

Burpsuite Proxy Set-up for Android

2. Setting up Burpsuite proxy:

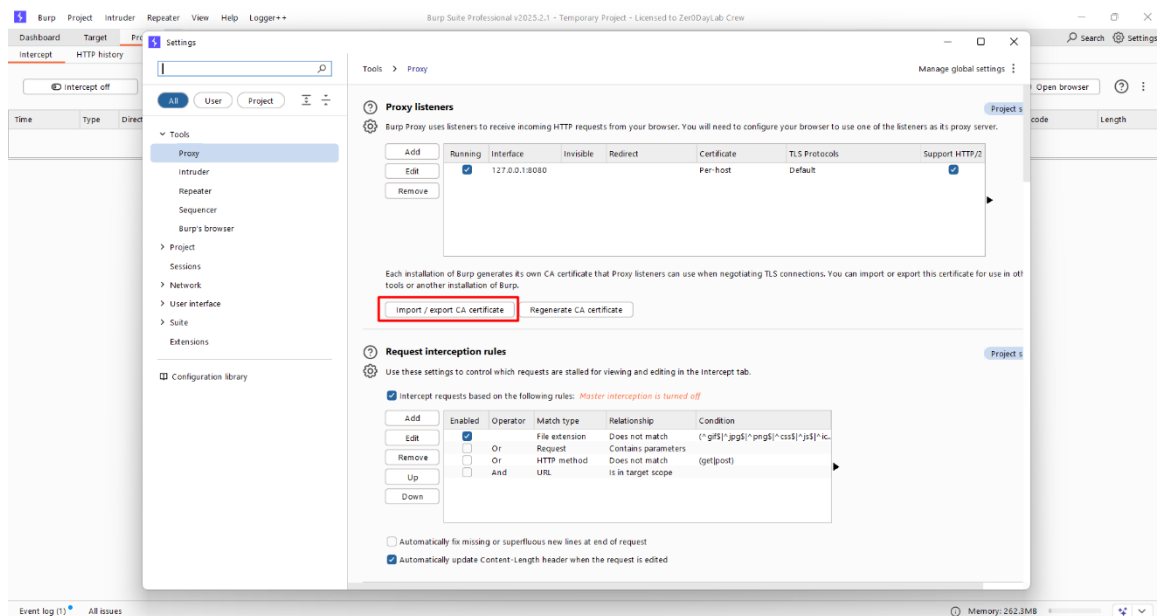
What is Burpsuite proxy?

Burp Suite is a popular web proxy tool used to intercept, inspect, and modify HTTP(S) traffic. Configuring it with an Android emulator allows you to analyze how an app communicates with its backend servers.

Steps for setting up proxy in the emulator:

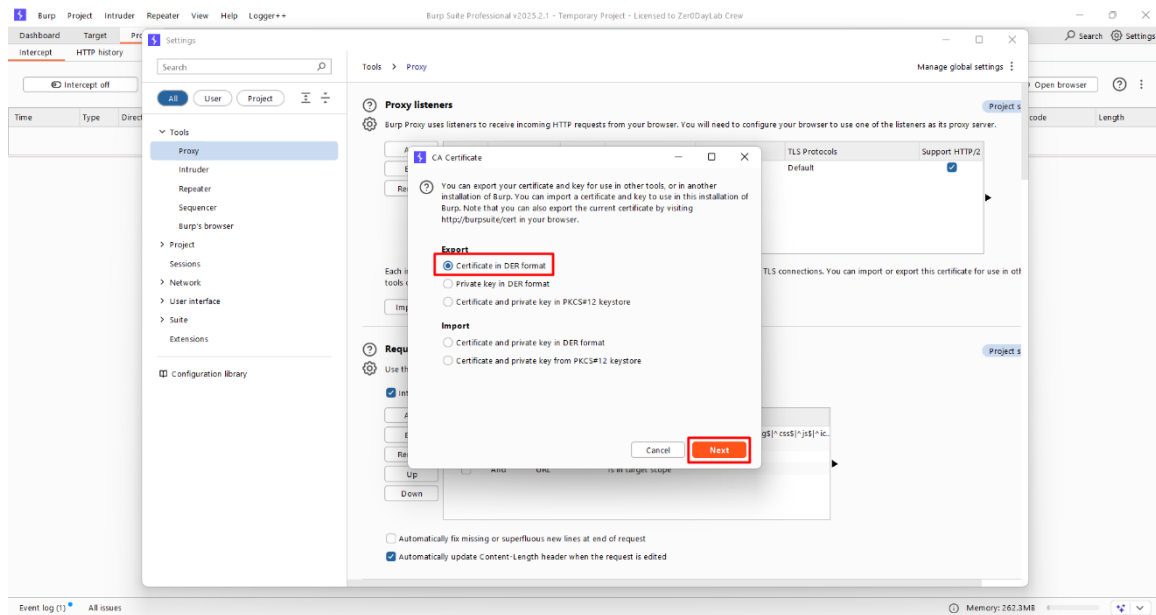
Step 1:

Assuming that Burpsuite is already installed. Open Burpsuite and navigate to proxy settings. In the proxy settings click on “import or export CA certificate” button.

