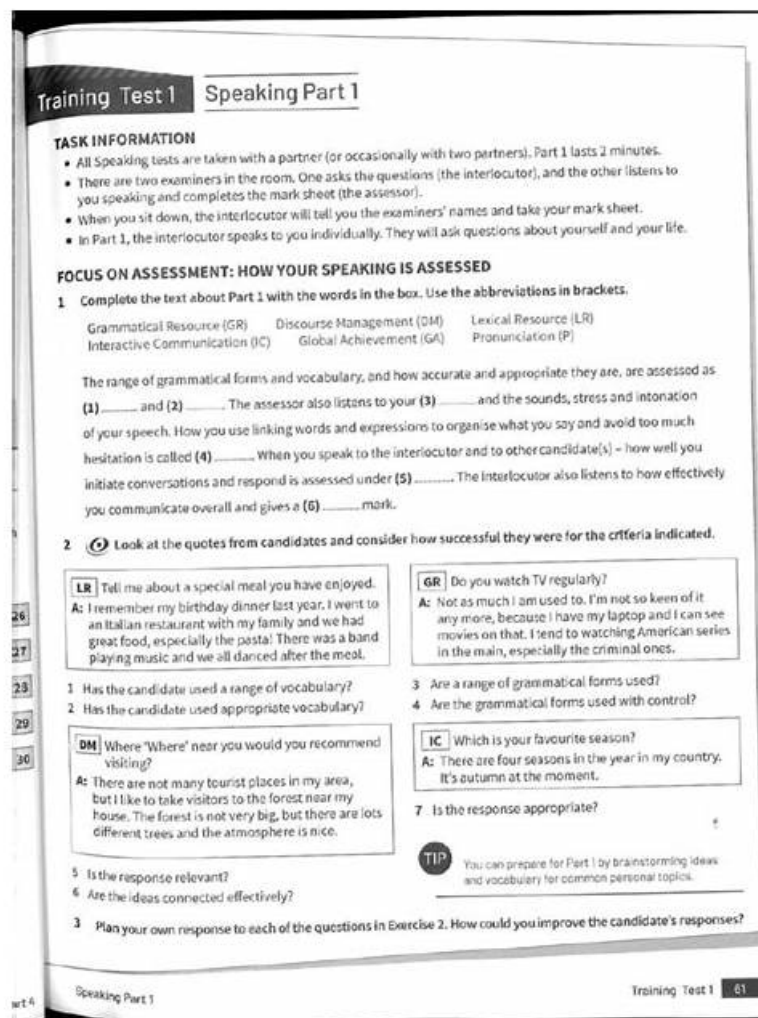


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CompTIA SecAI+ Certification Exam Sample Questions (Q65-Q70):

NEW QUESTION # 65

A security consultant needs to detect attacks across a large language model (LLM) firewall. Which of the following techniques should the consultant use?

- A. Signature matching
- B. Translation analysis
- C. Distributed denial-of-service
- D. Vulnerability enumeration

Answer: A

Explanation:

Signature matching allows the detection of known malicious patterns, inputs, or behaviors targeting an LLM firewall. It is an effective technique for identifying and blocking prompt injection or other recognized attack methods.

NEW QUESTION # 66

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

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

Answer: D

Explanation:

Rate limiting restricts the number of requests within a set timeframe, preventing attackers from overwhelming the system with excessive traffic, making it the best control to mitigate a DoS attack.

NEW QUESTION # 67

A financial organization implements a new AI-based fraud detection system to flag suspicious transactions. A security analyst discovers that it occasionally blocks legitimate transactions.

Which of the following is the best recommendation?

- A. Implementing AI token usage and rate limits
- B. Encrypting all the data processed by AI and applying further access controls
- C. Retaining the model with more data and recent transaction patterns
- D. Rolling back the model and using a traditional fraud detection system

Answer: C

Explanation:

False positives occur when the AI model lacks sufficient or representative training data.

Retraining the model with more diverse and recent transaction patterns improves accuracy, reducing the chance of legitimate transactions being incorrectly flagged.

NEW QUESTION # 68

User experience is declining since the launch of a large language model (LLM) in internal networks. Which of the following should be the highest priority for the prompt engineers?

- A. Quality control
- B. Customer success management
- C. Business objectives
- D. Sales life cycle

Answer: A

Explanation:

When user experience is declining after an LLM launch, the top priority for prompt engineers is quality control. Ensuring prompts

produce accurate, relevant, and safe outputs directly improves usability and restores user trust.

NEW QUESTION # 69

SIMULATION

Instructions

Part1

Use drop-down menu to select the most appropriate protocol or cipher for each system component.

Part2

Use the drop-down menu to select the most appropriate technique to apply to the modified data.

It at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

An engineer is analyzing findings from a penetration test that indicate insufficient data encryption.

The engineer must implement data security.

The simulation interface is divided into two parts: Part 1 and Part 2. Part 1 shows the system architecture with four components: End client, API gateway, Database, and AI model. Part 2 shows the configuration options for each component, which are the same for all: RSA-2048, 3DES, AES-512, TLS 1.2, gRPC, SSL 1.0, SHA-2 512, HMAC-SHA512, and RC4.

Component	Protocol/Cipher
End client	Select...
API gateway	Select...
Database	Select...
AI model	Select...

