



SPYPRO SECURITY SOLUTIONS Pvt. Ltd.,

C Y B E R S E C U R I T Y

3-Days Workshop on ETHICAL HACKING

Workshop Overview:

In today's rapidly evolving digital ecosystem, cyber threats are increasing in complexity and frequency, targeting networks, systems, and applications. Ethical Hacking plays a vital role in identifying security vulnerabilities and strengthening defenses before malicious attackers can exploit them.

This three-day comprehensive workshop is designed to provide participants with strong foundational knowledge and hands-on experience in ethical hacking software solutions, focusing on real-world attack techniques, security tools, and defensive strategies used by cybersecurity professionals.

Day 1: Foundations of Ethical Hacking

Session 1:

- Welcome and workshop introduction
- Overview of Ethical Hacking and Cyber Security
- Types of hackers: White Hat, Black Hat, Grey Hat
- Ethical hacking process and phases

Session 2:

- Fundamentals of networking for ethical hacking
- Common cyber attacks and attack vectors
- Introduction to reconnaissance and footprinting
- Legal and ethical aspects of hacking

Session 3:

- Overview of ethical hacking tools and software
- Introduction to Linux for ethical hackers
- Understanding IP addressing, ports, and protocols
- **Hands-on exercise:** Basic reconnaissance and scanning

Day 2: Network & System Hacking

Session 1:

- Network scanning and enumeration techniques
- Vulnerability assessment concepts
- Password cracking fundamentals
- Introduction to Man-in-the-Middle (MITM) attacks

Session 2:

- System hacking techniques
- Privilege escalation and maintaining access
- Malware concepts: viruses, worms, trojans
- Basics of malware analysis

Session 3:

- **Hands-on exercise:** Network and system vulnerability testing
- Password attack simulations
- Analyzing system security weaknesses

Day 3: Web Application Hacking & Security Practices

Session 1:

- Introduction to web application architecture
- Common web application vulnerabilities (OWASP Top 10)
- SQL Injection, Cross-Site Scripting (XSS), CSRF

Session 2:

- Web application testing tools and techniques
- Secure coding fundamentals
- Defensive measures and prevention techniques
- Basics of penetration testing

Session 3:

- **Hands-on exercise:** Web application vulnerability assessment
- Mini penetration testing project
- Case studies and real-world ethical hacking scenarios

In conclusion, a three-day workshop on Ethical Hacking – Software Solutions can be highly beneficial for participants by equipping them with essential knowledge and practical skills to identify vulnerabilities, strengthen system security, and address real-world cyber threats using ethical hacking techniques.



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