



# Free Security+ Practice Test

Free Security+ Practice Test - Updated for SY0-701

30 Questions + Answer Explanations

✓ Updated 2026

☐ Strategy Box for each question

🔑 Answer Key Included

1

Which attack involves overwhelming a system with traffic from multiple compromised devices?

A Phishing

B DDoS

C Brute force

D Spoofing

**STRATEGY BOX:**

A Distributed Denial of Service (DDoS) attack uses multiple systems (a botnet) to flood a target making services unavailable.

✓ Correct Answer: B. DDoS

2

What type of malware encrypts data and demands payment for decryption?

A Trojan

B Ransomware

C Worm

D Adware

**STRATEGY BOX:**

Ransomware encrypts files and demands ransom, spreading through phishing or malicious downloads.

✓ Correct Answer: B. Ransomware

3

Which attack exploits human trust to steal sensitive information?

A SQL injection

B Phishing

C MITM

D DoS

**STRATEGY BOX:**

Phishing depends on deception through emails or messages to trick users into revealing credentials or data.

✓ Correct Answer: B. Phishing

4

What is the primary goal of a man-in-the-middle (MITM) attack?

A Crash servers

B Intercept communication

C Delete files

D Encrypt data

**STRATEGY BOX:**

MITM attacks intercept and possibly alter communication between two parties without their knowledge.

✓ Correct Answer: B. Intercept communication

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Which attack manipulates SQL queries to access unauthorized data?

A Cross-site scripting

B SQL injection

C Brute force

D Session hijacking

**STRATEGY BOX:**

SQL injection inserts malicious code into input fields to manipulate database queries.

✓ Correct Answer: B. SQL injection

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What type of attack uses repeated password guesses?

A Dictionary attack

B Brute force attack

C Replay attack

D Smurf attack

**STRATEGY BOX:**

Brute force systematically tries all password combinations until the correct one is found.

✓ Correct Answer: B. Brute force attack

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Which attack exploits vulnerabilities in web applications by injecting scripts?

A XSS

B DDoS

C ARP poisoning

D DNS poisoning

**STRATEGY BOX:**

Cross-site scripting (XSS) injects malicious scripts into trusted websites.

✓ Correct Answer: A. XSS

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What is the goal of credential stuffing attacks?

A Encrypt traffic

B Reuse leaked credentials

C Block users

D Scan ports

**STRATEGY BOX:**

Credential stuffing uses stolen username-password pairs across multiple sites.

✓ Correct Answer: B. Reuse leaked credentials

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Which attack involves redirecting traffic to fake websites?

A DNS spoofing

B Phishing

C Keylogging

D Smishing

**STRATEGY BOX:**

DNS spoofing manipulates DNS records to redirect users to malicious sites.

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✓ Correct Answer: A. DNS spoofing

10

What is the purpose of a zero-day exploit?

A Patch systems

B Use unknown vulnerabilities

C Encrypt data

D Monitor traffic

**STRATEGY BOX:**

Zero-day exploits target vulnerabilities unknown to vendors, leaving no available patch.

✓ Correct Answer: B. Use unknown vulnerabilities

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What is the first step in risk management?

A Mitigation

B Risk identification

C Monitoring

D Transfer

**STRATEGY BOX:**

Risks must be identified before they can be assessed or mitigated.

✓ Correct Answer: B. Risk identification

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What does vulnerability scanning primarily do?

A Encrypt data

B Detect system weaknesses

C Block attacks

D Monitor bandwidth

**STRATEGY BOX:**

It identifies known security flaws in systems and applications.

✓ Correct Answer: B. Detect system weaknesses

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Which tool simulates attacks to test system security?

A SIEM

B Penetration testing

C Firewall

D Antivirus

**STRATEGY BOX:**

Penetration testing actively exploits vulnerabilities to assess security posture.

✓ Correct Answer: B. Penetration testing

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What is risk acceptance?

**A** Fixing vulnerabilities

**B** Ignoring all risks

**C** Accepting potential impact without action

**D** Transferring risk

**STRATEGY BOX:**

Organizations may accept risk if the mitigation cost exceeds the impact.

✓ Correct Answer: C. Accepting potential impact without action

15

What is a false positive in vulnerability scanning?