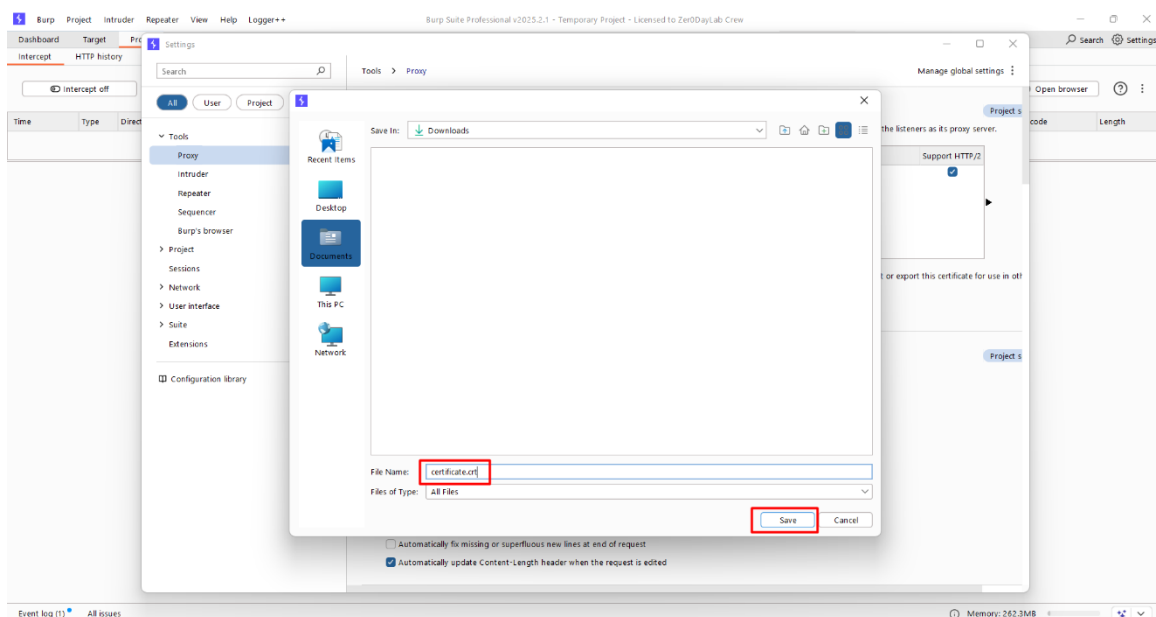


Step 2:

After that export the certificate in DER format and click next.

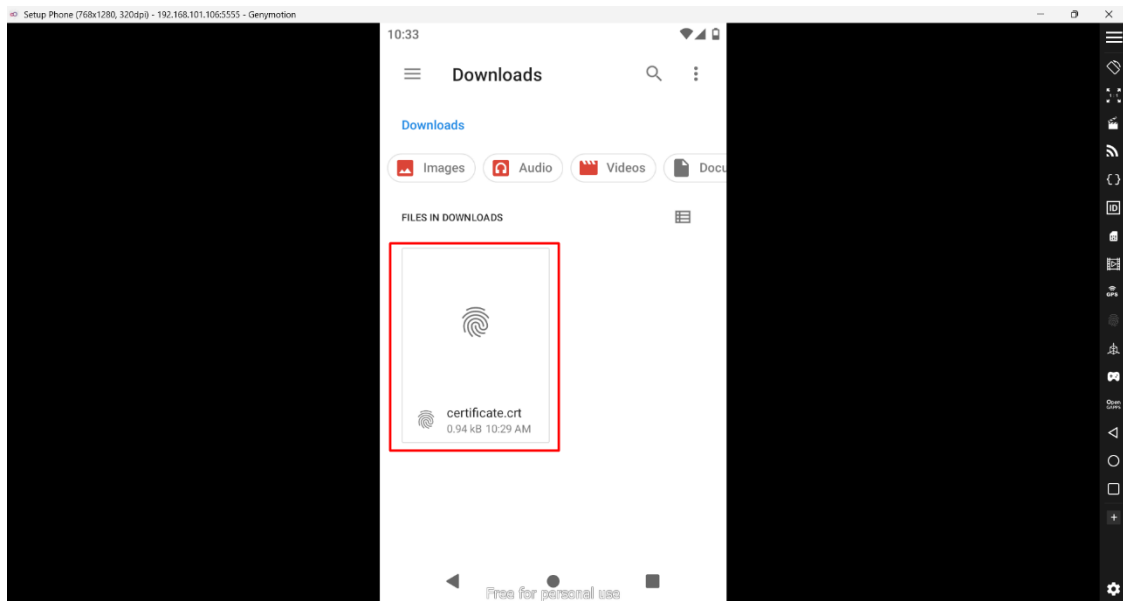
**Step 3:**

Then save the certificate with “.crt” extension in your computer. (This is done for the sake of android compatibility).

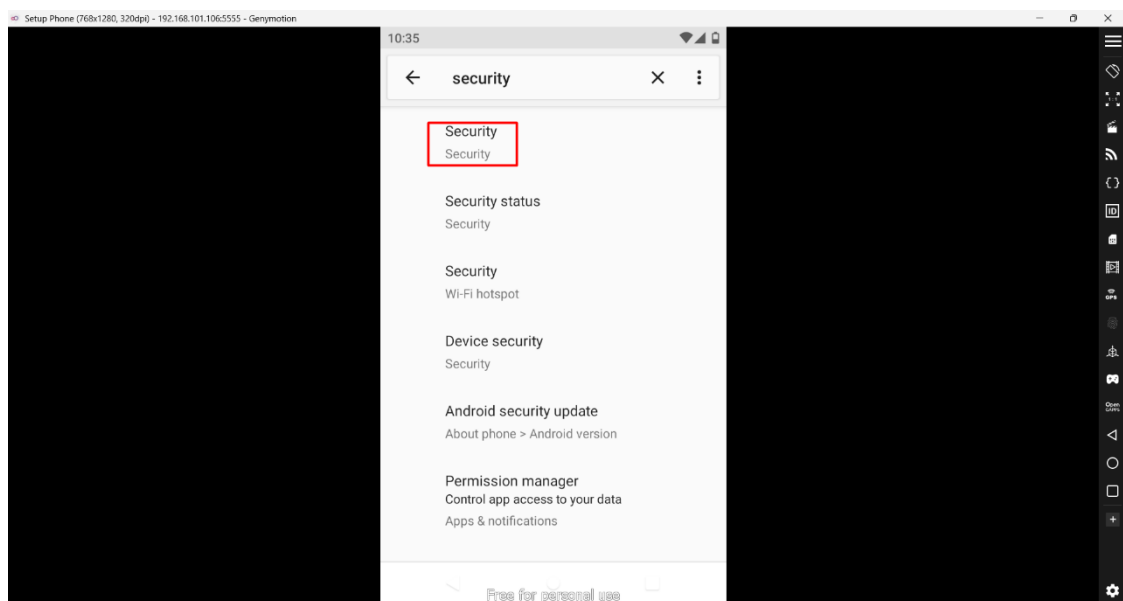
**Step 4:**

Now that CA certificate is exported with “.crt” extension. We need to push it to the emulator for installing in it.

