

APPLIATION SECURITY

PENETRATION TESTING

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Networking Essentials

- Introduction to Computer Network
- Network Topologies and Type
- IP Addressing
- Subnet Mask, Subnetting and CIDR
- VLSM, Wild Card, Summarization
- Networking Models
- OSI Model
- Networking Device, Cabling, Network Simulator Tools
- ARP and ICMP
- Packet Flow
- Routing - Static and Dynamic
- Static Routing - Next HOP IP & Exit Interface
- Dynamic Routing - RIP, EIGRP, & OSPF
- Remote Service Configuration
- DHCP Configuration
- ACLs
- Switching
- L2 Protocols - CDP, VLAN, STP, DTP, VTP
- Ether Channel
- Port Security

Kali Linux

- Introduction to Linux
- Setting up Lab
- Exploring Kali
- Sudo Overview
- Navigating the File System
- Basic Commands
- Creating, Viewing and Editing Text Files
- Managing Users and Group
- File Privileges / Permissions
- Linux Networking
- Process Management
- Sevicees and Demons
- Log Analysis
- Archiving Files
- Debain Package Management
- Road Ahead - Towards Penetration Testing

Python Programming

- Introduction
- Set up
- Variables and Data Types
- Numbers
- String Formatting
- Booleans and Operators
- Tuples
- Lists
- Dictionaries
- Sets
- Conditionals
- Loops
- Reading and Writing Files
- User Input
- Exception and Error Handling
- Comprehensions
- Function and Code Reuse
- Lambdas
- The Python Package Manner
- Python Virtual Environment
- Introduction to Sys
- Introduction to Requests
- Introduction to Pwntools
- Projects

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Ethical Hacking

- Networking Refresher
- Linux Refresher
- Introduction to Information Security
- Introduction to Ethical Hacking
- Foot printing / Information Gathering
- Scanning
- Enumeration
- Vulnerbaility Analysis
- System Hacking
- Malware and Threats
- Sniffing
- Social Engineering
- Denial of Service
- Session Hijacking
- IDS, IPS, and Firewalls
- Hacking Web Servers
- Hacking Web Applications
- SQL Injection
- Hacking Wireless Network
- Hacking Mobile Platforms
- Introduction to IOT
- Introduction to Cloud Computing
- Cryptography and Steganography

Web Application Security

- Introduction to Web Application Security
- Setting up the Environment
- Reconnaissance and Scanning
- Exploitation Techniques
- Authentication and Session Management
- Advance Web Application Attacks
- Reporting and Remediation
- Legal and Ethical Consideration
- Practical Application
- Recape and Review

Mobile Application Security

- Introduction to Android Penetration Testing
- Setting Up Android Penetration Testing Environment
- Android Penetration Testing Methodologies
- Lab Setup Design
- Traditional Android Penetration Testing Report
- Android Attack Surface – Client-Side Vulnerabilities
- Android Attack Surface - Server-Side Vulnerabilities
- Android Attack Surface Logical Security Threats
- Owasp Mobile Top 10
- Setup Android Debug Bridge Utility (adb)
- Vulnerable Android Application Source Code Review
- Structure an Android Application Package (APK)
- Reversing an Android application using dex2jar
- Reversing an Android Applications Manually
- Android Code Obfuscation & Code Protection
- Adding Malicious Code to Android Apps
- Debugging Detection
- Root Detection
- VM Detection
- iOS Application Basic Standards

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