Lab – 2

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Course: CYT-230

Android & Burp Suite

I am using MobiSec (Linux) and Android x86 for this lab.

Note: I was half way there and I realized that I have to reinstall the android x86 in Read Write format.

Instruction

- Step 1: Install and run Burp Suit on Linux
- Step 2: Configure a proxy listener on the burp Suite
- Step 3: Adjusting Android Networking to Use the Burp Proxy
- Step 4: In the Android emulator browse a test http page (e.g., http://testfire.net/) and verify that that the http traffic is intercepted in the Burp Suite successfully.
- Step 5: In the Android emulator browse a secure https page (e.g., https://senecapolytechnic.ca/) and indicate that the Android emulator's browser generates an alert or warning.
- Step 6: Export the Burp Suite proxy's digital certificate and install it in the Android emulator.
- Step 7: In the Android emulator browse a secure https page (e.g., https://senecapolytechnic.ca/) and this time indicate that the Android emulator's browser does NOT generate any alerts or warnings.
- Step 8: Demonstrate and analyse the intercepted https traffic on the Burp Suite proxy.

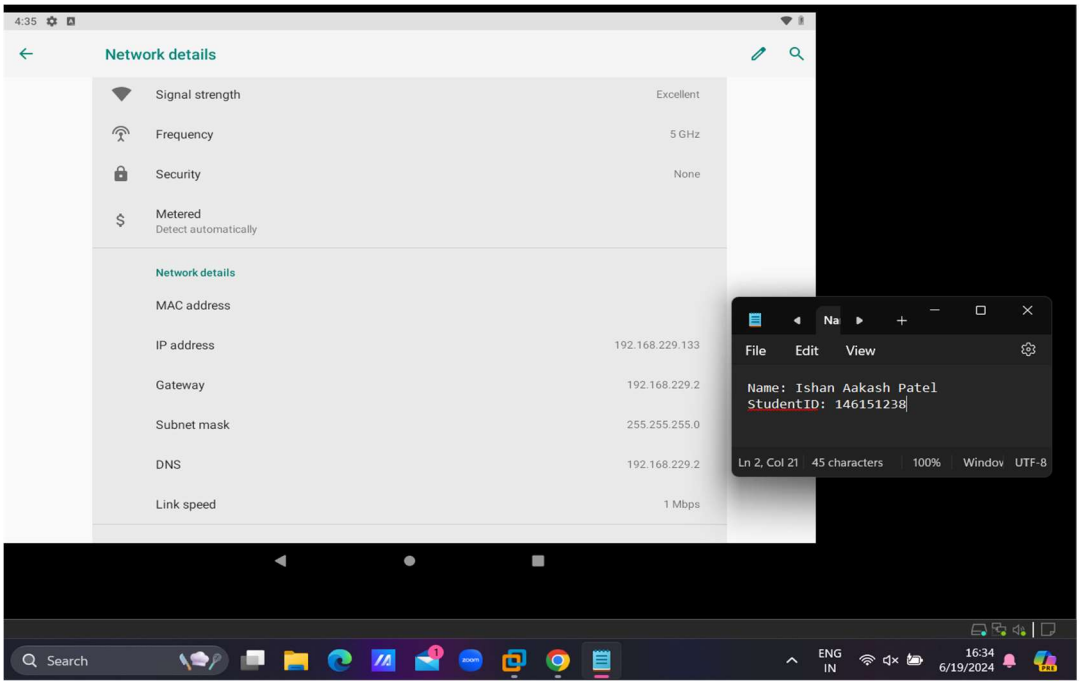


Figure 1 Android x86 IP: 192.168.229.133

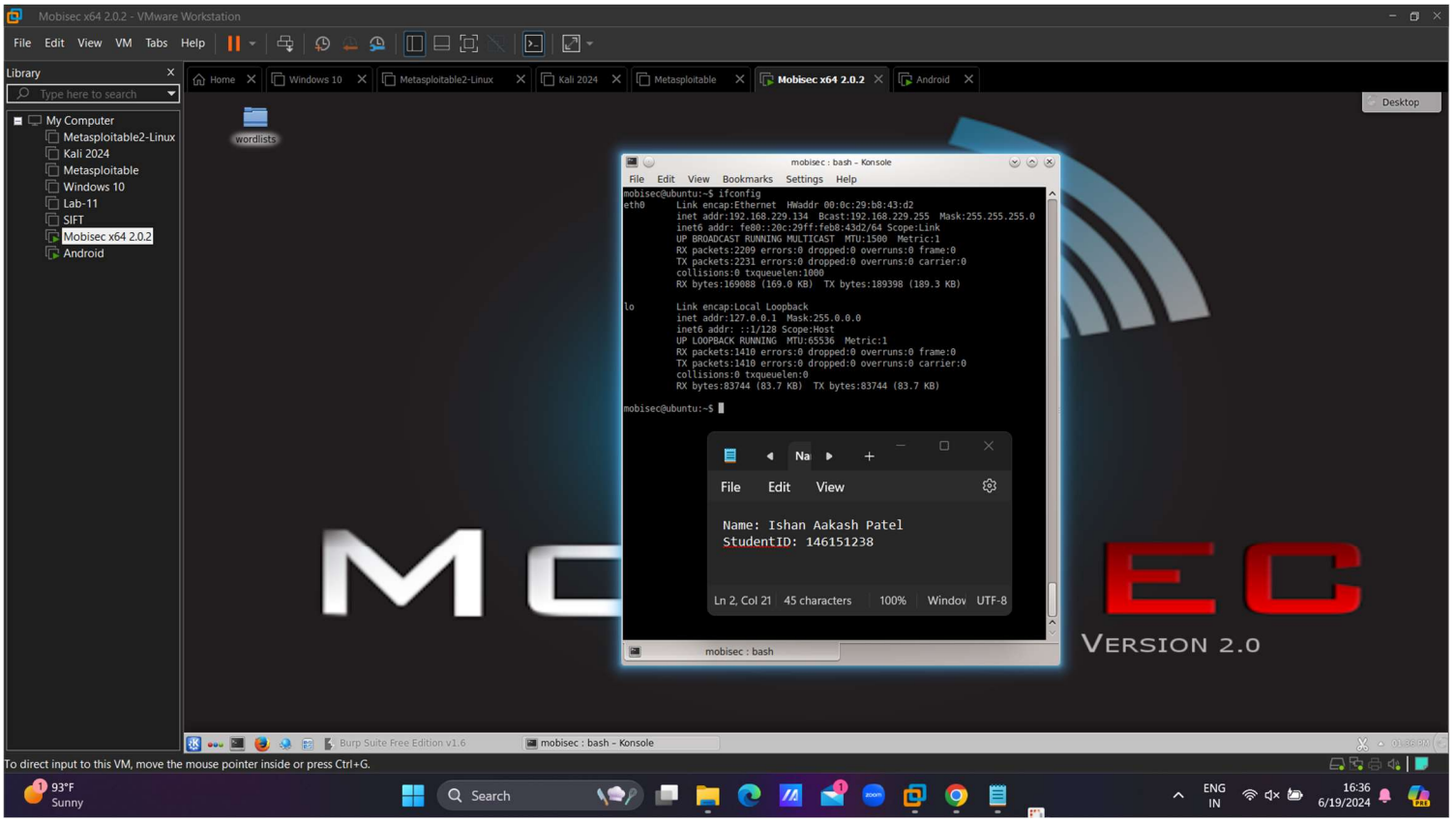


Figure 2 MobiSec IP: 192.168.229.134

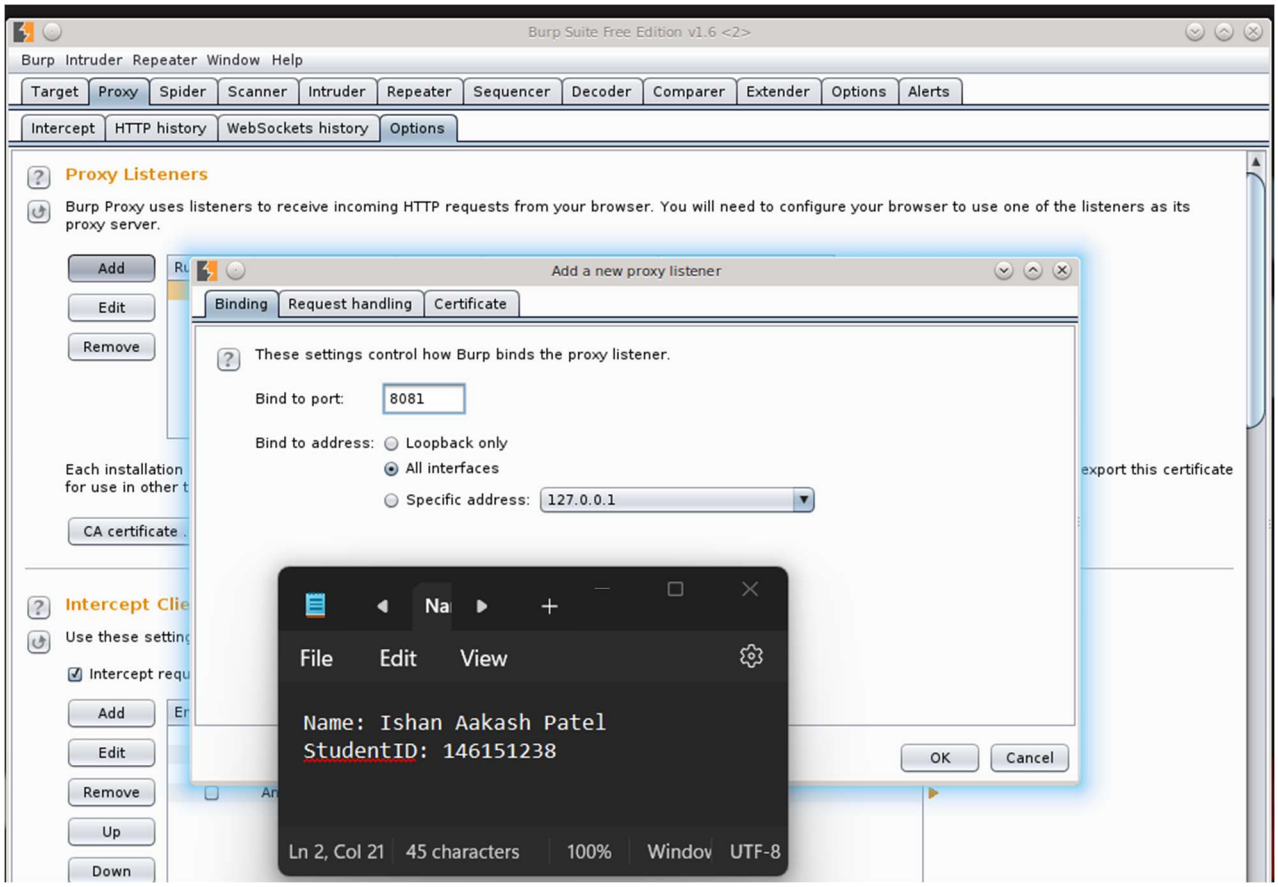


Figure 3 Burpsuite - Adding new Proxy

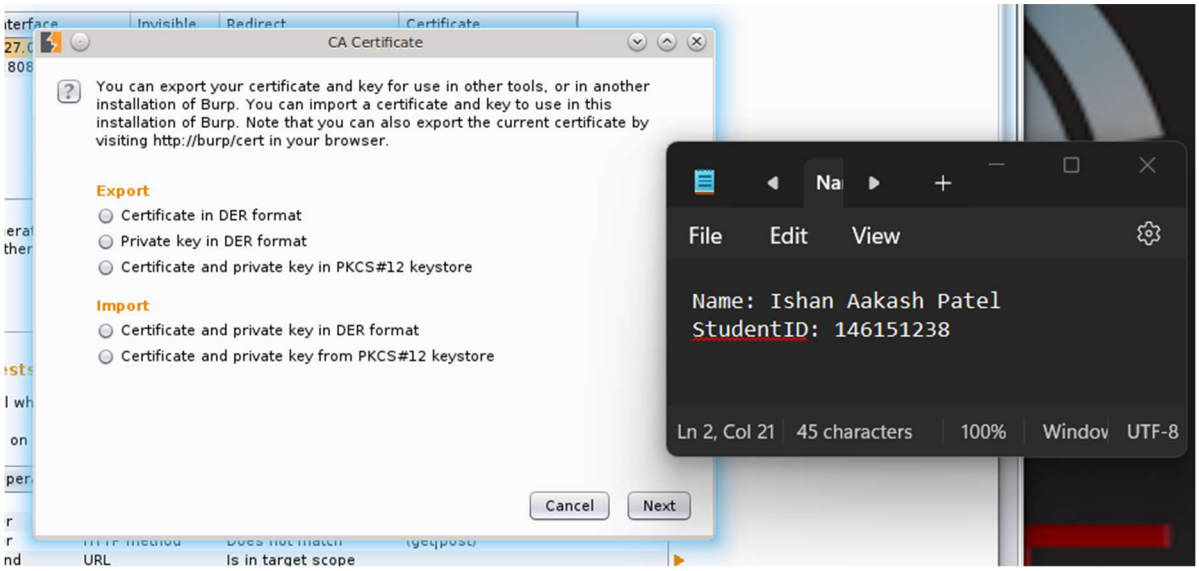


Figure 4 CA certificate (.DER format)