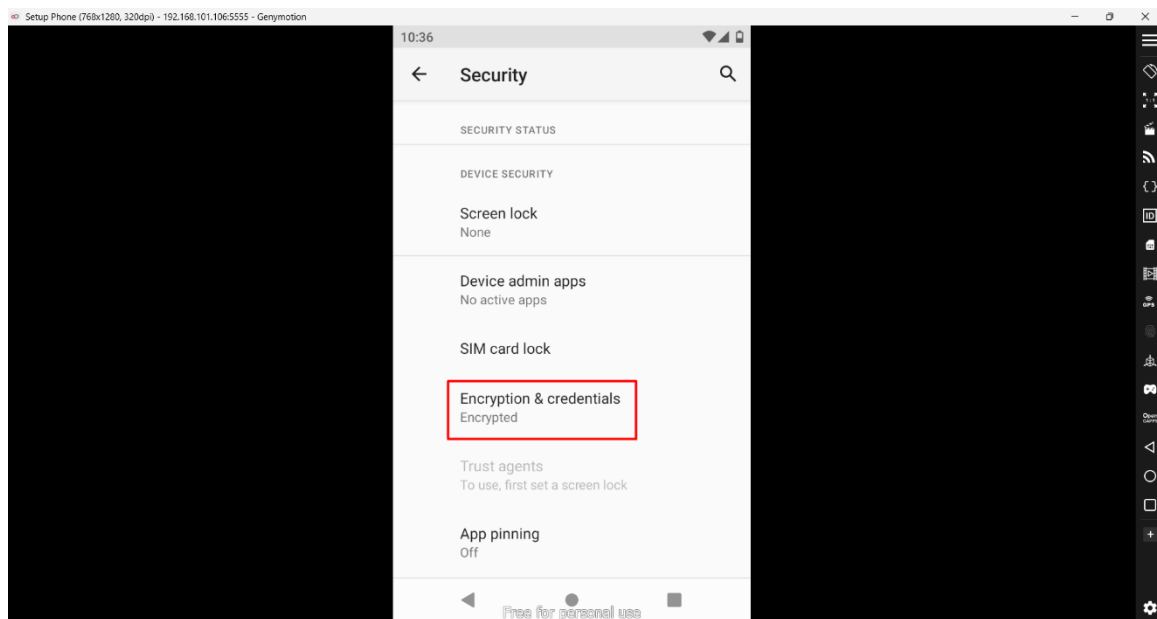
There are many ways to do this, a simple way is drag and dropping the certificate from your computer to the emulator

**Step 5:**

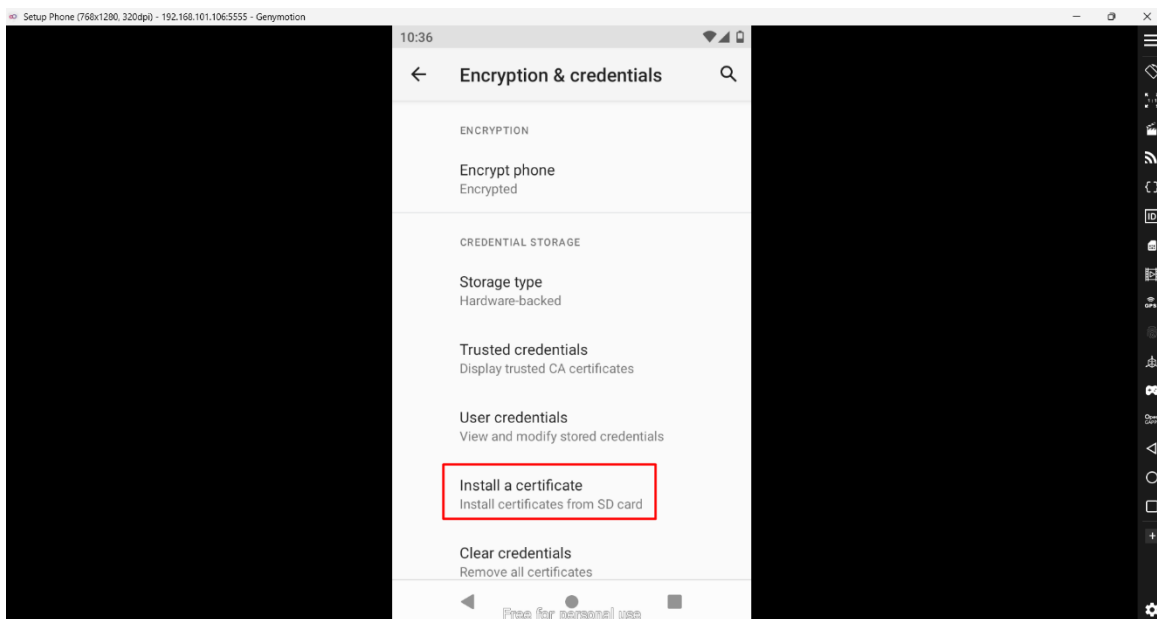
Go to the settings in the emulator and navigate to security.

