

# mitmproxy

- **man-in-the-middle** proxy
- Interactive, SSL-capable proxy for HTTP with a console interface.
- Intercept http communication between the client and the server for instrumentation.



# Install mitmproxy

- `pip install pyOpenSSL`
- `pip install mitmproxy==0.11.3`

```
~ /git/public/mitmproxy (Python)
GET https://github.com/
  ← 200 text/html 5.52kB
GET https://a248.e.akamai.net/assets.github.com/stylesheets/bundles/github2-24f59e3ded11f2a1c7ef9ee730882bd8d550cfb8.css
  ← 200 text/css 28.27kB
GET https://a248.e.akamai.net/assets.github.com/images/modules/header/logov7@4x-hover.png?1324325424
  ← 200 image/png 6.01kB
GET https://a248.e.akamai.net/assets.github.com/javascripts/bundles/jquery-b2ca07cb3c906cecfd58811b430b8bc25245926.js
  ← 200 application/x-javascript 32.59kB
GET https://a248.e.akamai.net/assets.github.com/stylesheets/bundles/github-cb564c47c51a14af1ae265d7ebab59c4e78b92cb.css
  ← 200 text/css 37.09kB
GET https://a248.e.akamai.net/assets.github.com/images/modules/home/logos/facebook.png?1324526958
  ← 200 image/png 5.55kB
>> GET https://github.com/twitter
```

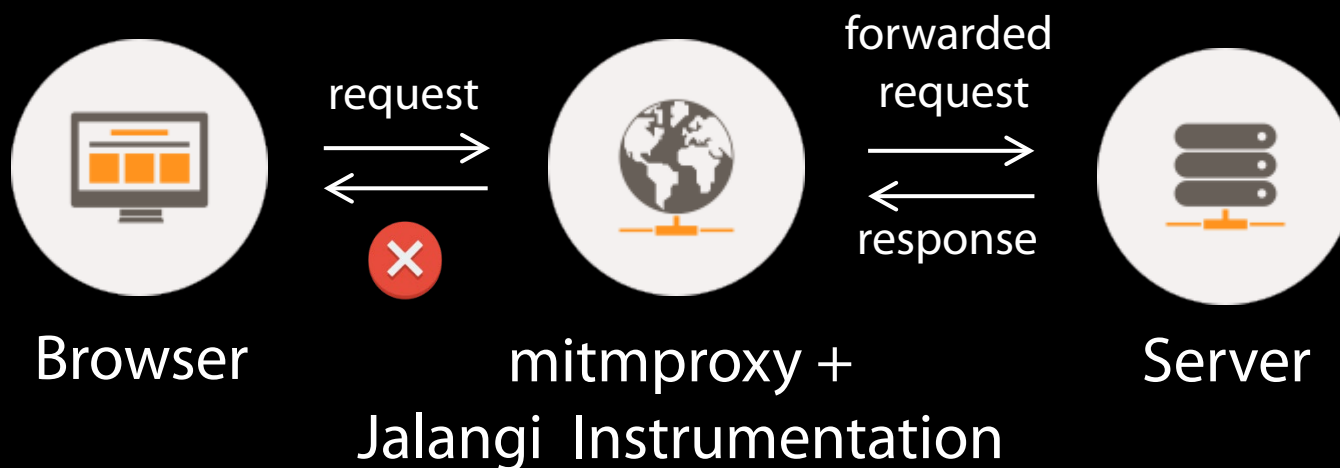
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# The HTTPS Problem

- Man-in-the-middle Proxy
- SSL and HTTPS is designed against MITM
- HTTPS Handle shake error due to uncertified modification via instrumentation



