

# **Practical Ethical Hacking**

## **Module-1: Introduction to Hacking**

- Introduction
- Basic Terminologies

## **Module-2: Networking**

- Protocols
- OSI Layers
- TCP/IP Layers
- IP Address
- MAC Address
- TCP, UDP & Three Way Handshake
- Port
- Firewall
- DNS etc

## **Module-3: Lab Setup**

- Virtualization
- Linux Installation & Configuration
- Vulnerable Machines Installation & Configuration

## **Module-4: Introduction to Linux**

- Introduction
- Linux File System
- Essential Linux Commands
- File Permission
- User creation
- Changing Password
- Installing Tools etc

## **Module-5: Ultimate Anonymity**

- TOR
- Secured OS

## **Module-6: Information Gathering**

- Active & Passive Reconnaissance
- Identifying Whois information
- Identifying Web Application Technologies
- Google Hacking
- Finding Subdomains etc

## **Module-7: Scanning & Enumeration**

- Scanning with Nmap
- Scanning with Zenmap
- Scanning with Rustscan
- Firewall Evasion
- FTP Enumeration
- SSH Enumeration
- Telnet Enumeration
- SMB Enumeration

## **Module-8: Vulnerability Assessment**

- Scanning with Nessus
- Scanning with Acunetix
- Scanning with Burpsuite
- Scanning with ZAP

## **Module-9: Exploitation**

- Types of Shell
- Exploitation with Metasploit
- Manual Exploitation

## **Module-10: Password Attacks**

- Password Generation
- Brute Force Attack
- Hash Cracking

## **Module-11: Traffic Analysis**

- Sniffing with Wireshark
- Captured File Analysis

## **Module-12: Web Hacking**

- Exploring Burpsuite
- SQL Injection
- Cross Site Scripting
- Local File Inclusion
- File Upload Vulnerability
- IDOR
- CMS Hacking etc

## **Module-13: Wireless Hacking**

- Hacking Wifi with Wifite
- Hacking Wifi with Hashcat

## **Module-14: CTF Practice**

- Pico CTF
- TryHackMe
- Hackthebox

## **Module-15: Report Writing**

**Market Places:** Fiverr, Upwork, Freelancer, Guru

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