## **REPACKAGING ATTACK:**

- The android apps are generally targeted for repackaging attack, in which an attacker downloads the already published android app from any third party play store and modifies the code of the apk by injecting malicious code. Attacker then re-compiles it signs it (digital signature of the author) of the app and hence republishes it.
- In this case, the malicious code injected deletes the contacts on the machine once the repackaged app is launched.

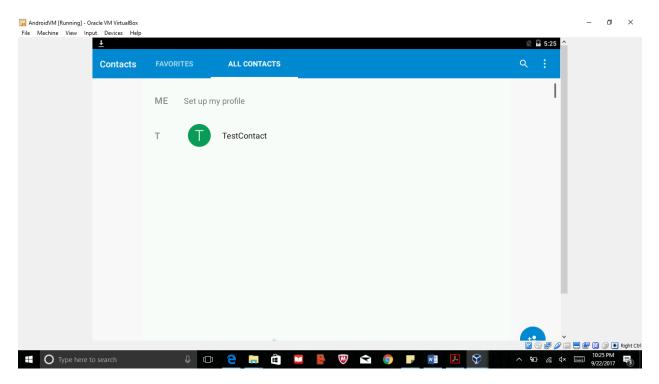


Figure shows initial contacts of the system (Android VM).

• In this case app that is installed from apkpure.com is "Calendar App". The code is disassembled and the xml file is modified.

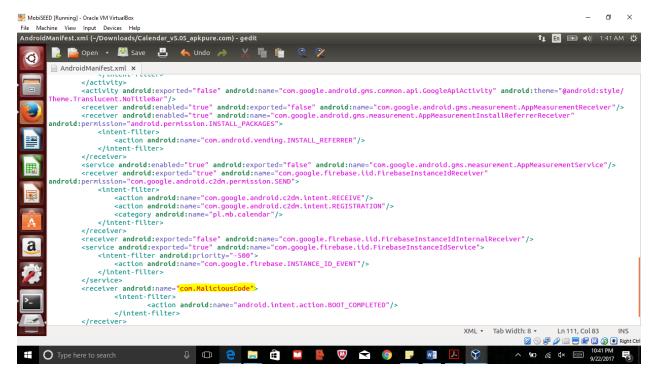


Figure shows the malicious class is added by modification in xml file.

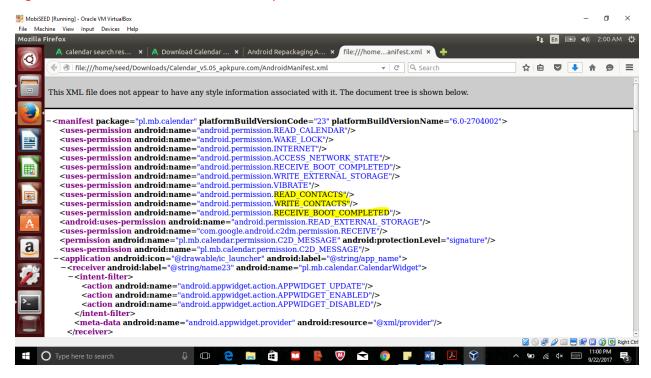


Figure that permissions are given to the app, by appropriately modifying the xml file.

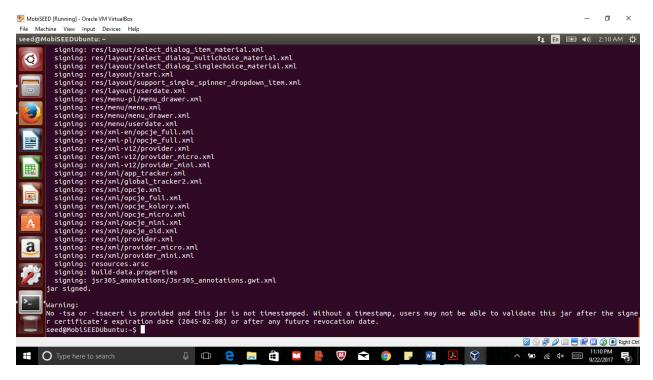


Figure shows attacker's getting signature from keystore and signing the app.

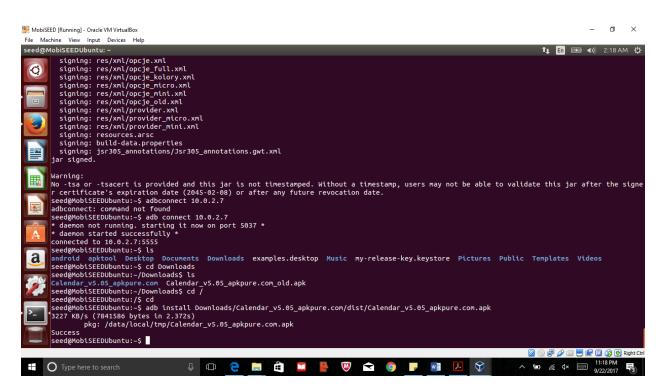


Figure shows successful installation of repackaged app on the Android VM.

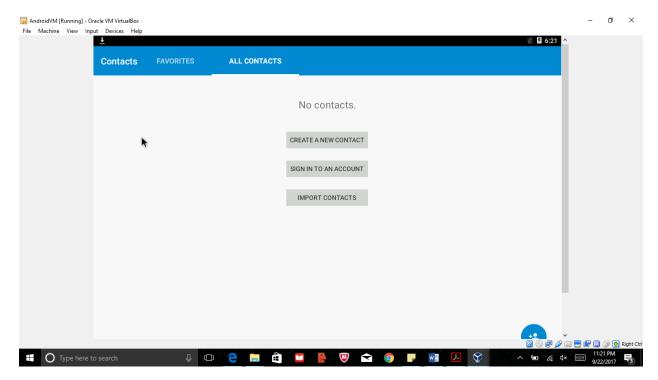


Figure shows that the contacts have been deleted on the Android VM's end after installing the app and launching it.