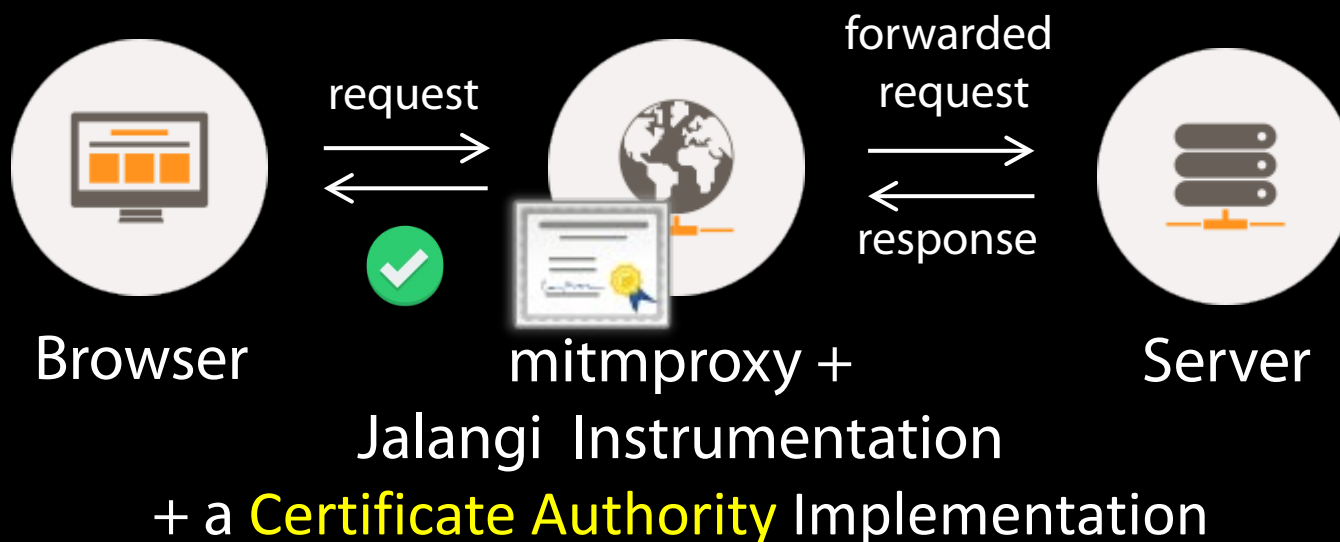
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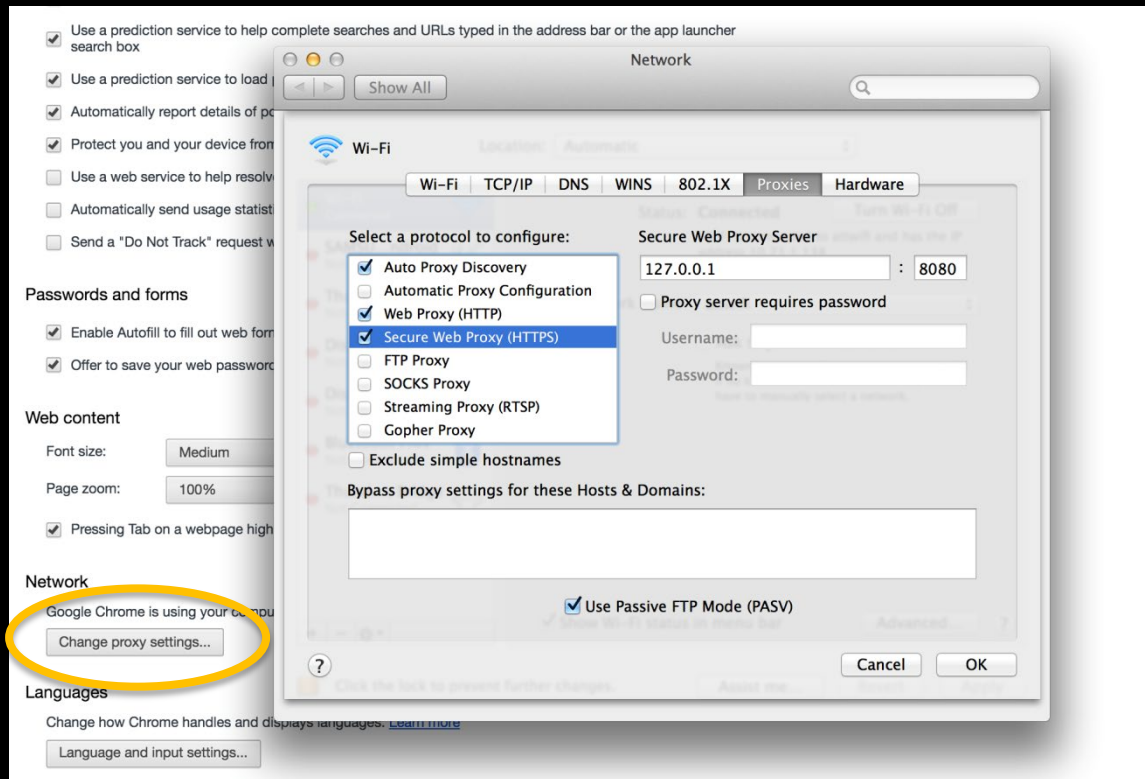
