

# Mobile Ethical Hacking



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### Module:-1 Introduction

- 1.0 Introduction to the course
- 2.0 Course Instructions
- 3.0 Need for Mobile Security OWASP Top 10 Mobile Risks

### Module:-2 Lab Setup for the Course

- 1.0 Lab Setup
- 2.0 Installing Ubuntu on VMware
- 3.0 Setting Up an Android Pentesting Environment on Ubuntu

### Module:-3 Getting Familiar with Android Developer tools

- 1.0 Eclipse IDE
- 2.0 Android Debug Bridge (ADB)

### Module:-4 Android Architecture and Security Model

- 1.0 A Brief Introduction To Android
- 2.0 Android Booting Process
- 3.0 Android's Architecture
- 4.0 Android's Data Structures and File Systems
- 5.0 Android Applications
- 6.0 Android Security Model

### Module:-5 Interacting With Android Devices

- 1.0 Differences between Android Emulator and Android Device
- 2.0 Interacting with Android Device via USB
- 3.0 All About Rooting
- 4.0 Termux for Android.
- 5.0 VNC
- 6.0 SSH
- 7.0 Busybox



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### Module:-6 Android Network Analysis

- 1.0 Setting Up A Proxy for Android Emulator
- 2.0 Setting Up A Proxy for Android Device
- 3.0 Installing CA Certificate
- 4.0 Real World Man in the middle (MITM)
- 5.0 Data Manipulation

### Module:- 7 Android Reversing and Malware Analysis

- 1.0 APK files in a Nutshell.
- 2.0 Introduction to Reverse Engineering.
- 3.0 Reversing to get Source code of the Application.
- 4.0 Reversing With APKtools.
- 5.0 Android Malware.

### Module:- 8 Android Application Pentesting and Exploitation

- 1.0 Installing Vulnerable Applications
- 2.0 Introduction To Android Application Pentesting
- 3.0 Fuzzing Android Applications with Burp - Proxy
- 4.0 Fuzzing Android Applications with Burp – Intruder
- 5.0 Exploiting Android Devices Using Metasploit
- 6.0 Hiding RATs in legitimate Android apps
- 7.0 Hacking windows, Linux, Android using Android Hacking LabFile Systems
- 5.0 Android Applications
- 6.0 Android Security Model

### Module:-9 Android Device and Data Security

- 1.0 Android Device Protection
- 2.0 Bypassing Android Locks
- 3.0 Android Data Extraction



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