

NETWORK VULNERABILITY

TESTING PROGRAM

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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
- Services 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

Ethical Hacking

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

Network Penetration Testing

- Introduction to Kali Linux
- Command Line Fun
- Bash Scripting
- Passive Footprinting
- Active Footprinting
- Advanced Scanning
- Initial access CTFs
- Introduction to Linux Privilege Escalation
- Introduction to Windows Privilege Escalation
- Root Access CTFs
- Buffer overflow overview
- Antivirus Evasion
- Active Directory Overview
- Report Generation

Privilege Escalation Windows - Linux

- Introduction to Linux Privilege Escalation
- Lab Overview
- Initial Enumeration
- Exploring Automated Tools
- Kernel Exploits
- Password and File Permissions
- Sudo
- SUID
- Capabilities
- Scheduled Tasks
- NFS Root Squashing
- Docker
- Challenge

Privilege Escalation (windows Based)

- Introduction to window privilege escalation
- Gaining Foothold
- Initial Enumeration
- Exploring Automated tools
- Kernel Exploits
- Password and Port Forwarding
- Windows subsystem for linux
- Impersonation and Potato attacks
- Getsystem
- Runas
- Registry
- Executables Files
- Startup Applications
- DLL Hijacking
- Service Permissions (paths)
- CVE 2019 - 1388
- Challenge

Active Directory

- Introduction to Active Directory
- Active Directory Enumeration Principles
- External Reconnaissance
- Internal Enumerating and Footprinting
- Lateral Movement
- Enumerating and Exploiting Trusts
- Password Spraying
- LLMNR / NBT-NS Poisoning



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