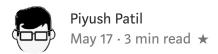
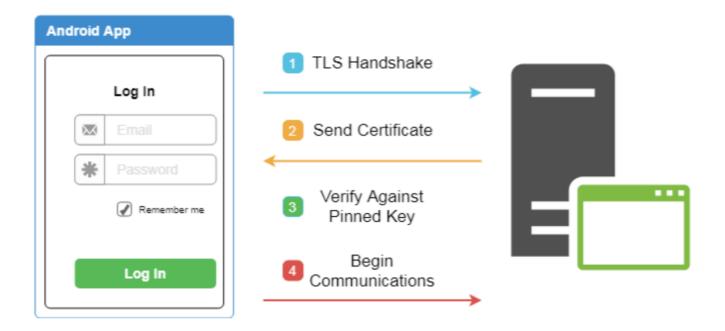
X



Mobile Application Pentesting-Part6



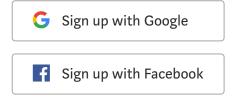




Bypassing Certificate Pinning

SSL Pinning is a technique that we use in the client side to avoid man-in-the-middle attack by validating the server certificates again even after SSL handshaking. The developers embed (or pin) a list of trustful certificates to the client application during development, and use them to compare against the server certificates during runtime.

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Decompile the apk

Find the methods responsible for validating the trustness of the cert

Patch the method by simply removing the code lines

. . .

Method 2: Using XPosed Framework

Xposed is a framework that allows users to easily apply add-ons (called Modules) to the ROM. Rather than flashing a new ROM to get a specific feature, you can use Xposed to add individual features to whatever ROM you're using, or even just the stock ROM.

Installation:-

Download the app from https://www.xda-developers.com/xposed-framework-hub/

Run it and find an application named SSL pinning bypass(SSLunpinning), install it

. . .

Method 3: Using Objection

Objection is a runtime mobile exploration toolkit, powered by Frida. It was built with the aim of helping assess mobile applications and their security posture without the need for a jailbroken or rooted mobile device.

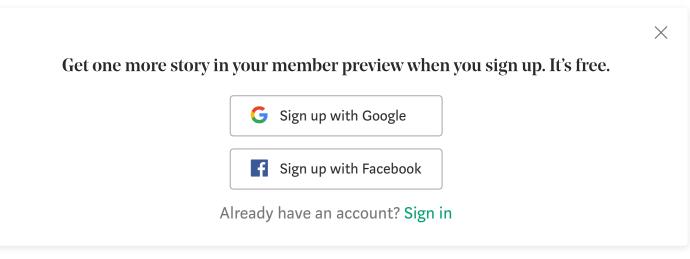
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then, objection patchapk -s com.xyz.android.apk This will create a new apk which is hooked Push the apk file or install the application by \$ adb push < local file path > < remote file path > or \$ adb install (path to apk) Now run, objection -g (new apk file name) explore -q Where, -g stands for "Name of the Frida Gadget/Process to connect to" explore stands for "objection exploration REPL" thus if the file is successfully injected run "android sslpinning disable"



https://github.com/frida/frida/releases

In our case(Nexus Android), we used frida-server-12.4.0-android-arm.xz.

you decompress it and rename decompress file as frida-server

Open terminal and type following commands:-

adb push frida-server /data/local/tmp/

adb shell "chmod 755 /data/local/tmp/frida-server"

