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# 抓包代理利器：mitmproxy

- 最新版本： v0.8
- 更新时间： 20201231

## 简介

介绍主要用于抓包领域的代理工具mitmproxy，尤其是常用的命令行版的mitmdump。先对mitmproxy概述，再介绍mitmdump的下载和安装。包括Mac和Win中如何安装和常见问题。接下来介绍如何使用mitmdump，包括核心的通用逻辑，即先电脑端启动mitmdump代理，再去移动端初始阿虎安装mitmproxy的根证书ssl代理证书文件，其中总结了各种iOS和安卓手机在安装根证书时候的坑和问题及解决办法。再去介绍如何给移动端中WiFi去设置代理。总结了常见的问题，比如No module named yaml、traffic is not passing through mitmproxy等等。还有其他方面，比如代码中调用控制mitmdump的运行、win中如何给mitmdump的python打包成exe。最后附上help语法供需要时查阅。

## 源码+浏览+下载

本书的各种源码、在线浏览地址、多种格式文件下载如下：

### Gitbook源码

- [crifan/crawler\\_proxy\\_tool\\_mimproxy](#): 抓包代理利器： mitmproxy

### 如何使用此Gitbook源码去生成发布为电子书

详见：[crifan/gitbook\\_template: demo how to use crifan gitbook template and demo](#)

### 在线浏览

- 抓包代理利器：[mitmproxy book.crifan.com](#)
- 抓包代理利器：[mitmproxy crifan.github.io](#)

### 离线下载阅读

- 抓包代理利器：[mitmproxy PDF](#)
- 抓包代理利器：[mitmproxy ePub](#)
- 抓包代理利器：[mitmproxy Mobi](#)

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## 鸣谢

感谢我的老婆陈雪的包容理解和悉心照料，才使得我 `crifan` 有更多精力去专注技术专研和整理归纳出这些电子书和技术教程，特此鸣谢。

## 更多其他电子书

本人 `crifan` 还写了其他 `100+` 本电子书教程，感兴趣可移步至：

[crifan/crifan\\_ebook\\_readme](#): Crifan的电子书的使用说明

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## mitmproxy概述

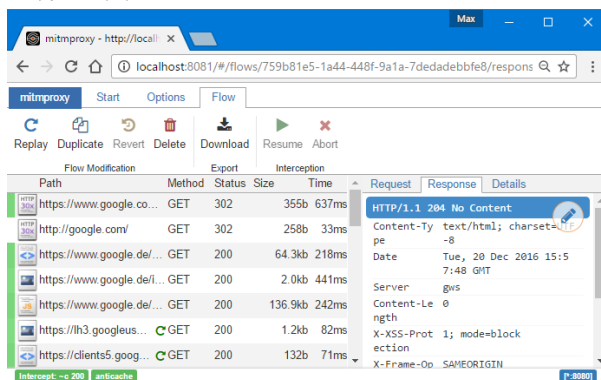
- mitmproxy
  - 名词解析
    - mitmproxy = mitm 的 proxy
      - mitm = MITM = Man-In-The-Middle
        - 直译：人在中间
          - 在中间 ->
            - 首先要确保原先网络请求能继续
              - 所以就是代理的功能：正常转发原有网络请求
            - 但也可以干很多事情
              - 比如
                - 记录、保存网络请求
                - 拦截（符合特定规则的）网络请求
                - （甚至）篡改、伪造成新的合法的或不合法的网络请求
        - 相关：往往也被叫做
          - Man-In-The-Middle attack = 中间人攻击
      - mitmproxy 是一套工具的总称，包含
        - mitmproxy：交互式命令行工具
          - 是什么=一句话概述
            - 英文
              - mitmproxy is an interactive, SSL/TLS-capable intercepting proxy with a console interface for HTTP/1, HTTP/2, and WebSockets
            - 中文
              - mitmproxy是一个代理工具
                - 功能和特点
                  - 交互式的
                  - 支持https拦截
                  - 支持协议：HTTP/1、HTTP/2、WebSockets
                    - 产品形态：控制台console中显示交互界面
          - 长什么样=截图

```

GET https://www.google.com/
  → 200 text/html 64.52k 487ms
GET https://www.google.com/logos/doodles/2018/doodle-snow-games-day-12-6870619765473288-s.png
  → 200 image/png 2.63k 184ms
GET https://www.google.com/logos/2018/snowgames-skijump/cto.png
  → 200 image/png 13.4k 229ms
GET https://www.gstatic.com/external_hosted/createsjs/createsjs-2015.11.26.min.js
  → 200 text/javascript 48.51k 475ms
GET https://www.gstatic.com/gb/images/i2_2ec824b0.png
  → 200 image/png 23.64k 253ms
GET https://ssl.gstatic.com/safebrowsing/csd/client_model_v5_variation_0.pb
  → 200 application/octet-stream 67.92k 356ms
GET https://ssl.gstatic.com/safebrowsing/csd/client_model_v5_ext_variation_0.pb
  → 200 application/octet-stream 67.92k 412ms
GET https://www.google.com/logos/2018/snowgames-skijump18.js
  → 200 text/javascript 258.16k 900ms
POST https://www.google.com/gen_2047s=webaft&atyp=csl&ei=vCGLWr6uMsKk8gTys6yIAw&rt=wsrt.2615,aft.1379,prt.1379
  → 204 text/html [no content] 379ms
GET https://www.gstatic.com/og/_/js/kwog.og2.en_US.ulHn0gN116I.O/rt=j/m=def/exm=in,fat/d=1/ed=1/rs=AA2YrT
uVOKaJN
  → 200 text/javascript 46.4k 265ms
GET https://www.google.com/xjs/_/js/kwxjs.s.en.zjlvxe8FvgY.O/m=sx,sb,cdos,cr,elog,hsm,jso,r,d,csi/qm=wCL0
mEBYP8
  → 200 text/javascript 144.26k 368ms
GET https://www.google.com/xjs/_/js/kwxjs.s.en.zjlvxe8FvgY.O/m=ao,abd,asyn,dv1,foot,fpe,lpv6,lu,m,mu,sf,
sonic,s
  → 200 text/javascript 30.54k 195ms
GET https://www.google.com/logos/2018/snowgames-skijump/main-sprite.png
  → 200 image/png 13.4k 229ms

