

# CompTIA

## Exam Questions CAS-005

CompTIA SecurityX Exam



### NEW QUESTION 1

A company wants to implement hardware security key authentication for accessing sensitive information systems. The goal is to prevent unauthorized users from gaining access with a stolen password. Which of the following models should the company implement to best solve this issue?

- A. Rule based
- B. Time-based
- C. Role based
- D. Context-based

**Answer: D**

#### Explanation:

Context-based authentication enhances traditional security methods by incorporating additional layers of information about the user's current environment and behavior. This can include factors such as the user's location, the time of access, the device used, and the behavior patterns. It is particularly useful in preventing unauthorized access even if an attacker has obtained a valid password.

? Rule-based (A) focuses on predefined rules and is less flexible in adapting to dynamic threats.

? Time-based (B) authentication considers the time factor but doesn't provide comprehensive protection against stolen credentials.

? Role-based (C) is more about access control based on the user's role within the organization rather than authenticating the user based on current context.

By implementing context-based authentication, the company can ensure that even if a password is compromised, the additional contextual factors required for access (which an attacker is unlikely to possess) provide a robust defense mechanism.

References:

? CompTIA SecurityX guide on authentication models and best practices.

? NIST guidelines on authentication and identity proofing.

? Analysis of multi-factor and adaptive authentication techniques.

### NEW QUESTION 2

Which of the following best explains the business requirement a healthcare provider fulfills by encrypting patient data at rest?

- A. Securing data transfer between hospitals
- B. Providing for non-repudiation data
- C. Reducing liability from identity theft
- D. Protecting privacy while supporting portability.

**Answer: D**

#### Explanation:

Encrypting patient data at rest is a critical requirement for healthcare providers to ensure compliance with regulations such as the Health Insurance Portability and Accountability Act (HIPAA). The primary business requirement fulfilled by this practice is the protection of patient privacy while supporting the portability of medical information. By encrypting data at rest, healthcare providers safeguard sensitive patient information from unauthorized access, ensuring that privacy is maintained even if the storage media are compromised. Additionally, encryption supports the portability of patient records, allowing for secure transfer and access across different systems and locations while ensuring that privacy controls are in place.

References:

? CompTIA SecurityX Study Guide: Emphasizes the importance of data encryption for protecting sensitive information and ensuring compliance with regulatory requirements.

? HIPAA Security Rule: Requires healthcare providers to implement safeguards, including encryption, to protect patient data.

? "Health Informatics: Practical Guide for Healthcare and Information Technology Professionals" by Robert E. Hoyt: Discusses encryption as a key measure for protecting patient data privacy and supporting data portability.

### NEW QUESTION 3

A company detects suspicious activity associated with external connections. Security detection tools are unable to categorize this activity. Which of the following is the best solution to help the company overcome this challenge?

- A. Implement an Interactive honeypot
- B. Map network traffic to known IoCs.
- C. Monitor the dark web
- D. implement UEBA

**Answer: D**

#### Explanation:

User and Entity Behavior Analytics (UEBA) is the best solution to help the company overcome challenges associated with suspicious activity that cannot be categorized by traditional detection tools. UEBA uses advanced analytics to establish baselines of normal behavior for users and entities within the network. It then identifies deviations from these baselines, which may indicate malicious activity. This approach is particularly effective for detecting unknown threats and sophisticated attacks that do not match known indicators of compromise (IoCs).

Reference: CompTIA SecurityX Study Guide, Chapter on Advanced Threat Detection and Mitigation, Section on User and Entity Behavior Analytics (UEBA).

### NEW QUESTION 4

A security analyst discovered requests associated with IP addresses known for bot-related traffic. Which of the following should the analyst use to determine whether the requests are malicious?

- A. User-agent string
- B. Byte length of the request
- C. Web application headers
- D. HTML encoding field

**Answer: A**

**Explanation:**

The user-agent string can provide valuable information to distinguish between legitimate and bot-related traffic. It contains details about the browser, device, and sometimes the operating system of the client making the request.

Why Use User-Agent String?

? Identify Patterns: User-agent strings can help identify patterns that are typical of bots or legitimate users.

? Block Malicious Bots: Many bots use known user-agent strings, and identifying these can help block malicious requests.

? Anomalies Detection: Anomalous user-agent strings can indicate spoofing attempts or malicious activity.

Other options provide useful information but may not be as effective for initial determination of the nature of the request:

? B. Byte length of the request: This can indicate anomalies but does not provide detailed information about the client.

? C. Web application headers: While useful, they may not provide enough distinction between legitimate and bot traffic.

? D. HTML encoding field: This is not typically used for identifying the nature of the request.

References:

? CompTIA SecurityX Study Guide

? "User-Agent Analysis for Security," OWASP

? NIST Special Publication 800-94, "Guide to Intrusion Detection and Prevention Systems (IDPS)"

**NEW QUESTION 5**

Users are willing passwords on paper because of the number of passwords needed in an environment. Which of the following solutions is the best way to manage this situation and decrease risks?

- A. Increasing password complexity to require 31 least 16 characters
- B. implementing an SSO solution and integrating with applications
- C. Requiring users to use an open-source password manager
- D. Implementing an MFA solution to avoid reliance only on passwords

**Answer: B**

**Explanation:**

Implementing a Single Sign-On (SSO) solution and integrating it with applications is the best way to manage the situation and decrease risks. Here??s why:

? Reduced Password Fatigue: SSO allows users to log in once and gain access to multiple applications and systems without needing to remember and manage multiple passwords. This reduces the likelihood of users writing down passwords.

? Improved Security: By reducing the number of passwords users need to manage, SSO decreases the attack surface and potential for password-related security breaches. It also allows for the implementation of stronger authentication methods.

? User Convenience: SSO improves the user experience by simplifying the login process, which can lead to higher productivity and satisfaction.

? References:

**NEW QUESTION 6**

Within a SCADA a business needs access to the historian server in order together metric about the functionality of the environment. Which of the following actions should be taken to address this requirement?

- A. Isolating the historian server for connections only from The SCADA environment
- B. Publishing the C\$ share from SCADA to the enterprise
- C. Deploying a screened subnet between 11 and SCADA
- D. Adding the business workstations to the SCADA domain

**Answer: A**

**Explanation:**

The best action to address the requirement of accessing the historian server within a SCADA system is to isolate the historian server for connections only from the SCADA environment. Here??s why:

? Security and Isolation: Isolating the historian server ensures that only authorized devices within the SCADA environment can connect to it. This minimizes the attack surface and protects sensitive data from unauthorized access.

? Access Control: By restricting access to the historian server to only SCADA devices, the organization can better control and monitor interactions, ensuring that only legitimate queries and data retrievals occur.

