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## CompTIA SecurityX Certification Exam Sample Questions (Q514-Q519):

### NEW QUESTION # 514

Which of the following is a security concern for DNP3?

- A. It is an open source protocol.
- B. Free-form messages require support.
- C. **Authentication is not allocated.**
- D. Available function codes are not standardized.

**Answer: C**

Explanation:

Original DNP3 lacks built-in authentication for its messages, making it vulnerable to spoofing and replay attacks. Secure extensions (Secure DNP3) add cryptographic authentication, but legacy deployments without these extensions remain at risk.

### NEW QUESTION # 515

A malware researcher has discovered a credential stealer is looking at a specific memory register to harvest passwords that will be used later for lateral movement in corporate networks. The malware is using TCP 4444 to communicate with other workstations. The lateral movement would be best mitigated by:

- A. Configuring the CPU's NX bit
- B. **Enabling a host firewall**
- C. Enforcing all systems to use UEFI
- D. Enabling ASLR on the Active Directory server
- E. Enabling an edge firewall

**Answer: B**

### NEW QUESTION # 516

An organization has been using self-managed encryption keys rather than the free keys managed by the cloud provider. The Chief Information Security Officer (CISO) reviews the monthly bill and realizes the self-managed keys are more costly than anticipated. Which of the following should the CISO recommend to reduce costs while maintaining a strong security posture?

- A. **Adjust the configuration for cloud provider keys on data that is classified as public.**
- B. Begin using cloud-managed keys on all new resources deployed in the cloud.
- C. Extend the key rotation period to one year so that the cloud provider can use cached keys.
- D. Utilize an on-premises HSM to locally manage keys.

**Answer: A**

Explanation:

Comprehensive and Detailed Step by Step

Understanding the Scenario: The organization is using customer-managed encryption keys in the cloud, which is more expensive than using the cloud provider's free managed keys. The CISO needs to find a way to reduce costs without significantly weakening the security posture.

Analyzing the Answer Choices:

A :Utilize an on-premises HSM to locally manage keys: While on-premises HSMs offer strong security, they introduce additional costs and complexity (procurement, maintenance, etc.). This option is unlikely to reduce costs compared to cloud-based key management.

B :Adjust the configuration for cloud provider keys on data that is classified as public: This is the most practical and cost-effective approach. Data classified as public doesn't require the same level of protection as sensitive data. Using the cloud provider's free managed keys for public data can significantly reduce costs without compromising security, as the data is intended to be publicly accessible anyway.

Reference:

C :Begin using cloud-managed keys on all new resources deployed in the cloud: While this would reduce costs, it's a broad approach that doesn't consider the sensitivity of the data. Applying cloud-managed keys to sensitive data might not be acceptable

from a security standpoint.

D : Extend the key rotation period to one year so that the cloud provider can use cached keys: Extending the key rotation period weakens security. Frequent key rotation is a security best practice to limit the impact of a potential key compromise.

Risk-Based Approach: Using cloud-provider-managed keys for public data is a reasonable risk-based decision. Public data, by definition, is not confidential.

Cost Optimization: This directly addresses the CISO's concern about cost, as cloud-provider-managed keys are often free or significantly cheaper.

Security Balance: It maintains a strong security posture for sensitive data by continuing to use customer-managed keys where appropriate, while optimizing costs for less sensitive data.

CASP+ Relevance: This approach demonstrates an understanding of risk management, data classification, and cost-benefit analysis in security decision-making, all of which are important topics in CASP+.

Elaboration on Data Classification:

Data Classification Policy: Organizations should have a clear data classification policy that defines different levels of data sensitivity (e.g., public, internal, confidential, restricted).

Security Controls Based on Classification: Security controls, including encryption key management, should be applied based on the data's classification level.

Cost-Benefit Analysis: Data classification helps organizations make informed decisions about where to invest in stronger security controls and where cost optimization is acceptable.

In conclusion, adjusting the configuration to use cloud-provider-managed keys for data classified as public is the most effective way to reduce costs while maintaining a strong security posture. It's a practical, risk-based approach that aligns with data classification principles and cost-benefit considerations, all of which are important concepts covered in the CASP+ exam objectives.

## NEW QUESTION # 517

A security team determines that the most significant risks within the pipeline are:

\* Unauthorized code changes  
\* The current inability to perform independent verification of software modules Which of the following best addresses these concerns?

- A. Lightweight cryptography
- B. Non-repudiation
- C. Digital signatures
- D. **Code signing**

### Answer: D

Explanation:

Unauthorized code changes and lack of independent verification are directly mitigated by code signing, which ensures that code is from a trusted source and has not been altered.

While digital signatures are part of code signing, the broader practice of code signing encompasses signature management, version integrity, and trusted sources.

Lightweight cryptography is irrelevant in this context; it's more about efficiency in constrained devices.

Non-repudiation is a benefit of digital signatures but doesn't directly solve the verification/integrity concerns alone.

From CAS-005 Guide, Domain 4: Security Architecture, Tools, and Technologies:

"Code signing ensures that the code has not been tampered with and originates from a trusted developer."

## NEW QUESTION # 518

A network security architect for an organization with a highly remote workforce implements an always-on VPN to meet business requirements. Which of the following best explains why the architect is using this approach?

- A. To allow access to directly connected print and scan resources
- B. **To facilitate device authentication using on-premises directory services**
- C. To authorize updates to change the PIN on a smart card
- D. To enable usability of locally attached removable storage

### Answer: B

Explanation:

Always-on VPN ensures that devices connect automatically to the corporate network whenever they are online, allowing seamless access to internal resources and enabling authentication against on-premises directory services (such as Active Directory). This

supports centralized identity management, GPO enforcement, and compliance requirements. Options B, C, and D involve local or peripheral resources, which are unaffected by VPN state.

## NEW QUESTION # 519

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