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## Ethical Hacking and Countermeasures Glossary

Exam 312-50 Certified Ethical Hacker

- Hash Injection/Pass-the-Hash (PtH) Attack: A hash injection/PtH attack allows an attacker to inject a
  compromised hash into a local session and use the hash to validate network resources.
- Host Integrity Monitoring: Host integrity monitoring involves taking a snapshot of the system state using
  the same tools before and after analysis, to detect changes made to the entities residing on the system.
- Hardware Protocol Analyzer: A hardware protocol analyzer is a piece of equipment that captures signals
  without altering the traffic in a cable segment.
- Honey Trap: The honey trap is a technique where an attacker targets a person online by pretending to be an attractive person and then begins a fake online relationship to obtain confidential information about the target company.
- Hoax Letters: Emails that issue warnings to the user about new viruses, Trojans, or worms that may harm the user's system.
- HTTP GET/POST Attack: In an HTTP GET attack, attackers use a time-delayed HTTP header to maintain HTTP connections and exhaust web server resources.
- HTTP Strict Transport Security (HSTS): HTTP Strict Transport Security (HSTS) is a web security policy that
  protects HTTPS websites against MITM attacks.
- HTTP Public Key Pinning (HPKP): HTTP Public Key Pinning (HPKP) is a trust on first use (TOFU) technique
  used in an HTTP header that allows a web client to associate a specific public key certificate with a particular
  server to minimize the risk of MITM attacks based on fraudulent certificates.
- Hardware Firewall: A hardware firewall is either a dedicated stand-alone hardware device or it comes as part of a router.
- Honeypot: A honeypot is an information system resource that is expressly set up to attract and trap people
  who attempt to penetrate an organization's network.
- High-Interaction Honeypots: Unlike their low- and medium-interaction counterparts, high-interaction honeypots do not emulate anything; they run actual vulnerable services or software on production systems with real OS and applications.
- Honeynets: Honeynets are networks of honeypots. They are very effective in determining the entire
  capabilities of the adversaries.
- HTTP Response-Splitting Attack: An HTTP response-splitting attack is a web-based attack in which the
  attacker tricks the server by injecting new lines into response headers, along with arbitrary code.
- HTML Smuggling: HTML smuggling is a type of web attack in which an attacker injects malicious code into a HTML script to compromise a web page.
- Hotfixes: Hotfixes are an update to fix a specific customer issue and not always distributed outside the customer organization.
- HTML Encoding: An HTML encoding scheme is used to represent unusual characters so that they can be safely combined within an HTML document.
- Hex Encoding: The HTML encoding scheme uses the hex value of every character to represent a collection
  of characters for transmitting binary data.
- Hotspot: Hotspots refer to areas with Wi-Fi availability, where users can enable Wi-Fi on their devices and connect to the Internet.
- Hybrid Cloud: It is a cloud environment comprised of two or more clouds (private, public, or community) that remain unique entities but are bound together to offer the benefits of multiple deployment models.
- HMAC: HMAC is a type of message authentication code (MAC) that combines a cryptographic key with a cryptographic hash function.

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- Homomorphic Encryption: Homomorphic encryption allows users to secure and leave their data in an
  encrypted format even while it is being processed or manipulated.
- Hardware-Based Encryption: Hardware-based encryption uses computer hardware for assisting or replacing the software when the data encryption process is underway.
- HSM: Hardware security module (HSM) is an additional external security device that is used in a system for crypto-processing and can be used for managing, generating, and securely storing cryptographic keys.
- Hard Drive Encryption: Hard drive encryption is a technology where the data stored in the hardware can be encrypted using a wide range of encryption options.
- Hash Collision Attack: A hash collision attack is performed by finding two different input messages that
  result in the same hash output.

## T

- Integrity: The trustworthiness of data or resources in terms of preventing improper or unauthorized changes.
- Information Warfare: The term information warfare or InfoWar refers to the use of information and communication technologies (ICT) to gain competitive advantages over an opponent.
- Indicators of Compromise (IoCs): Indicators of Compromise (IoCs) are the clues, artifacts, and pieces of
  forensic data found on the network or operating system of an organization that indicate a potential
  intrusion or malicious activity in the organization's infrastructure.
- Industrial Spies: Individuals who perform corporate espionage by illegally spying on competitor
  organizations and focus on stealing information such as blueprints and formulas.
- Information Assurance (IA): IA refers to the assurance that the integrity, availability, confidentiality, and authenticity of information and information systems is protected during the usage, processing, storage, and transmission of information.
- Incident Management: Incident management is a set of defined processes to identify, analyze, prioritize, and resolve security incidents to restore normal service operations as quickly as possible and prevent future recurrence of the incident.
- Incident Handling and Response: Incident handling and response (IH&R) is the process of taking organized
  and careful steps when reacting to a security incident or cyberattack.
- ISO/IEC 27001:2013: ISO/IEC 27001:2013 specifies the requirements for establishing, implementing, maintaining, and continually improving an information security management system within the context of the organization.
- Impersonation: Pretending to be a legitimate or authorized person and using the phone or other communication medium to mislead targets and trick them into revealing information.
- ICMP ECHO Ping Scan: ICMP ECHO ping scans involve sending ICMP ECHO requests to a host. If the host is live, it will return an ICMP ECHO reply.
- ICMP ECHO Ping Sweep: Ping sweep is used to determine the live hosts from a range of IP addresses by sending ICMP ECHO requests to multiple hosts. If a host is alive, it will return an ICMP ECHO reply.
- Inverse TCP Flag Scan: Attackers send TCP probe packets with a TCP flag (FIN, URG, PSH) set or with no flags, where no response implies that the port is open, whereas an RST response means that the port is closed.
- IP Address Decoy: IP address decoy technique refers to generating or manually specifying the IP addresses
  of decoys in order to evade an IDS or firewall.