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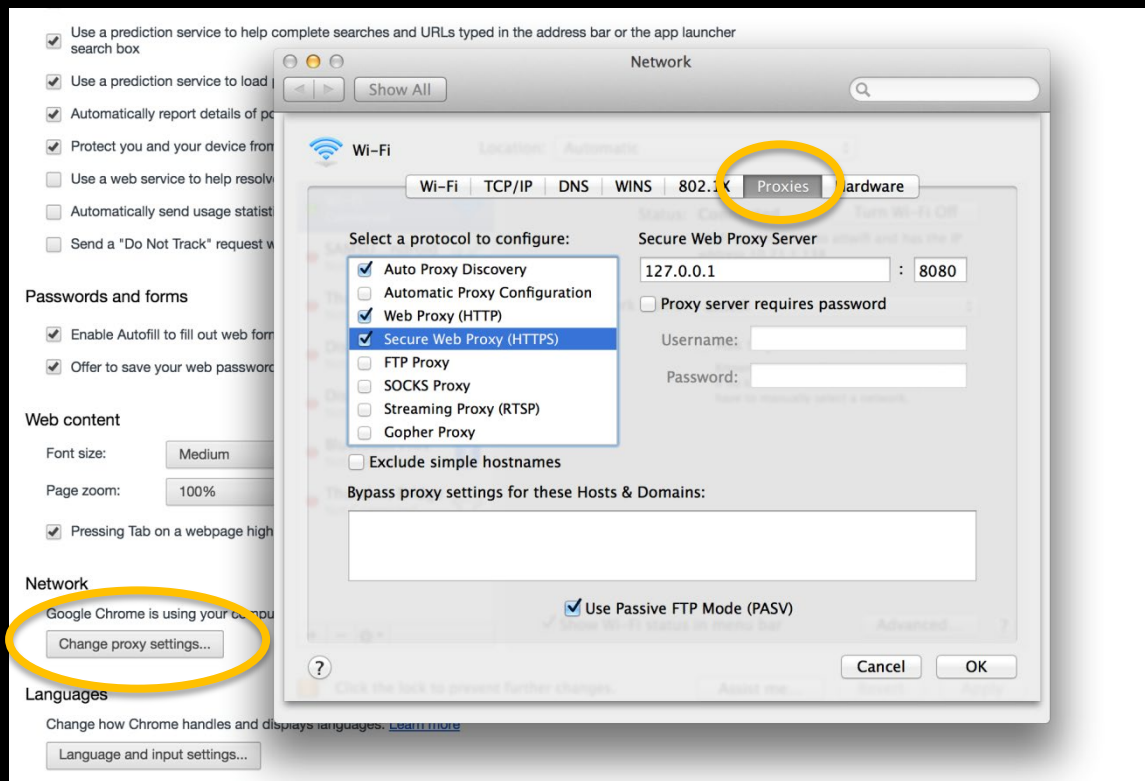
# Install the CA System of mitmproxy

