

- MITMproxy has a scripting API.
- Python code can be used to interact with MITMproxy.
- Python is a very powerful programing language.

 $\rightarrow$  Python + MITMproxy = very powerful MITM scripts.

## TROJANS



- A trojan is a file that looks and functions as a normal file (image, pdf, song ..etc).
- When executed:
  - Opens the normal file that the user expects.
  - 2. Executes evil code in the background (run a backdoor/keylooger ...etc).

-> Therefore it is great to social engineer the target into running our evil code

## CREATING A TROJAN



- $\rightarrow$  Combine evil file with normal file (image, book, song ...etc).
- $\rightarrow$  Configure evil file to run silently in the background.
- $\rightarrow$  Change file icon.
- $\rightarrow$  Change file extension.



- TrojanFactory comes with script (mitmproxy\_script.py)
- Based on the script created previously.

## Extra features:

- 1. Proper implementation of Tojan Factory.
- 2. Supports multiple file types.
- 3. Spoof file extension on the fly.
- 4. Add appropriate icon on the fly.



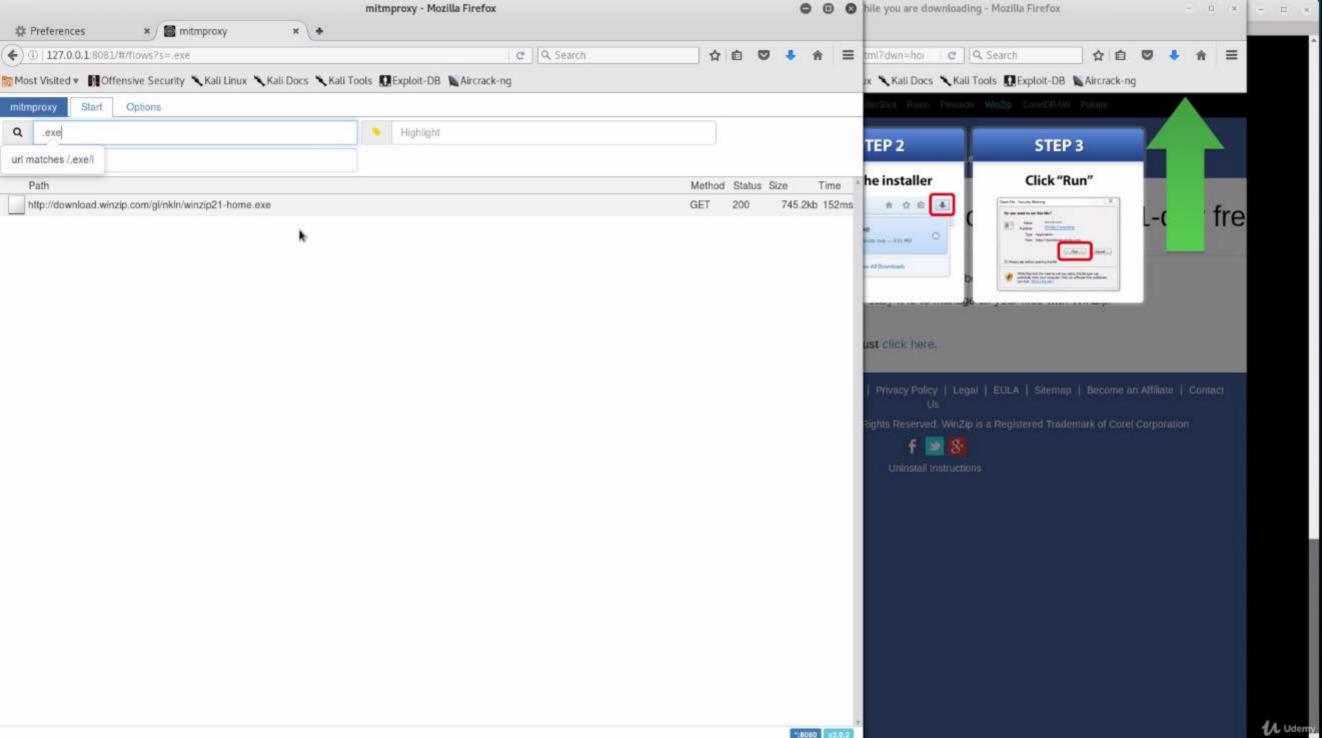
- Everything we did so far will not work against HTTPS pages.
- HTTPS data is encrypted using SSL.
- Data can **not** be read  $\rightarrow$  can **not** be modified.
- SSLstrip can not be used because mitmproxy can not work with another transparent proxy.

Solution: use a mitmproxy script to bypass https.



- Intercept and replace downloads.
- Combine any file with an evil file.
- Write MITMproxy scripts.
- Lets combine all of this:

 $\rightarrow$  Replace files the user downloads with a trojan that will run the file they expect + our evil file.



root@kali: /opt/mitmproxy

