

LAB - 8

Aim:- Re-compiling the apk using apktool kit

Definition:

Re-compiling an APK using APKToolkit refers to the process of taking a previously decompiled Android application (APK) — including its resources, manifest, and smali code and packaging it back into a working .apk file. This is commonly done after making changes to the app's contents, like modifying layouts, strings, or functionality in the smali code.

```
(kali㉿kali)-[~/Desktop]
$ ls
DivaApplication  DivaApplication.apk  Osi.ig  zphisher
```

```
(kali㉿kali)-[~/Desktop]
$ apktool b DivaApplication -o beta.apk
I: Using Apktool 2.7.0-dirty
I: Checking whether sources has changed ...
I: Smaling smali folder into classes.dex ...
I: Checking whether resources has changed ...
I: Building resources ...
W: aapt: brut.common.BrutException: brut.common.BrutException: Could not extract resource: /prebuilt/linux/aapt_64 (defaulting to $PATH binary)
I: Copying libs... (/lib)
I: Building apk file...
I: Copying unknown files/dir ...
I: Built apk into: beta.apk

(kali㉿kali)-[~/Desktop]
$ ls
DivaApplication  DivaApplication.apk  Osi.ig  beta.apk  zphisher
```

```
(kali㉿kali)-[~/Desktop]
$ keytool -genkey -V -keystore my-release-key.keystore -alias sallu -keyalg RSA -keysize 2048 -validity 10000
Enter keystore password:
Re-enter new password:
Enter the distinguished name. Provide a single dot (.) to leave a sub-component empty or press ENTER to use the default value in braces.
What is your first and last name?
[Unknown]: abc
What is the name of your organizational unit?
[Unknown]: abc
What is the name of your organization?
[Unknown]: abc
What is the name of your City or Locality?
[Unknown]: abc
What is the name of your State or Province?
[Unknown]: abc
What is the two-letter country code for this unit?
[Unknown]: 07
Is CN=abc, OU=abc, O=abc, L=abc, ST=abc, C=07 correct?
[no]: yes

Generating 2,048 bit RSA key pair and self-signed certificate (SHA384withRSA) with a validity of 10,000 days
    for: CN=abc, OU=abc, O=abc, L=abc, ST=abc, C=07
[Storing my-release-key.keystore]
```

Conclusion :-

Re-compiling an APK using APKToolkit is the final step in modifying Android apps. After making changes to a decompiled project (resources or smali code), you use apktool b to rebuild it into a valid APK. The rebuilt APK must then be signed before it can be installed on an Android device. This is a powerful process, useful for debugging, customizing apps, or studying how Android apps work — always within legal and ethical boundaries.