```

- **mitmweb**：基于命令行的带UI界面
  - 可以理解为：网页版的**mitmproxy**
  - 是什么=一句话描述
    - mitmweb is a web-based interface for mitmproxy
  - 长什么样=截图



- **mitmdump**：命令行版本
  - 是什么=一句话描述
    - mitmdump is the command-line version of mitmproxy. Think tcpdump for HTTP
  - 类比
    - mitmdump 之于 mitmproxy
      - 就像
        - tcpdump 之于 HTTP
    - 可以理解为
      - 命令行版本的 Charles / Fiddler

• 主要用途：实现对网页、app的抓包

• 网址

◦ 官网文档

■ Introduction

■ <https://docs.mitmproxy.org/stable/>

◦ GitHub

■ mitmproxy/mitmproxy: An interactive TLS-capable intercepting HTTP proxy for penetration testers and software developers

■ <https://github.com/mitmproxy/mitmproxy>

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## mitmdump

mitmdump 是 mitmproxy 的命令行版本。

mitmproxy 和 mitmdump 的用法和逻辑基本一致。

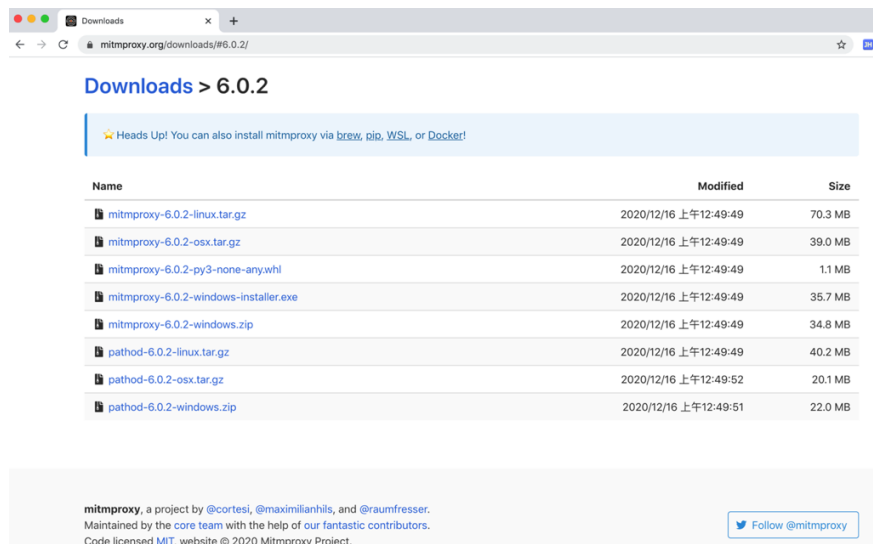
此处主要介绍 mitmdump 的使用。

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# 下载mitmproxy

官网下载地址：

- Downloads
  - <https://mitmproxy.org/downloads/#6.0.2/>



即可下载到对应系统的二进制可执行文件：

- Mac
  - <https://snapshots.mitmproxy.org/6.0.2/mitmproxy-6.0.2-osx.tar.gz>
- Win
  - <https://snapshots.mitmproxy.org/6.0.2/mitmproxy-6.0.2-windows-installer.exe>
  - <https://snapshots.mitmproxy.org/6.0.2/mitmproxy-6.0.2-windows.zip>
- Linux
  - <https://snapshots.mitmproxy.org/6.0.2/mitmproxy-6.0.2-linux.tar.gz>

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## 安装mitmproxy

下载到二进制文件后，（Mac、Win、Linux等）各个系统中，即可正常安装。

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## Mac

Mac中也可以直接用 brew 去安装：

```
brew install mitmproxy
```

也可以用Python中的pip去（给Python环境中）安装：

```
pip install mitmproxy
```

注：如果后续 mitmdump 用到 -s 去加载的 .py 的python脚本中，用到了 pyaml 的话，则记得要先用 pip 安装 pyyaml：

```
pip instal pyyaml
```

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## Win

### 安装遇到的问题

之前在win10中安装mitmproxy，遇到过2个问题：

**build \_openssl.c error C2065  
X509\_V\_FLAG\_CB\_ISSUER\_CHECK  
undeclared identifier**

```

creating build\temp.win-amd64-3.8\Release\build\temp.win-ar
C:\Program Files (x86)\Microsoft Visual Studio 14.0\VC\B
_openssl.c
build\temp.win-amd64-3.8\Release\_openssl.c(1369): warni
build\temp.win-amd64-3.8\Release\_openssl.c(11095): erro
build\temp.win-amd64-3.8\Release\_openssl.c(11096): erro
build\temp.win-amd64-3.8\Release\_openssl.c(12429): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(12429): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(12452): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(13565): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(13575): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(13589): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(13599): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(16441): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(16465): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(16465): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(16475): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(16575): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(16599): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(19290): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(19290): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(19300): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(19350): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(19350): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(19360): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(19374): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(19374): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(19384): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(22275): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(23380): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(23404): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(25957): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(26094): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