- `pip install mitmproxy==0.11.3`
- Then run `mitmproxy` in the terminal
- In browser, configure HTTP and HTTPS proxy
  - Server: `127.0.0.1` Port: `8080`



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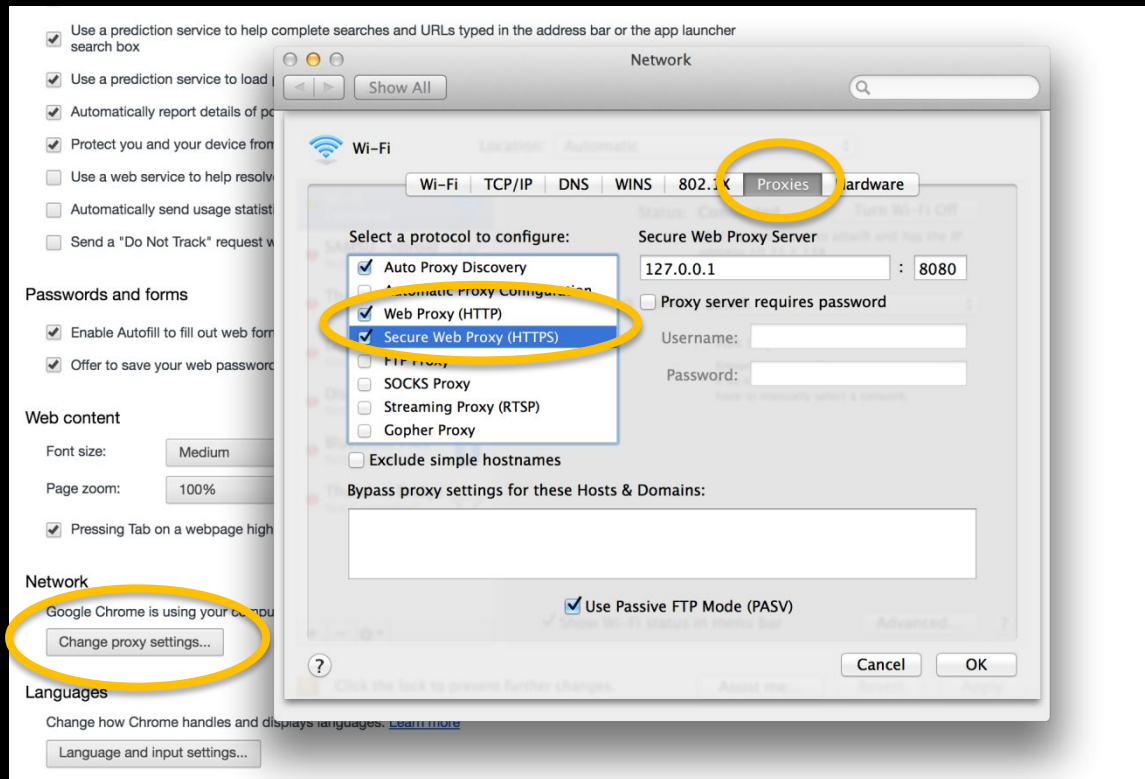
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