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## Ethical Hacking and Countermeasures Glossary

Exam 312-50 Certified Ethical Hacker

- Packet Filtering Firewall: In a packet filtering firewall, each packet is compared to a set of criteria before it is forwarded.
- Pure Honeypots: Pure honeypots emulate the real production network of a target organization.
- Production Honeypots: Production honeypots are deployed inside the production network of the organization along with other production servers.
- Port Scanning: Port scanning is used to identify open ports and the services running on these ports.
- Patch: A patch is a small piece of software designed to fix problems, security vulnerabilities, and bugs and improve the performance of a computer program or its supporting data.
- Patch Management: Patch management is a process used to fix known vulnerabilities by ensuring that
  the appropriate patches are installed on a system.
- Pass-the-Cookie Attack: The pass-the-cookie attack occurs when attackers obtain a clone of a cookie from
  the user's browser and uses the cookie to establish a session with the target web server.
- Parabolic Grid Antenna: A parabolic grid antenna uses the same principle as a satellite dish, but it does
  not have a solid dish. It consists of a semi-dish in the form of a grid consisting of aluminum wires.
- Purdue Model: The Purdue model is derived from the Purdue Enterprise Reference Architecture (PERA)
  model, which is a widely used to describe internal connections and dependencies of important components
  in the ICS networks.
- Programmable Logic Controller (PLC): A programmable logic controller (PLC) is a small solid-state control
  computer where instructions can be customized to perform a specific task.
- Platform-as-a-Service (PaaS): This offers development tools, configuration management, and deployment
  platforms on-demand, which can be used by subscribers to develop custom applications.
- Public Cloud: In this model, the provider makes services such as applications, servers, and data storage available to the public over the Internet.
- Private Cloud: A private cloud, also known as the internal or corporate cloud, is a cloud infrastructure
  operated by a single organization and implemented within a corporate firewall.
- Post-quantum Cryptography: Post-quantum cryptography is an advanced cryptographic algorithm
  designed to protect security systems from attacks initiated on both conventional and quantum computers.
- Public Key Infrastructure (PKI): PKI is a set of hardware, software, people, policies, and procedures required
  to create, manage, distribute, use, store, and revoke digital certificates.
- Pretty Good Privacy (PGP): It is often used for data compression, digital signing, encryption and decryption
  of messages, emails, files, and directories, and to enhance the privacy of email communications.
- Padding Oracle Attack: In a padding oracle attack (also known as a Vaudenay attack), attackers exploit the padding validation of an encrypted message to decipher the ciphertext.

## Q

- Quantum Cryptography: This cryptography is processed based on quantum mechanics, such as quantum key distribution (QKD), using photons instead of mathematics as a part of encryption.
- Quantum Cryptanalysis: Quantum cryptanalysis is the process of cracking cryptographic algorithms using a quantum computer.

## R

Reconnaissance: Reconnaissance refers to the preparatory phase where an attacker seeks to gather
information about a target prior to launching an attack.

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- Risk: Risk refers to the degree of uncertainty or expectation that an adverse event may cause damage to the system.
- Risk Management: Risk management is the process of reducing and maintaining risk at an acceptable level by means of a well-defined and actively employed security program.
- Risk Identification: Identifies the sources, causes, consequences, and other details of the internal and external risks affecting the security of the organization.
- Risk Assessment: Assesses the organization's risk and provides an estimate of the likelihood and impact of the risk.
- Risk Treatment: Selects and implements appropriate controls for the identified risks.
- Risk Tracking: Ensures appropriate controls are implemented to handle known risks and calculates the chances of a new risk occurring.
- Risk Review: Evaluates the performance of the implemented risk management strategies.
- Return-Oriented Programming (ROP) Attack: Return-oriented programming is an exploitation technique
  used by attackers to execute arbitrary malicious code in the presence of security protections such as code
  signing and executable space protection.
- RPC: Remote Procedure Call (RPC) allows clients and servers to communicate in distributed client/server programs.
- Resource Exhaustion: A resource exhaustion attack damages the server by sending multiple resource requests from different locations to exploit software bugs or errors, thereby hanging the system and server or causing a system crash.
- Race Condition: A race condition is an undesirable incident that occurs when a software or system program
  depends on the execution of processes in a sequence and on the timing of the programs.
- Replay Attack: In a replay attack, packets and authentication tokens are captured using a sniffer. After the
  relevant information is extracted, the tokens are placed back on the network to gain access.
- Rainbow Table: A rainbow table is a precomputed table that contains word lists like dictionary files, brute force lists, and their hash values.
- Rootkits: Rootkits are programs that hide their presence as well as attacker's malicious activities, granting them full access to the server or host at that time, and in the future.
- Rich Text Format (RTF) Injection: RTF injection involves exploiting features of Microsoft Office such as RTF template files that are stored locally or in a remote machine.
- Ransomware: Ransomware is a type of malware that restricts access to the computer system's files and folders and demands an online ransom payment to the malware creator(s) to remove the restrictions.
- Rogue DHCP Server Attack: The attacker sets up a rogue DHCP server on the network and responds to DHCP
  requests with bogus IP addresses resulting in compromised network access.
- Reverse Social Engineering: The attacker presents him/herself as an authority and the target seeks his or her advice before or after offering the information that the attacker needs.
- RST Hijacking: RST hijacking involves injecting an authentic-looking reset (RST) packet using a spoofed source address and predicting the acknowledgment number.
- Research Honeypots: Research honeypots are high-interaction honeypots primarily deployed by research institutes, governments, or military organizations to gain detailed knowledge about the actions of intruders.
- RASP: Runtime application self protection (RASP) provides security to web and non-web application running on a server.