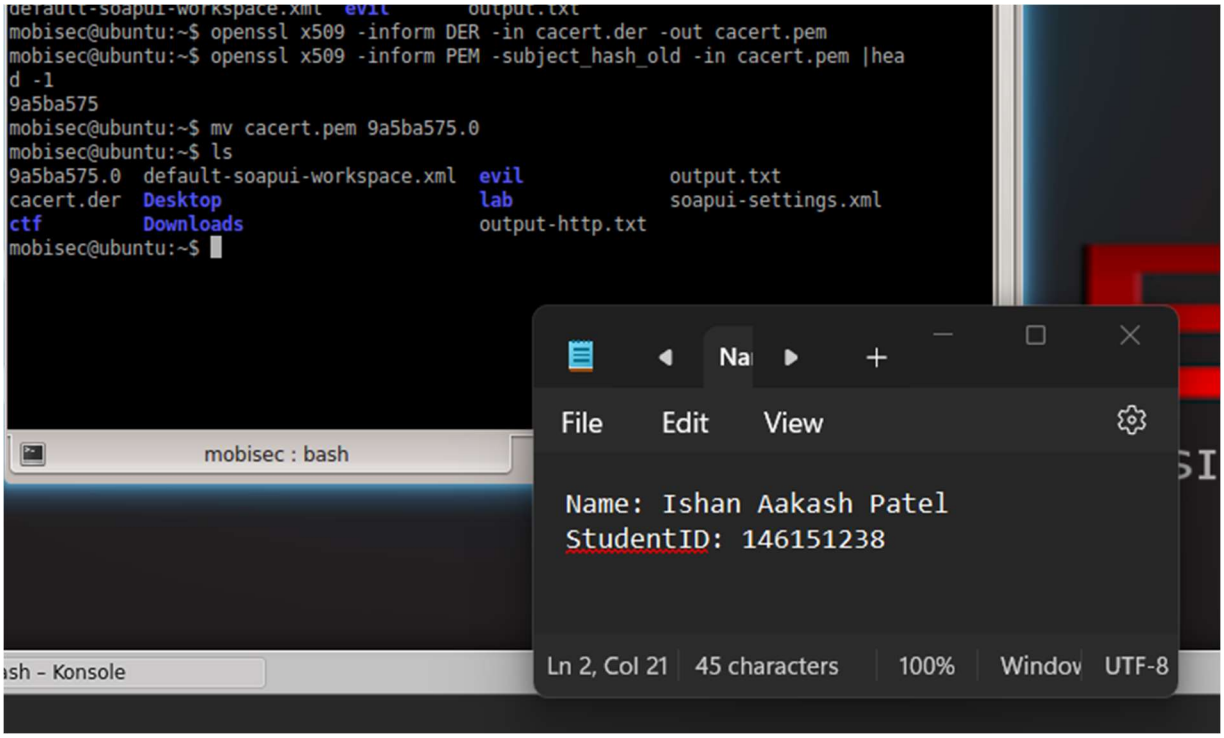


Figure 5 Converting the certificate in .PEM using openssl

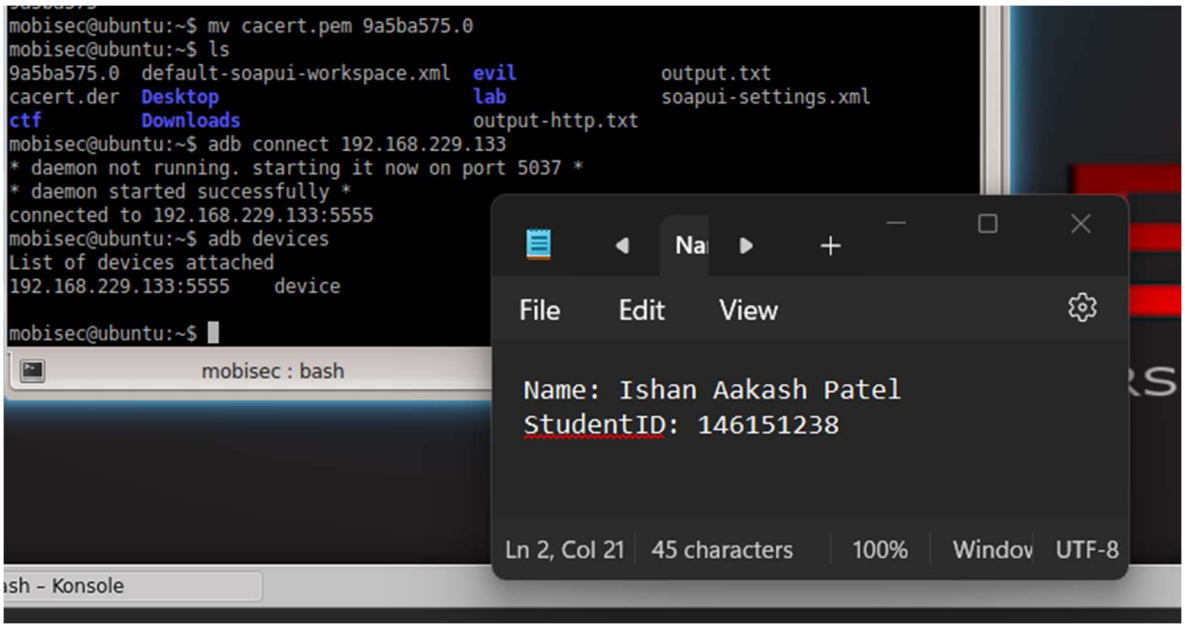


Figure 6 Connect with android x86 using adb tool