? Best Practices for Critical Infrastructure: Following the principle of least privilege, isolating critical components like the historian server is a standard practice in securing SCADA systems, reducing the risk of cyberattacks.

? References:

**NEW QUESTION 7**

A security engineer is developing a solution to meet the following requirements?

- All endpoints should be able to establish telemetry with a SIEM.
- All endpoints should be able to be integrated into the XDR platform.
- SOC services should be able to monitor the XDR platform

Which of the following should the security engineer implement to meet the requirements?

- A. CDR and central logging
- B. HIDS and vTPM
- C. WAF and syslog
- D. HIPS and host-based firewall

**Answer: D**

**Explanation:**

To meet the requirements of having all endpoints establish telemetry with a SIEM, integrate into an XDR platform, and allow SOC services to monitor the XDR platform, the best approach is to implement Host Intrusion Prevention Systems (HIPS) and a host-based firewall. HIPS can provide detailed telemetry data to the SIEM and can be integrated into the XDR platform for comprehensive monitoring and response. The host-based firewall ensures that only authorized traffic is allowed, providing an additional layer of security.

References:

? CompTIA SecurityX Study Guide: Describes the roles of HIPS and host-based firewalls in endpoint security and their integration with SIEM and XDR platforms.

? NIST Special Publication 800-94, "Guide to Intrusion Detection and Prevention Systems (IDPS)": Highlights the capabilities of HIPS for security monitoring and incident response.

? "Network Security Monitoring" by Richard Bejtlich: Discusses the integration of various security tools, including HIPS and firewalls, for effective security monitoring.

#### NEW QUESTION 8

A security engineer is building a solution to disable weak CBC configuration for remote access connections to Linux systems. Which of the following should the security engineer modify?

- A. The /etc/openssl.conf file, updating the virtual site parameter
- B. The /etc/nsswith.conf file, updating the name server
- C. The /etc/hosts file, updating the IP parameter
- D. The /etc/ssh/sshd\_config file, updating the ciphers

**Answer: D**

#### Explanation:

The sshd\_config file is the main configuration file for the OpenSSH server. To disable weak CBC (Cipher Block Chaining) ciphers for SSH connections, the security engineer should modify the sshd\_config file to update the list of allowed ciphers. This file typically contains settings for the SSH daemon, including which encryption algorithms are allowed.

By editing the /etc/ssh/sshd\_config file and updating the Ciphers directive, weak ciphers can be removed, and only strong ciphers can be allowed. This change ensures that the

SSH server does not use insecure encryption methods.

References:

? CompTIA Security+ Study Guide

? OpenSSH manual pages (man sshd\_config)

? CIS Benchmarks for Linux

#### NEW QUESTION 9

Recent reports indicate that a software tool is being exploited. Attackers were able to bypass user access controls and load a database. A security analyst needs to find the vulnerability and recommend a mitigation. The analyst generates the following output:

```
C:\>whoami
local-user
C:\>netuser local-user Welcome!
The command completed successfully!
C:\>dbloader.exe local-user Welcome!
Insufficient Permissions. Now Closing...
C:\>strings dbloader.exe
!This program cannot be run in DOS Mode
dB10ad3r!
Load Database jmp
182 (*nx
(i3jN+jk
fahn82mk0a
C:\>dbloader.exe admin dB10ad3r!
```

Which of the following would the analyst most likely recommend?

- A. Installing appropriate EDR tools to block pass-the-hash attempts
- B. Adding additional time to software development to perform fuzz testing
- C. Removing hard-coded credentials from the source code
- D. Not allowing users to change their local passwords

**Answer: C**

#### Explanation:

The output indicates that the software tool contains hard-coded credentials, which attackers can exploit to bypass user access controls and load the database. The most likely recommendation is to remove hard-coded credentials from the source code. Here's why:

? Security Best Practices: Hard-coded credentials are a significant security risk

because they can be easily discovered through reverse engineering or simple inspection of the code. Removing them reduces the risk of unauthorized access.

? Credential Management: Credentials should be managed securely using

environment variables, secure vaults, or configuration management tools that provide encryption and access controls.

? Mitigation of Exploits: By eliminating hard-coded credentials, the organization can

prevent attackers from easily bypassing authentication mechanisms and gaining

unauthorized access to sensitive systems.

? References:

#### NEW QUESTION 10

An audit finding reveals that a legacy platform has not retained logs for more than 30 days. The platform has been segmented due to its interoperability with newer

technology. As a temporary solution, the IT department changed the log retention to 120 days. Which of the following should the security engineer do to ensure the logs are being properly retained?

- A. Configure a scheduled task nightly to save the logs
- B. Configure event-based triggers to export the logs at a threshold.
- C. Configure the SIEM to aggregate the logs
- D. Configure a Python script to move the logs into a SQL database.

**Answer: C**

**Explanation:**

To ensure that logs from a legacy platform are properly retained beyond the default retention period, configuring the SIEM to aggregate the logs is the best approach. SIEM solutions are designed to collect, aggregate, and store logs from various sources, providing centralized log management and retention. This setup ensures that logs are retained according to policy and can be easily accessed for analysis and compliance purposes. References:

? CompTIA SecurityX Study Guide: Discusses the role of SIEM in log management and retention.

? NIST Special Publication 800-92, "Guide to Computer Security Log Management": Recommends the use of centralized log management solutions, such as SIEM, for effective log retention and analysis.

? "Security Information and Event Management (SIEM) Implementation" by David Miller: Covers best practices for configuring SIEM systems to aggregate and retain logs from various sources.

**NEW QUESTION 10**

Company A and Company D ate merging Company A's compliance reports indicate branch protections are not in place A security analyst needs to ensure that potential threats to the software development life cycle are addressed. Which of the following should me analyst cons<der when completing this basic?

- A. If developers are unable to promote to production
- B. If DAST code is being stored to a single code repository
- C. If DAST scans are routinely scheduled
- D. If role-based training is deployed

**Answer: C**

**Explanation:**

Dynamic Application Security Testing (DAST) is crucial for identifying and addressing security vulnerabilities during the software development life cycle (SDLC). Ensuring that DAST scans are routinely scheduled helps in maintaining a secure development process. Why Routine DAST Scans?

? Continuous Security Assessment: Regular DAST scans help in identifying vulnerabilities in real-time, ensuring they are addressed promptly.

? Compliance: Routine scans ensure that the development process complies with security standards and regulations.

? Proactive Threat Mitigation: Regular scans help in early detection and mitigation of potential security threats, reducing the risk of breaches.

