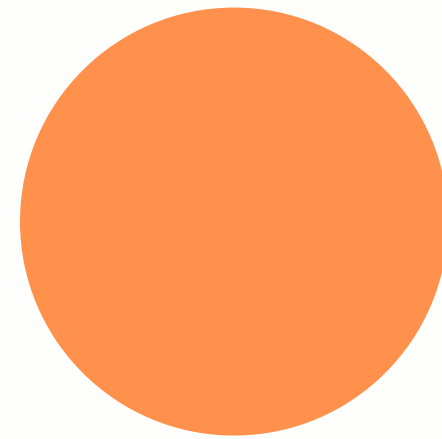


Infrastructure Pentesting & Cyber Forensics



Sr. No

Topic

Sub Topic

Hours

Module - 1

Introduction

- **What is IP, Types of IP**
- **Introduction to Network Infrastructure**
- **Introduction to Cyber Forensics**
- **Some Basic Terminologies**
- **Setting Up your Hacking environment**

4

Module - 2

**Networking
Fundamentals**

- **Network Topologies**
- **Network Types**
- **TCP 3 Way Handshakes**
- **Subnetting IP's**
- **IDS/ IPS Fundamentals**
- **Intrusion Detection with Snort**

4

Sr. No

Topic

Sub Topic

Hours

Module - 3

**Network
Pentesting**

- NTLM Fundamentals
- Capture NTLM & NTLMv2 Hashes in Network
- Cracking NTLM Hashes
- Capture SMB & spoof NBNS
- Word UNC injection
- Hands on Responder
- SMTP Injection
- CTF

4

Module - 4

Nmap & Zenmap

- Ports & Protocols
- Installation of Nmap & Zenmap
- Service Version & OS Detection
- Nmap NSE Scripting Engine
- Nmap Vulners
- Practical Lab
- CTF

4

Sr. No

Topic

Sub Topic

Hours

Module - 5

Wireshark

- **Wireshark Installation**
- **Wireshark Fundamentals**
- **Display Filters & Expressions**
- **Capturing Protocols - HTTP**
- **Capturing Protocols - Telnet**
- **Capturing Protocols - FTP**
- **Dissecting Nmap Scan with Wireshark**
- **CTF**

4

Module - 6

**Linux Bash
Scripting**

- **Linux Commands Refresher**
- **Creating Custom Wordlists using Crunchbase**
- **Hydra for Password Cracking**
- **John the Ripper**
- **Metasploit for SSH password cracking**

4

Sr. No

Topic

Sub Topic

Hours

- **Bash Scripting Practical 1 (Subdomain Enumeration)**
- **Bash Scripting Practical 2 (JS File Enumeration)**
- **Rainbow Tables**

Module - 7

Netcat

- **Installation of netcat**
- **Port Scanning with netcat - UDP**
- **Chat Client**
- **Banner Grabbing**
- **File Transfers**
- **Reverse Shells using netcat**
- **Persistent Backdoors with netcat**

4

Sr. No

Topic

Sub Topic

Hours

Module - 8

Active Directory

- **Active Directory Fundamentals**
- **Setting up Domain Controller**
- **Setting up GPO**
- **Extracting Information Windows AD**
- **Office365 Recon**

4

Module - 9

Email Forensics

- **SPF, DKIM, DMARC**
- **Email Spoofing**
- **Email Header Analysis**

4

Sr. No

Topic

Sub Topic

Hours

Module - 10

**Data Recovery &
Memory Dumping**

- **Data Recovery**
- **File Shredders**
- **Memory Dumping**

4

Module - 11

Malware Analysis

- **Malware Family**
- **Introduction to Malware Analysis**
- **Capturing Live Traffic from Malwares**

4

Module - 12

Server Setup

- **Apache Server**
- **IIS Server**
- **SAMBA Server**
- **Python Server**

4

Sr. No

Topic

Sub Topic

Hours

Module - 13

**IoT Search Engines
& Reconnaissance**

- **Shodan**
- **Censys**
- **Reverse Whois**
- **Waybackurls, OTX, Rapid7**
- **Github Dorking**
- **Tips & Tricks**
- **Capstone Project**

4

Exam

MCQ Exam

2

50

Thank You!



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