(32153): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(34129): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(34152): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(34609): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(34709): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(34793): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(38288): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(46480): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(46520): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(46713): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(46773): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49146): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49146): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49156): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49170): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49170): warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49180): warn:

```

```

build\temp.win-amd64-3.8\Release\_openssl.c(49194) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49194) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49204) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49218) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49218) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49228) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49242) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49242) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49252) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49266) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49266) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49276) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49290) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49290) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49300) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49314) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49314) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49324) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49338) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49338) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(49348) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(50421) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(50421) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(50444) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(50457) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(50457) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(50480) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(50659) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(50712) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(53826) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(53826) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(53849) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(54363) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(54620) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(57001) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(57001) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(57024) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(57037) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(57037) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(57060) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(57500) : warn:
build\temp.win-amd64-3.8\Release\_openssl.c(57553) : warn:
error: command 'C:\Program Files (x86)\Microsoft Visual
-----
ERROR: Failed building wheel for cryptography
Running setup.py clean for cryptography
Failed to build cryptography
ERROR: Could not build wheels for cryptography which use P

```

经过一番折腾，但最后是没解决。

具体过程详见：

- 【未解决】windows中pip安装mitmproxy报错： build \_openssl.c  
error C2065 X509\_V\_FLAG\_CB\_ISSUER\_CHECK undeclared  
identifier