? Integration into SDLC: Ensures security is embedded within the development process, promoting a security-first approach.

Other options, while relevant, do not directly address the continuous assessment and proactive identification of threats:

? A. If developers are unable to promote to production: This is more of an operational issue than a security assessment.

? B. If DAST code is being stored to a single code repository: This concerns code management rather than security testing frequency.

? D. If role-based training is deployed: While important, training alone does not ensure continuous security assessment.

References:

? CompTIA SecurityX Study Guide

? OWASP Testing Guide

? NIST Special Publication 800-53, "Security and Privacy Controls for Information Systems and Organizations"

**NEW QUESTION 13**

A compliance officer is reviewing the data sovereignty laws in several countries where the organization has no presence Which of the following is the most likely reason for reviewing these laws?

- A. The organization is performing due diligence of potential tax issues.
- B. The organization has been subject to legal proceedings in countries where it has a presence.
- C. The organization is concerned with new regulatory enforcement in other countries
- D. The organization has suffered brand reputation damage from incorrect media coverage

**Answer: C**

**Explanation:**

Reviewing data sovereignty laws in countries where the organization has no presence is likely due to concerns about regulatory enforcement. Data sovereignty laws dictate how data can be stored, processed, and transferred across borders. Understanding these laws is crucial for compliance, especially if the organization handles data that may be subject to foreign regulations.

? A. The organization is performing due diligence of potential tax issues: This is less likely as tax issues are generally not directly related to data sovereignty laws.

? B. The organization has been subject to legal proceedings in countries where it has a presence: While possible, this does not explain the focus on countries where the organization has no presence.

? C. The organization is concerned with new regulatory enforcement in other countries: This is the most likely reason. New regulations could impact the organization's operations, especially if they involve data transfers or processing data from these countries.

? D. The organization has suffered brand reputation damage from incorrect media coverage: This is less relevant to the need for reviewing data sovereignty laws.

References:

? CompTIA Security+ Study Guide

? GDPR and other global data protection regulations

? "Data Sovereignty: The Future of Data Protection?" by Mark Burdon

**NEW QUESTION 14**

Which of the following best explains the importance of determining organization risk appetite when operating with a constrained budget?

- A. Risk appetite directly impacts acceptance of high-impact low-likelihood events.
- B. Organizational risk appetite varies from organization to organization
- C. Budgetary pressure drives risk mitigation planning in all companies
- D. Risk appetite directly influences which breaches are disclosed publicly

**Answer:** A

**Explanation:**

Risk appetite is the amount of risk an organization is willing to accept to achieve its objectives. When operating with a constrained budget, understanding the organization's risk appetite is crucial because:

? It helps prioritize security investments based on the level of risk the organization is willing to tolerate.

? High-impact, low-likelihood events may be deemed acceptable if they fall within the organization's risk appetite, allowing for budget allocation to other critical areas.

? Properly understanding and defining risk appetite ensures that limited resources are used effectively to manage risks that align with the organization's strategic goals.

References:

? CompTIA Security+ Study Guide

? NIST Risk Management Framework (RMF) guidelines

? ISO 31000, "Risk Management – Guidelines"

**NEW QUESTION 16**

Users are experiencing a variety of issues when trying to access corporate resources examples include

- Connectivity issues between local computers and file servers within branch offices
- Inability to download corporate applications on mobile endpoints while working remotely
- Certificate errors when accessing internal web applications

Which of the following actions are the most relevant when troubleshooting the reported issues? (Select two).

- A. Review VPN throughput
- B. Check IPS rules
- C. Restore static content on lite CDN.
- D. Enable secure authentication using NAC
- E. Implement advanced WAF rules.
- F. Validate MDM asset compliance

**Answer:** AF

**Explanation:**

The reported issues suggest problems related to network connectivity, remote access, and certificate management:

? A. Review VPN throughput: Connectivity issues and the inability to download applications while working remotely may be due to VPN bandwidth or performance issues. Reviewing and optimizing VPN throughput can help resolve these problems by ensuring that remote users have adequate bandwidth for accessing corporate resources.

? F. Validate MDM asset compliance: Mobile Device Management (MDM) systems

ensure that mobile endpoints comply with corporate security policies. Validating MDM compliance can help address issues related to the inability to download applications and certificate errors, as non-compliant devices might be blocked from accessing certain resources.

? B. Check IPS rules: While important for security, IPS rules are less likely to directly address the connectivity and certificate issues described.

? C. Restore static content on the CDN: This action is related to content delivery but does not address VPN or certificate-related issues.

? D. Enable secure authentication using NAC: Network Access Control (NAC) enhances security but does not directly address the specific issues described.

? E. Implement advanced WAF rules: Web Application Firewalls protect web applications but do not address VPN throughput or mobile device compliance.

References:

? CompTIA Security+ Study Guide

? NIST SP 800-77, "Guide to IPsec VPNs"

? CIS Controls, "Control 11: Secure Configuration for Network Devices"

**NEW QUESTION 18**

An organization wants to create a threat model to identify vulnerabilities in its infrastructure. Which of the following, should be prioritized first?

- A. External-facing Infrastructure with known exploited vulnerabilities
- B. Internal infrastructure with high-severity and Known exploited vulnerabilities
- C. External facing Infrastructure with a low risk score and no known exploited vulnerabilities
- D. External-facing infrastructure with a high risk score that can only be exploited with local access to the resource

**Answer:** A

**Explanation:**

When creating a threat model to identify vulnerabilities in an organization's infrastructure, prioritizing external-facing infrastructure with known exploited vulnerabilities is critical. Here's why:

? Exposure to Attack: External-facing infrastructure is directly exposed to the internet, making it a primary target for attackers. Any vulnerabilities in this layer pose an immediate risk to the organization's security.

? Known Exploited Vulnerabilities: Vulnerabilities that are already known and

exploited in the wild are of higher concern because they are actively being used by attackers. Addressing these vulnerabilities reduces the risk of exploitation significantly.

? Risk Mitigation: By prioritizing external-facing infrastructure with known exploited

vulnerabilities, the organization can mitigate the most immediate and impactful threats, thereby improving overall security posture.

? References:

**NEW QUESTION 22**

A company receives reports about misconfigurations and vulnerabilities in a third-party hardware device that is part of its released products. Which of the following solutions is the best way for the company to identify possible issues at an earlier stage?

- A. Performing vulnerability tests on each device delivered by the providers
- B. Performing regular red-team exercises on the vendor production line
- C. Implementing a monitoring process for the integration between the application and the vendor appliance
- D. Implementing a proper supply chain risk management program

**Answer: D**

**Explanation:**

Addressing misconfigurations and vulnerabilities in third-party hardware requires a comprehensive approach to manage risks throughout the supply chain. Implementing a proper supply chain risk management (SCRM) program is the most effective solution as it encompasses the following:

? Holistic Approach: SCRM considers the entire lifecycle of the product, from initial design through to delivery and deployment. This ensures that risks are identified and managed at every stage.

