Phases of ethical hacking



Ethical hacking typically involves several phases or stages, each of which is critical for identifying and addressing vulnerabilities and potential security threats. Here are the main phases of ethical hacking:

- 1. Planning and Reconnaissance: In this phase, ethical hackers gather information about the target system or asset, including its architecture, network topology, and potential entry points. They may use tools like port scanners, network mappers, and social engineering tactics to collect information about the system.
- 2. Scanning: In this phase, ethical hackers scan the target system or network to identify potential vulnerabilities or weaknesses. They may use vulnerability scanners, network mapping tools, or manual techniques to identify potential entry points or weaknesses in the system.
- 3. Gaining Access: In this phase, ethical hackers attempt to gain access to the target system or network by exploiting vulnerabilities or weaknesses they have identified. They may use password cracking tools, exploit code, or social engineering tactics to gain access to the system.
- 4. Maintaining Access: Once ethical hackers have gained access to the system, they may attempt to maintain access by installing backdoors, rootkits, or other malware that allows them to bypass security measures and access the system at a later time.
- 5. Covering Tracks: In this phase, ethical hackers remove any traces of their activity from the target system, including logs, files, and other evidence that could be used to identify them. They may use tools like file shredders or rootkit detectors to cover their tracks.
- 6. Reporting: Finally, ethical hackers report their findings to the system or asset owner, detailing any vulnerabilities or weaknesses they have identified and providing recommendations for improving security.

By following these phases, ethical hackers can help organizations and individuals identify and address vulnerabilities in their computer systems and networks, improving their overall security posture and reducing the risk of unauthorized access or malicious attacks.