

ETHICAL HACKING (V-12)



Module 01 - Introduction to Ethical Hacking

- Lesson 01 - Information Security Overview
- Lesson 02 - Information Security Threats and Attack Vectors
- Lesson 06 - Penetration Testing Concepts
- Lesson 03 - Hacking Concepts
- Lesson 04 - Ethical Hacking Concepts
- Lesson 05 - Information Security Controls
- Lesson 07 - Information Security Laws and Standards

Module 02 - Footprinting and Reconnaissance

- Lesson 01 - Footprinting Concepts
- Lesson 02 - Footprinting through Search Engines
- Lesson 03 - Footprinting through Web Services
- Lesson 04 - Footprinting through Social Networking Sites
- Lesson 05 - Website Footprinting
- Lesson 06 - Email Footprinting
- Lesson 07 - Competitive Intelligence
- Lesson 08 - Whois Footprinting
- Lesson 09 - DNS Footprinting
- Lesson 10- Network Footprinting
- Lesson 11- Footprinting through Social Engineering
- Lesson 12 - Footprinting Tools
- Lesson 13 - Countermeasures
- Lesson 14 - Footprinting Pen Testing

Module 03 - Scanning Networks

- Lesson 01 - Network Scanning Concepts
- Lesson 02 - Scanning Tools
- Lesson 03 - Scanning Techniques
- Lesson 04 - Scanning Beyond IDS and Firewall
- Lesson 05 - Banner Grabbing
- Lesson 06 - Draw Network Diagrams
- Lesson 07 - Scanning Pen Testing

Module 04 - Enumeration

- Lesson 01 - Enumeration Concepts
- Lesson 02 - NetBIOS Enumeration
- Lesson 03 - SNMP Enumeration
- Lesson 04 - LDAP Enumeration
- Lesson 05 - NTP Enumeration
- Lesson 06 - SMTP Enumeration and DNS Enumeration

- Lesson 07 - Enumeration Countermeasures
- Lesson 08 - Other Enumeration Techniques
- Lesson 09 - Enumeration Pen Testing

Module 05 - Vulnerability Analysis

- Lesson 01 - Vulnerability Assessment Concepts
- Lesson 02 - Vulnerability Assessment Solutions
- Lesson 03 - Vulnerability Scoring Systems
- Lesson 04 - Vulnerability Assessment Tools
- Lesson 05 - Vulnerability Assessment Reports

Module 06 - System Hacking

- Lesson 01 - System Hacking Concepts
- Lesson 02 - Cracking Passwords
- Lesson 03 - Escalating Privileges
- Lesson 04 - Executing Applications
- Lesson 05 - Hiding Files
- Lesson 06 - Covering Tracks
- Lesson 07 - Penetration Testing

Module 07 - Malware Threats

- Lesson 01 - Malware Concepts
- Lesson 02 - Trojan Concepts
- Lesson 03 - Virus and Worm Concepts
- Lesson 04 - Malware Analysis
- Lesson 05- Countermeasures
- Lesson 06- Anti-Malware Software
- Lesson 07- Malware Penetration Testing

Module 08 - Sniffing

- Lesson 01- Sniffing Concepts
- Lesson 02- Sniffing Technique: MAC Attacks
- Lesson 03- Sniffing Technique: DHCP Attacks
- Lesson 04- Sniffing Technique: ARP Poisoning
- Lesson 05- Sniffing Technique: Spoofing Attacks
- Lesson 06- Sniffing Technique: DNS Poisoning
- Lesson 07- Sniffing Tools
- Lesson 08- Countermeasures
- Lesson 09- Sniffing Detection Techniques
- Lesson 10- Sniffing Pen Testing

Module 09- Social Engineering

- Lesson 01 - Social Engineering Concepts
- Lesson 02 - Social Engineering Techniques
- Lesson 03- Insider Threats
- Lesson 04 - Impersonation on Social Networking Sites
- Lesson 05 - Identity Theft
- Lesson 06 - Countermeasures
- Lesson 07 - Social Engineering Penetration Testing

Module 10- Denial-of-Service

- Lesson 01 - DoS/DDoS Concepts
- Lesson 02 - DoS/DDoS Attack Techniques
- Lesson 03 - Botnets
- Lesson 04 - DDoS Case Study

- Lesson 05 - DoS/DDoS Attack Tools
- Lesson 06 - Countermeasures
- Lesson 07 - DoS/DDoS Protection Tools
- Lesson 08 - DoS/DDoS Attack Penetration Testing

Module 11- Session Hijacking

- Lesson 01- Session Hijacking Concepts
- Lesson 02- Application Level Session Hijacking
- Lesson 03- Network Level Session Hijacking
- Lesson 04- Session Hijacking Tools
- Lesson 05- Countermeasures
- Lesson 06- Penetration Testing

Module 12 - Evading IDS, Firewalls, and Honeypots

- Lesson 01- IDS, Firewall, and Honeypot Concepts
- Lesson 02- IDS, Firewall, and Honeypot Solutions
- Lesson 03- Evading IDS
- Lesson 04- Evading Firewalls
- Lesson 05- IDS/Firewall Evading Tools
- Lesson 06- Detecting Honeypots
- Lesson 07- IDS/Firewall Evasion Countermeasures
- Lesson 08- Penetration Testing

Module 13- Hacking Web Servers

- Lesson 01- Web Server Concepts
- Lesson 02- Web Server Attacks
- Lesson 03- Web Server Attack Methodology
- Lesson 04- Web Server Attack Tools
- Lesson 05- Countermeasures
- Lesson 06- Patch Management
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- Lesson 08- Web Server Pen Testing

Module 14- Hacking Web Applications

- Lesson 01 - Web App Concepts
- Lesson 02 - Web App Threats
- Lesson 03 - Hacking Methodology
- Lesson 04 - Web Application Hacking Tools
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Module 15- SQL Injection

- Lesson 01 - SQL Injection Concepts
- Lesson 02 - Types of SQL Injection
- Lesson 03 - SQL Injection Methodology
- Lesson 04 - SQL Injection Tools
- Lesson 05 - Evasion Techniques
- Lesson 06 - Countermeasures

Module 16- Hacking Wireless Networks

- Lesson 01 - Wireless Concepts

- Lesson 02 - Wireless Encryption
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- Lesson 04 - Wireless Hacking Methodology
- Lesson 05 - Wireless Hacking Tools
- Lesson 06 - Bluetooth Hacking
- Lesson 07 - Countermeasures
- Lesson 08 - Wireless Security Tools
- Lesson 09 - Wi-Fi Pen Testing

Module 17- Hacking Mobile Platforms

- Lesson 01- Mobile Platform Attack Vectors
- Lesson 02- Hacking Android OS
- Lesson 03- Hacking iOS
- Lesson 04- Mobile Spyware
- Lesson 05- Mobile Device Management
- Lesson 06- Mobile Security Guidelines and Tools
- Lesson 07- Mobile Pen Testing

Module 18- IoT Hacking

- Lesson 01- IoT Concepts
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- Lesson 03- IoT Hacking Methodology
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- Lesson 05- Countermeasures
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Module 19- Cloud Computing

- Lesson 01 - Cloud Computing Concepts
- Lesson 02 - Cloud Computing Threats
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Module 20- Cryptography

- Lesson 01- Cryptography Concepts
- Lesson 02- Encryption Algorithms
- Lesson 03- Cryptography Tools
- Lesson 04- Public Key Infrastructure (PKI)
- Lesson 05- Email Encryption
- Lesson 06- Disk Encryption
- Lesson 07- Cryptanalysis
- Lesson 08- Countermeasures

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