? Vendor Management: It includes thorough vetting of suppliers and ongoing assessments of their security practices, which can identify and mitigate vulnerabilities early.

? Regular Audits and Assessments: A robust SCRM program involves regular audits and assessments, both internally and with suppliers, to ensure compliance with security standards and best practices.

? Collaboration and Communication: Ensures that there is effective communication and collaboration between the company and its suppliers, leading to faster identification and resolution of issues.

Other options, while beneficial, do not provide the same comprehensive risk management:

? A. Performing vulnerability tests on each device delivered by the providers: While useful, this is reactive and only addresses issues after they have been delivered.

? B. Performing regular red-team exercises on the vendor production line: This can identify vulnerabilities but is not as comprehensive as a full SCRM program.

? C. Implementing a monitoring process for the integration between the application and the vendor appliance: This is important but only covers the integration phase, not the entire supply chain.

References:

? CompTIA SecurityX Study Guide

? NIST Special Publication 800-161, "Supply Chain Risk Management Practices for Federal Information Systems and Organizations"

? ISO/IEC 27036-1:2014, "Information technology — Security techniques — Information security for supplier relationships"

**NEW QUESTION 27**

A company that uses containers to run its applications is required to identify vulnerabilities on every container image in a private repository. The security team needs to be able to quickly evaluate whether to respond to a given vulnerability. Which of the following will allow the security team to achieve the objective with the least effort?

- A. SAST scan reports
- B. Centralized SBoM
- C. CIS benchmark compliance reports
- D. Credentialed vulnerability scan

**Answer: B**

**Explanation:**

A centralized Software Bill of Materials (SBoM) is the best solution for identifying vulnerabilities in container images in a private repository. An SBoM provides a comprehensive inventory of all components, dependencies, and their versions within a container image, facilitating quick evaluation and response to vulnerabilities. Why Centralized SBoM?

? Comprehensive Inventory: An SBoM lists all software components, including their versions and dependencies, allowing for thorough vulnerability assessments.

? Quick Identification: Centralizing SBoM data enables rapid identification of affected containers when a vulnerability is disclosed.

? Automation: SBoMs can be integrated into automated tools for continuous monitoring and alerting of vulnerabilities.

? Regulatory Compliance: Helps in meeting compliance requirements by providing a clear and auditable record of all software components used.

Other options, while useful, do not provide the same level of comprehensive and efficient vulnerability management:

? A. SAST scan reports: Focuses on static analysis of code but may not cover all components in container images.

? C. CIS benchmark compliance reports: Ensures compliance with security benchmarks but does not provide detailed component inventory.

? D. Credentialed vulnerability scan: Useful for in-depth scans but may not be as efficient for quick vulnerability evaluation.

References:

? CompTIA SecurityX Study Guide

? "Software Bill of Materials (SBoM)," NIST Documentation

? "Managing Container Security with SBoM," OWASP

**NEW QUESTION 32**

A company wants to invest in research capabilities with the goal to operationalize the research output. Which of the following is the best option for a security architect to recommend?

- A. Dark web monitoring
- B. Threat intelligence platform
- C. Honeypots
- D. Continuous adversary emulation

**Answer: B**

**Explanation:**

Investing in a threat intelligence platform is the best option for a company looking to operationalize research output. A threat intelligence platform helps in collecting, processing, and analyzing threat data to provide actionable insights. These platforms integrate data from various sources, including dark web monitoring, honeypots, and other security tools, to offer a comprehensive view of the threat landscape.

Why a Threat Intelligence Platform?

? Data Integration: It consolidates data from multiple sources, including dark web monitoring and honeypots, making it easier to analyze and derive actionable insights.

? Actionable Insights: Provides real-time alerts and reports on potential threats, helping the organization take proactive measures.

? Operational Efficiency: Streamlines the process of threat detection and response, allowing the security team to focus on critical issues.

? Research and Development: Facilitates the operationalization of research output by providing a platform for continuous monitoring and analysis of emerging threats.

Other options, while valuable, do not offer the same level of integration and operationalization capabilities:

- ? A. Dark web monitoring: Useful for specific threat intelligence but lacks comprehensive operationalization.
- ? C. Honeypots: Effective for detecting and analyzing specific attack vectors but not for broader threat intelligence.
- ? D. Continuous adversary emulation: Important for testing defenses but not for integrating and operationalizing threat intelligence.

References:

- ? CompTIA SecurityX Study Guide
- ? "Threat Intelligence Platforms," Gartner Research
- ? NIST Special Publication 800-150, "Guide to Cyber Threat Information Sharing"

### NEW QUESTION 33

A financial services organization is using AI to fully automate the process of deciding client loan rates. Which of the following should the organization be most concerned about from a privacy perspective?

- A. Model explainability
- B. Credential Theft
- C. Possible prompt injections
- D. Exposure to social engineering

**Answer: A**

#### Explanation:

When using AI to fully automate the process of deciding client loan rates, the primary concern from a privacy perspective is model explainability.

Why Model Explainability is Critical:

- ? Transparency: It ensures that the decision-making process of the AI model can be understood and explained to stakeholders, including clients.
- ? Accountability: Helps in identifying biases and errors in the model, ensuring that the AI is making fair and unbiased decisions.
- ? Regulatory Compliance: Various regulations require that decisions, especially those affecting individuals' financial status, can be explained and justified.
- ? Trust: Builds trust among users and stakeholders by demonstrating that the AI decisions are transparent and justifiable.

Other options, such as credential theft, prompt injections, and social engineering, are significant concerns but do not directly address the privacy and fairness implications of automated decision-making.

References:

- ? CompTIA SecurityX Study Guide
- ? "The Importance of Explainability in AI," IEEE Xplore
- ? GDPR Article 22, "Automated Individual Decision-Making, Including Profiling"

### NEW QUESTION 38

A central bank implements strict risk mitigations for the hardware supply chain, including an allow list for specific countries of origin. Which of the following best describes the cyberthreat to the bank?

- A. Ability to obtain components during wartime
- B. Fragility and other availability attacks
- C. Physical implants and tampering
- D. Non-conformance to accepted manufacturing standards

**Answer: C**

#### Explanation:

The best description of the cyber threat to a central bank implementing strict risk mitigations for the hardware supply chain, including an allow list for specific countries of origin, is the risk of physical implants and tampering. Here's why:

? Supply Chain Security: The supply chain is a critical vector for hardware tampering and physical implants, which can compromise the integrity and security of hardware components before they reach the organization.