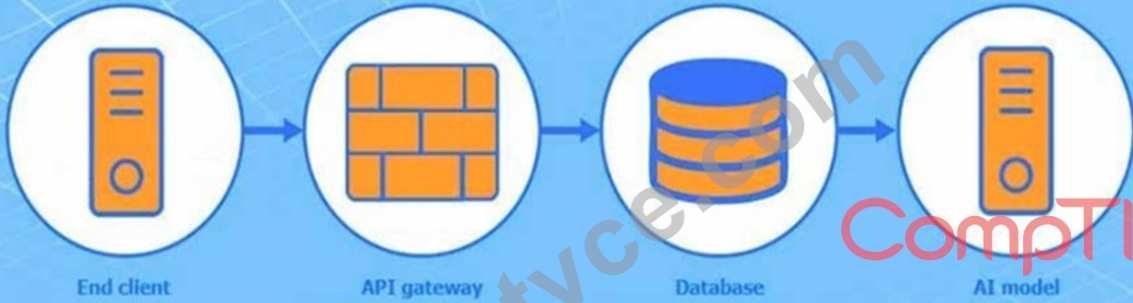
Technique	Original data	Modified data
Select... Select... Anonymization Classification De-identification Tokenization Masking	{pin:"999-99-9999", name:"john doe"}	{pin:"999-99-9999", name:"john doe", sensitivity:"SECRET"}
Select... Select... Anonymization Classification De-identification Tokenization Masking	{ip_addr:"1.2.3.4", cookie:"aK3idkd==", name:"John Doe" uid="1111"}	{cookie:"aK3idkd==", uid="1111"}
Select... Select... Anonymization Classification De-identification Tokenization Masking	{pin:"999-99-9999", name:"john doe"}	{pin:"999-99-XXXX", name:"john doe"}
Select... Select... Anonymization Classification De-identification Tokenization Masking	{card_number:"111122223333444", name:"john doe", user_id:"1"}	{card_number:"0x0193828829", name:"john doe", user_id:"1"}
Select... Select... Anonymization Classification De-identification Tokenization Masking	{name:"john doe", patient_id:"10000", dob:"1980-jan-05"}	{patient_id:"10000", dob:"1980-jan-05"}

Answer:

Explanation:

Part 1

Part 2



- Select...
- Select...
- RSA-2048
- 3DES
- AES-512
- TLS 1.2**
- gRPC
- SSL 1.0
- SHA-2 512
- HMAC-SHA512
- RC4

- Select...
- Select...
- RSA-2048
- 3DES
- AES-512**
- TLS 1.2
- gRPC
- SSL 1.0
- SHA-2 512
- HMAC-SHA512
- RC4

- Select...
- Select...
- RSA-2048
- 3DES
- AES-512
- TLS 1.2
- gRPC**
- SSL 1.0
- SHA-2 512
- HMAC-SHA512
- RC4

CompTIA

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Technique	Original data	Modified data
Select... Select... Anonymization Classification De-identification Tokenization Masking	{pin:"999-99-9999", name:"John doe"}	{pin:"999-99-9999", name:"John doe", sensitivity:"SECRET"}
Select... Select... Anonymization Classification De-identification Tokenization Masking	{ip_addr:"1.2.3.4", cookie:"aK3idkd==", name:"John Doe" uid="1111"}	{cookie:"aK3idkd==", uid="1111"}
Select... Select... Anonymization Classification De-identification Tokenization Masking	{pin:"999-99-9999", name:"John doe"}	{pin:"999-99-XXXX", name:"John doe"}
Select... Select... Anonymization Classification De-identification Tokenization Masking	{card_number:"1111222233334444", name:"John doe", user_id:"1"}	{card_number:"0x0193828829", name:"John doe", user_id:"1"}
Select... Select... Anonymization Classification De-identification Tokenization Masking	{name:"John doe", patient_id:"10000", dob:"1980-Jan-05"}	{patient_id:"10000", dob:"1980-Jan-05"}

Explanation:

Part 1 (Protocols/Ciphers):

API Gateway: TLS 1.2

* Database: AES-512

* AI Model: gRPC

Part 2 (Techniques):

- {pin:"999-99-9999", name:"John doe"} → {pin:"999-99-9999", name:"John doe", sensitivity:"SECRET"} → Classification
- {ip_addr:"1.2.3.4", cookie:"aK3idkd==", name:"John Doe" uid="1111"} → {cookie:"aK3idkd==", uid="1111"} → De-identification
- {pin:"999-99-9999", name:"John doe"} → {pin:"999-99-XXXX", name:"John doe"} → Masking
- {card_number:"1111222233334444", name:"John doe", user_id:"1"} → {card_number:"0x019238829", name:"John doe", user_id:"1"} → Tokenization
- {name:"John doe", patient_id:"10000", dob:"1980-Jan-05"} → {patient_id:"10000", dob:"1980-Jan-05"} → Anonymization

Part 1:

- * TLS 1.2 secures client-to-gateway communications.
- * AES-512 provides strong encryption for data at rest in the database.
- * gRPC ensures efficient, secure communication between services (AI model).

Part 2:

- * Classification tags sensitive data for handling.
- * De-identification strips direct identifiers.
- * Masking obscures part of sensitive values while keeping format.
- * Tokenization replaces sensitive data with a reversible placeholder.