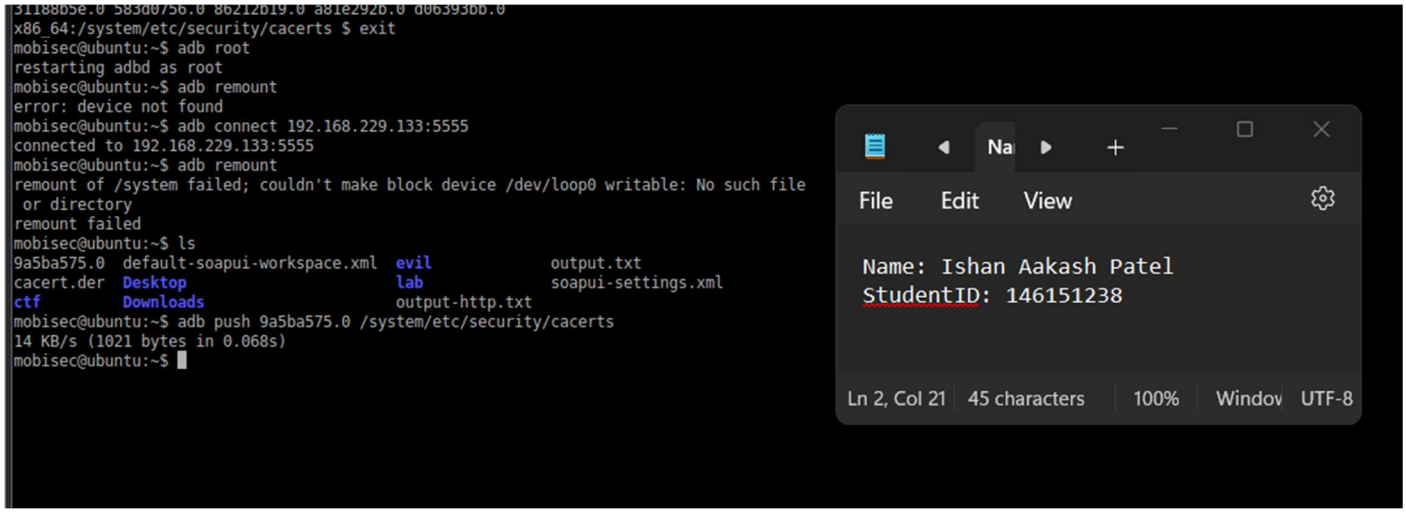


Figure 8 Using push command move the certificate to android

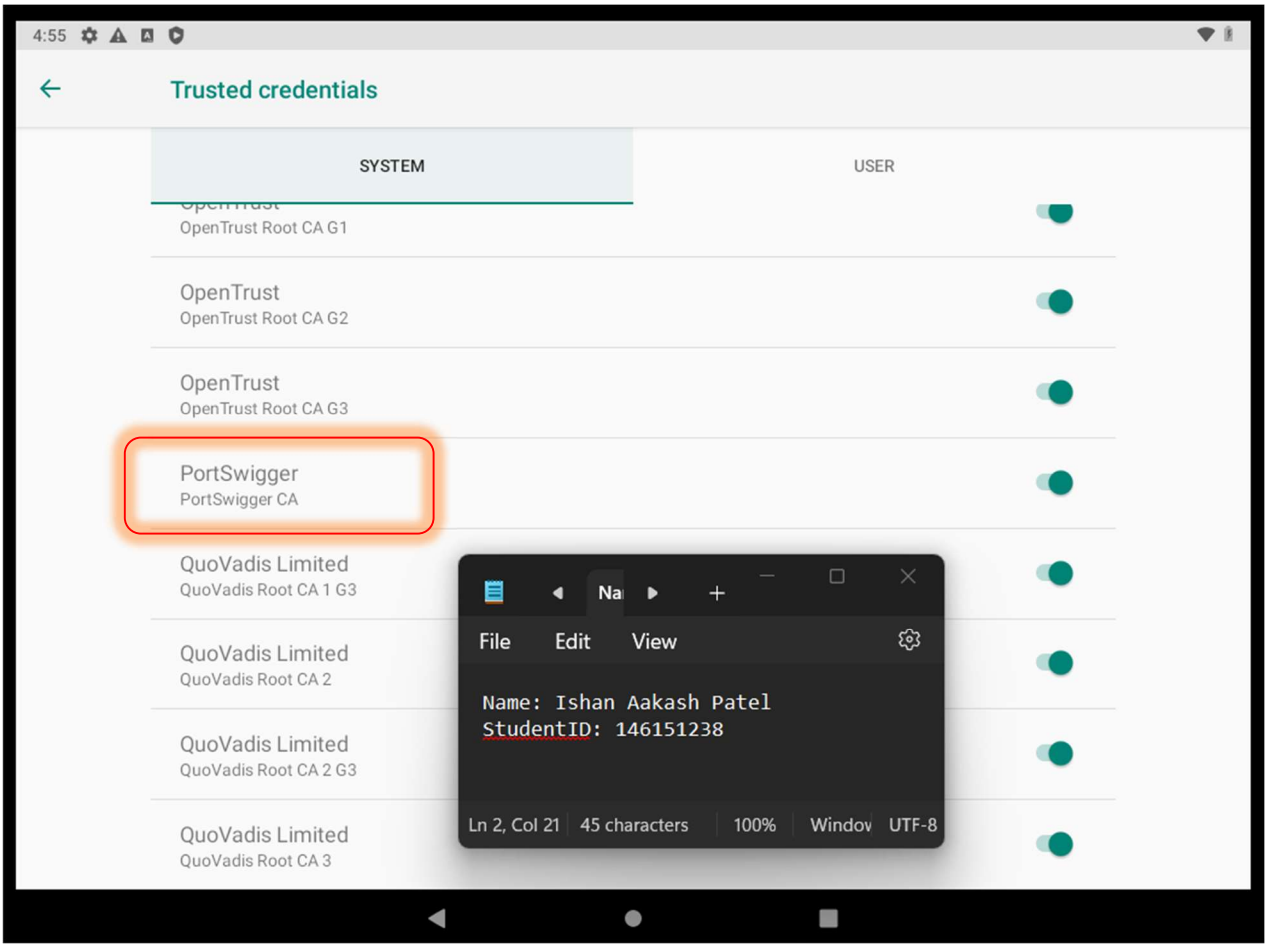


Figure 7.1 Burpsuite certificate installed successfully

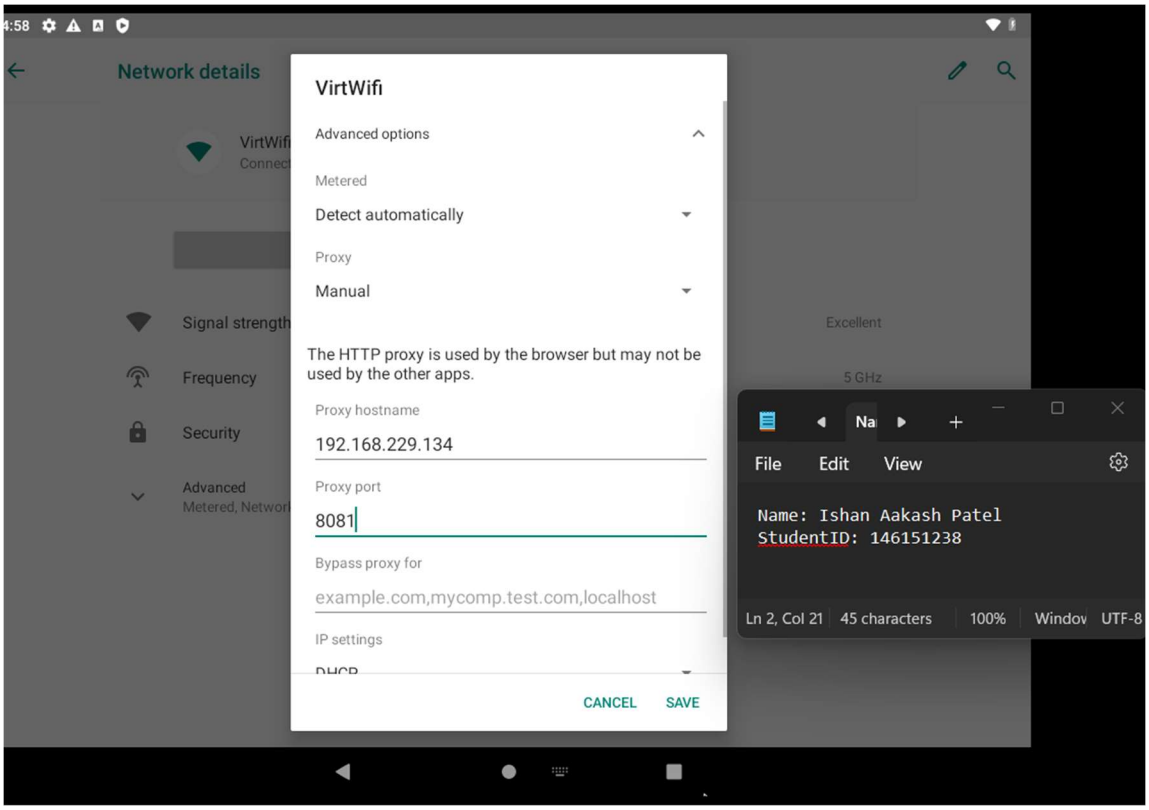