? Targeted Attacks: Banks and financial institutions are high-value targets, making them susceptible to sophisticated attacks, including those involving physical implants that can be introduced during manufacturing or shipping processes.

? Strict Mitigations: Implementing an allow list for specific countries aims to mitigate the risk of supply chain attacks by limiting the sources of hardware. However, the primary concern remains the introduction of malicious components through tampering.

? References:

### NEW QUESTION 39

Company A acquired Company B and needs to determine how the acquisition will impact the attack surface of the organization as a whole. Which of the following is the best way to achieve this goal? (Select two).

Implementing DLP controls preventing sensitive data from leaving Company B's network

- A. Documenting third-party connections used by Company B
- B. Reviewing the privacy policies currently adopted by Company B
- C. Requiring data sensitivity labeling for all files shared with Company B
- D. Forcing a password reset requiring more stringent passwords for users on Company B's network
- E. Performing an architectural review of Company B's network

**Answer: AB**

#### Explanation:

To determine how the acquisition of Company B will impact the attack surface, the following steps are crucial:

\* A. Documenting third-party connections used by Company B: Understanding all external connections is essential for assessing potential entry points for attackers and ensuring that these connections are secure.

\* E. Performing an architectural review of Company B's network: This review will identify vulnerabilities and assess the security posture of the acquired company's network, providing a comprehensive understanding of the new attack surface.

These actions will provide a clear picture of the security implications of the acquisition and help in developing a plan to mitigate any identified risks.

References:

- ? CompTIA SecurityX Study Guide: Emphasizes the importance of understanding third-party connections and conducting architectural reviews during acquisitions.
- ? NIST Special Publication 800-37, "Guide for Applying the Risk Management Framework to Federal Information Systems": Recommends comprehensive reviews

and documentation of third-party connections.

? "Mergers, Acquisitions, and Other Restructuring Activities" by Donald DePamphilis: Discusses the importance of security assessments during acquisitions.

**NEW QUESTION 41**

A security analyst is reviewing the following event timeline from an COR solution:

Time	File name	File action	Action verdict
4:08 p.m.	hr-reporting.docx	File save	Allowed
4:09 p.m.	hr-reporting.docx	Scan initiated	Pending
4:10 p.m.	hr-reporting.docx	File execute	Allowed
4:16 p.m.	paychecks.xlsx	File save	Allowed
4:16 p.m.	paychecks.xlsx	File shared	Allowed
4:17 p.m.	hr-reporting.docx	Script launched	Allowed
4:19 p.m.	hr-reporting.docx	Scan complete	Malware found
4:20 p.m.	paychecks.xlsx	File edit	Allowed

Which of the following most likely has occurred and needs to be fixed?

- A. The DI P has failed to block malicious exfiltration and data tagging is not being utilized property
- B. An EDR bypass was utilized by a threat actor and updates must be installed by the administrator.
- C. A logic law has introduced a TOCTOU vulnerability and must be addressed by the COR vendor
- D. A potential insider threat is being investigated and will be addressed by the senior management team.

**Answer: C**

**Explanation:**

The event timeline indicates a sequence where a file (hr-reporting.docx) was saved, scanned, executed, and eventually found to contain malware. The critical issue here is that the malware scan completed after the file was already executed. This suggests a Time-Of- Check to Time-Of-Use (TOCTOU) vulnerability, where the state of the file changed between the time it was checked and the time it was used.

References:

- ? CompTIA SecurityX Study Guide: Discusses TOCTOU vulnerabilities as a timing attack where the state of a resource changes after it has been validated.
- ? NIST Special Publication 800-53, "Security and Privacy Controls for Federal Information Systems and Organizations": Recommends addressing TOCTOU vulnerabilities to ensure the integrity of security operations.
- ? "The Art of Software Security Assessment" by Mark Dowd, John McDonald, and Justin Schuh: Covers logic flaws and timing vulnerabilities, including TOCTOU issues.

**NEW QUESTION 44**

An organization is implementing Zero Trust architecture A systems administrator must increase the effectiveness of the organization's context-aware access system. Which of the following is the best way to improve the effectiveness of the system?

- A. Secure zone architecture
- B. Always-on VPN
- C. Accurate asset inventory
- D. Microsegmentation

**Answer: D**

**Explanation:**

Microsegmentation is a critical strategy within Zero Trust architecture that enhances context-aware access systems by dividing the network into smaller, isolated segments. This reduces the attack surface and limits lateral movement of attackers within the network. It ensures that even if one segment is compromised, the attacker cannot easily access other segments. This granular approach to network security is essential for enforcing strict access controls and monitoring within Zero Trust environments.

Reference: CompTIA SecurityX Study Guide, Chapter on Zero Trust Security, Section on Microsegmentation and Network Segmentation.

**NEW QUESTION 48**

A cloud engineer needs to identify appropriate solutions to:

- Provide secure access to internal and external cloud resources.
- Eliminate split-tunnel traffic flows.
- Enable identity and access management capabilities.

Which of the following solutions arc the most appropriate? (Select two).

- A. Federation
- B. Microsegmentation
- C. CASB

- D. PAM
- E. SD-WAN
- F. SASE

**Answer:** CF

**Explanation:**

To provide secure access to internal and external cloud resources, eliminate split-tunnel traffic flows, and enable identity and access management capabilities, the most appropriate solutions are CASB (Cloud Access Security Broker) and SASE (Secure Access Service Edge).

Why CASB and SASE?

? CASB (Cloud Access Security Broker):

? SASE (Secure Access Service Edge):

Other options, while useful, do not comprehensively address all the requirements:

? A. Federation: Useful for identity management but does not eliminate split-tunnel traffic or provide comprehensive security.

? B. Microsegmentation: Enhances security within the network but does not directly address secure access to cloud resources or split-tunnel traffic.

? D. PAM (Privileged Access Management): Focuses on managing privileged accounts and does not provide comprehensive access control for internal and external resources.

? E. SD-WAN: Enhances WAN performance but does not inherently provide the identity and access management capabilities or eliminate split-tunnel traffic.

References:

? CompTIA SecurityX Study Guide

? "CASB: Cloud Access Security Broker," Gartner Research

**NEW QUESTION 50**

Which of the following best describes the challenges associated with widespread adoption of homomorphic encryption techniques?

