06

Live · Course 06 of 08

Android Application Penetration Testing

Break Android apps the professional way: OWASP Mobile Top 10, static and dynamic analysis, SSL pinning bypass, validation, retesting and report writing.

AT A GLANCE

Language
Telugu

Certificate
On completion

Lab
Android App Sec Lab

AFTER THIS COURSE

- [x] Decompile and analyse any APK
- [x] Find insecure storage, deep links, logging and network flaws
- [x] Bypass SSL pinning with Frida and write a full VAPT report

TOOLS YOU'LL USE

Android Studio · ADB · JADX-GUI · MobSF · Burp Suite · Frida · Objection

SYLLABUS · 9 MODULES · 45 TOPICS

01 Introduction to Android VAPT

6 topics

- What is Android application penetration testing
- Vulnerability assessment vs penetration testing
- Mobile bug hunting methodology
- Native app vs web app
- Android app architecture: APK, DEX, Manifest
- App components

02 Lab Setup

6 topics

- Android Studio + emulator (AOSP API 29)
- JADX-GUI
- MobSF
- Burp Suite

02 Lab Setup (continued)

- Frida + Objection
- Build and install the ACEP Tech Academy app

03 OWASP Mobile Top 10 (2024)

10 topics

- M1 Improper Credential Usage
- M2 Inadequate Supply Chain Security
- M3 Insecure Authentication/Authorization
- M4 Insufficient Input/Output Validation
- M5 Insecure Communication
- M6 Inadequate Privacy Controls
- M7 Insufficient Binary Protections
- M8 Security Misconfiguration
- M9 Insecure Data Storage
- M10 Insufficient Cryptography

04 Static Analysis

5 topics

- Decompiling the APK with JADX
- Reading AndroidManifest.xml
- Automated scanning with MobSF
- Hardcoded credentials
- Hardcoded API keys

05 Dynamic Analysis (ADB)

4 topics

- SQL injection login bypass
- Insecure deep links
- Sensitive data in Logcat
- Unauthenticated debug mode

06 Local Storage Attacks

3 topics

- Plaintext password storage
- World-readable external storage
- Unprotected certificate export

07 Manifest & Configuration

4 topics

- Exported broadcast receivers
- allowBackup
- Cleartext traffic
- Debuggable build + unencrypted database

08 Network Security Testing

4 topics

- Burp Suite interception
- Insecure WebView SSL bypass
- SSL/TLS certificate pinning
- Bypassing SSL pinning with Frida & Objection

09 Reporting

3 topics

- Vulnerability validation and retesting
- Remediation guidance
- Writing a full VAPT report

Ready to start Android App Pentesting?

Free live demo: Saturday 6:00 – 7:00 PM · Sunday 11:00 AM – 12:00 PM · Sunday 7:00 – 8:00 PM (IST). Reply **DEMO** on WhatsApp.

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YOUR INSTRUCTOR

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Every class is taught by **Chaitanya Eshwar Prasad**. He doesn't teach from slides: he teaches what he does every week, investigating real cybercrime cases and finding real vulnerabilities.

He started exploring technology in 7th class and was hunting security bugs by 10th. Today he supports cybercrime investigations as a forensic investigator, holds national records for his work, and has taught thousands of students on campus and through his Telugu YouTube channel.

7+	100+	33K+	9+
Years in cybersecurity	Bugs reported & secured	YouTube learners	Campuses as guest speaker

Anisetti Chaitanya Eshwar Prasad
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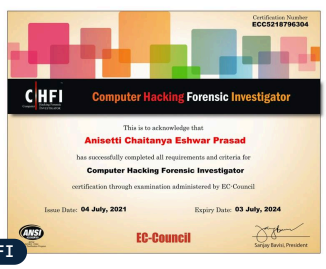
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