Definition of ethical hacking

Ethical hacking refers to the practice of using hacking techniques, tools, and methodologies for the purpose of identifying vulnerabilities and potential security threats in computer systems, networks, applications, and other digital assets, with the goal of improving their overall security posture.

Ethical hacking is carried out by trained and authorized professionals, known as ethical hackers or penetration testers, who use the same methods as malicious hackers, but with the permission of the owner of the system or asset being tested. The objective is to identify and report any security weaknesses or vulnerabilities to the owner, so that they can be addressed and fixed before they can be exploited by malicious hackers. Ethical hacking is an important part of proactive security measures for organizations and individuals to identify and prevent cyber attacks.