- A. Incomplete mathematical primitives
- B. No use cases to drive adoption
- C. Quantum computers not yet capable
- D. insufficient coprocessor support

**Answer:** D

**Explanation:**

Homomorphic encryption allows computations to be performed on encrypted data without decrypting it, providing strong privacy guarantees. However, the adoption of homomorphic encryption is challenging due to several factors:

? A. Incomplete mathematical primitives: This is not the primary barrier as the theoretical foundations of homomorphic encryption are well-developed.

? B. No use cases to drive adoption: There are several compelling use cases for homomorphic encryption, especially in privacy-sensitive fields like healthcare and finance.

? C. Quantum computers not yet capable: Quantum computing is not directly related to the challenges of adopting homomorphic encryption.

? D. Insufficient coprocessor support: The computational overhead of homomorphic encryption is significant, requiring substantial processing power. Current general-purpose processors are not optimized for the intensive computations required by homomorphic encryption, limiting its practical deployment. Specialized hardware or coprocessors designed to handle these computations more efficiently are not yet widely available.

References:

? CompTIA Security+ Study Guide

? "Homomorphic Encryption: Applications and Challenges" by Rivest et al.

? NIST, "Report on Post-Quantum Cryptography"

**NEW QUESTION 54**

After remote desktop capabilities were deployed in the environment, various vulnerabilities were noticed.

- Exfiltration of intellectual property
- Unencrypted files
- Weak user passwords

Which of the following is the best way to mitigate these vulnerabilities? (Select two).

- A. Implementing data loss prevention
- B. Deploying file integrity monitoring
- C. Restricting access to critical file services only
- D. Deploying directory-based group policies
- E. Enabling modern authentication that supports MFA
- F. Implementing a version control system
- G. Implementing a CMDB platform

**Answer:** AE

**Explanation:**

To mitigate the identified vulnerabilities, the following solutions are most appropriate:

? A. Implementing data loss prevention (DLP): DLP solutions help prevent the unauthorized transfer of data outside the organization. This directly addresses the exfiltration of intellectual property by monitoring, detecting, and blocking sensitive data transfers.

? E. Enabling modern authentication that supports Multi-Factor Authentication

(MFA): This significantly enhances security by requiring additional verification methods beyond just passwords. It addresses the issue of weak user passwords by making it much harder for unauthorized users to gain access, even if they obtain the password.

Other options, while useful in specific contexts, do not address all the vulnerabilities mentioned:

? B. Deploying file integrity monitoring helps detect changes to files but does not prevent data exfiltration or address weak passwords.

? C. Restricting access to critical file services improves security but is not comprehensive enough to mitigate all identified vulnerabilities.

? D. Deploying directory-based group policies can enforce security policies but might not directly prevent data exfiltration or ensure strong authentication.

? F. Implementing a version control system helps manage changes to files but is not a security measure for preventing the identified vulnerabilities.

? G. Implementing a CMDB platform (Configuration Management Database) helps manage IT assets but does not address the specific security issues mentioned.

References:

- ? CompTIA Security+ Study Guide
- ? NIST SP 800-53 Rev. 5, "Security and Privacy Controls for Information Systems and Organizations"
- ? CIS Controls, "Control 13: Data Protection" and "Control 16: Account Monitoring and Control"

**NEW QUESTION 58**

**SIMULATION**

An organization is planning for disaster recovery and continuity of operations, and has noted the following relevant findings:

- \* 1. A natural disaster may disrupt operations at Site A, which would then cause an evacuation. Users are unable to log into the domain from their workstations after relocating to Site B.
- \* 2. A natural disaster may disrupt operations at Site A, which would then cause the pump room at Site B to become inoperable.
- \* 3. A natural disaster may disrupt operations at Site A, which would then cause unreliable internet connectivity at Site B due to route flapping.

**INSTRUCTIONS**

Match each relevant finding to the affected host by clicking on the host name and selecting the appropriate number.

For findings 1 and 2, select the items that should be replicated to Site B. For finding 3, select the item requiring configuration changes, then select the appropriate corrective action from the drop-down menu.

Select the appropriate corrective action for finding 3:

Select corrective action

- Select corrective action
- Modify the BGP configuration
- Update the firmware version
- Integrate a WAF
- Synchronize the SIEM database
- Increase the bandwidth at the site
- Update the SCADA master controller software
- Implement AV software

**SITE A**

- PLC
- SCADA master controller
- Application server 02
- Application server 01
- DNS
- HVAC
- Pumps
- VPN concentrator
- Webservice 01

**Internet**

**SITE B**

- Application server 04
- VPN concentrator
- Fileserver
- Application server 03
- Pumps
- PLC

## Relevant findings ✕



A natural disaster may disrupt operations at Site A, which would then cause an evacuation. Users are unable to log into the domain from their workstations after relocating to Site B.

Select this for the item that should be replicated to Site B.



A natural disaster may disrupt operations at Site A, which would then cause the pump room at Site B to become inoperable.

Select this for the item that should be replicated to Site B.



A natural disaster may disrupt operations at Site A, which would then cause unreliable Internet connectivity at Site B due to route flapping.

Select this for the item requiring configuration changes.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Matching Relevant Findings to the Affected Hosts:

? Finding 1:

? Finding 2:

? Finding 3:

Corrective Actions for Finding 3:

? Finding 3 Corrective Action:

? Replication to Site B for Finding 1:

? Replication to Site B for Finding 2:

? Configuration Changes for Finding 3:

References:

? CompTIA Security+ Study Guide: This guide provides detailed information on disaster recovery and continuity of operations, emphasizing the importance of replicating critical services and making necessary configuration changes to ensure seamless operation during disruptions.

? CompTIA Security+ Exam Objectives: These objectives highlight key areas in disaster recovery planning, including the replication of critical services and network configuration adjustments.

? Disaster Recovery and Business Continuity Planning (DRBCP): This resource outlines best practices for ensuring that operations can continue at an alternate site during a disaster, including the replication of essential services and network stability measures.

By ensuring that critical services like DNS and control systems for pumps are replicated at the alternate site, and by addressing network routing issues through proper BGP configuration, the organization can maintain operational continuity and minimize the impact of natural disasters on their operations.

**NEW QUESTION 59**

A cybersecurity architect is reviewing the detection and monitoring capabilities for a global company that recently made multiple acquisitions. The architect discovers that the acquired companies use different vendors for detection and monitoring. The architect's goal is to:

- Create a collection of use cases to help detect known threats
- Include those use cases in a centralized library for use across all of the companies. Which of the following is the best way to achieve this goal?

- A. Sigma rules
- B. Ariel Query Language
- C. UBA rules and use cases
- D. TAXII/STIX library

**Answer:** A

**Explanation:**

To create a collection of use cases for detecting known threats and include them in a centralized library for use across multiple companies with different vendors, Sigma rules are the best option. Here's why:

? Vendor-Agnostic Format: Sigma rules are a generic and open standard for writing

SIEM (Security Information and Event Management) rules. They can be translated to specific query languages of different SIEM systems, making them highly versatile and applicable across various platforms.