Figure 8 Set the Proxy in WIFI settings

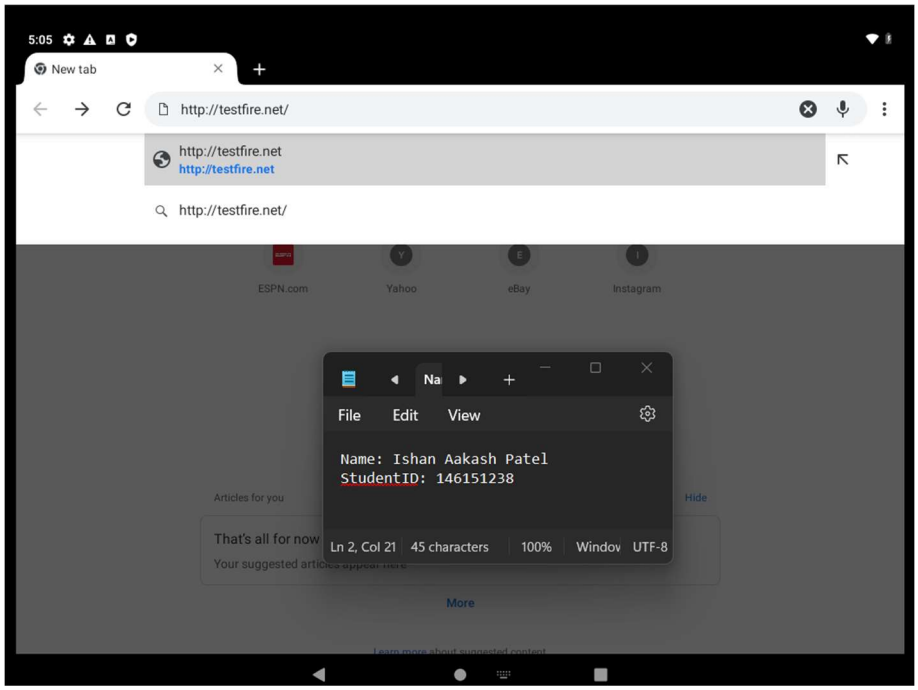


Figure 9 testing http traffic

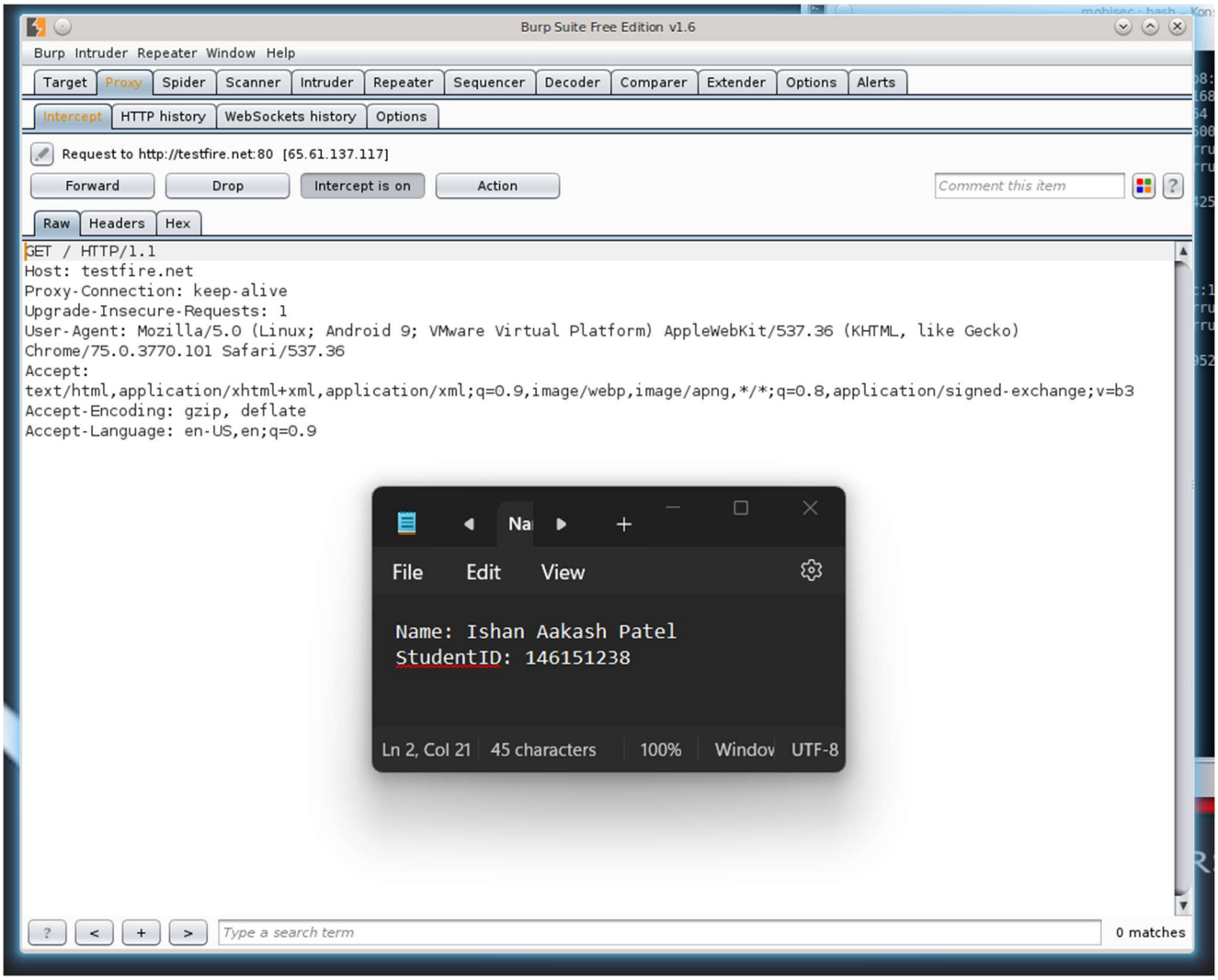
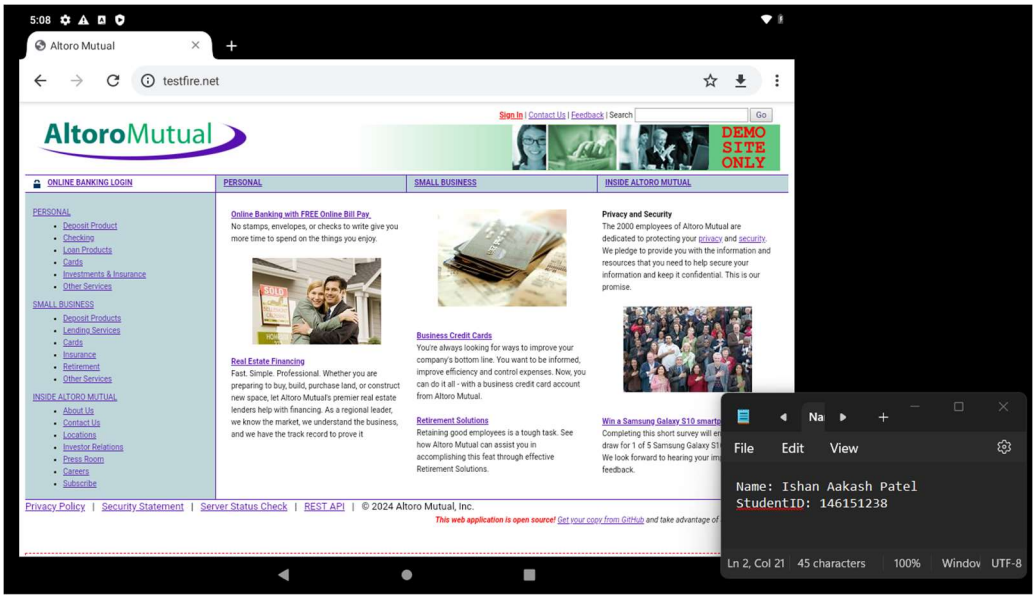