adb shell

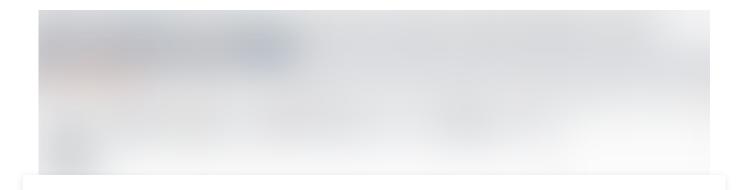
su

cd/data/local/tmp/

./frida-server

Keep the frida-server running on this terminal

Go to burp suite and generate burp certificate

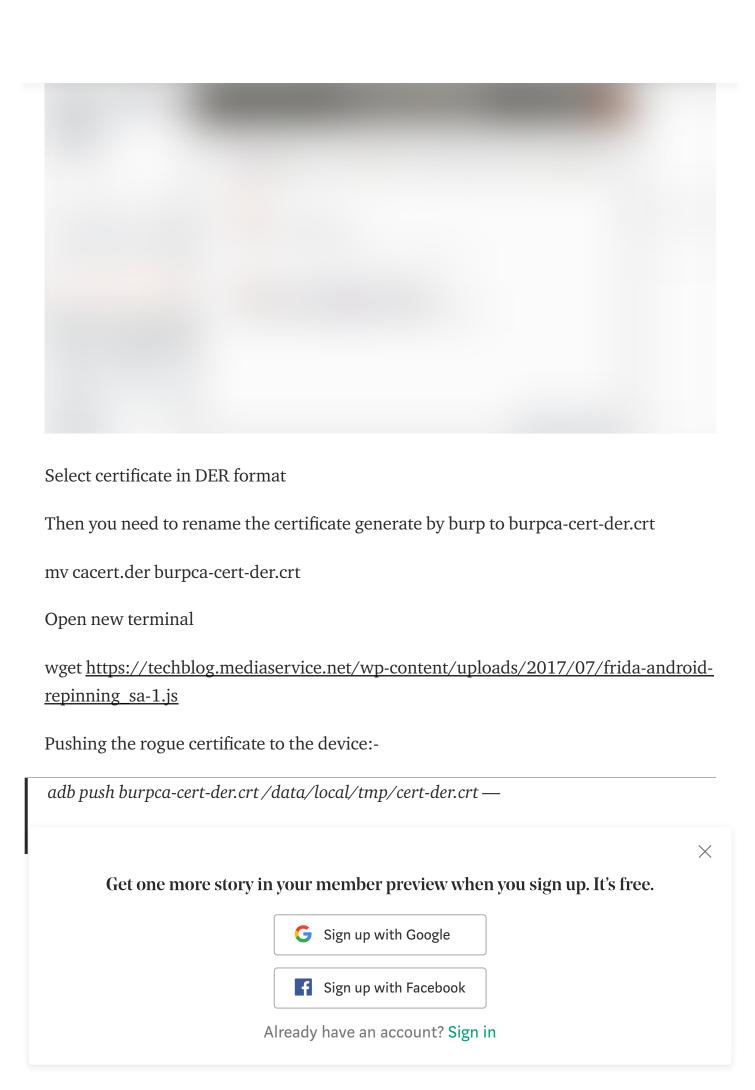


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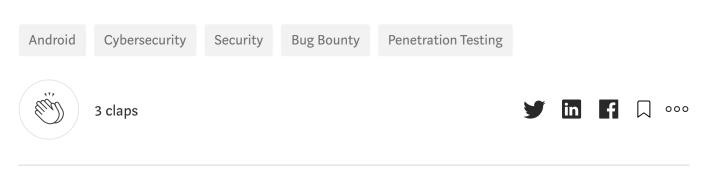
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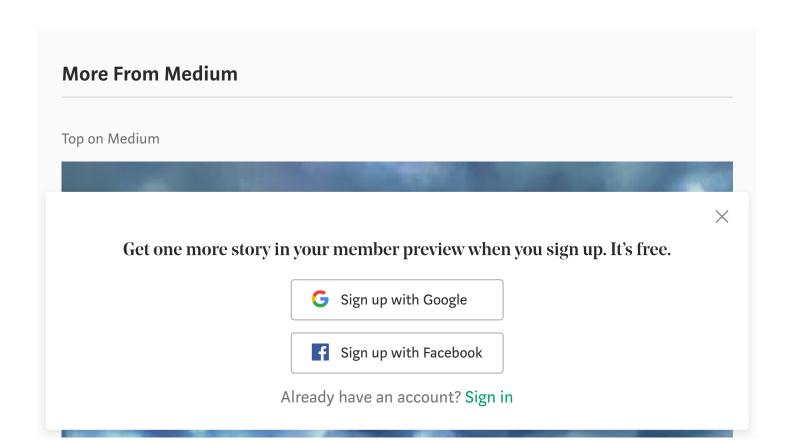
\$ frida-ps -Uai





Reverse Engineering, Penetration Testing (Web, Mobile, IoT, Network, Infra)

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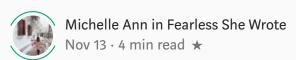
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Apparently I Was Nothing But A Woo-Girl



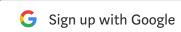


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