**Step 6:**

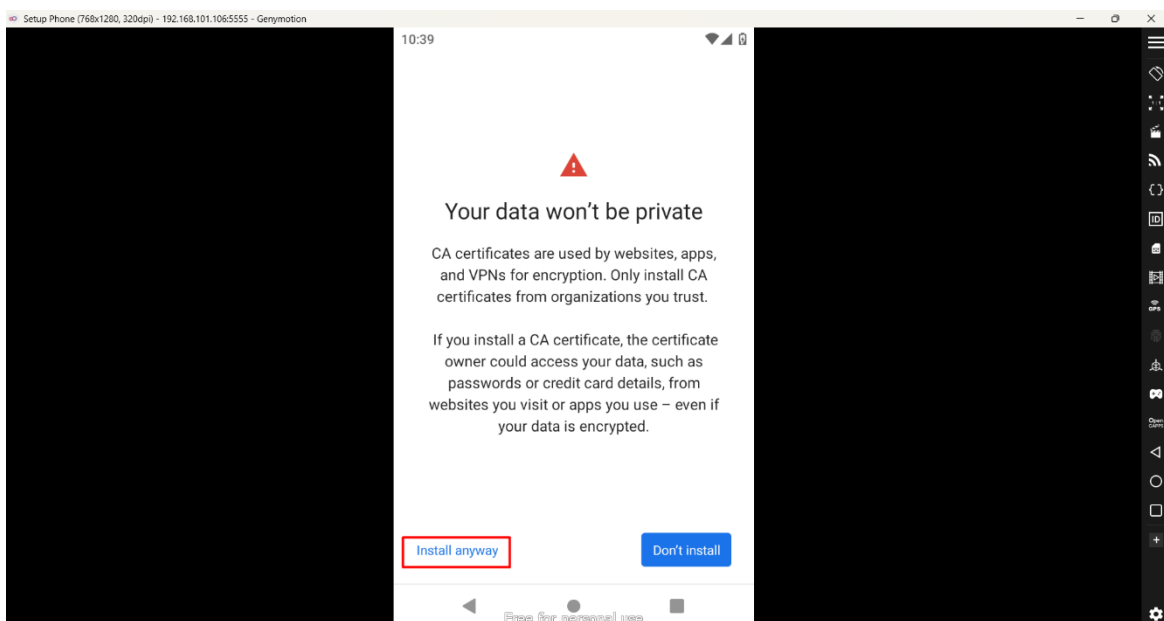
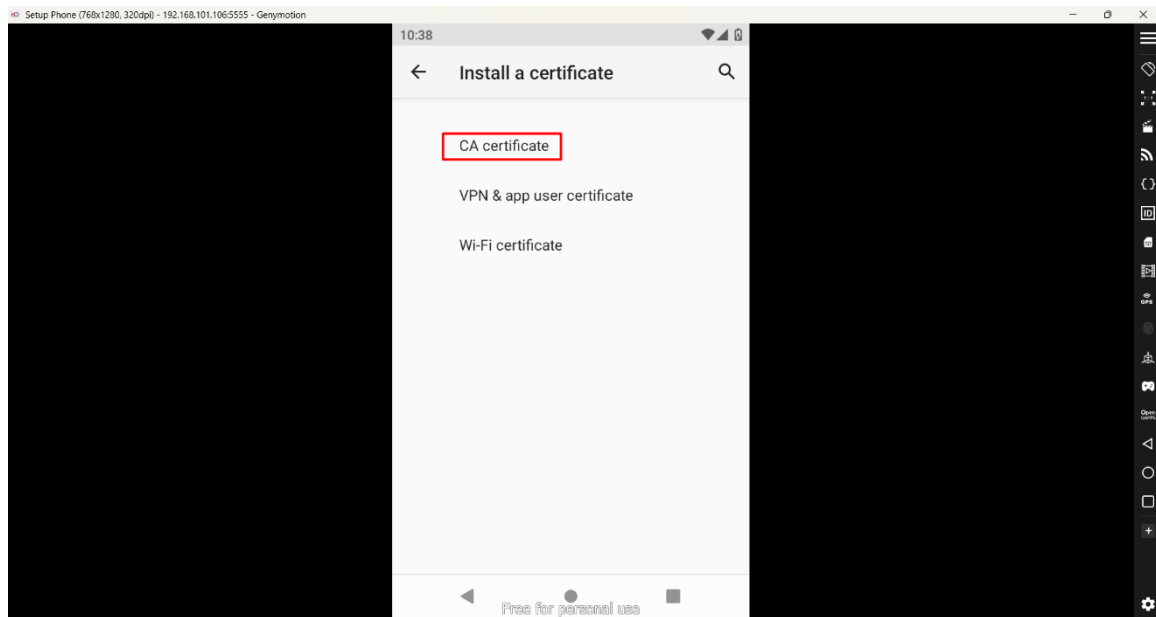
In Security, click on encryption and credentials.

**Step 7:**

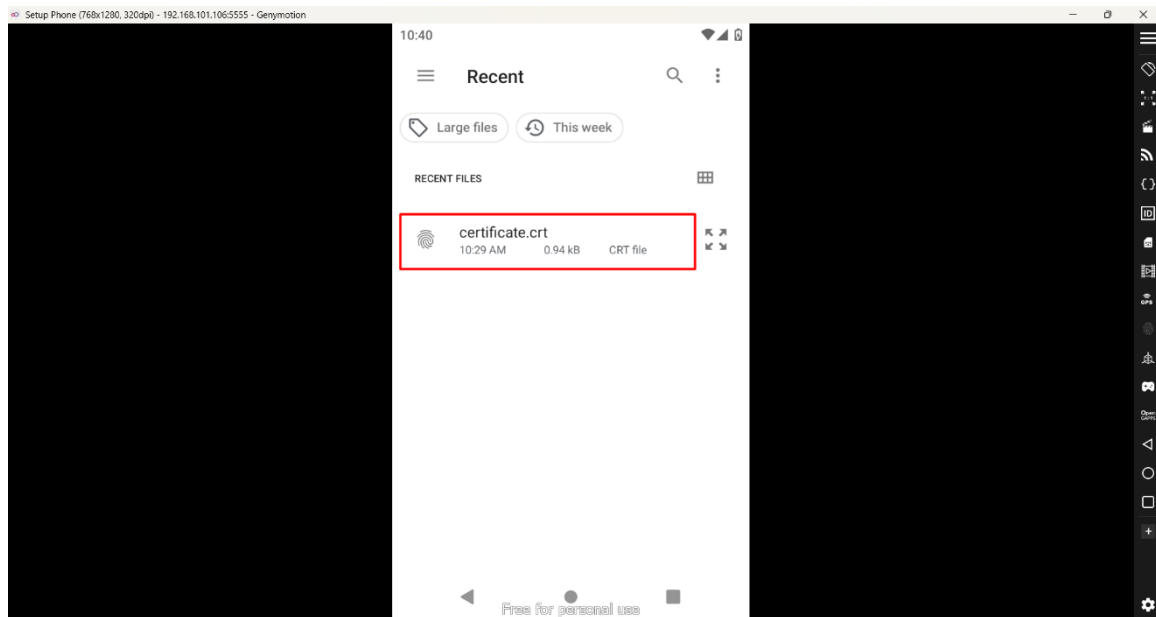
Then click on install a corticate option.