Figure 10 http request successfully intercepted



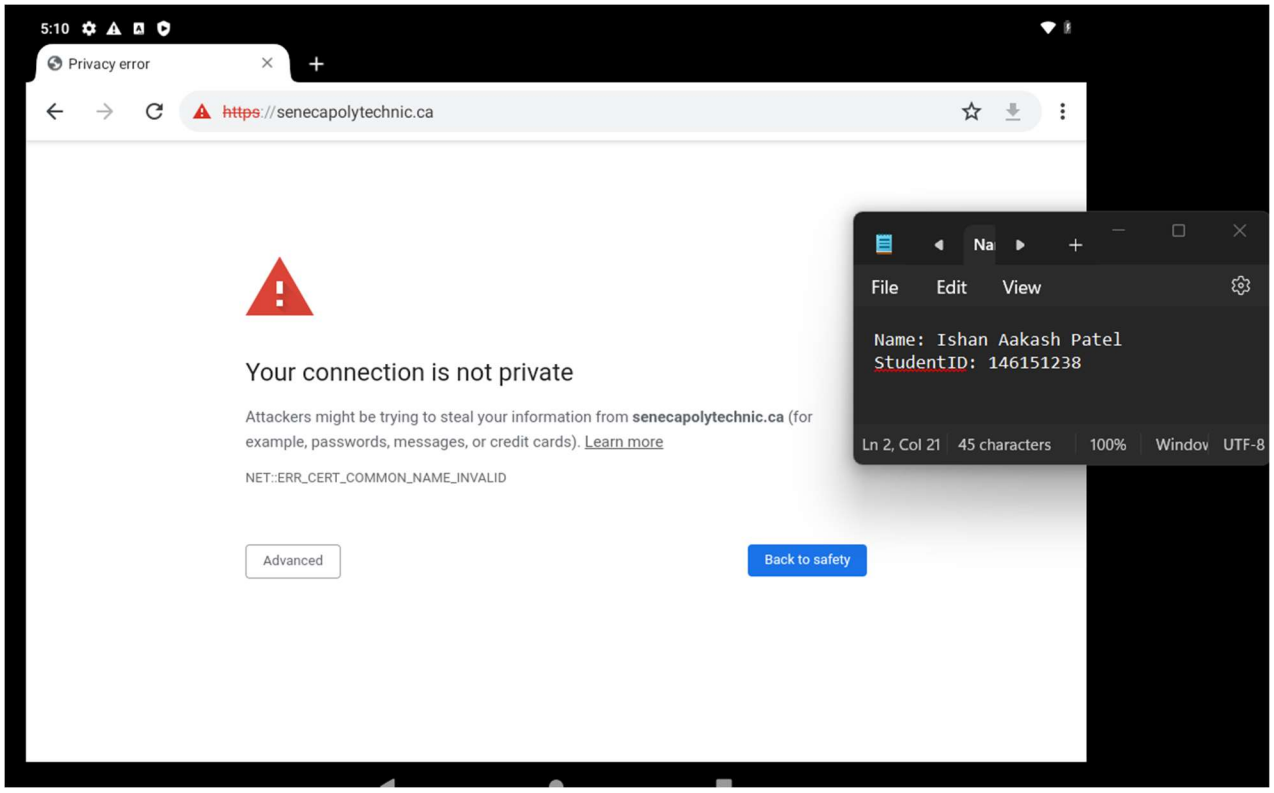
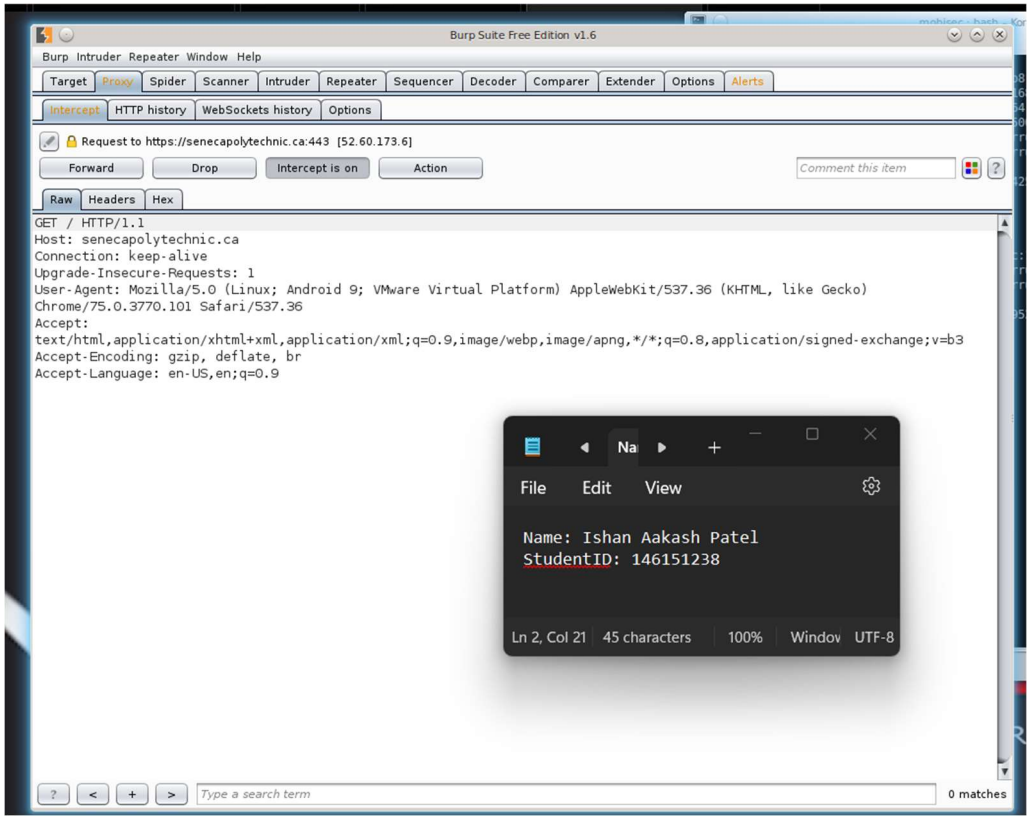