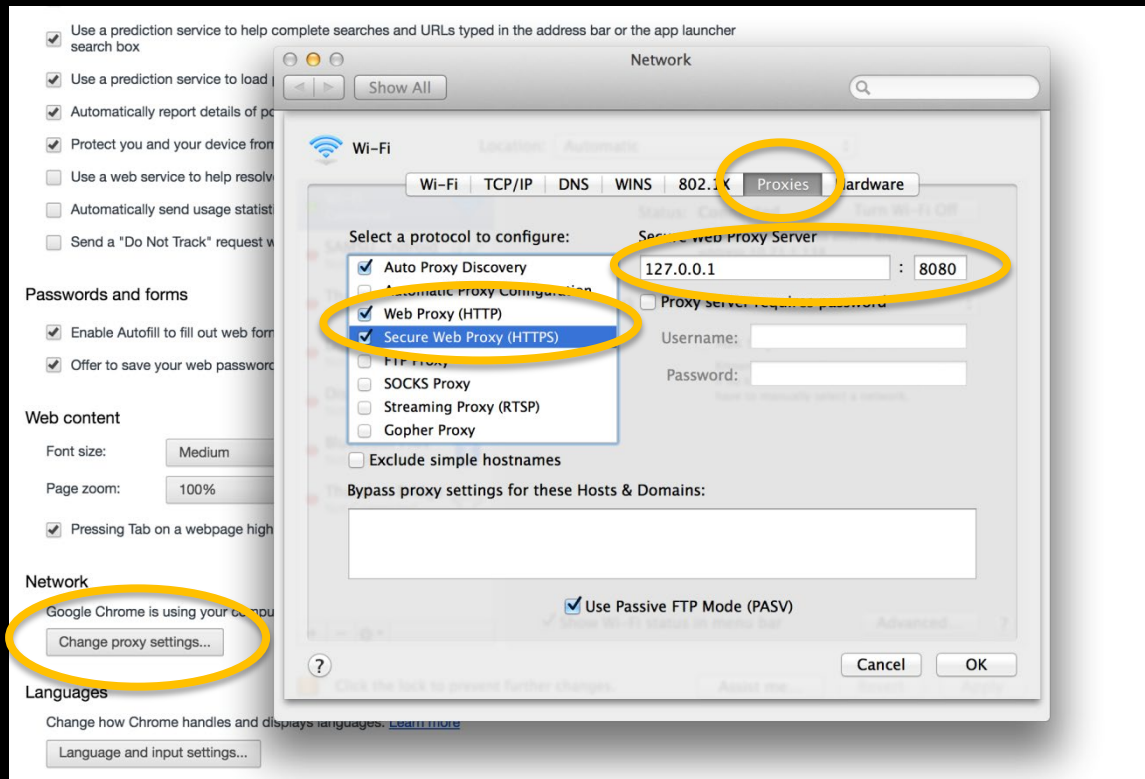
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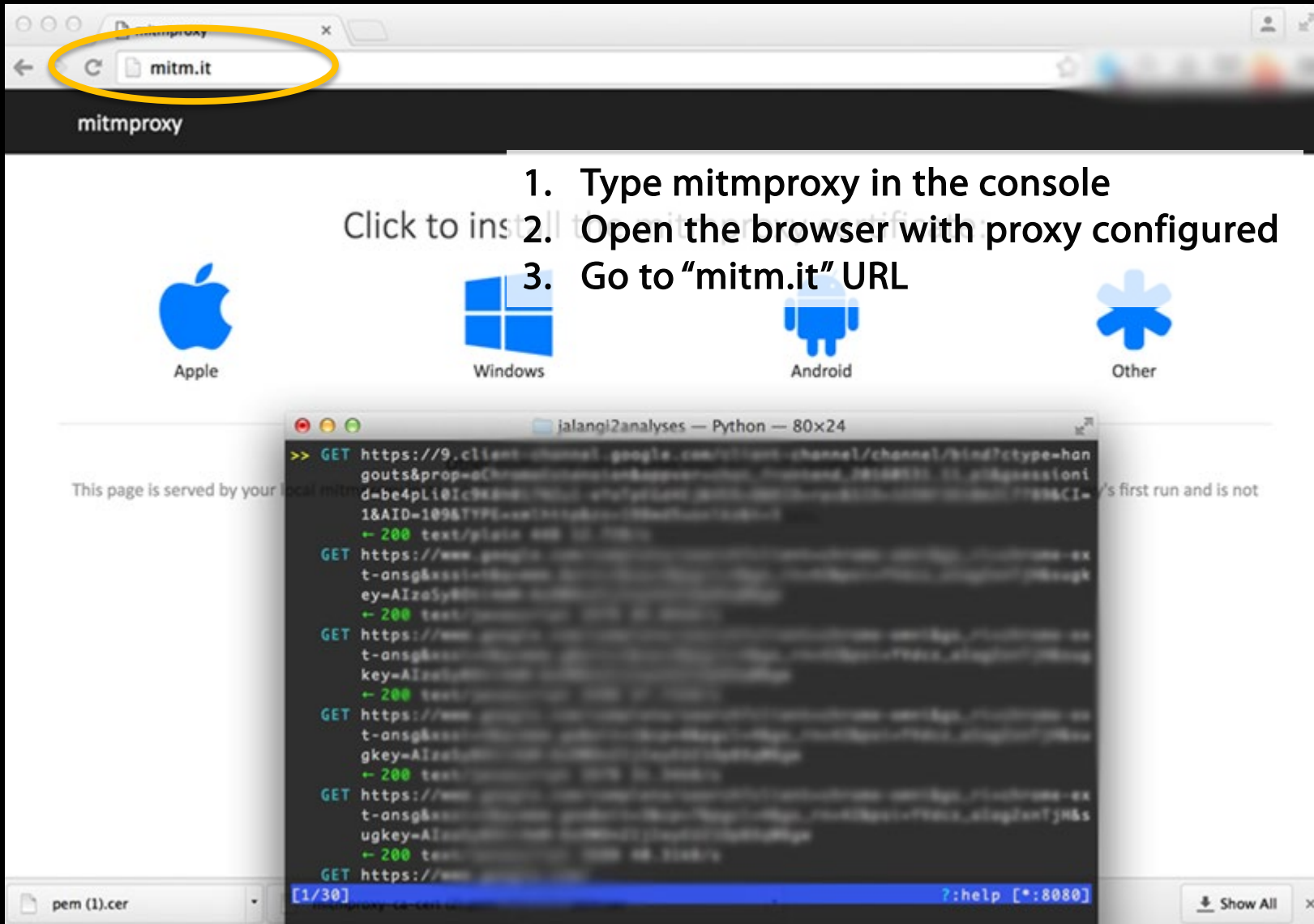


