



Infrastructure Hacking 3 Days

2020 EDITION

This is our entry-level infrastructure security testing course and also a recommended pre-requisite course before enrolling for our “Advanced Infrastructure Hacking” course. This foundation course familiarises the attendees with the basics of network hacking. A number of tools and techniques, backed up by a systematic approach on the various phases of hacking will be discussed during this course. If you would like to step into a career of Ethical Hacking / Pen Testing with the right amount of knowledge, this is the right course for you.

This course introduces the attendees with a wealth of hacking tools and techniques crucial in getting started in this dynamic field of hacking. The course begins with laying a foundation for everyone by discussing the basic concepts and gradually builds up to the level where attendees not only use the tools and techniques to hack various components involved in infrastructure hacking, but also walk away with a solid understanding of the concepts on how these tools work and therefore ready to face the real world.

Who Should Attend

- Security enthusiasts
- Anybody who wishes to make a career in this domain and gain knowledge of networks and applications
- System Administrators
- SOC Analysts
- Network Engineers
- Pen Testers who are wanting to level up their skills

Prerequisites

The only requirement for this course is that you bring your laptop with an admin/root access. VPN access to our state-of-the-art hacklab, which is hosted in our data centre in the UK where required tools/virtual machines (VMs) will be found, will be provided during the course. We also provide a dedicated Kali VM to each attendee on the hacklab, so you don't need to bring any VMs with you, all you need is to install the VPN client and you are good to go!

Course Outline

THE ART OF PORT SCANNING

- Basic concepts of Hacking Methodology
- Enumeration techniques and Port scanning

THE ART OF ONLINE PASSWORD ATTACKS

- Configure online password attack
- Exploiting network service misconfiguration

THE ART OF HACKING DATABASES

- Mysql, Postgres
- Attack chaining techniques

METASPLOIT BASICS

- Exploitation concepts, Manual exploitation methodology
- Metasploit framework

PASSWORD CRACKING

- Understanding basic concepts of cryptography,
- Design offline brute force attack

HACKING UNIX

- Linux vulnerabilities, misconfiguration
- Privilege escalation techniques

HACKING APPLICATION SERVERS ON UNIX

- Web server misconfiguration
- Multiple exploitation techniques

HACKING THIRD PARTY CMS SOFTWARE

- CMS Software
- Vulnerability scanning & exploitation

WINDOWS ENUMERATION

- Windows Enumeration techniques & Configuration Issues
- Attack chaining

CLIENT-SIDE ATTACKS

- Various Windows client-side attack techniques

PRIVILEGE ESCALATION ON WINDOWS

- Post exploitation
- Windows Privilege escalation techniques

HACKING APPLICATION SERVERS ON WINDOWS

- Web server misconfiguration
- Exploiting Application servers

POST EXPLOITATION

- Metasploit Post exploitation techniques
- Window 10 Security features & different bypass techniques

HACKING WINDOWS DOMAINS

- Understanding Windows Authentication
- Gaining access to Domain Controller