

Mobile Security Testing

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Duration -3 days

1. Introduction to Mobile Security Testing

- Importance of Mobile Application Security Testing
- Differences Between Web and Mobile Application Security
- Security Challenges in Mobile Applications
- Attack Surface in Mobile Applications

2. Mobile Application Architecture & Security Considerations

- Understanding Mobile App Components (Frontend, Backend, APIs)
- Mobile OS Security Models (Android vs. iOS)
- Security Implications of Mobile App Permissions
- Secure Data Storage and Communication in Mobile Apps

3. Overview of OWASP Mobile Top 10 Security Risks

- **Improper Platform Usage**
- **Insecure Data Storage**
- **Insecure Communication**
- **Insecure Authentication**
- **Insufficient Cryptography**
- **Insecure Authorization**
- **Client Code Quality Issues**
- **Code Tampering**
- **Reverse Engineering**
- **Extraneous Functionality**

4. Mobile Device Footprinting & Scanning (Practical)

- Gathering Information on Mobile Devices (OS, Apps, Network)
- Identifying Open Ports & Services Running on a Mobile Device
- Using Reconnaissance Tools to Map Mobile Attack Surface

5. Mobile Application Security Testing Process

- Pre-Engagement Activities and Scoping
- Understanding Threat Models for Mobile Applications
- Identifying and Mapping Attack Vectors

6. Mobile Application Vulnerability Identification

- Identifying Risks in Mobile Apps Based on OWASP Guidelines

- Analyzing Security Misconfigurations in Mobile Apps
- Reviewing Real-World Mobile Security Incidents

7. Exploiting Android ADB with PhoneSploit (Practical)

- Understanding Android Debug Bridge (ADB) and its Security Risks
- Exploiting ADB Misconfigurations with PhoneSploit
- Identifying Weaknesses and Securing ADB Against Attacks

8. Securing Mobile Devices with Antivirus & Security Tools (Practical)

- Overview of Mobile Security Solutions
- Scanning and Detecting Malware on Mobile Devices
- Best Practices for Securing Android and iOS Devices

9. Best Practices for Secure Mobile Application Development & Testing

- Security in the Mobile App Development Lifecycle
- Secure Coding & Testing Strategies for Developers and Testers
- Security Considerations for iOS and Android Apps
- Guidelines for Continuous Security Testing in Mobile Development