Figure 11 Warning for https request



https request

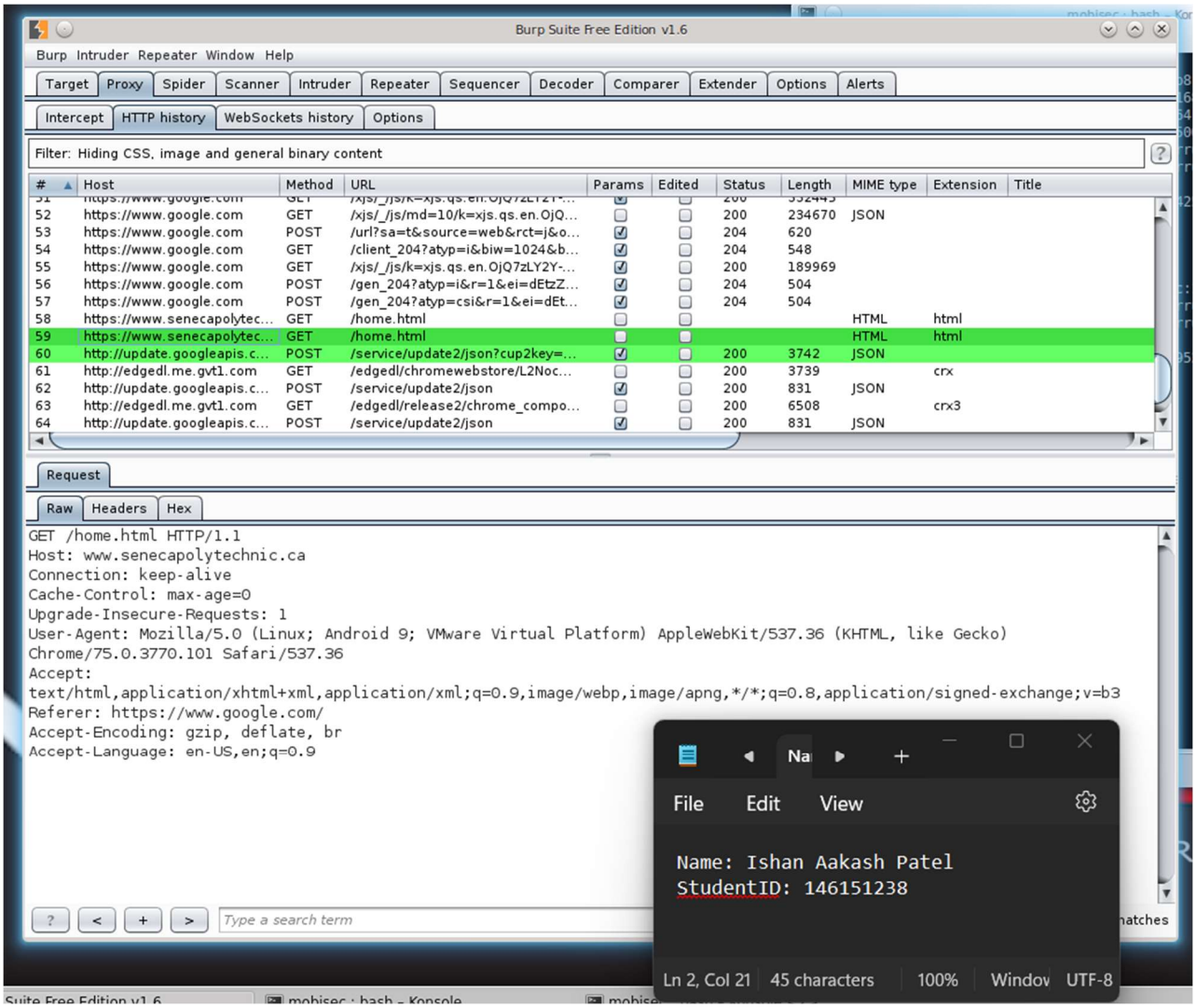


Figure 12 https traffic

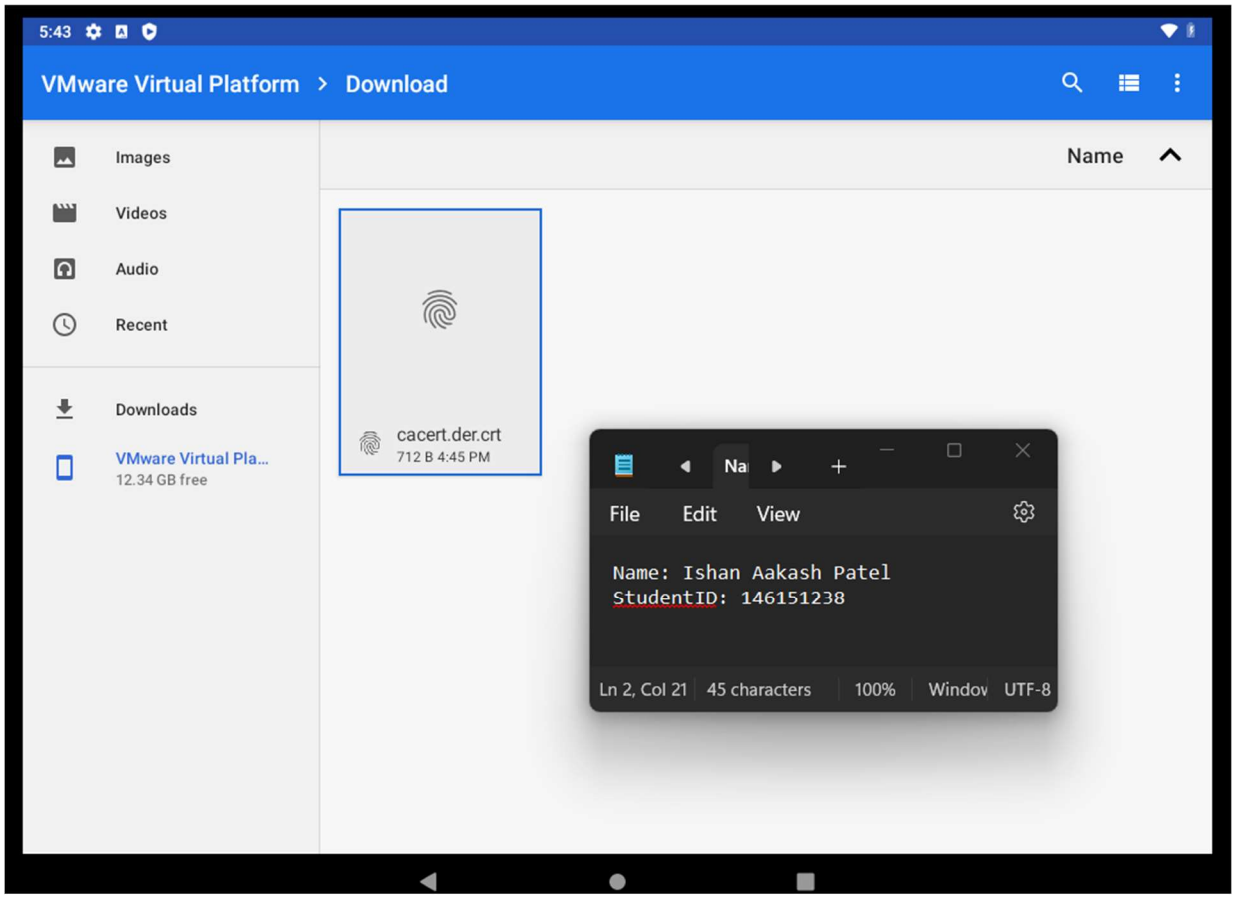


Figure 13 Installing the CA certificate to avoid the warning for https

