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Certified Ethical Hacker (CEH) v.10

Module 1 - Introduction to Ethical Hacking

- Introduction
- Introduction to Hacking
- Information Security Threats and Attack Vectors
- Hacking Concepts
- Ethical Hacking Concepts and Scope
- Information Security Controls Part 1
- Information Security Controls Part 2
- Information Security Laws and Standards

Module 2 - Footprinting and Reconnaissance

- Footprinting and Reconnaissance
- Footprinting Methodology
- Google Hacking
- FootPrinting Through Social Networking
- Website Foot Printing
- Email Foot Printing
- Competitive Intelligence Gathering
- WhoIs Foot Printing
- DNS Logical and Geographical Foot Printing
- Network Footprinting
- Foot Printing
- Foot Printing Tools
- Foot Printing Penetration Testing
- Conduct Recon with Ping Act
- Query DNS with NSLookUp Act
- Discover Website Subdomain with Sublist3r Act
- Obtain OSINT Information About a Person wit Pipl Act
- Gather Contact and Host Information with theHarvester Act
- Automate OSINT Research with Recon-ng Act
- Get Started with Metasploit Act
- Conduct Open Source Intelligence with OSR Framework Act
- Obtain Whois Information with Smart Whois Act
- Extract Links, URLs, and Emails from Websites with Web Data Extractor Act
- Create an Offline Copy of a Website with HTTrack Act
- Trace an Email with eMail Tracker Pro Act

Module 3 - Network Scanning

- Network Scanning

- Discovery Scans
- Port Scans
- Nmap
- Nmap Stealth Scans
- Nmap Options
- H-ping and Other Scanners
- SSDP Scanning
- Scanning Beyond IDS and Firewall
- Banner Grabbing
- Scanning Pen Testing
- Checking for Live Systems with Angry IP Scanner Act
- Network Scanning with MegaPing Act
- Advanced Scanning with nmap Act
- Packet Crafting with Hping3 Act
- Packet Crafting with Colasoft Packet Builder Act

Module 4 - Enumeration

- Enumeration
- Enumeration Technicques Tools
- NetBIOS Enumeration
- SNMP Enumeration
- LDAP Enumeration
- NTP Enumeration
- SMTP and DNS Enumeration
- Enumeration Countermeasures
- Enumeration Penetration Testing
- Enumerate NetBIOS Information with SuperScan Act
- Enumerate NetBIOS Information with NetBIOS Enumerator Act
- Enumerate NetBIOS and LDAP Information with Hyena Act
- Enumerate SNMP WMI and Other Information Using SoftPerfect Network Scanner Act

Module 5 - Vulnerability Analysis

- Vulnerability Analysis
- Vulnerability Assessment Solutions
- Vulnerability Scoring Systems
- Vulnerability Assessment Tools and Reports
- Perform a Vulnerability Scan and Analysis with Nessus Act

Module 6 - Malware Threats

- Malware Threats
- Trojan Concepts
- Trojan Types
- Trojan Tools
- Virus and Worm Concepts
- Virus Types
- Malware Analysis
- Malware Reverse Engineering
- Malware Detection

Malware Countermeasures
Malware Penetration Testing
Infect a Victim with a Remote Access Trojan Act

Module 7 - Sniffing

Sniffing Concepts
DHCP Attacks
MAC Attacks
ARP Poisoning
DNS Poisoning
Sniffing Tools
Sniffing Countermeasures
Sniff a Clear Text HTTP Session with Wireshark Act
Intercept and Crack a Network Login Act

Module 8 - Social Engineering

Social Engineering
Human Based Social Engineering
Computer Based Social Engineering
Additional Types of Social Enginnering
Social Engineering Countermeasures
Social Engineering Penetration Testing
Fool a User with a Baited USB Stick Act
Harvest Credentials with Spear Phishing Act

Module 9 - Denial of Service

Denial of Service
Common Dos-DDoS Attack Types
Additional DoS Attack Types
BotNets
DoS Countermeasures
Additional DoS Countermeasures
DoS Penetration Testing
Perform a DoS Attack With the Low Orbit ION Cannon Act
Step Up the DoS Attack With the High Orbit ION Cannon Act
Perform a Slowloris DoS Attack Act

Module 10 - Session Hijacking

Session Hijacking
Browser Session Hijacking
Way to Compromise a Session Token
Client Side Attacks
Hijacking at the Network Level
Session Hijacking Tools
Session Hijacking Countermeasures
Session Hijacking Testing
Perform a MITM Attack with Ettercap Act

