

## PROGRAMMA COMPLETO CORSO HACKING ETICO

### MODULO 1: INTRODUZIONE ALL'ETHICAL HACKING

- Information Security Overview
- Cyber Kill Chain Concepts
- Hacking Concepts
- Ethical Hacking Concepts
- Information Security Controls
- Information Security Laws and Standards

### MODULO 2: FOOTPRINTING AND RECONNAISSANCE

- Footprinting Concepts
- Footprinting Through Search Engines
- Footprinting Through Web Services
- Footprinting Through Social Networking Sites
- Website Footprinting
- Email Footprinting
- Whois Footprinting
- DNS Footprinting
- Network Footprinting
- Footprinting Through Social Engineering
- Footprinting Tools
- Footprinting Countermeasures

### MODULO 3: SCANNING NETWORKS

- Network Scanning Concepts
- Scanning Tools
- Host Discovery
- Port and Service Discovery
- OS Discovery (Banner Grabbing/OS Fingerprinting)
- Scanning Beyond IDS and Firewall
- Draw Network Diagrams

### MODULO 4: ENUMERATION

- Enumeration Concepts
- NetBIOS Enumeration
- SNMP Enumeration
- LDAP Enumeration
- SMTP and DNS Enumeration
- Other Enumeration Techniques

- Enumeration Countermeasures

## MODULO 5: VULNERABILITY ANALYSIS

- Vulnerability Assessment Concepts
- Vulnerability Classification and Assessment Types
- Vulnerability Assessment Solutions and Tools
- Vulnerability Assessment Reports

## MODULO 6: SYSTEM HACKING

- System Hacking Concepts
- Gaining Access
- Escalating Privileges
- Maintaining Access
- Clearing Logs

## MODULO 7: MALWARE THREATS

- Malware Concepts
- APT Concepts
- Trojan Concepts
- Virus and Worm Concepts
- Fileless Malware Concepts
- Malware Analysis
- Countermeasures
- Anti-Malware Software

## MODULO 8: SNIFFING

- Sniffing Concepts
- Sniffing Technique: MAC Attacks
- Sniffing Technique: DHCP Attacks
- Sniffing Technique: ARP Poisoning
- Sniffing Technique: Spoofing Attacks
- Sniffing Technique: DNS Poisoning
- Sniffing Tools
- Countermeasures
- Sniffing Detection Techniques

## MODULE 09: SOCIAL ENGINEERING

- Social Engineering Concepts

- Social Engineering Techniques
- Insider Threats
- Impersonation on Social Networking Sites
- Identity Theft
- Countermeasures

## MODULE 10: DENIAL-OF-SERVICE

- Dos/DDos Concepts
- Dos/DDos Attack Techniques
- Botnets
- DDos Case Study
- Dos/DDos Attack Tools
- Countermeasures
- Dos/DDos Protection Tools

## MODULE 11: SESSION HIJACKING

- Session Hijacking Concepts
- Application Level Session Hijacking
- Network Level Session Hijacking
- Session Hijacking Tools
- Countermeasures

## MODULE 12: EVADING IDS, FIREWALLS AND HONEYPOTS

- IDS, IPS, Firewall and Honeypot Concepts
- IDS, IPS, Firewall and Honeypot Solutions
- Evading IDS
- Evading Firewalls
- IDS/Firewall Evading Tools
- Detecting Honeypots
- IDS/Firewall Evasion Countermeasures

## MODULE 13: HACKING WEB SERVERS

- Web Server Concepts
- Web Server Attacks
- Web Server Attack Methodology
- Web Server Attack Tools
- Countermeasures
- Patch Management
- Web Server Security Tools

## MODULE 14: HACKING WEB APPLICATIONS

- Web Application Concepts
- Web Application Threats
- Web Application Hacking Methodology
- Web API, Webhooks and Web Shell
- Web Application Security

## MODULE 15: SQL INJECTION

- SQL Injection Concepts
- Types of SQL Injection
- SQL Injection Methodology
- SQL Injection Tools
- Evasion Techniques
- Countermeasures

## MODULE 16: HACKING WIRELESS NETWORKS

- Wireless Concepts
- Wireless Encryption
- Wireless Threats
- Wireless Hacking Methodology
- Wireless Hacking Tools
- Bluetooth Hacking
- Countermeasures
- Wireless Security Tools

## MODULE 17: HACKING MOBILE PLATFORMS

- Mobile Platform Attack Vectors
- Hacking Android OS
- Hacking iOS
- Mobile Device Management
- Mobile Security Guidelines and Tools

## MODULE 18: IOT AND OT HACKING

- IoT Concepts
- IoT Attacks
- IoT Hacking Methodology
- IoT Hacking Tools
- Countermeasures
- OT Concepts
- OT Attacks
- OT Hacking Methodology
- OT Hacking Tools

- Countermeasures

## MODULE 19: CLOUD COMPUTING

- Cloud Computing Concepts
- Container Technology
- Serverless Computing
- Cloud Computing Threats
- Cloud Hacking
- Cloud Security

## MODULE 20: CRYPTOGRAPHY

- Cryptography Concepts
- Encryption Algorithms
- Cryptography Tools
- Public Key Infrastructure (PKI)
- Email Encryption
- Disk Encryption
- Cryptanalysis
- Countermeasures