**Step 8:**

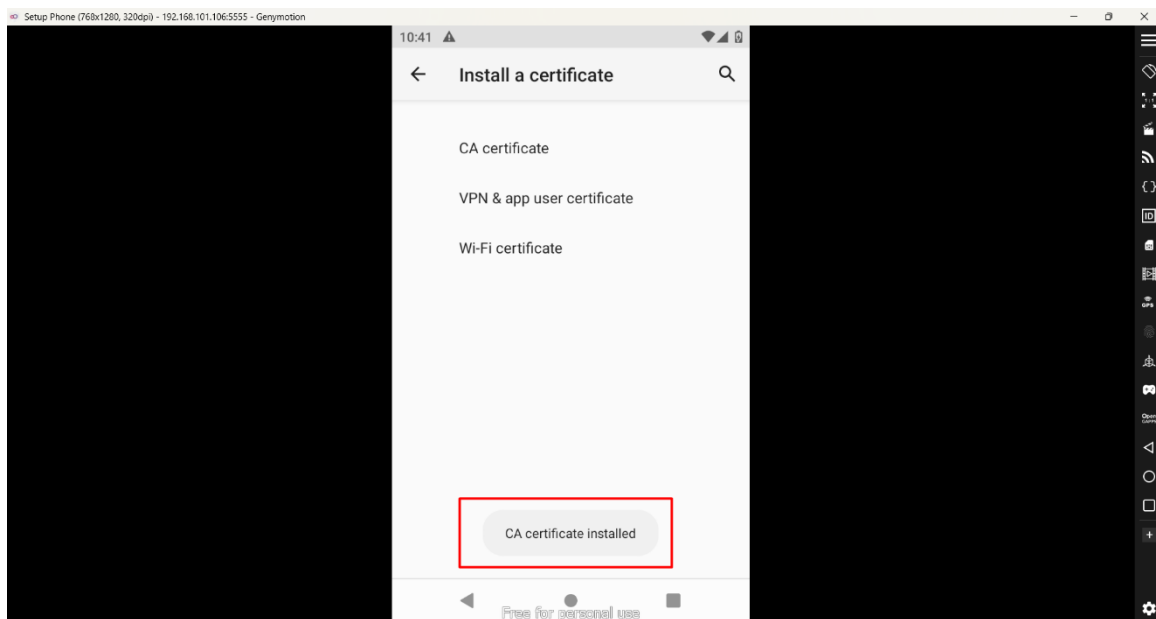
Now click on CA certificate and proceed with install anyway button in bottom left corner.

**Step 9:**

Choose the certificate we moved in before for installation.



A success prompt is given if the certificate is installed properly.

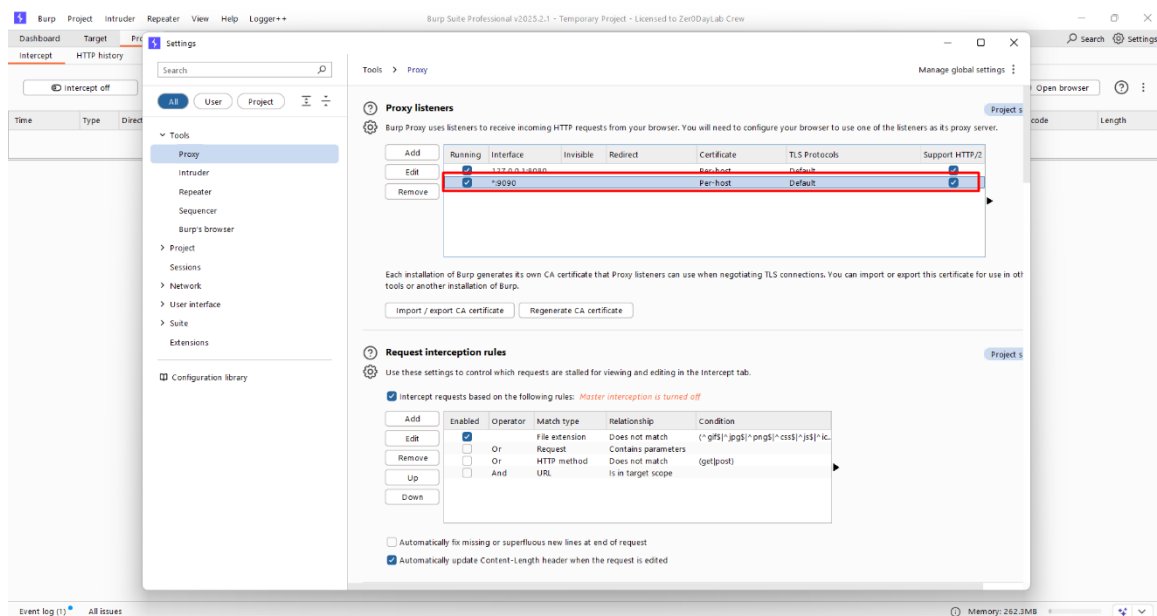
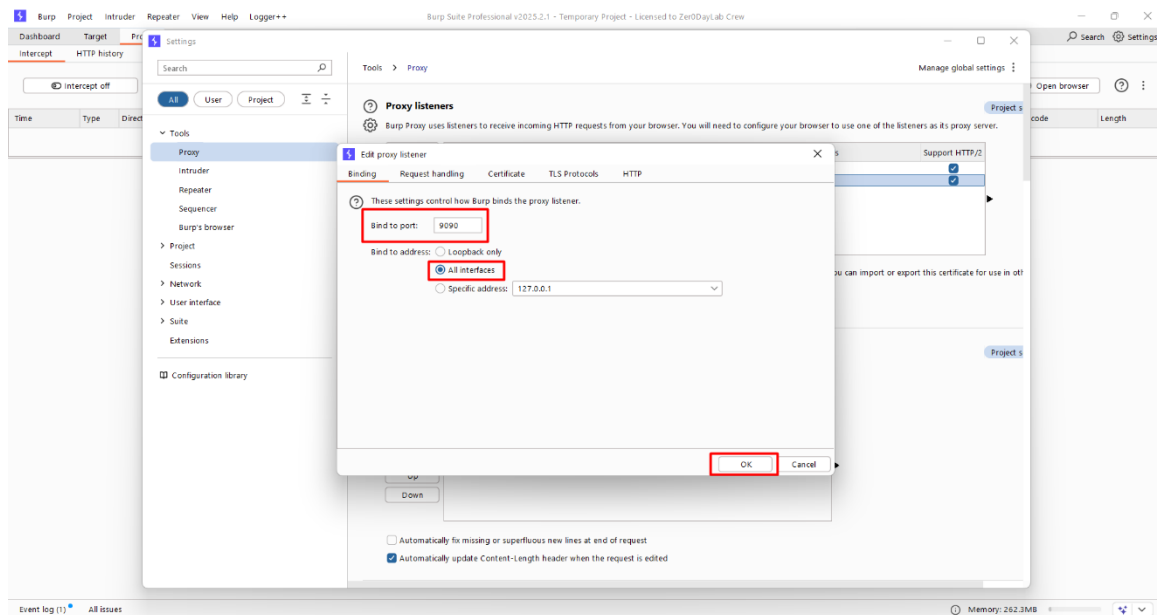


