



# SPYPRO SECURITY SOLUTIONS Pvt. Ltd.,

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

## 5-Days Workshop on ETHICAL HACKING

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In today's rapidly evolving digital landscape, organizations and individuals face increasing cyber threats targeting networks, applications, and sensitive data. Ethical Hacking plays a crucial role in identifying vulnerabilities before attackers can exploit them. To effectively secure systems, it is essential to understand hacking methodologies, security tools, and defensive techniques from an ethical perspective. The Ethical Hacking Workshop is a 5-day immersive training program designed to equip participants with practical knowledge and hands-on skills to identify, analyze, and mitigate security vulnerabilities in systems and applications using ethical hacking techniques and tools.

### Topics to be Covered in ETHICAL HACKING

#### Day 1: Introduction to Ethical Hacking

- Overview of Ethical Hacking and Cyber Security
- Types of hackers: White Hat, Black Hat, Grey Hat
- Ethical hacking methodology and phases
- Common cyber attacks and attack vectors
- Legal and ethical aspects of hacking
- Roles and responsibilities of an Ethical Hacker

#### Day 2: Network Hacking & Security

- Fundamentals of networking for ethical hackers
- Network scanning and reconnaissance techniques
- Introduction to network vulnerabilities
- Password cracking concepts and techniques
- Man-in-the-Middle (MITM) attacks
- Practical exercises on network scanning and analysis

### **Day 3: System Hacking & Malware Concepts**

- System hacking techniques
- Password cracking and privilege escalation
- Maintaining access and covering tracks
- Introduction to malware: viruses, worms, trojans
- Basics of malware analysis
- Practical exercises on system vulnerability assessment

### **Day 4: Web Application Hacking**

- Introduction to web application architecture
- Common web vulnerabilities (OWASP Top 10)
- SQL Injection, Cross-Site Scripting (XSS), CSRF
- Authentication and session management flaws
- Secure coding basics and prevention techniques
- Hands-on exercises on identifying web vulnerabilities

### **Day 5: Advanced Ethical Hacking & Security Practices**

- Wireless network hacking fundamentals
- Introduction to penetration testing tools
- Incident response and basic forensics concepts
- Security best practices and defensive strategies
- Ethical hacking case studies
- Practical exercises on penetration testing scenarios

**Duration:** The duration of this workshop will be three consecutive days, with 6 hour session each day in a total of 30 hours properly divided into theory and hands on practicals sessions

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### **Certification Policy:**

- Certificate of Merit for all the workshop participants from SmartBridge.
- At the end of this workshop, a small competition will be organized among the participating students and winners will be awarded with a '**Certificate of Excellence**'.
- Certificate of Coordination for the coordinators of the campus workshops
- **Internship and placement also provide for selected student..**

**Eligibility:** It's a basic level workshop so there are no prerequisites. Anyone interested, can join this workshop.

### **Pre-Requisites:**

- Seminar hall/classroom having sitting capacity of 200 students for conducting hands on session for all the participants.
- Good Quality public address system ideally one/two cordless mikes will be required.
- Projector/ Screen along with black/white board for teaching and presentation purposes.
- One small stereo jack cord to connect in laptop for its sound system.
- Laptop/Computer per two students is necessary.
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**Cyber Security | Ethical Hacking | Cyber Forensics | Projects & Training**

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