Module 11 - Hacking Webservers

- Hacking Web Servers
- Webserver Attacks
- Methodology of Webserver Attacks
- Webserver Attack and Defense Tools
- Webserver General Defense
- Webserver Specific Attack Countermeasures
- Webserver Patch Management
- Webserver Pen Testing
- Footprint a Web Server with IDServe Act
- Conduct a Simple Web Server Vulnerability Scan with Uniscan Act
- Conduct a Comprehensive Web Server Vulnerability Scan with Uniscan Act
- Brute Force a Web Server with Medusa Act

Module 12 - Hacking Web Applications

- Hacking Web Applications
- Web App Vulnerabilities and Exploits
- Web Application Threats
- Injection Attacks
- Hidden Fields and Clickjacking
- Cross Site Attacks
- Additional Web App Attacks
- Web Hacking Methodology
- Web App Hacking Countermeasures
- Web App Security Tools
- Web Application Penetration Testing
- Conduct a Simple Command Injection Attack Act
- Inject a Malicious Link with Cross Site Scripting Act
- Conduct a Cross Site Request Forgery Attack

Module 13 - SQL Injection

- SQL Injection
- Types of SQL Injection
- SQL Injection Methodology
- SQL Injection Tools
- SQL Injection Countermeasures
- SQL Injection Penetration Testing
- SQL Injection Act

Module 14 - Hacking Wireless Networks

- Hacking Wireless Networks
- Wireless Discovery and Mapping
- WiFi Sniffers
- WiFi Attacks
- WiFi Cracking
- Wireless Hacking Tools
- Bluetooth Hacking
- Wireless Hacking Countermeasures

- Wireless Security Tools
- Wireless Penetration Testing
- Crack a WEP Key with Aircrack-ng Act
- Crack a WPA Key with Aircrack-ng Act

Module 15 - System Hacking

- System Hacking Methodology
- Windows System Vulnerabilities and Exploits
- Linux System Vulnerablities and Exploits
- Password Cracking Methods
- Network Service Password Cracking
- Windows Password Cracking
- Linux Password Cracking
- Password Cracking Tools
- Other Methods of Obtaining Passwords
- Keylogging
- Spyware
- RootKits
- Hiding Files
- Steganography
- Privilege Escalation
- Creating and Maintaining Remote Access
- Hiding Evidence
- System Hacking Penetration Testing
- Spoof Name Resolution and Capture Credentials with Responder Act
- Dump and Crack Password Hashes with pwdump7 and Ophcrack Act
- Crack Passwords with L0pht7 Act
- Exploit Client Side Vulnerabilities Act
- Track User Activity with Spyware Act
- View and Clear Audit Policies with Auditpol Act
- Hide Data Using Whitespace Steganography Act
- Hide Data Using Least Significant Bit Steganography Act
- Cover Your Tracks Act

Module 16 - Hacking Mobile Platforms

- Hacking Mobile Platforms
- Hacking Android OS
- Rooting Android
- Securing Android
- Hacking iOS
- Jailbreaking iOS
- Securing iOS
- Hacking Windows Phone OS
- Hacking Blackberry
- Mobile Device Management
- Mobile Security Guidelines and Tools
- Mobile Penetration Testing
- Prepare Your Wireless Email Environment Act
- Pwn a Mobile Device with Metasploit Act

Use a Mobile Device in a DDoS Campaign Act
Return Your VMs to Original Configuration Act
Uninstall Main Activity Malware from Android Act

Module 17 - Evading IDS, Firewalls, and Honeypots

Evading IDS Firewalls and Honeypots
Firewalls
Honeypots
IDS Firewalls and Honeypots Tools
Evasion
Evasion Countermeasures
IDS Firewall Honeypot Penetration Testing
Fly Below IDS Radar Act
Test and Analyze a Honey Pot Act
Bypass Windows Firewall Act

Module 18 - Cryptography

Cryptography
Encryption Algorithms
Cryptography Tools
Public key Infrastructure
Email Encryption
Disk Encryption
Cryptography Attacks
Crytography Penetration Testing
Examine Hashing Algorithms Act
Protect Data with Symmetric Encryption Act
Protect Data with Asymmetric Encryption Act

Module 19 - Cloud Computing

Cloud Computing
Virtualization
Cloud Computing Threats
Countermeasures to Cloud Computing Threats
Cloud Computing Attacks
Cloud Security
Cloud Security Best Practices
Cloud Penetration Testing

Module 20 - IoT Hacking

IoT Hacking
IoT Vulnerabilities and Attacks
IoT Hacking Methodology and Tools
IoT Hacking Countermeasures
oT Penetration Testing
Search the Internet for Vulnerable IoT Devices Act
Conclusion