

Offensive Hacking Cookbook Curriculum

1. Course Introduction

- Intro
 - Whoami
 - Why this course ?
 - What you will learn here ?
 - Pre-requisites & requirement
-

2. Note taking and Learning

- Notetaking process (including Screenshots)
 - Reading vs Visual learning
 - Learn in Public
 - Assignment, Quizzes & Labs
 - Course Discord
-

3. Networking Refresher

- IP addresses
 - MAC addresses
 - Client-Server Model
 - DNS
 - TCP VS UDP and Three-way handshake
 - Common Ports & Protocols
 - OSI Model and TCP/IP Model
 - How Web Works ?
 - Subnetting
-

4. Linux Refresher

- Installing Kali Linux on Vmware & Virtual Box.
 - Kali Linux Overview
 - Sudo Overview
 - Navigating the File System
 - File & Directory permissions
 - Users & privileges
 - Viewing, Creating and Editing Files
 - grep and piping
 - Finding files in Linux
 - Enumerating Distribution & Kernel Information
 - Shells & Bash configuration
 - Disk Usage
 - Networking
 - File compression in linux
 - Service & Process Management
 - Installing software & tools
 - Useful Keyboard Shortcuts
 - Using TOR & Proxychains
-

5. Cybersecurity Principles

- Understanding Threats & Threat Actors
 - The CIA Triad
 - The Cyber Kill Chain
 - Security Principles
 - Threat Modelling and Threat Intelligence
 - Information Security Laws & Standards
 - The Ethical Hacking Methodology
-

6. Information Gathering (Reconnaissance)

L1 Recon

- Introduction to Reconnaissance
- Identifying our Target

- Whois Records
- Google Dorking
- Company OSINT
- Web Archives
- Identifying Website Technologies
- Discovering Email addresses -
- Hunting breached credentials
- Hunting for subdomains
- Open Source code reconnaissance
- Security Headers and SSL/TLS testing
- Banner grabbing and Firewall Detection
- Finding IP address behind Cloudflare
- Shodan, Zoomeye and Censys
- Enumeration with Carbon Dating
- Android Apps Enumeration
- Utilizing Social Media
- Information Gathering with black widow

L2 Recon

- DNS recon using host, nslookup and dig
- DNS Zone Transfer
- Historical DNS records
- DNS Brute forcing and subdomain enumeration
- Finding and enumerating ASN

L3 Recon

- Finding Cloud resources
- Filtering live hosts and domains
- Finding Hidden parameters and endpoints
- Automating the Reconnaissance

7. Active Reconnaissance

- Introduction to Active Reconnaissance
- Installing Metasploitable

- Host discovery with netdiscover
 - Host discovery with nmap
 - Port scanning with nmap
 - Service Fingerprinting
 - OS Fingerprinting
 - Scanning beyond Firewall & IDS
 - Optimizing your scans
 - Port Scanning in Windows
 - Scanning with masscan
 - Scanning with Rustscan
 - Directory Bruteforcing
-

8. Enumeration

- Introduction to Enumeration
 - FTP Enumeration
 - Telnet Enumeration
 - SSH Enumeration
 - NetBIOS Enumeration
 - SMB Enumeration
 - SNMP Enumeration
 - LDAP Enumeration
 - NTP Enumeration
 - NFS Enumeration
 - SMTP Enumeration
 - IMAP Enumeration
 - POP Enumeration
 - MYSQL Enumeration
 - TFTP Enumeration
 - IPSec Enumeration
-

9. Vulnerability Scanning

- Introduction to Vulnerability Scanning

- Vulnerability Classification
 - Vulnerability assessments
 - Vulnerability Scanning with nikto
 - Vulnerability Scanning with nmap
 - Vulnerability Scanning with Nessus
 - Vulnerability Scanning with OpenVAS
 - The Zero days
-

10. Exploitation (Popping Shellz)

- Introduction to Exploitation
 - Reverse Shells vs Bind Shells
 - Staged vs Non-staged payloads
 - All about Malwares
 - Default Passwords attacks
 - Bruteforce Attacks
 - Credential Stuffing & Password Spraying
 - Gaining Access with Metasploit
 - Locating Public Exploits
 - Fixing Public Exploits
 - Manual Exploitation
-

11. The Metasploit Framework

- Metasploit Framework Overview
- Setting up the working environment
- Auxiliary Modules
- Exploit Modules
- Post, Nops and encoders Modules
- Meterpreter Payloads
- Creating payloads with msfvenom
- Hacking Windows XP with Metasploit
- Hacking Windows 7 with Metasploit
- Hacking Windows 10 with Metasploit

- Hacking Windows remotely over WAN
 - Adding a new exploit
 - Resource scripts
-

12. Client Side Attacks

- Introduction to Client Side Attacks
 - Performing Target Recon
 - Exploitation with Office Macros
 - Exploitation with HTA attack
 - The Browser Exploitation Framework (BeEF)
-

13. Antivirus & EDR Evasion

- Introduction to Antivirus & EDR Evasion
 - How AV Detection Works ?
 - AV Evasion Concepts
 - AV Evasion with Shellter
 - AV Evasion with Scarecrow
-

14. Getting hands dirty

- THM - Agent T Walkthrough
 - THM - Bolt CMS Walkthrough
 - THM - Blue Walkthrough
 - THM - Blueprint Walkthrough
 - PG - Stapler Walkthrough
 - PG - Monitoring Walkthrough
 - HTB - Crocodile Walkthrough
 - Vulnhub - Kioptrix Walkthrough
-