

Advanced Infrastructure Hacking (AIH)

Course Duration : 32 Hours

Course code : AIH

1. Course Overview

The **Advanced Infrastructure Hacking (AIH)** course focuses on advanced techniques used to assess and exploit infrastructure-level security weaknesses. This course covers real-world attack scenarios targeting networks, servers, Active Directory, and enterprise infrastructure while following ethical hacking and legal guidelines.

2. What you'll learn?

- Advanced network and infrastructure attack techniques
- Active Directory exploitation methods
- Server and service vulnerability exploitation
- Privilege escalation techniques
- Lateral movement and persistence
- Infrastructure defense and hardening

3. Target Audience

- Ethical hackers
- Penetration testers
- Red team professionals
- Cybersecurity analysts
- IT security engineers

4. Pre-Requisites

- Strong understanding of networking concepts
- Experience with basic ethical hacking
- Knowledge of operating systems (Windows/Linux)

5. Course Content (Modules)

Module 1: Advanced Network Attacks

- Network scanning and enumeration
- Advanced exploitation techniques

Module 2: Active Directory Attacks

- AD architecture overview
- Credential attacks and abuse

Module 3: Server and Service Exploitation

- Exploiting misconfigurations
- Vulnerable services

Module 4: Privilege Escalation

- Windows and Linux privilege escalation
- Kernel and service exploitation

Module 5: Lateral Movement and Persistence

- Moving across the network
- Maintaining access

Module 6: Detection Evasion and Defense

- Avoiding detection
- Infrastructure hardening techniques