**ERROR: Could not build wheels for  
cryptography which use PEP 517 and cannot  
be installed directly**

```

> pip install mitmproxy
.....
Collecting pycparser
  Using cached https://files.pythonhosted.org/packages/68/9
Building wheels for collected packages: cryptography
  Building wheel for cryptography (PEP 517) ... error
ERROR: Command errored out with exit status 1:
  command: 'c:\program files\python38\python.exe' 'c:\progr
  cwd: C:\Users\xxx\AppData\Local\Temp\pip-install-x4f
Complete output (112 lines):
running bdist_wheel
running build
running build_py
creating build
creating build\lib.win-amd64-3.8
creating build\lib.win-amd64-3.8\cryptography
copying src\cryptography\exceptions.py -> build\lib.win-a
copying src\cryptography\fernet.py -> build\lib.win-amd64
copying src\cryptography\utils.py -> build\lib.win-amd64-
copying src\cryptography\__about__.py -> build\lib.win-ar
copying src\cryptography\__init__.py -> build\lib.win-amc
creating build\lib.win-amd64-3.8\cryptography\hazmat
copying src\cryptography\hazmat\_oid.py -> build\lib.win-
copying src\cryptography\hazmat\__init__.py -> build\lib.
creating build\lib.win-amd64-3.8\cryptography\x509
copying src\cryptography\x509\base.py -> build\lib.win-ar
copying src\cryptography\x509\certificate_transparency.py
copying src\cryptography\x509\extensions.py -> build\lib.
copying src\cryptography\x509\general_name.py -> build\l:
copying src\cryptography\x509\name.py -> build\lib.win-ar
copying src\cryptography\x509\ocsp.py -> build\lib.win-ar
copying src\cryptography\x509\oid.py -> build\lib.win-amc
copying src\cryptography\x509\__init__.py -> build\lib.w:
creating build\lib.win-amd64-3.8\cryptography\hazmat\back
copying src\cryptography\hazmat\backends\interfaces.py ->
copying src\cryptography\hazmat\backends\__init__.py -> t
creating build\lib.win-amd64-3.8\cryptography\hazmat\bind
copying src\cryptography\hazmat\bindings\__init__.py -> t
creating build\lib.win-amd64-3.8\cryptography\hazmat\prim
copying src\cryptography\hazmat\primitives\cmac.py -> bu:
copying src\cryptography\hazmat\primitives\constant_time.
copying src\cryptography\hazmat\primitives\hashes.py -> t
copying src\cryptography\hazmat\primitives\hmac.py -> bu:
copying src\cryptography\hazmat\primitives\keywrap.py ->
copying src\cryptography\hazmat\primitives\mac.py -> bui
copying src\cryptography\hazmat\primitives\padding.py ->
copying src\cryptography\hazmat\primitives\serialization.
copying src\cryptography\hazmat\primitives\__init__.py ->
creating build\lib.win-amd64-3.8\cryptography\hazmat\back
copying src\cryptography\hazmat\backends\openssl\aead.py

