

# MOBILE APPLICATION SECURITY ANALYSIS



### Objective of the Workshop

In recent years, the smartphone market has witnessed a rapid expansion and its momentum seems unstoppable. This course aims to upskill/reskill participants in understanding the mobile threat landscape and their mitigation techniques. It provides hands-on training on Security Analysis of mobile applications. In addition, it ensures that users get acquainted with security best practices, which will help in the development of secure Android mobile applications. It offers a balance between protection & mitigation techniques, usage of tools for analysis and builds a strong theoretical and practical foundation in mobile security.

### Course Syllabus

- Introduction to Linux Environment
- Introduction to Java
- Android Basics
- Deep Dive into Android Permission-based Models and its Limitations
- OWASP Top 10 Mobile Threats & Mitigation Techniques
- Secure Coding Practices
- Security Analysis and Reverse Engineering of Android Applications (Static & Dynamic Analysis)
- Overview of iOS and its Architecture
- Case Studies for Security Analysis

### Lab Prerequisites

- PC/ Laptop with virtualization support, 60 GB free harddisk space, 32 GB RAM (Recommended) or 16 GB RAM (Minimum) and good internet connection

### Target Audience

- Mobile Application Developers/ Security Analysts working in IT/ITeS, Central/State Government/PSUs and Autonomous organizations

### Course Prerequisites

- Basic understanding of Core JAVA
- Knowledge on Linux commands & environment

**Workshop Dates :** Nov 22, 2021 to Dec 01, 2021

**Workshop Timings :** 2:30 PM to 5:30 PM

**Assessment Date :** Dec 07, 2021

**Lab Support :** 10:00 AM to 1:00 PM daily

**Conduction Mode:** Online

**Registration :** For registration, send the duly filled Nomination Form to [csfs@cdac.in](mailto:csfs@cdac.in). For more information visit <https://cybersecurityskills.in>

**Fee:** No registration fee

**Certificate:** Certificate of participation will be issued only to those who score 50% and above in the Final Assessment