



VULNERABILITY ASSESSMENT

SCAN STATUS
COMPLETE

TARGETS
192.168.1.0/24
10.0.0.0/16

PORTS SCANNED
1,024

VULNERABILITIES FOUND

47

SEVERITY BREAKDOWN

CRITICAL	7
HIGH	16
MEDIUM	17
LOW	7

RISK SCORE



HIGH RISK

TOP VULNERABILITIES

CVE-2024-3094	9.8
CVE-2024-2472	9.1
CVE-2023-4863	8.6
CVE-2024-1287	7.5
CVE-2023-2491	7.1

SYSTEM OVERVIEW

HOSTS

SERVICES

VULNERABILITIES

LAST SCAN 2024-05-

VULNERABILITY DETAIL

CVE-2024-3094

CVSS v3.1 SCORE

ATTACK VECTOR

PRIVILEGES

USER INTERACTION

IMPACT

DESCRIPTION

A buffer overflow vulnerability in the affected service allows an attacker to execute arbitrary code.

RECOMMENDATION

Apply vendor patch
Update to version 2.4.1
Restrict network access

```
nmap -sV -T4 192.168.1.0/24
```

```
Starting Nmap 7.94...  
Nmap scan report for 192.168.1.1  
Host is up (0.001s latency).
```

PORT	STATE	SERVICE	VERSION
22/tcp	open	ssh	OpenSSH 8.9
80/tcp	open	http	nginx 1.24.0
443/tcp	open	https	nginx 1.24.0

```
Nmap done: 256 IP addresses (256 up) scanned  
in 45.67 seconds
```

THINK
ASSESS
SECURE

ASSESS

- ☒ IDENTIFY
- ☒ ANALYZE
- ☒ PRIORITIZE
- ☒ REMEDIATE
- ☒ VERIFY

K7 ACADEMY

Applied VAPT & Offensive Security Programme

Overview

The Applied VAPT & Offensive Security Programme is a comprehensive advanced course for security professionals who want to operate at a Red Team and professional pentesting level. Across 42 hours you will master advanced recon, web application exploitation, Active Directory attacks, Linux privilege escalation, wireless attacks, social engineering, malware creation and AV evasion, cloud and container security, post-exploitation frameworks, and professional report writing — all culminating in a full enterprise VAPT simulation.

Mode

Online/Offline Classes

Duration

42 Hours

Level

Intermediate to Advanced

Who Should Enrol?

- VAPT Foundation Programme graduates ready for advanced content
- Junior Pentesters aiming to move into senior or Red Team roles
- Security Engineers wanting offensive depth for better defence
- Bug Bounty Hunters targeting high-severity and chained vulnerabilities
- SOC Analysts who want to understand attacker tradecraft from the inside

Learning Outcomes

- Perform advanced recon using Shodan, Censys, and automated attack surface mapping
- Exploit advanced web vulnerabilities: SQLi, XSS, JWT attacks, GraphQL, API flaws
- Bypass WAF protections and conduct full bug bounty methodology
- Execute Active Directory attacks — Kerberoasting, DCSync, Golden/Silver Tickets
- Escalate privileges on Linux systems via SUID, Cron, kernel, and PATH exploitation
- Conduct wireless attacks — WPA2/3 cracking, PMKID, and Evil Twin campaigns
- Build and deploy custom payloads and evade AV/EDR detections
- Analyse and sandbox malware — static and dynamic analysis
- Identify and exploit AWS, Azure, Docker, and Kubernetes misconfigurations
- Operate post-exploitation frameworks and perform lateral movement
- Write professional, executive, and technical VAPT reports with CVSS scoring
- Deliver a full enterprise VAPT simulation from recon to final report

Modules

Module 1 — Advanced Recon & Enumeration

- Advanced Nmap & NSE
- Subdomain Enumeration
- OSINT & Attack Surface Mapping
- Shodan & Censys
- Real-world recon methodology
- Attack surface reduction concepts

Module 2 — Advanced Web Application Pentesting

- OWASP Top 10
- SQL Injection Advanced
- XSS Advanced
- JWT Attacks
- GraphQL Security
- API Security Testing
- WAF Bypass Concepts
- Bug bounty workflow
- Advanced Burp Suite methodology

Module 3 — Network Penetration Testing

- SMB Exploitation
- Hydra & Password Attacks
- Pivoting & Tunneling
- Pass-the-Hash
- IPv6 Attacks

Module 4 — Windows & Active Directory Attacks

- BloodHound
- Kerberoasting
- AS-REP Roasting
- DCSync
- Golden Ticket & Silver Ticket
- LSASS Credential Access
- UAC Bypass Concepts
- AD attack path mapping
- Privilege escalation lab scenarios

Module 5 — Linux Exploitation & Privilege Escalation

- SUID Exploitation
- Cron Job Hijacking
- Kernel Exploits
- PATH Hijacking

Module 6 — Wireless & Social Engineering

- WPA2/WPA3 Attacks
- PMKID Attack
- Evil Twin Attack
- GoPhish
- SET Toolkit
- Real phishing campaign simulation

Module 7 — Malware & AV Evasion

- msfvenom Payloads
- Static Malware Analysis
- Dynamic Malware Analysis
- AV/EDR Evasion
- Process Hollowing
- Reflective DLL Injection
- Safe malware sandboxing
- Android APK Payload Generation

Module 8 — Cloud & Container Security

- AWS Misconfigurations
- Azure Misconfigurations
- Docker Security
- Kubernetes Security
- Cloud IAM abuse scenarios
- Container escape practical

Module 9 — Reporting & Professional Practice

- Executive Summary Writing
- Technical Reporting
- CVSS Scoring
- Retesting Methodology
- Professional evidence documentation

Module 10 — Post-Exploitation, Persistence & Lateral Movement

- Post-Exploitation Frameworks (Cobalt Strike Concepts, Sliver)
- Persistence Mechanisms (Registry, Scheduled Tasks, Services)
- Lateral Movement Techniques (WMI, PsExec, SMB)
- Command & Control (C2) Concepts
- Data Exfiltration Techniques
- OPSEC for Pentesters
- Hands-on lab: Full attack chain simulation

Module 11 — Final Capstone Project

- Full enterprise VAPT simulation
- Recon → Exploit → Report workflow

Tools & Technologies Covered

Kali Linux

Primary offensive security OS

Nmap/NSE

Advanced scanning & enumeration

Amass/Subfinder

Subdomain & OSINT enumeration

Shodan/Censys

Internet-wide asset discovery

Burp Suite Pro

Advanced web application testing

SQLMap

Automated SQL injection

Metasploit

Exploitation & post-exploitation

BloodHound

AD attack path visualisation

Impacket

AD protocol exploitation suite

Mimikatz

Credential extraction

Aircrack-ng

Wireless password cracking

GoPhish

Phishing campaign platform

SET Toolkit

Social engineering attacks

msfvenom

Custom payload generation

Chisel/Ligolo

Tunneling & pivoting

CVSS Calculator

Vulnerability severity scoring

ANY.RUN/Cuckoo

Malware dynamic sandboxing

Hydra

Network password brute-forcing

Career Opportunities

Role

- Penetration Tester
- Red Team Operator
- Web Application Pentester
- Active Directory Specialist
- Cloud Security Pentester
- Bug Bounty Hunter (Advanced)
- Malware Analyst/RE
- Senior VAPT Consultant



Certification & Assessment

- Module-wise Quizzes
- Lab Submission Reports — graded hands-on exercises
- Final Certification Exam — Passing Score: 70%



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