Step 10:

After the successful installation of the CA certificate in the emulator, now we need to route the traffic to the proxy listener to capture it.

To achieve that, follow the below steps:

1. Navigate to the proxy settings and then proxy listeners and create a proxy listener with your preferred port and choose all interface (Easier to setup).



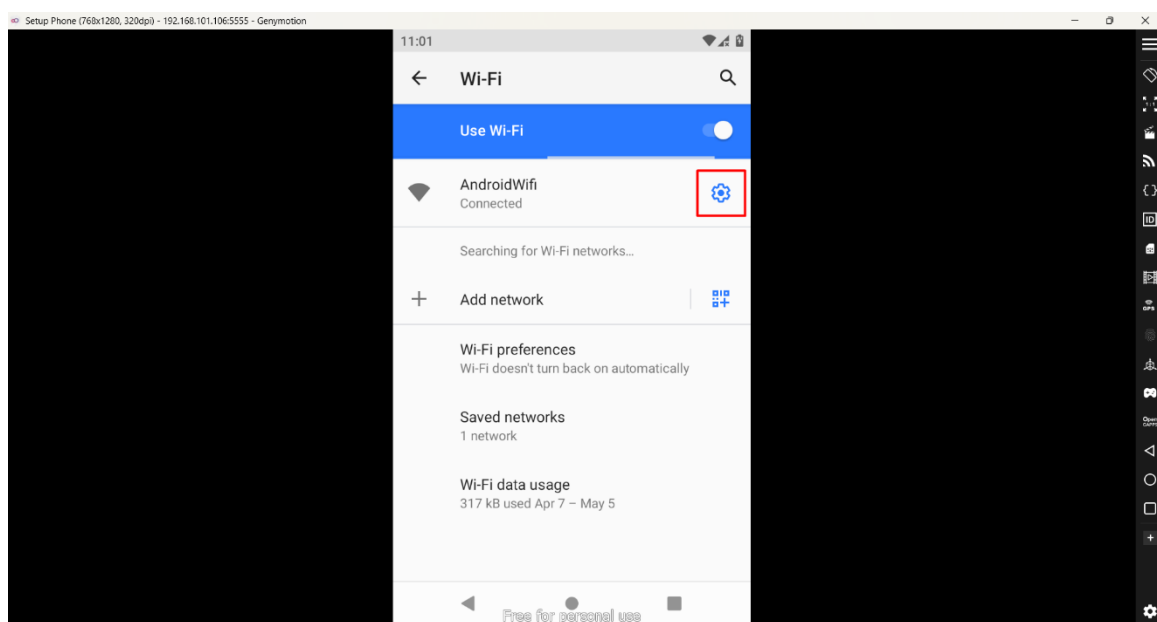
2. Find the IP address of your host machine, which is running the proxy listener.