**A** Real attack detected

**B** Non-existent vulnerability flagged

**C** System crash

**D** Malware infection

**STRATEGY BOX:**

A false positive incorrectly identifies a harmless condition as a threat.

✓ Correct Answer: B. Non-existent vulnerability flagged

16

What is the purpose of patch management?

**A** Increase bandwidth

**B** Fix known vulnerabilities

**C** Encrypt files

**D** Monitor users

**STRATEGY BOX:**

Patch management updates software to fix security weaknesses.

✓ Correct Answer: B. Fix known vulnerabilities

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What is residual risk?

**A** Total eliminated risk

**B** Risk after controls are applied

**C** New risk introduced

**D** Ignored risk

**STRATEGY BOX:**

It is the remaining risk after security measures are implemented.

✓ Correct Answer: B. Risk after controls are applied

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What does CVSS measure?

**A** Encryption strength

**B** Vulnerability severity

**C** Network speed

**D** Firewall rules

**STRATEGY BOX:**

Common Vulnerability Scoring System rates the severity of vulnerabilities.

✓ Correct Answer: B. Vulnerability severity

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What is the goal of risk transference?

A Remove risk

B Shift risk to third party

C Ignore risk

D Increase risk

**STRATEGY BOX:**

Insurance or outsourcing transfers financial impact to another party.

✓ Correct Answer: B. Shift risk to third party

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Which document defines acceptable risk levels?

A SLA

B Risk appetite statement

C Firewall policy

D Audit log

**STRATEGY BOX:**

It defines how much risk an organization is willing to tolerate.

✓ Correct Answer: B. Risk appetite statement

21

What is the core principle of Zero Trust?

A Trust internal users

B Never trust, always verify

C Block all traffic

D Open access internally

**STRATEGY BOX:**

Zero Trust assumes no implicit trust and requires continuous verification.

✓ Correct Answer: B. Never trust, always verify

22

What does network segmentation achieve?

A Increase speed

B Limit lateral movement

C Remove firewalls

D Encrypt traffic

**STRATEGY BOX:**

It isolates network parts to prevent attacker movement.

✓ Correct Answer: B. Limit lateral movement

23

What is the role of a DMZ?

A Encrypt data

B Separate public services from the internal network

C Block all traffic

D Store backups

**STRATEGY BOX:**

A DMZ provides controlled access to public-facing services.

✓ Correct Answer: B. Separate public services from the internal network

24

What is cloud hybrid architecture?

A Only on-prem systems

B Combination of cloud and on-prem resources

C No cloud usage

D Peer-to-peer network

**STRATEGY BOX:**

Hybrid environments combine local and cloud infrastructure.

✓ Correct Answer: B. Combination of cloud and on-prem resources

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What is the function of a VPN?

A Increase bandwidth

B Secure encrypted tunnel

C Scan viruses

D Block websites

**STRATEGY BOX:**

VPNs create encrypted communication channels over public networks.

✓ Correct Answer: B. Secure encrypted tunnel

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What is identity federation?

A Multiple passwords

B Shared authentication across systems

C Firewall rule

D Antivirus method

**STRATEGY BOX:**

It allows users to access multiple systems using one identity.

✓ Correct Answer: B. Shared authentication across systems

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What does MFA improve?

A Network speed

B Authentication security

C Storage capacity

D CPU performance

**STRATEGY BOX:**

Multi-factor authentication adds layers beyond passwords.

✓ Correct Answer: B. Authentication security

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What is the purpose of a SIEM system?

A Encrypt data

B Centralized log monitoring

C Block attacks

D Manage users

**STRATEGY BOX:**

SIEM collects and analyzes security events in real time.

✓ Correct Answer: B. Centralized log monitoring

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What is the least privileged principle?

A Maximum access

B Minimum necessary access

C Guest access

D Admin access

**STRATEGY BOX:**

Users only get the permissions required for their role.

✓ Correct Answer: B. Minimum necessary access

30

What does endpoint detection and response (EDR) do?

A Stores backups

B Monitors and responds to endpoint threats

C Encrypts files

D Manages DNS

**STRATEGY BOX:**

EDR detects suspicious activity on endpoints and responds in real time.

✓ Correct Answer: B. Monitors and responds to endpoint threats