? Centralized Rule Management: By using Sigma rules, the cybersecurity architect

can create a centralized library of detection rules that can be easily shared and implemented across different detection and monitoring systems used by the acquired companies. This ensures consistency in threat detection capabilities.

? Ease of Use and Flexibility: Sigma provides a structured and straightforward

format for defining detection logic. It allows for the easy creation, modification, and sharing of rules, facilitating collaboration and standardization across the

organization.

#### NEW QUESTION 60

The material finding from a recent compliance audit indicate a company has an issue with excessive permissions. The findings show that employees changing roles or departments results in privilege creep. Which of the following solutions are the best ways to mitigate this issue? (Select two).

Setting different access controls defined by business area

- A. Implementing a role-based access policy
- B. Designing a least-needed privilege policy
- C. Establishing a mandatory vacation policy
- D. Performing periodic access reviews
- E. Requiring periodic job rotation

**Answer:** AD

#### Explanation:

To mitigate the issue of excessive permissions and privilege creep, the best solutions are:

- ? Implementing a Role-Based Access Policy:
- ? Performing Periodic Access Reviews:

#### NEW QUESTION 62

A systems engineer is configuring a system baseline for servers that will provide email services. As part of the architecture design, the engineer needs to improve performance of the systems by using an access vector cache, facilitating mandatory access control and protecting against:

- Unauthorized reading and modification of data and programs
- Bypassing application security mechanisms
- Privilege escalation
- interference with other processes

Which of the following is the most appropriate for the engineer to deploy?

- A. SELinux
- B. Privileged access management
- C. Self-encrypting disks
- D. NIPS

**Answer:** A

#### Explanation:

The most appropriate solution for the systems engineer to deploy is SELinux (Security- Enhanced Linux). Here's why:

- ? Mandatory Access Control (MAC): SELinux enforces MAC policies, ensuring that only authorized users and processes can access specific resources. This helps in preventing unauthorized reading and modification of data and programs.
- ? Access Vector Cache: SELinux utilizes an access vector cache (AVC) to improve performance. The AVC caches access decisions, reducing the need for repetitive policy lookups and thus improving system efficiency.
- ? Security Mechanisms: SELinux provides a robust framework to enforce security policies and prevent bypassing of application security mechanisms. It controls access based on defined policies, ensuring that security measures are consistently applied.
- ? Privilege Escalation and Process Interference: SELinux limits the ability of processes to escalate privileges and interfere with each other by enforcing strict access controls. This containment helps in isolating processes and minimizing the risk of privilege escalation attacks.
- ? References:

#### NEW QUESTION 63

A software company deployed a new application based on its internal code repository Several customers are reporting anti-malware alerts on workstations used to test the application Which of the following is the most likely cause of the alerts?

- A. Misconfigured code commit
- B. Unsecure bundled libraries
- C. Invalid code signing certificate
- D. Data leakage

**Answer:** B

#### Explanation:

The most likely cause of the anti-malware alerts on customer workstations is unsecure bundled libraries. When developing and deploying new applications, it is common for developers to use third-party libraries. If these libraries are not properly vetted for security, they can introduce vulnerabilities or malicious code.

Why Unsecure Bundled Libraries?

- ? Third-Party Risks: Using libraries that are not secure can lead to malware infections if the libraries contain malicious code or vulnerabilities.
- ? Code Dependencies: Libraries may have dependencies that are not secure, leading to potential security risks.
- ? Common Issue: This is a frequent issue in software development where libraries are used for convenience but not properly vetted for security.

Other options, while relevant, are less likely to cause widespread anti-malware alerts:

- ? A. Misconfigured code commit: Could lead to issues but less likely to trigger anti- malware alerts.
- ? C. Invalid code signing certificate: Would lead to trust issues but not typically anti- malware alerts.
- ? D. Data leakage: Relevant for privacy concerns but not directly related to anti- malware alerts.

References:

- ? CompTIA SecurityX Study Guide
- ? "Securing Open Source Libraries," OWASP
- ? "Managing Third-Party Software Security Risks," Gartner Research

#### NEW QUESTION 68

While reviewing recent modem reports, a security officer discovers that several employees were contacted by the same individual who impersonated a recruiter.

Which of the following best describes this type of correlation?

- A. Spear-phishing campaign
- B. Threat modeling
- C. Red team assessment
- D. Attack pattern analysis

**Answer:** A

**Explanation:**

The situation where several employees were contacted by the same individual impersonating a recruiter best describes a spear-phishing campaign. Here's why:  
 ? Targeted Approach: Spear-phishing involves targeting specific individuals within an organization with personalized and convincing messages to trick them into divulging sensitive information or performing actions that compromise security.  
 ? Impersonation: The use of impersonation, in this case, a recruiter, is a common tactic in spear-phishing to gain the trust of the targeted individuals and increase the likelihood of a successful attack.  
 ? Correlated Contacts: The fact that several employees were contacted by the same individual suggests a coordinated effort to breach the organization's security by targeting multiple points of entry through social engineering.  
 ? References:

**NEW QUESTION 70**

**SIMULATION**

During the course of normal SOC operations, three anomalous events occurred and were flagged as potential IoCs. Evidence for each of these potential IoCs is provided.

**INSTRUCTIONS**

Review each of the events and select the appropriate analysis and remediation options for each IoC.

IoC 1	IoC 2	IoC 3	
Source Svc	Type	Dest	Data
Apache_httpd	DNSQ	@10.1.1.1:53	update.s.domain
Apache_httpd	DNSQR	@10.1.2.5	CNAME 3a129sk219r0slsmfkzzz000.s.domain
Apache_httpd	DNSQ	@10.1.1.1:53	3a129sk219r0slsmfkzzz000.s.domain
Apache_httpd	DNSQR	@10.1.2.5	IN A 108.158.253.253

  

**Select analysis**

- An employee is attempting to access a blocked website.
- Someone is footprinting a network subnet.
- A host is participating in an IRC-based botnet.
- Service identification and fingerprinting are occurring.
- Canonical name records in a public DNS cache are being updated.
- An application is performing an automatic update.
- An employee is using P2P services to download files.
- The service is attempting to resolve a malicious domain.

Analysis Select analysis ▾

  

**Select remediation**

- Enforce endpoint controls on third-party software installations.
- Investigate for software supply-chain attacks.
- Configure the DNS server to perform recursion.
- Block ping requests across the WAN interface.
- Deploy a network-based DLP solution.
- Implement a blocklist for known malicious ports.
- No further action is needed.

