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CompTIA SecAI+ Certification Exam Sample Questions (Q61-Q66):

NEW QUESTION # 61
Which of the following attacks would be the best to automate with AI during dynamic application software testing (DAST)?

- A. Payload creation
- B. Data poisoning
- C. Threat modeling
- D. Distributed denial-of-service (DDoS)

Answer: A

Explanation:
Basic Concept: Dynamic Application Security Testing (DAST) tests running applications by sending various inputs to discover vulnerabilities. AI can significantly enhance DAST by intelligently generating diverse, targeted test payloads that traditional tools might miss. CompTIA SecAI+ covers AI augmentation of security testing methodologies.
Why C is Correct: Payload creation is highly suitable for AI automation during DAST. AI can generate diverse, contextually appropriate attack payloads such as SQL injection strings, XSS vectors, command injection attempts, and format string exploits

tailored to the specific application ' s behavior observed during testing. AI can learn from the application ' s responses to previous payloads and generate increasingly targeted inputs, discovering vulnerabilities more efficiently than static payload databases.
Why A is Wrong: DDoS attacks are volume-based attacks designed to overwhelm network or application infrastructure. Automating DDoS during DAST is inappropriate as it would disrupt service availability rather than discover application security vulnerabilities, and it is harmful to legitimate operations.
Why B is Wrong: Data poisoning is an attack targeting AI/ML model training data integrity. It is relevant to securing AI systems but is not a DAST technique for testing web or software application security vulnerabilities during dynamic testing.
Why D is Wrong: Threat modeling is a structured analysis process performed before development or testing to identify potential threats and design appropriate countermeasures. It is a planning activity, not an attack technique that can be automated during dynamic application security testing.

NEW QUESTION # 62
An AI security team must assess the probability of an attack on its new system and the impact associated with such an attack. Which of the following threat-modeling resources best addresses the threat landscape for machine learning (ML)?

- A. MITRE Adversarial Threat Landscape for AI Systems (ATLAS)
- B. Common Vulnerabilities and Exposures (CVE) AI working group
- C. Open Worldwide Application Security Project (OWASP)
- D. Massachusetts Institute of Technology (MIT) risk repository

Answer: A

Explanation:
MITRE ATLAS is specifically designed to capture adversarial tactics, techniques, and procedures (TTPs) targeting machine learning systems. It helps organizations assess both the probability and impact of AI/ML-related attacks, making it the most relevant threat-modeling resource.

NEW QUESTION # 63
Which of the following controls is the best way to mitigate a denial-of-service (DoS) attack?

- A. Access controls
- B. End-to-end encryption
- C. Model guardrails
- D. Rate limiting

Answer: D

Explanation:
Basic Concept: DoS attacks overwhelm AI systems by sending excessive requests that exhaust computational resources, memory, or bandwidth, preventing legitimate users from being served. The primary defense against volume-based attacks is throttling the rate at which requests can be processed. CompTIA SecAI+ Exam Objectives identify rate limiting as the key DoS mitigation control for AI systems.
Why B is Correct: Rate limiting directly addresses the root mechanism of DoS attacks by restricting the number of requests any single client or IP address can submit within a defined time window. By enforcing request quotas, rate limiting prevents attackers from generating the request volume necessary to overwhelm the system while preserving capacity for legitimate users. It is the most direct and effective preventive control against DoS attacks on AI APIs and services.
Why A is Wrong: Model guardrails inspect and filter the content of prompts and responses for policy compliance and safety. They operate at the semantic content level, not at the request volume level, and cannot prevent resource exhaustion from high-volume request flooding.
Why C is Wrong: End-to-end encryption protects the confidentiality and integrity of data in transit. Encrypted DoS traffic is just as damaging as unencrypted traffic; encryption does not limit request rates or prevent resource exhaustion.
Why D is Wrong: Access controls restrict who can interact with the system, which can reduce the potential attacker pool. However, authenticated users and compromised accounts can still launch DoS attacks, and access controls alone cannot prevent high-volume attacks from authorized sources.

NEW QUESTION # 64
Which of the following helps in managing potential security issues related to model training?

- A. International Organization for Standardization (ISO) 27001
- B. National Institute of Standards and Technology (NIST) AI Risk Management Framework (RMF)
- C. General Data Protection Regulation (GDPR)
- D. Organization for Economic Co-operation and Development (OECD)

Answer: B

Explanation:
The NIST AI RMF provides structured guidance for identifying, assessing, and managing risks specific to AI systems, including those arising during model training. It addresses issues like bias, security, and data integrity, making it the best framework for managing training-related security concerns.

NEW QUESTION # 65
Which of the following attacks is most enabled by AI-generated content?

- A. Model poisoning
- B. Phishing
- C. Remote code execution
- D. Ransomware

Answer: B

Explanation:
Basic Concept: AI-generated content including personalized text, synthetic voice, and deepfake video has dramatically enhanced the effectiveness and scalability of social engineering attacks. Understanding how AI amplifies specific attack types is key to CompTIA SecAI+ basic AI concepts in the cybersecurity context.
Why B is Correct: Phishing attacks are most dramatically enabled by AI-generated content. AI can generate highly personalized, grammatically perfect phishing emails tailored to individual targets using publicly available information. It can create convincing deepfake audio and video for voice phishing (vishing) and video phishing, replicate executive communication styles for business email compromise, and generate phishing campaigns at massive scale. The quality and personalization that previously required skilled human social engineers can now be automated with AI.
Why A is Wrong: Model poisoning is a specific attack against AI systems that corrupts training data to manipulate model behavior. While sophisticated, it is a targeted AI security attack rather than a broad cybercrime enabled by AI-generated content at scale.
Why C is Wrong: Ransomware is malware that encrypts victim data and demands payment for decryption keys. While AI can assist in ransomware development, ransomware deployment relies on code execution and network propagation techniques more than AI-generated content.
Why D is Wrong: Remote code execution involves exploiting vulnerabilities to run arbitrary code on a target system. It relies on technical vulnerability exploitation rather than AI-generated content. AI might assist in finding vulnerabilities, but RCE is not primarily enabled by content generation.

NEW QUESTION # 66
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