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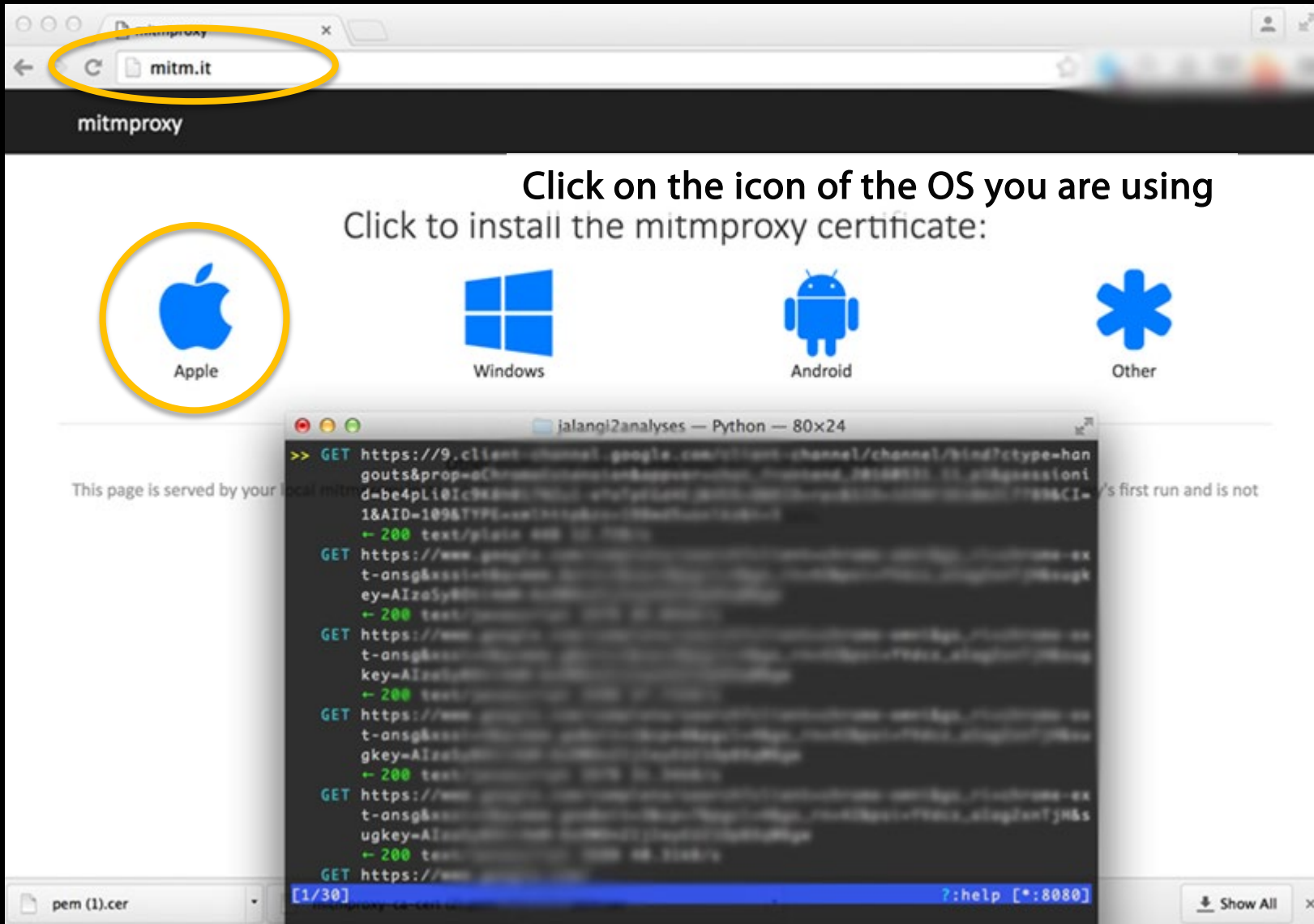
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# Install the CA System of mitmproxy