Command – Ipconfig for windows and Ifconfig for linux

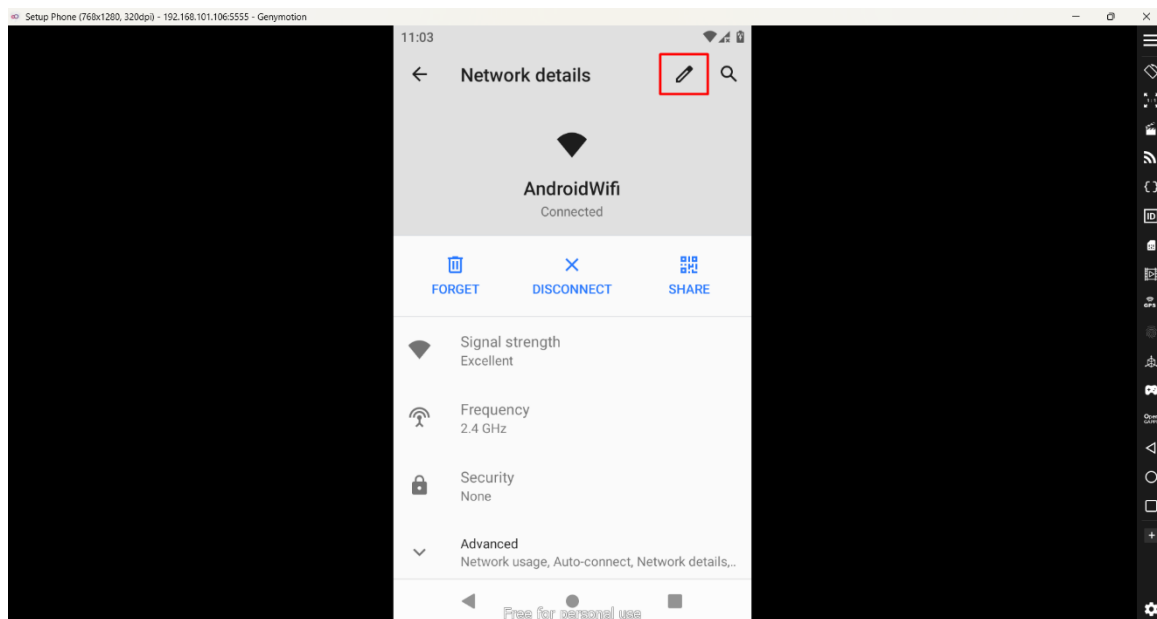
```
Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix  . : 
IPv6 Address. . . . . : fd01::a711:3a19:5d22:2cb2
Temporary IPv6 Address. . . . . : fd01::f44a:69e5:4c22:ca71
Link-local IPv6 Address . . . . . : fe80::db0c:d22:2259:ff03%23
IPv4 Address. . . . . : 192.168.0.250
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : fe80::e21c:fcff:feea:e65a%23
                             192.168.0.1
```

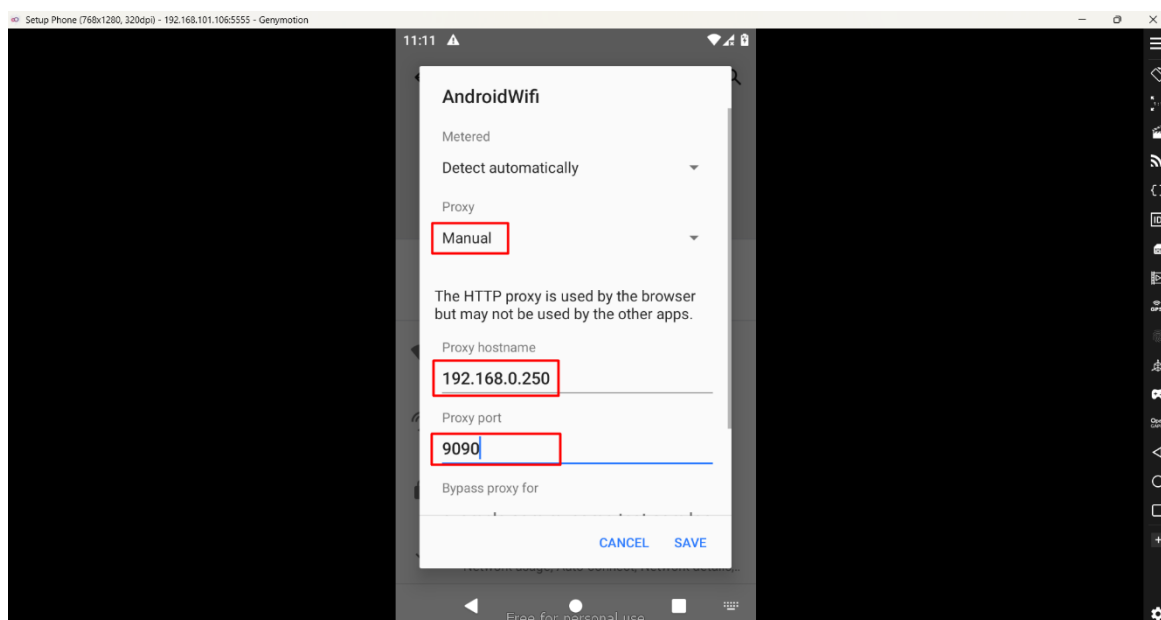
3. In emulator, navigate to the Wi-Fi settings and click on the settings symbol of the connected Wi-Fi.



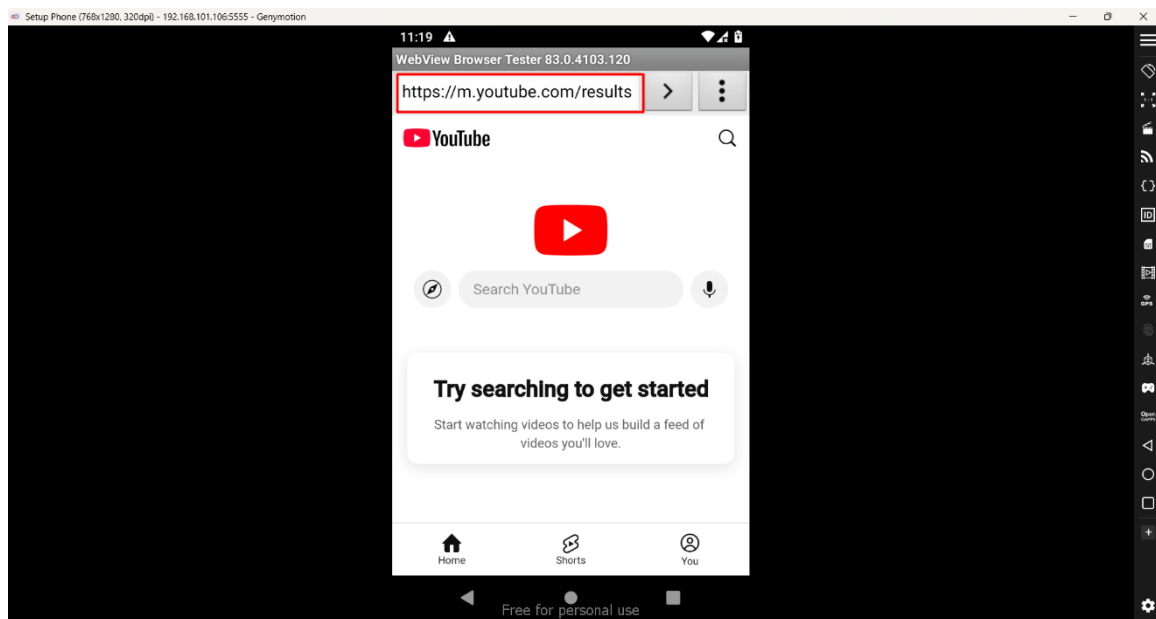
4. Then click on the pen symbol to open advanced options.



