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CompTIA SecurityX Certification Exam Sample Questions (Q134-Q139):

NEW QUESTION # 134
Which of the following AI concerns is most adequately addressed by input sanitation?

- A. Non-explainable model
- B. Data poisoning
- C. Prompt Injection
- D. Model inversion

Answer: C

Explanation:
Input sanitation is a critical process in cybersecurity that involves validating and cleaning data provided by users to prevent malicious

inputs from causing harm. In the context of AI concerns:
A: Model inversion involves an attacker inferring sensitive data from model outputs, typically requiring sophisticated methods beyond just manipulating input data.
B: Prompt Injection is a form of attack where an adversary provides malicious input to manipulate the behavior of AI models, particularly those dealing with natural language processing (NLP). Input sanitation directly addresses this by ensuring that inputs are cleaned and validated to remove potentially harmful commands or instructions that could alter the AI's behavior.
C: Data poisoning involves injecting malicious data into the training set to compromise the model. While input sanitation can help by filtering out bad data, data poisoning is typically addressed through robust data validation and monitoring during the model training phase, rather than real-time input sanitation.
D: Non-explainable model refers to the lack of transparency in how AI models make decisions. This concern is not addressed by input sanitation, as it relates more to model design and interpretability techniques.
Input sanitation is most relevant and effective for preventing Prompt Injection attacks, where the integrity of user inputs directly impacts the performance and security of AI models.
References:
CompTIA Security+ Study Guide
"Security of Machine Learning" by Battista Biggio, Blaine Nelson, and Pavel Laskov OWASP (Open Web Application Security Project) guidelines on input validation and injection attacks Top of Form Bottom of Form

NEW QUESTION # 135
A compliance officer is facilitating a business impact analysis (BIA) and wants business unit leaders to collect meaningful data. Several business unit leaders want more information about the types of data the officer needs.
Which of the following data types would be the most beneficial for the compliance officer? (Select two)

- A. Network diagrams
- B. Applicable contract obligations
- C. Costs associated with downtime
- D. Contingency plans
- E. Inventory details
- F. Critical processes

Answer: B,C,F

Explanation:
Comprehensive and Detailed Explanation:
* Understanding Business Impact Analysis (BIA):
* A BIA assesses the effects of disruptions to an organization's operations.
* It helps prioritize resources based on the potential impact of downtime, compliance issues, and critical processes.
* Why Options B, C, and F are Correct:
* B (Applicable contract obligations) # Many companies have legal and compliance obligations regarding downtime, availability, and SLAs. This information helps determine what risk levels are acceptable.
* C (Costs associated with downtime) # BIA quantifies the financial impact of system failures.
Knowing lost revenue, regulatory fines, and recovery costs helps in planning.
* F (Critical processes) # Identifying core business processes allows an organization to prioritize recovery efforts and maintain operational continuity.
* Why Other Options Are Incorrect:
* A (Inventory details) # While useful for asset management, it does not directly impact business continuity planning.
* D (Network diagrams) # These help in security architecture but are not directly related to the financial/business impact analysis.
* E (Contingency plans) # BIA is performed before contingency planning to identify what needs protection.

NEW QUESTION # 136
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. Enabling modem authentication that supports MFA
- B. Deploying directory-based group policies

- C. Restricting access to critical file services only
- D. Implementing a CMDB platform
- E. Deploying file integrity monitoring
- F. Implementing data loss prevention
- G. Implementing a version control system

Answer: A,F

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 # 137
A company isolated its OT systems from other areas of the corporate network These systems are required to report usage information over the internet to the vendor Which oi the following b*st reduces the risk of compromise or sabotage' (Select two).

- A. Monitoring network behavior
- B. Performing boot Integrity checks
- C. Implementing a site-to-site IPSec VPN
- D. Implementing allow lists
- E. Encrypting data at rest
- F. Executing daily health checks

Answer: C,D

Explanation:
* A. Implementing allow lists: Allow lists (whitelisting) restrict network communication to only authorized devices and applications, significantly reducing the attack surface by ensuring that only pre-approved traffic is permitted.
* F. Implementing a site-to-site IPSec VPN: A site-to-site VPN provides a secure, encrypted tunnel for data transmission between the OT systems and the vendor, protecting the data from interception and tampering during transit.
Other options:
* B. Monitoring network behavior: While useful for detecting anomalies, it does not proactively reduce the risk of compromise or sabotage.
* C. Encrypting data at rest: Important for protecting data stored on devices, but does not address network communication risks.
* D. Performing boot integrity checks: Ensures the integrity of the system at startup but does not protect ongoing network communications.
* E. Executing daily health checks: Useful for maintaining system health but does not directly reduce the risk of network-based compromise or sabotage.
References:
* CompTIA Security+ Study Guide
* NIST SP 800-82, "Guide to Industrial Control Systems (ICS) Security"

* "Industrial Network Security" by Eric D. Knapp and Joel Thomas Langill

NEW QUESTION # 138

You are tasked with integrating a new B2B client application with an existing OAuth workflow that must meet the following requirements:

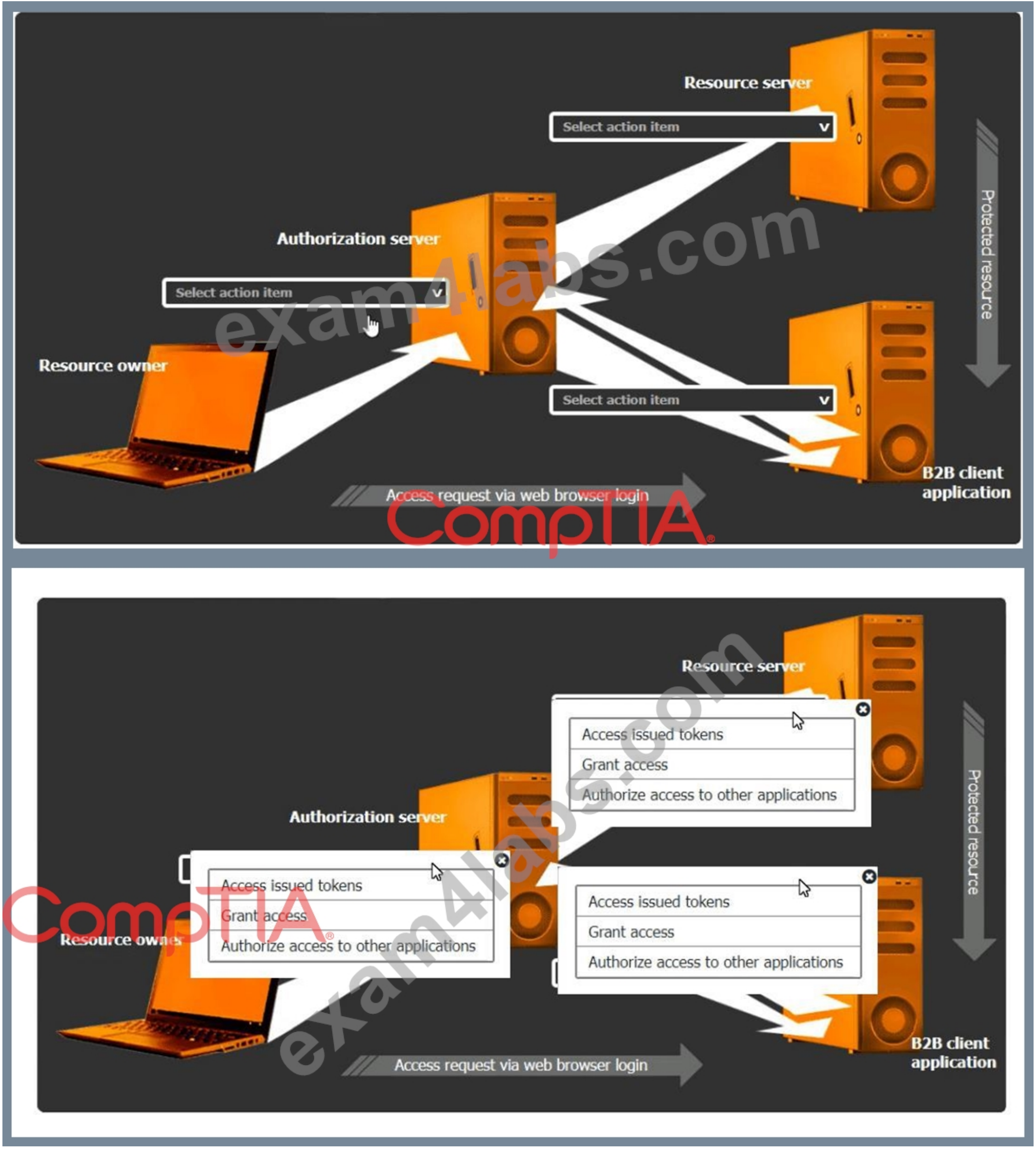
. The application does not need to know the users' credentials.

. An approval interaction between the users and the HTTP service must be orchestrated.

. The application must have limited access to users' data.

INSTRUCTIONS

Use the drop-down menus to select the action items for the appropriate locations. All placeholders must be filled.



Answer:

Explanation:

See the complete solution below in Explanation:

Explanation:
Select the Action Items for the Appropriate Locations:
Authorization Server:
Action Item: Grant access
The authorization server's role is to authenticate the user and then issue an authorization code or token that the client application can use to access resources. Granting access involves the server authenticating the resource owner and providing the necessary tokens for the client application.
Resource Server:
Action Item: Access issued tokens
The resource server is responsible for serving the resources requested by the client application. It must verify the issued tokens from the authorization server to ensure the client has the right permissions to access the requested data.
B2B Client Application:
Action Item: Authorize access to other applications
The B2B client application must handle the OAuth flow to authorize access on behalf of the user without requiring direct knowledge of the user's credentials. This includes obtaining authorization tokens from the authorization server and using them to request access to the resource server.
Detailed Explanation:
OAuth 2.0 is designed to provide specific authorization flows for web applications, desktop applications, mobile phones, and living room devices. The integration involves multiple steps and components, including:
Resource Owner (User):
The user owns the data and resources that are being accessed.
Client Application (B2B Client Application):
Requests access to the resources controlled by the resource owner but does not directly handle the user's credentials. Instead, it uses tokens obtained through the OAuth flow.
Authorization Server:
Handles the authentication of the resource owner and issues the access tokens to the client application upon successful authentication.
Resource Server:
Hosts the resources that the client application wants to access. It verifies the access tokens issued by the authorization server before granting access to the resources.
OAuth Workflow:
The resource owner accesses the client application.
The client application redirects the resource owner to the authorization server for authentication.
The authorization server authenticates the resource owner and asks for consent to grant access to the client application.
Upon consent, the authorization server issues an authorization code or token to the client application.
The client application uses the authorization code or token to request access to the resources from the resource server.
The resource server verifies the token with the authorization server and, if valid, grants access to the requested resources.

NEW QUESTION # 139
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