# Install the CA System of mitmproxy



# Install the CA System of mitmproxy

mitmproxy

A certificate file will be downloaded  
Click to install the mitmproxy certificate:

Apple Windows Android Other

This page is served by your local mitmproxy

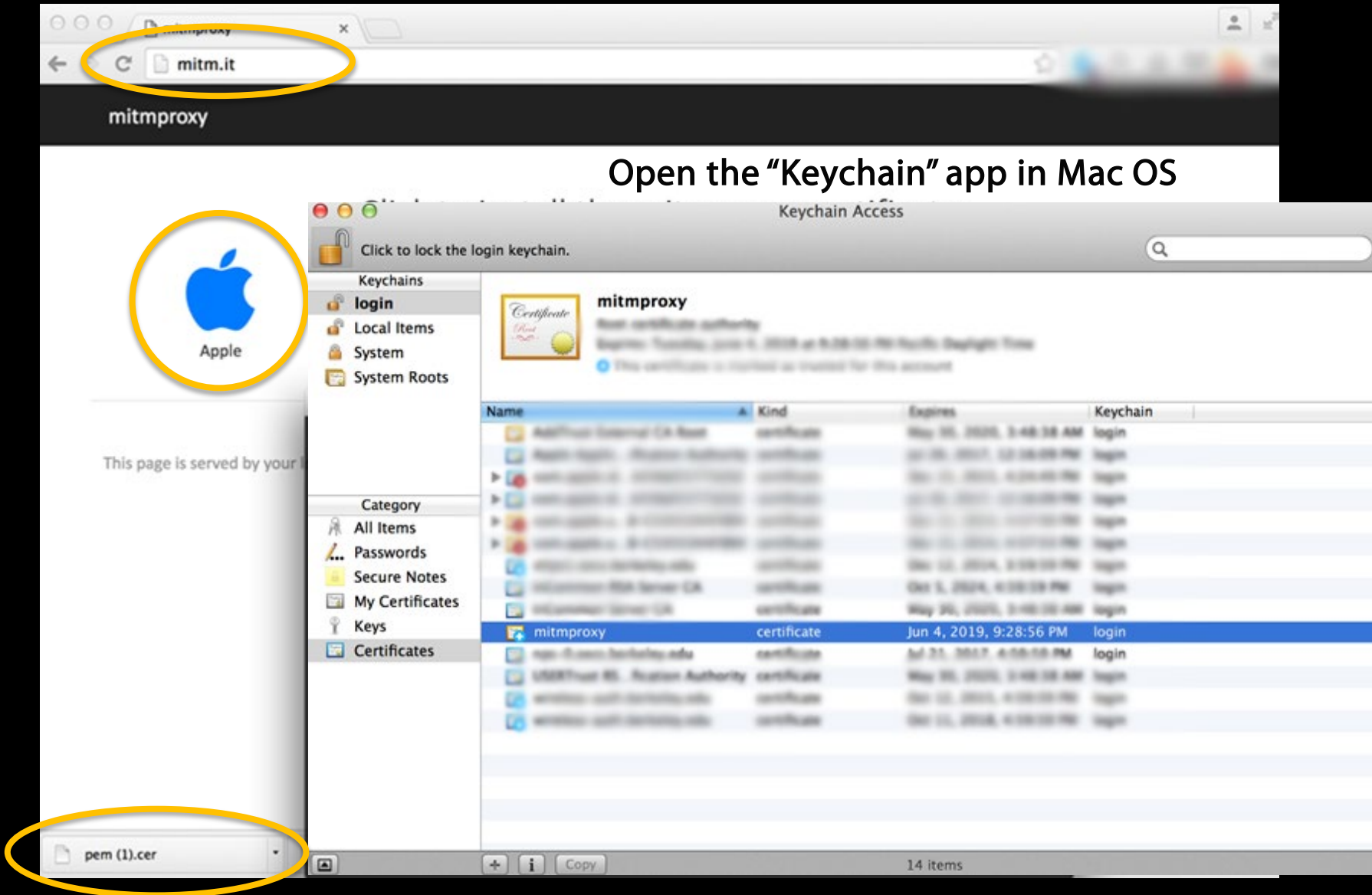
```
>> GET https://9.client-channel.google.com/client-channel/channel/bind?ctype=han
gouts&prop=aChromeChannel&appver=chan... 200 test/plain 400 10 100%
GET https://www.google.com/search?q=mitmproxy&btnG=Search&btnI=Images&btnV=
t-onsg&ssi=1&as=... 200 test/plain 400 10 100%
GET https://www.google.com/search?q=mitmproxy&btnG=Search&btnI=Images&btnV=
t-onsg&ssi=1&as=... 200 test/plain 400 10 100%
GET https://www.google.com/search?q=mitmproxy&btnG=Search&btnI=Images&btnV=
t-onsg&ssi=1&as=... 200 test/plain 400 10 100%
GET https://www.google.com/search?q=mitmproxy&btnG=Search&btnI=Images&btnV=
t-onsg&ssi=1&as=... 200 test/plain 400 10 100%
GET https://www.google.com/search?q=mitmproxy&btnG=Search&btnI=Images&btnV=
t-onsg&ssi=1&as=... 200 test/plain 400 10 100%
```

pem (1).cer

[1/30] ? :help [\*:8080]

Show All

# Install the CA System of mitmproxy





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