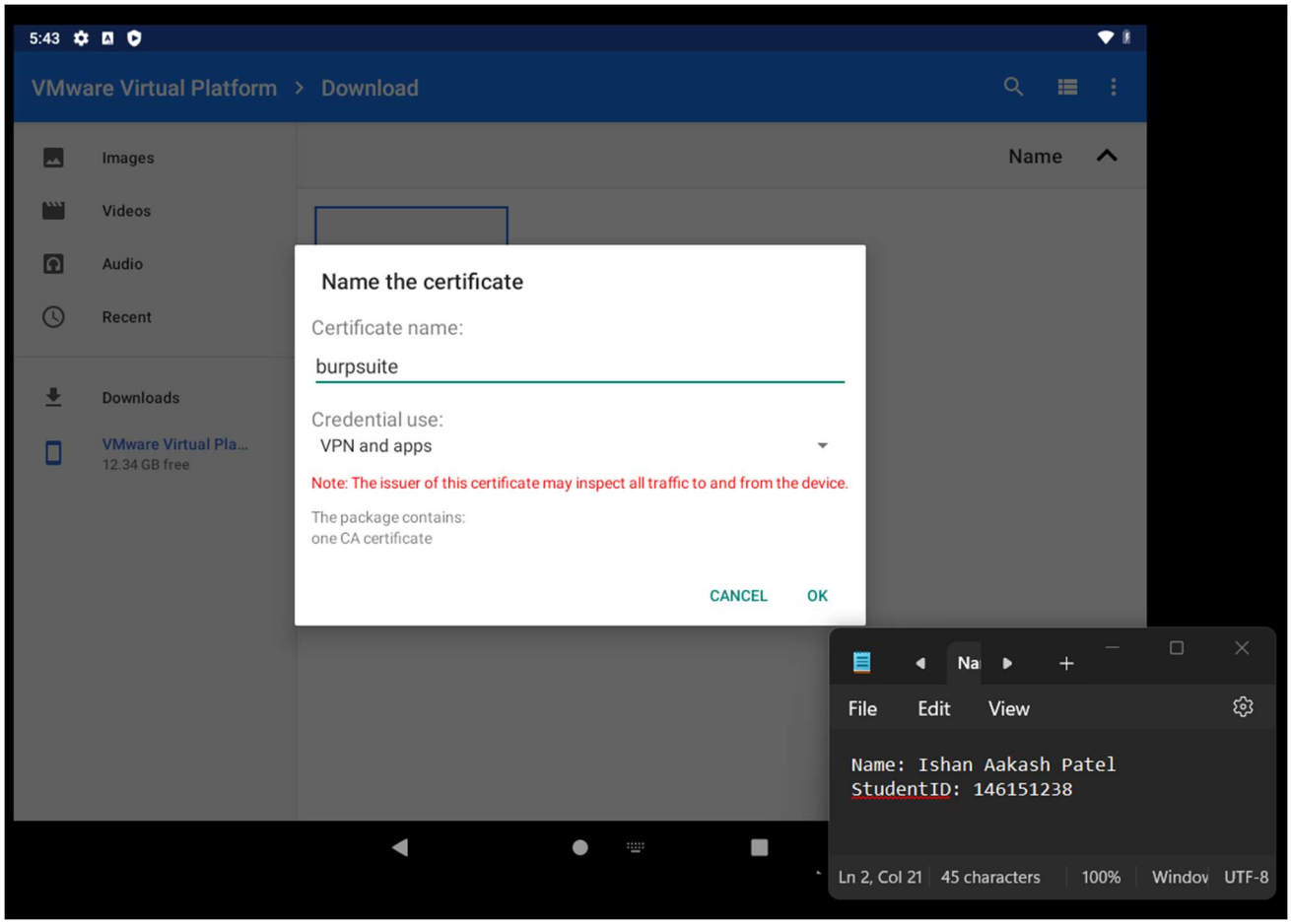


Figure 14 Installing the certificate

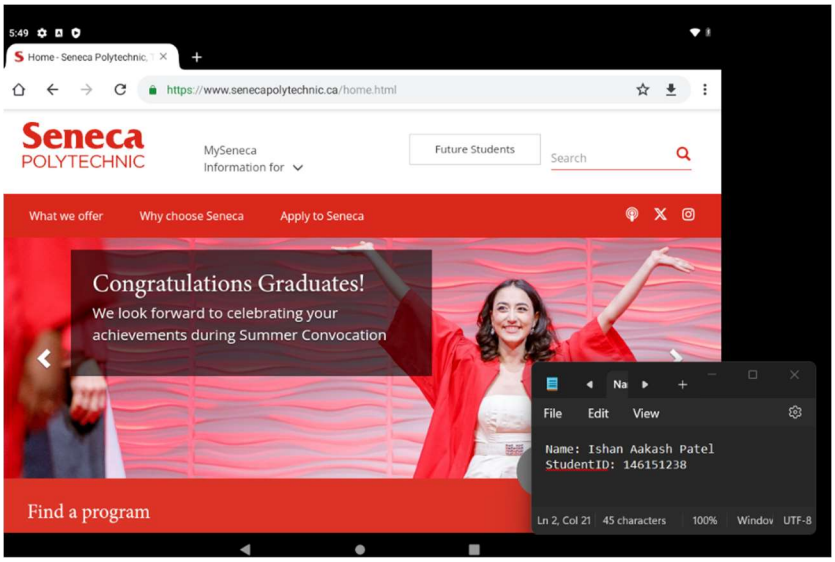


Figure 15 Warning removed

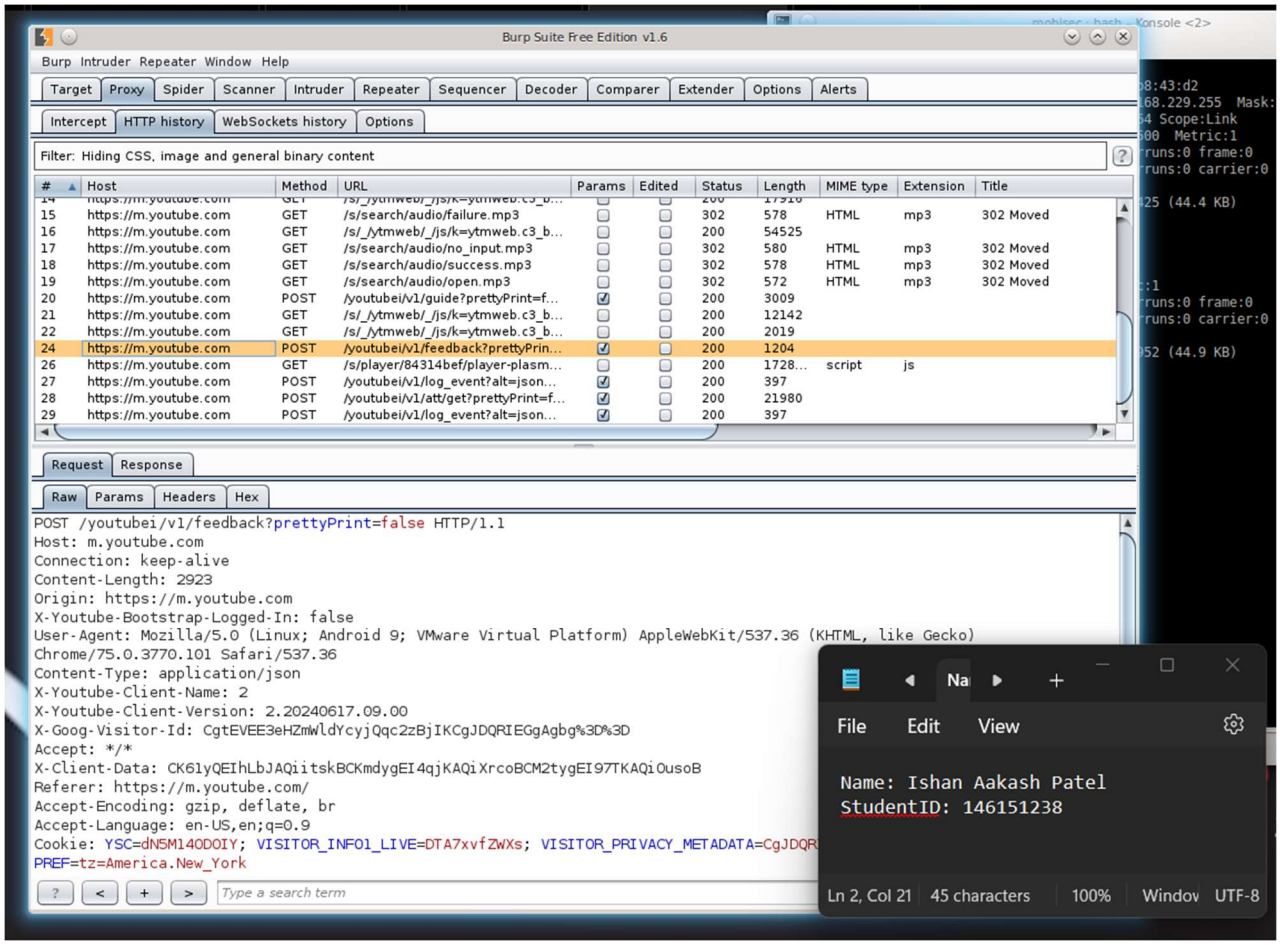


Figure 16 Other https requests