Remediation Select remediation ▾

IoC 1		IoC 2		IoC 3	
Src	Dst	Proto	Data	Action	
10.0.5.5	10.1.2.1	IP_ICMP	ECHO	Drop	
10.0.5.5	10.1.2.2	IP_ICMP	ECHO	Drop	
10.0.5.5	10.1.2.3	IP_ICMP	ECHO	Drop	
10.0.5.5	10.1.2.4	IP_ICMP	ECHO	Drop	
10.0.5.5	10.1.2.5	IP_ICMP	ECHO	Drop	

  

**Select analysis**

- An employee is attempting to access a blocked website.
- Someone is footprinting a network subnet.
- A host is participating in an IRC-based botnet.
- Service identification and fingerprinting are occurring.
- Canonical name records in a public DNS cache are being updated.
- An application is performing an automatic update.
- An employee is using P2P services to download files.
- The service is attempting to resolve a malicious domain.

Select analysis

  

**Select remediation**

- Enforce endpoint controls on third-party software installations.
- Investigate for software supply-chain attacks.
- Configure the DNS server to perform recursion.
- Block ping requests across the WAN interface.
- Deploy a network-based DLP solution.
- Implement a blocklist for known malicious ports.
- No further action is needed.

Select remediation

IoC 1		IoC 2		IoC 3	
<pre> Proxylog&gt; &gt; GET /announce?info_hash=%01d%FE%7E%F1%10%5CwvAp%ED%F6%03%49%D6B%14%F1&amp; &gt; peer_id=%B8js%7F%E8%0C%AFh%02Y%967%24e%27V%EEM%16%5B&amp;port=41730&amp; &gt; uploaded=0&amp;downloaded=0&amp;left=3767869&amp;compact=1&amp;ip=10.5.1.26&amp;event=started &gt; HTTP/1.1 &gt; Accept: application/x-bittorrent &gt; Accept-Encoding: gzip &gt; User-Agent: RAZA 2.1.0.0 &gt; Host: localhost &gt; Connection: Keep-Alive &lt; &lt; HTTP 200 OK                     </pre>					

  

**Select analysis**

- An employee is attempting to access a blocked website.
- Someone is footprinting a network subnet.
- A host is participating in an IRC-based botnet.
- Service identification and fingerprinting are occurring.
- Canonical name records in a public DNS cache are being updated.
- An application is performing an automatic update.
- An employee is using P2P services to download files.
- The service is attempting to resolve a malicious domain.

Select analysis

  

**Select remediation**

- Enforce endpoint controls on third-party software installations.
- Investigate for software supply-chain attacks.
- Configure the DNS server to perform recursion.
- Block ping requests across the WAN interface.
- Deploy a network-based DLP solution.
- Implement a blocklist for known malicious ports.
- No further action is needed.

Select remediation

A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

Analysis and Remediation Options for Each IoC: IoC 1:

? Evidence:

? Analysis:

? Remediation:

IoC 2:

? Evidence:

? Analysis:

? Remediation:

IoC 3:

? Evidence:

? Analysis:

? Remediation:

References:

? CompTIA Security+ Study Guide: This guide offers detailed explanations on identifying and mitigating various types of Indicators of Compromise (IoCs) and the corresponding analysis and remediation strategies.

? CompTIA Security+ Exam Objectives: These objectives cover key concepts in network security monitoring and incident response, providing guidelines on how to handle different types of security events.

? Security Operations Center (SOC) Best Practices: This resource outlines effective strategies for analyzing and responding to anomalous events within a SOC, including the use of blocklists, endpoint controls, and network configuration changes.

By accurately analyzing the nature of each IoC and applying the appropriate remediation measures, the organization can effectively mitigate potential security threats and maintain a robust security posture.

**NEW QUESTION 75**

After an incident response exercise, a security administrator reviews the following table:

Service	Risk rating	Criticality rating	Alert severity
Public website	Medium	Low	Low
Email	High	High	High
Human resources systems	High	Medium	Medium
Phone system	High	Critical	Critical
Intranet	Low	Low	Low

Which of the following should the administrator do to best support rapid incident response in the future?

- A. Automate alerting to IT support for phone system outages.
- B. Enable dashboards for service status monitoring
- C. Send emails for failed log-in attempts on the public website
- D. Configure automated isolation of human resources systems

**Answer:** B

**Explanation:**

Enabling dashboards for service status monitoring is the best action to support rapid incident response. The table shows various services with different risk, criticality, and alert severity ratings. To ensure timely and effective incident response, real-time visibility into the status of these services is crucial.

Why Dashboards for Service Status Monitoring?

? Real-time Visibility: Dashboards provide an at-a-glance view of the current status of all critical services, enabling rapid detection of issues.

? Centralized Monitoring: A single platform to monitor the status of multiple services helps streamline incident response efforts.

? Proactive Alerting: Dashboards can be configured to show alerts and anomalies immediately, ensuring that incidents are addressed as soon as they arise.

? Improved Decision Making: Real-time data helps incident response teams make informed decisions quickly, reducing downtime and mitigating impact.

Other options, while useful, do not offer the same level of comprehensive, real-time visibility and proactive alerting:

? A. Automate alerting to IT support for phone system outages: This addresses one service but does not provide a holistic view.

? C. Send emails for failed log-in attempts on the public website: This is a specific alert for one type of issue and does not cover all services.

? D. Configure automated isolation of human resources systems: This is a reactive measure for a specific service and does not provide real-time status monitoring.

References:

? CompTIA SecurityX Study Guide

? NIST Special Publication 800-61 Revision 2, "Computer Security Incident Handling Guide"

? "Best Practices for Implementing Dashboards," Gartner Research

**NEW QUESTION 79**

A security architect wants to develop a baseline of security configurations. These configurations automatically will be utilized machine is created. Which of the following technologies should the security architect deploy to accomplish this goal?

- A. Short
- B. GASB
- C. Ansible
- D. CMDB

**Answer:** C

**Explanation:**

To develop a baseline of security configurations that will be automatically utilized when a machine is created, the security architect should deploy Ansible. Here??s why:

? Automation: Ansible is an automation tool that allows for the configuration, management, and deployment of applications and systems. It ensures that security configurations are consistently applied across all new machines.

? Scalability: Ansible can scale to manage thousands of machines, making it suitable for large enterprises that need to maintain consistent security configurations across their infrastructure.

? Compliance: By using Ansible, organizations can enforce compliance with security policies and standards, ensuring that all systems are configured according to best practices.

? References:

**NEW QUESTION 83**

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