Android Application Vulnerability Assessment Report (Hack2Hire)

1. Android Application Name :	InsecureBankv2
2. Application Package Name:	com.android.insecurebankv2
3. Application Server:	No Application Server Used (Only Local Analysis Performed)
4. Number of Activities :	10 Activities
5. Local Database :	Sqlite
6. Access Permission :	ALL
7. Auditor Name:	Manish Gupta

Detailed Report:

Name: Local Analysis (Static Code Analysis)

Risk Rating: Medium (CVSS: 6-7)

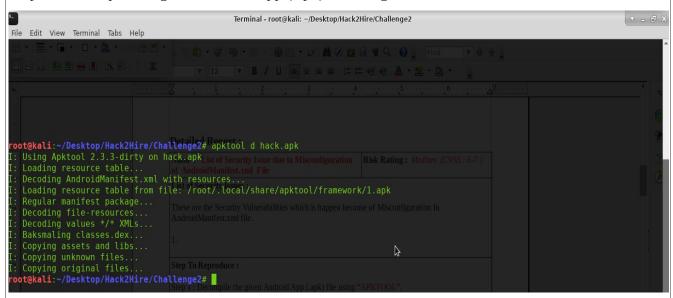
List of Security Issues:

A. These are the Security Vulnerabilities which is happen because of Misconfiguration In AndroidManifest.xml file.

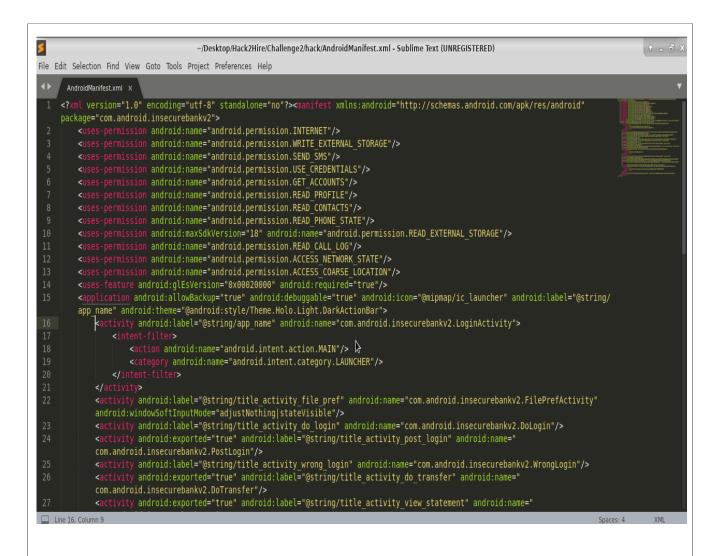
- 1. Insecure Content Provider access
- 2. Unnecessary Access Permission
- 3. Activities exported="true".
- 4. Application Data Backup: allowBackup="true"
- 5. Application Debugging : debuggable="true"
- B. These are the Security Vulnerabilities which is happen because of Source code Related issue.
- 1. Hardcoded secrets (Open the converted JAR file using JD-GUI)

Step To Reproduce:

Step 1 : Decompile the given Android App (.apk) file using "APKTOOL".



Step 2: Now open the "AndroidManifest.xml" File using any text editor. Which Present is in Decompile Directory of APK.



Note: One Can see that because of Improper Configuration in AndroidManifest.xml file, A lot of Security Issues are present.

Name: Local Analysis (Dynamic (Run Time) Analysis) | Risk Rating: Medium (CVSS: 6-7)

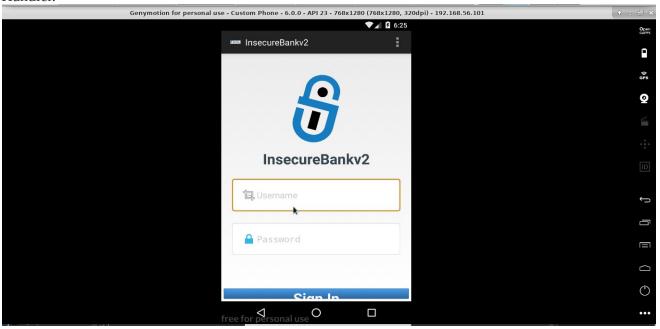
List of Security Issues:

These are the Security Vulnerabilities which is happen because of Insecure Coding Practices and Weak Cryptography Encryption .

- 1. Local Encryption issues
- 2. Root Detection and Bypass
- 3. Insecure Webview implementation
- 4. Sensitive Information in Memory
- 5. Insecure Logging mechanism
- 6. Insecure SDCard storage
- 7. Application Debuggable

Step To Reproduce:

Step 1: Install the Application in "Android Emulator" and Perform Security Analysis Using "ADB" Handler.



Step 2: Perform Security Analysis using these ADB command.

- 1. adb connect (For Connect to Android Emulator)
- 2. adb logcat (For log analysis)
- 3. adb shell (For Access File System)
- 4. adb shell am (For Activity Manager)
- 5. Sqlitebrowser for Reading database information (Local Database).

Thank You