CYBERYAAN
TRAINING & CONSULTANCY

NETWORK VULNERABILITY

TESTING

PROGRAM

Network vulnerability refers to weaknesses in a network's infrastructure that attackers can exploit to gain unauthorized access or disrupt services. Common vulnerabilities include unpatched software, weak encryption, misconfigured firewalls, and exposed ports. Regular vulnerability scanning and penetration testing help identify and remediate these risks. Addressing network vulnerabilities is critical to preventing breaches, data theft, and downtime.

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1. 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

2. 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
- Sevices and Demons
- Log Analysis
- Archiving Files
- Debain Package Management
- Road Ahead - Towards Penetration Testing

3. 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

4. Ethical Hacking

- Networking Refresher
- Linux Refresher
- Introduction to Information Security
- Introduction to Ethical Hacking
- Foot printing / Information Gathering
- Scanning
- Enumeration
- Vulnerability 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

5. 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

6. 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

7. 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

5. 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 Poisioning

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