

TechnoMaster

Ethical Hacking

Duration: 70 Hrs (Changeable) | Fees: Individual / Batch

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- Ethical Hacking



Syllabus Contd..

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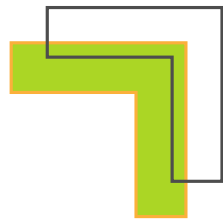
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MODULE 1

- * Ethical hacking
- * Types of hackers and terminologies
- * Cybercrime and types
- * What is ethical hacking
- * Why ethical hacking
- * The legality of ethical hacking

MODULE 2

- * Footprinting, concepts
- * Techniques for web footprinting
- * Techniques for email footprint
- * Techniques for competitive intelligence
- * Techniques in WHO footprint
- * Techniques in-network footprinting
- * Footprinting tools
- * Network footprinting
- * DNS Footprinting
- * Website footprinting

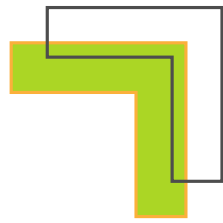
MODULE 3

- * Network scanning
- * Techniques to check for live system
- * Techniques to check for open ports
- * Scanning techniques



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- * Banner grabbing
- * Scanning and pen testing
- * Host discovery
- * Scanning beyond IDS and firewall

MODULE 4

- * Enumeration
- * Introduction to Enumeration
- * Enumeration Types
- * Enumerating User Accounts.
- * Enumeration Countermeasures.

MODULE 5

- * System Hacking
- * Password Cracking
- * Types of Password Attacks
- * Keyloggers
- * Spyware
- * Detecting RootKits
- * Covering Tracks

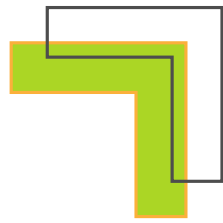
MODULE 6

- * Trojans and Backdoors
- * What is a Trojan?
- * Trojan Attacks and Indications.



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- * How to deploy a Trojan
- * Types of Trojans
- * Anti-Trojans Software
- * Penetration Testing

MODULE 7

- * Viruses and Worms
- * Introduction to Viruses
- * Stages of a Virus Life.
- * Working with viruses.
- * Writing a Simple Virus Program
- * Computer Worms
- * Malware Analysis Procedure.
- * Anti-Virus Tools.

MODULE 8

- * Sniffing techniques
- * MAC attacks
- * DHCP attacks
- * ARP poisoning
- * Spoofing attacks
- * DNS poisoning
- * Sniffing pen testing
- * Social engineering concepts, techniques



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- * Networking sites

MODULE 9

- * Social Engineering.
- * What is Social Engineering?
- * Phases of a Social Engineering Attack
- * Social Engineering through Impersonation on Social Networking Sites.
- * Identify Theft.
- * How to Steal Identity?
- * Social Engineering Pen Testing.

MODULE 10

- * Denial Of Service.
- * What is a DoS and DDoS Attack?
- * How do DoS Attacks work?
- * Symptoms of a DoS Attack
- * DoS Attack Techniques.
- * DDoS Case Study.
- * Protection Tools.

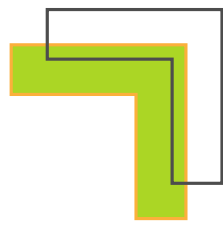
MODULE 11

- * Session Hijacking
- * What is Session hijacking?
- * Hijacking Techniques.
- * Brute Forcing.



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- * Spoofing vs. Hijacking.
- * Types of Session Hijacking
- * Session Hijacking in OSI Model.
- * TCP/IP Hijacking.
- * Hijacking Tools.
- * IPsec Architecture.
- * Penetration Testing.

MODULE 12

- * Web service hacking
- * Web service concepts, attacks, methodology, tools
- * Web service pen testing
- * Web application
- * Web application concepts, threats, methodology, tools

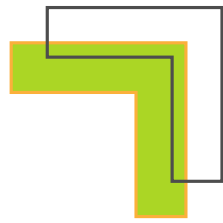
MODULE 13

- * Hacking Web Applications.
- * Introduction to Web Applications.
- * How do Web Applications work?
- * Web Applications Architecture.
- * Unvalidated Input
- * Parameter / Form Tampering.
- * Injection Flaws.
- * Hidden and Manipulated Attacks.



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- * Cross-Site Scripting
- * Hacking Methodology
- * Web Application Security Tools.
- * Web Application Firewalls.
- * Web Application Pen Testing.

MODULE 14

- * SQL Injection.
- * Introduction to SQL Injection.
- * Threats of SQL Injection Attacks.
- * SQL Injection Detection.
- * Simple / Union Injection Attacks.
- * What is a Blind SQL Injection?
- * SQL Injection Tools.

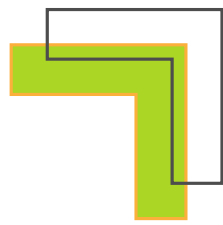
MODULE 15

- * Hacking Wireless Networks.
- * Introduction to Wireless Networks.
- * Wi-Fi Authentication Modes.
- * WEP Encryption
- * WPA / WPA2 Encryption.
- * Wireless Threats.
- * Wireless Hacking Methodology.
- * Wireless Hacking Tools.



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- * Bluetooth Hacking.
- * How to defend against Wireless Attacks.
- * Wireless Penetration Testing Framework.

MODULE 16

- * Evading IDS, Firewalls, and Honeypots.
- * Intrusion Detection Systems (IDS).
- * Ways to detect an Intrusion.
- * Types of Intrusion Detection Systems.
- * Types of Firewalls.
- * Firewall Identification Techniques.
- * Honeypot.
- * Types of honeypot.
- * Evading IDS.
- * Evading Firewalls.
- * Detecting Honeypots.
- * Firewall Evading Tools.

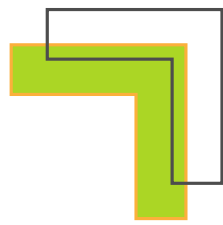
MODULE 17

- * Buffer Overflow.
- * Buffer Overflows.
- * Stack-Based / Heap-Based Overflows.
- * Stack Operations.
- * Buffer overflow Steps.



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- * Smashing the Stack.
- * Examples of Buffer Overflow Attacks.
- * BoF Detection Tools.

MODULE 18

- * Cryptography.
- * Introduction to Cryptography
- * Ciphers.
- * Advanced Encryption Standard (AES)
- * RC4, RC5, Rc6 Algorithms.
- * RSA (Rivest Shamir Adleman).
- * Message Digest 5 (MD5).
- * Secure Hashing Algorithm (SHA).
- * Cryptography Tools.
- * Public Key Infrastructure (PKI).
- * Digital Signatures.
- * SSS (Secure Socket Layer).
- * Disk Encryption.

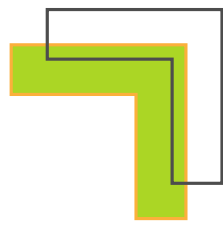
MODULE 19

- * Penetration Testing.
- * Penetration Testing (PT).
- * Security Assessments.



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- * Risk Management.
- * Automated Testing.
- * Manual Testing.
- * Enumerating Devices.
- * Denial of Service Emulation.
- * Hacker Shield.
- * Pentest using various Devices.

MODULE 20

- * Hacking Mobile Platforms.
- * Understanding Mobile Platforms Terminology
- * Android / IOS / Windows Phones.