



CYBER SECURITY & ETHICAL HACKING



Introduction to Ethical Hacking Module

- What is Ethical Hacking
- Types of Hackers
- Introduction to Hacking Phases
- Cyber Security Basics

introduction to Kali Linux

- Build your Virtual Lab,
- Installation of Kali Linux,
- Downloading & installation of Windows 8 iso ,
Windows server 2012

Introduction to Functions

- Using prebuilt functions (min,max etc.)
- Writing user defined functions
- What is lambda function?
- Map, reduce & Filter functions in Python

Foot printing and Reconnaissance

- INumPy
- Foot Printing Objectives
- Tools: Banner Grabbing, netcraft,
web.archive.org, whois.domaintools.com,
- shodan.com , pipl.com, Maltego, Email
TrackerPro, SearchDiggity, Harvestor
- Information gathering using OSINT Framework.
- <https://grabify.link/>
- Dark Web Investigation

Scanning Networks

- Overview of Networking Scanning
- Tools: NMAP, Zenmap, Wireshark, Netscan
Tool, Angry IP Scanner,
- Port Scanning,

Enumeration

- Enumeration Techniques
- Tools: Hyena, NetBIOS Enumerator,
SuperScan, NetScan, NMAP
- MITRE ATTACK Framework

Vulnerability Analysis

- Vulnerability Management Tools:
- Nesus, Nikto

System Hacking

- Tools: Metasploit Fame work, Spyagent
- Stenography using Tools: OpenStego,
QuickStego
- Credential Dumping using Netsh

Malware Threats

- Creating & Using different Malware
- Tools: njRAT, Creating a Virus/ Trojan using
meterpreter session
- Notepad Virus Scripts

Sniffing

- Tools: MITM Attack,
- Burpsuite, Cain & Able
- Ettercap, Wireshark



Social Engineering

- Tools: SEToolkit, Phishing, Fake email/call /sms

Firewalls, and Honeypots

- Tools: Fortigate Firewall, ACL, IDS, Honybots

Hacking Web Servers

- Owasp Top 10
- Shell Shock,
- apache server

SQL Injection

- Sqlmap,
- owasp - broken web application

Hacking Wireless Networks

- Aircrack-ng,
- WEP, WPA, WPA2

Hacking Mobile Platforms

- Blue STcak,
- Cheat Engine, stagefright attack
- Mobile application: Reverse Engineering and Bypass SSL pinning.

Cloud Computing (Saas, Paas, Iaas, Private, Public, Hybrid)

Cryptography

- Symmetric Cryptography
- ASymmetric Cryptography
- Tool: Crptool

IT ACT (A) 2008

Python In Hacking

PREP FOR -Exam SC-900: Microsoft Security, Compliance, and Identity Fundamentals

Python In Hacking

Concepts of security, compliance, and identity

- SCreate a New Tenant in Azure Active Directory
- Azure AD identity types (users, devices, groups, service principals/applications)

Capabilities of Microsoft identity and access management solutions

Capabilities of Microsoft security solutions

Capabilities of Microsoft compliance solutions

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Project and Assignment on:

- <https://training.fortinet.com/>
- VAPT report of OWASP Top 10 on <https://demo.testfire.net/>
<https://portswigger.net/web-security/all-labs>
- <https://www.qualys.com/training/#self-paced>
- <https://beacon.paloaltonetworks.com/student/catalog>
- <https://portswigger.net/web-security/all-labs>



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