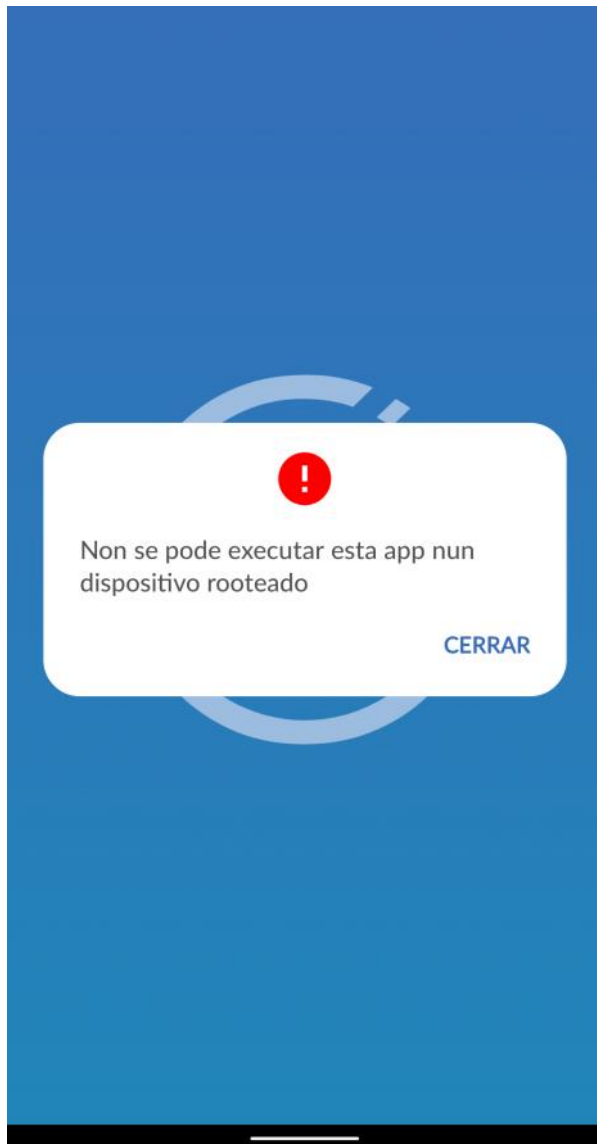


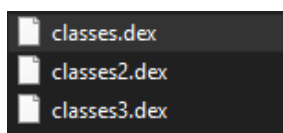
## Sergas Bypass Detect Root device

- Today I have download the new Sergas app, but I see this error:



- I have a custom ROM, not a rooted phone and I require to use this app.  
With my simple knowledge of android pentesting, I found a way to bypass this error.

- The first that we need to do is change the .apk extension to .zip and see how many dex files we have.



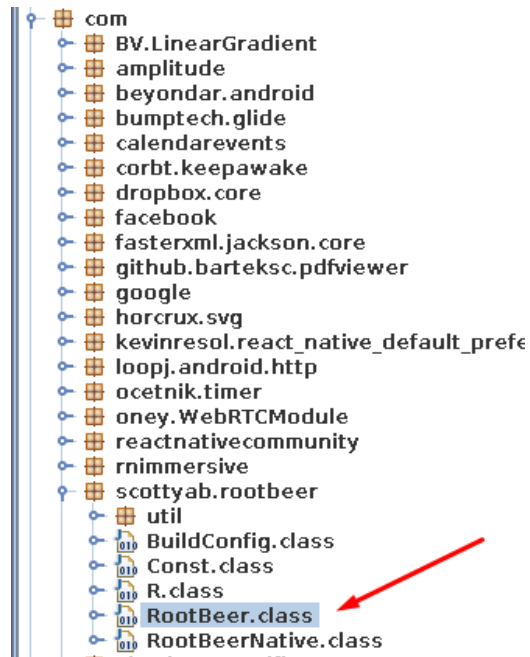
- We have 3 .dex files, let's make one .jar to read de code later with jd-gui:

```
d2j-dex2jar.sh -f -o output_sergas_jar.jar sergas.apk
```

- Use jd-gui to read java code:

Open .jar file generated in previous step.

- Probably one of these functions in method *isRooted()* return me a false-positive



```
public boolean isRooted() {
    return detectRootManagementApps() || detectPotentiallyDangerousApps() || checkForBinary(Const.BINARY_SU)
}
...
```

- Decompile and modify the .smali file:

```
apktool d -r sergas.apk -o sergas_decompiled
```

- Solution is so simple, we only need to modify *RootBeer.smali*:

**smali\_classes2/com/scottyab/rootbeer/RootBeer.smali 135x26**

- Find function *isRooted()* and remplace 0x1(true) to 0x0(false):

```
1071 .method public isRooted()Z
1072     .locals 1
```

...

```

1063      :cond_0
1064      const/4 v0, 0x0
1065      goto_0
1066      return v0
1067      .end method
1068
1069
1070

```

**- Compile app and sign app:**

```

apktool b sergas_decompiled/ -o pwnsergas.apk
java -jar uber-apk-signer-1.2.1.jar -a pwnsergas.apk

```

**- This is the result:**



- As you can see it's very simple, and doesn't require a bigger acknowledgment of reversing engineering.

**:: DISCLAIMER by KR4DD ::**

All content above is for education and entertainment. I am not responsible for the misuse of the content by third parties, nor for its misinterpretation.

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*Special thanks to:*

<https://ibotpeaches.github.io/Apktool/>

<https://forum.xda-developers.com/t/guide-index-how-to-modify-an-apk.4208093/#post-84170215>

<https://medium.com/secarmalabs/bypassing-androids-rootbeer-library-part-1-a5f93918660d>

<https://github.com/patrickfav/uber-apk-signer>