5. In the advanced options, change the proxy to manual.
6. Enter the Ip and port of the proxy listener (Which is the IP of the machine the proxy is running on) and click on save.
7. Note: Make sure mobile data is turned off because we are routing the traffic to the proxy via Wi-Fi, any traffic transported via mobile data will not reach the proxy and it cannot capture it.



8. To confirm the setup is working as expected, navigate to any https website on the emulator and verify the proxy captures the traffic or not. We can verify from the screenshots below it is capturing the https traffic coming from the emulator.



Burp Suite Professional v2023.2.1 - Temporary Project - Licensed to Zer0DayLab Crew

Dashboard Target Proxy Intruder Repeater Collaborator Sequencer Decoder Comparer Logger Organizer Extensions Learn Authorize Logger++

Intercept HTTP history WebSockets history Match and replace Proxy settings

Filter settings: Hiding CSS, image and general binary content

#	Host	Method	URL	Params	Edited	Status code	Length	MIME type	Extension	Title	Notes	TLS	IP	Cookies	Time	Listener port	Start response
286	https://suggestqueries-clients...	GET	/complete/search?ds=yt&hl=en&gl=L...			200	1402	script					142.250.195.110		16:49:01 S M...	9090	67
287	https://suggestqueries-clients...	GET	/complete/search?ds=yt&hl=en&gl=L...			200	1403	script					142.250.195.110		16:49:01 S M...	9090	54
288	https://suggestqueries-clients...	GET	/complete/search?ds=yt&hl=en&gl=L...			200	1404	script					142.250.195.110		16:49:01 S M...	9090	71
289	https://m.youtube.com	POST	/youtube/v1/log_event?at=json			200	370	JSON					142.251.222.174		16:49:01 S M...	9090	49
290	https://m.youtube.com	POST	/youtube/v1/search?prettyPrint=false			200	309863	JSON					142.251.222.174		16:49:03 S M...	9090	562
291	https://m.youtube.com	GET	/s/_jytweb/_jsk=ytmweb3_base...			200	2083	script					142.251.222.174		16:49:04 S M...	9090	4
292	https://m.youtube.com	GET	/s/_jytweb/_jsk=ytmweb3_base...			200	999	script					142.251.222.174		16:49:04 S M...	9090	2
297	https://font.gstatic.com	GET	/s/_robot/v1/8/KfOKCqG92F1Mu5...			200	23460	ttf					142.250.206.3		16:49:06 S M...	9090	49
298	https://font.gstatic.com	GET	/s/_lyoutube_outline_list_play_arrow/v...			200	978	XML	svg				142.250.206.3		16:49:06 S M...	9090	5
299	https://m.youtube.com	POST	/youtube/v1/browse?prettyPrint=false			200	20550	JSON					142.251.222.174		16:49:19 S M...	9090	202
300	https://pjs.google.com	POST	/log?adst-truck&adst-truck=0&for...			200	999	JSON					142.250.196.174	NID=523=Johprip...	16:49:26 S M...	9090	86
301	https://m.youtube.com	POST	/youtube/v1/log_event?at=json			200	370	JSON					142.251.222.174		16:49:37 S M...	9090	55

Request

1 POST /youtube/v1/browse?prettyPrint=false HTTP/2

2 Host: m.youtube.com

3 Cookie: GR#i; VR#_oocqvpovRE; VISITOR_INFO_LIVB#n5Y-87b7a0Z;

4 VISITOR_PRIVACY_METADATA=CgJThIR9gAgHw43Dk3D; PRF=Cu0TCJ;

5 _secure-BOLLOUT_TOKEN#CIR29P1w5dRjHh0c12afayH4x1b9_CmoytAw43Dk3D

6 Content-Length: 3947

7 X-YouTube-Client-Name: 2

8 X-YouTube-Bootstrap-Logged-In: false

9 X-YouTube-Client-Version: 2.20250502.01.00

10 User-Agent: Mozilla/5.0 (Linux; Android 11; Phone Build/RQLA.210105.003; wv)

11 AppleWebKit/537.36 (KHTML, like Gecko) Version/4.0 Chrome/83.0.4103.120 Mobile Safari/537.36

12 X-Goog-Vid-Aid: CytuivktUtdiNHNH83jKvCtABJtRcgJThIR9gAgHw43Dk3D

13 Content-Type: application/json

14 Accept: */*

15 Origin: https://m.youtube.com

16 X-Requested-With: org.chromium.webview_shell

17 Sec-Fetch-Site: same-origin

18 Sec-Fetch-Mode: same-origin

19 Sec-Fetch-Dest: empty

20 Referer: https://m.youtube.com/

21 Accept-Encoding: gzip, deflate, br

22 Accept-Language: en-US,en;q=0.9

Response

1 HTTP/2 200 OK

2 Content-Type: application/json; charset=UTF-8

3 Vary: Origin

4 Vary: X-Origin

5 Vary: Referer

6 Date: Mon, 05 May 2025 11:19:18 GMT

7 Server: nestfolding on HTTPServer2

8 Content-Length: 20203

9 X-XSS-Protection: 0

10 X-Frame-Options: SAMEORIGIN

11 X-Content-Type-Options: nosniff

12 Alt-Svc: h3=":443"; ma=2592000, h3-25=":443"; ma=2592000

13

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