CompTIA Security+

Personal Notes **Exam Objectives**

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Table of Contents

1 Threats, Attacks and Vulnerabilities	;	3
1.1 Compare and contrast types of attacks	:	3
1.2 Given a scenario, analyze indicators of compromise		4
2 Architecture and Design	!	5



1 Threats, Attacks and Vulnerabilities

1.1 Compare and contrast types of attacks

Phishing: Social engineering tactic to acquire personal information from a fake email with a clickable link.

Smishing: (SMS phishing) The use of deceptive text messages into divulging sensitive information.

Vishing: (Voice Phishing) Impersonates a trusted entity, such as a bank to trick into giving information.

Spam: Unsolicited inappropriate messages sent with the purpose of spreading malware, advertising, phishing.

Spear phishing: Targeted type of phishing attack to make the scam convincing, often with insider information.

Dumpster diving: Searching through an organization's or individual's trash to find sensitive information.

Shoulder surfing: Observing a victim's screen or keyboard to obtain sensitive information.

Pharming: Manipulating the DNS system to resolve fake domain names, to lead them to a fake website.

Tailgating: Physical security breach by following authorized person to get access to secure areas.

Eliciting information: Psychological tactics to encourage individuals to share their knowledge willingly.

Whaling: Spear phishing for high-profile executives in an organization.

Prepending: Organizing, manipulating, and structuring data in various applications.

Identity fraud: An individual wrongfully obtains and uses someone else's personal data in a deceptive manner.

Invoice scams: Impersonation of a legit business to deceive individuals into paying fraudulent invoices.

Credential harvesting: Tricking someone into disclosing login credentials to access sensitive info.

Reconnaissance: Initial phase to gather intelligence via passive and active techniques.

Hoax: Fabrication intended to deceive or trick individuals into believing false information or events.

Impersonation: Masquerading as a legitimate user or entity to gain unauthorized access to information.

Watering hole attack: Infecting a commonly visited website of a targeted specific group.

Typosquatting: URL hijacking or domain squatting of fake domains which resemble a legit website.

Pretexting: Fabricated scenario involving direct interaction to obtain sensitive information.

Influence campaigns: Coordinated effort to shape public opinion, influence perceptions, and manipulate.

Hybrid warfare: Blends conventional warfare tactics with unconventional method

Principles (reasons for effectiveness)

- Authority: The actor acts as an individual of authority
- Intimidation: Frightening or threatening the victim.
- Consensus: Convince based on what's normally expected.
- Scarcity: Limited resources and time to act.
- Familiarity: The victim is well known.
- Trust: Gain their confidence, be their friend.
- **Urgency**: Limited time to act, rush the victim.



1.2 Given a scenario, analyze indicators of compromise

Malware

Ransomware: Denies access to a computer system or data until a ransom is paid.

Trojan: A form of malware that pretends to be a harmless application.

Worm: A self-contained infection that can spread itself through networks, emails, and messages.

PUP's: Potentially Unwanted Programs software applications that may exhibit undesirable characteristics. **Memory-resident malware**: Operates primarily in a computer's volatile memory (RAM) rather than with files

Command and control: (C2) Centralized server used by attackers to manager compromised devices.

Bots: AI inside an infected machine performs specific actions as a part of a larger entity known as a botnet.

Cryptomalware: A malicious program that encrypts programs and files on the computer to extort money.

Logic Bomb: A malicious program that lies dormant until a specific date or event occurs.

Spyware: Software that installs itself to spy and sends stolen info back to the host machine.

Keyloggers: A malicious program that saves all of the keystrokes of the infected machine.

Remote Access Trojan: (RAT) A remotely operated Trojan.

Rootkit: A backdoor program that allows full remote access to a system.

Backdoor: Allows for full access to a system remotely.

Password Attacks

Sprying a

Physical attacks

Sprying a



2 Architecture and Design