

Certified Ethical Hacker (CEH) v12

Security concepts, tools, and best-practice frameworks

A practical, student-friendly outline covering introduction To Ethical Hacking, footprinting and Reconnaissance, scanning Networks, enumeration, and vulnerabil...

MODULES

20

LESSONS

323

FORMAT

Self-paced

Module Breakdown

MODULE 1

Introduction To Ethical Hacking

- 1.0 Introduction to CEH v12
- 1.1 Elements of Security
- 1.2 Cyber Kill Chain
- 1.3 MITRE ATT&CK Framework
 - 1.3.1 Activity - Researching the MITRE ATTACK Framework
- 1.4 Hacking
- 1.5 Ethical Hacking
- 1.6 Information Assurance
- 1.7 Risk Management
- 1.8 Incident Management
- 1.9 Information Security Laws and Standards
- 1.10 Introduction to Ethical Hacking Review

MODULE 2

Footprinting and Reconnaissance

- 2.1 Footprinting Concepts
- 2.2 OSINT Tools
 - 2.2.1 Activity - Conduct OSINT with OSR Framework
 - 2.2.2 Activity - OSINT with theHarvester
 - 2.2.3 Activity - Add API Keys to theHarvester
 - 2.2.4 Activity - Extract Document Metadata with FOCA
 - 2.2.5 Activity - Extract Document Metadata with FOCA
- 2.3 Advanced Google Search
 - 2.3.1 Activity - Google Hacking
- 2.4 Whois Footprinting
 - 2.4.1 Activity - Conducting Whois Research
- 2.5 DNS Footprinting
 - 2.5.1 Activity - Query DNS with NSLOOKUP
- 2.6 Website Footprinting
 - 2.6.1 Activity - Fingerprint a Webserver with ID Serve
 - 2.6.2 Activity - Extract Data from Websites
 - 2.6.3 Activity - Mirror a Website with HTTrack
- 2.7 Email Footprinting

Module Breakdown (continued)

<p>MODULE 2</p> <p>Footprinting and Reconnaissance (continued)</p> <ul style="list-style-type: none"> 2.7.1 Activity - Trace a Suspicious Email 2.8 Network Footprinting 2.9 Social Network Footprinting 2.10 Footprinting and Reconnaissance Countermeasures 2.11 Footprinting and Reconnaissance Review 	<p>MODULE 3</p> <p>Scanning Networks</p> <ul style="list-style-type: none"> 3.1 Scanning Concepts 3.2 Discovery Scans <ul style="list-style-type: none"> 3.2.1 Activity - ICMP ECHO and ARP Pings 3.2.2 Activity - Host Discovery with Angry IP Scanner 3.3 Port Scans <ul style="list-style-type: none"> 3.3.1 Activity - Port Scan with Angry IP Scanner 3.4 Other Scan Types 3.5 Scanning Tools <ul style="list-style-type: none"> 3.5.1 Activity - Hping3 Packet Crafting 3.5.2 Activity - Fingerprinting with Zenmap 3.6 NMAP <ul style="list-style-type: none"> 3.6.1 Activity - Nmap Basic Scans 3.6.2 Activity - Host Discovery with Nmap 3.6.3 - Activity - Nmap Version Detection 3.6.4 Activity - Nmap Idle (Zombie) Scan 3.6.5 Activity - Nmap FTP Bounce Scan 3.6.6 - Activity - NMAP Scripts 3.7 Firewall and IDS Evasion
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