```

```

copying src\cryptography\hazmat\backends\openssl\backend.
copying src\cryptography\hazmat\backends\openssl\ciphers.
copying src\cryptography\hazmat\backends\openssl\cmac.py
copying src\cryptography\hazmat\backends\openssl\decode_
copying src\cryptography\hazmat\backends\openssl\dh.py -
copying src\cryptography\hazmat\backends\openssl\dsa.py -
copying src\cryptography\hazmat\backends\openssl\ec.py -
copying src\cryptography\hazmat\backends\openssl\encode_
copying src\cryptography\hazmat\backends\openssl\hashes.p
copying src\cryptography\hazmat\backends\openssl\hmac.py
copying src\cryptography\hazmat\backends\openssl\ocsp.py
copying src\cryptography\hazmat\backends\openssl\rsa.py -
copying src\cryptography\hazmat\backends\openssl\utils.py
copying src\cryptography\hazmat\backends\openssl\x25519.p
copying src\cryptography\hazmat\backends\openssl\x509.py
copying src\cryptography\hazmat\backends\openssl\__init__
creating build\lib.win-amd64-3.8\cryptography\hazmat\bind
copying src\cryptography\hazmat\bindings\openssl\binding.
copying src\cryptography\hazmat\bindings\openssl\_condit:
copying src\cryptography\hazmat\bindings\openssl\__init__
creating build\lib.win-amd64-3.8\cryptography\hazmat\prim
copying src\cryptography\hazmat\primitives\asymmetric\dh.
copying src\cryptography\hazmat\primitives\asymmetric\dsa
copying src\cryptography\hazmat\primitives\asymmetric\ec.
copying src\cryptography\hazmat\primitives\asymmetric\pac
copying src\cryptography\hazmat\primitives\asymmetric\rsa
copying src\cryptography\hazmat\primitives\asymmetric\ut:
copying src\cryptography\hazmat\primitives\asymmetric\x25
copying src\cryptography\hazmat\primitives\asymmetric\__
creating build\lib.win-amd64-3.8\cryptography\hazmat\prim
copying src\cryptography\hazmat\primitives\ciphers\aead.p
copying src\cryptography\hazmat\primitives\ciphers\algor:
copying src\cryptography\hazmat\primitives\ciphers\base.p
copying src\cryptography\hazmat\primitives\ciphers\modes.
copying src\cryptography\hazmat\primitives\ciphers\__init
creating build\lib.win-amd64-3.8\cryptography\hazmat\prim
copying src\cryptography\hazmat\primitives\kdf\concatkdf.
copying src\cryptography\hazmat\primitives\kdf\hkdf.py -
copying src\cryptography\hazmat\primitives\kdf\kbkdf.py -
copying src\cryptography\hazmat\primitives\kdf\pbkdf2.py
copying src\cryptography\hazmat\primitives\kdf\scrypt.py
copying src\cryptography\hazmat\primitives\kdf\x963kdf.py
copying src\cryptography\hazmat\primitives\kdf\__init__.p
creating build\lib.win-amd64-3.8\cryptography\hazmat\prim
copying src\cryptography\hazmat\primitives\twofactor\hotp
copying src\cryptography\hazmat\primitives\twofactor\totp
copying src\cryptography\hazmat\primitives\twofactor\util
copying src\cryptography\hazmat\primitives\twofactor\__in
running egg_info
writing src\cryptography.egg-info\PKG-INFO
writing dependency_links to src\cryptography.egg-info\dep

```



```

writing requirements to src\cryptography.egg-info\require
writing top-level names to src\cryptography.egg-info\top_
reading manifest file 'src\cryptography.egg-info\SOURCES
reading manifest template 'MANIFEST.in'
no previously-included directories found matching 'docs\
warning: no previously-included files matching '*' found
writing manifest file 'src\cryptography.egg-info\SOURCES
running build_ext
generating cffi module 'build\temp.win-amd64-3.8\Release
creating build\temp.win-amd64-3.8
creating build\temp.win-amd64-3.8\Release
generating cffi module 'build\temp.win-amd64-3.8\Release
generating cffi module 'build\temp.win-amd64-3.8\Release
building '_openssl' extension
creating build\temp.win-amd64-3.8\Release\build
creating build\temp.win-amd64-3.8\Release\build\temp.win-
creating build\temp.win-amd64-3.8\Release\build\temp.win-
C:\Program Files (x86)\Microsoft Visual Studio 14.0\VC\BI
_openssl.c
build\temp.win-amd64-3.8\Release\_openssl.c(498): fatal e
error: command 'C:\\Program Files (x86)\\Microsoft Visual
-----
ERROR: Failed building wheel for cryptography
Running setup.py clean for cryptography
Failed to build cryptography
ERROR: Could not build wheels for cryptography which use P

```

也试了：

```
pip install cryptography
```

但问题依旧。

以及：

```
python -m pip install --no-use-pep517 mitmproxy
```

但报其他错误：

```

copying src\cryptography\hazmat\primitives\twofactor\__
running egg_info
writing src\cryptography.egg-info\PKG-INFO
writing dependency_links to src\cryptography.egg-info\c
writing requirements to src\cryptography.egg-info\requ
writing top-level names to src\cryptography.egg-info\to
reading manifest file 'src\cryptography.egg-info\SOURCE
reading manifest template 'MANIFEST.in'
no previously-included directories found matching 'doc
warning: no previously-included files matching '*' four
writing manifest file 'src\cryptography.egg-info\SOURCE
running build_ext
generating cffi module 'build\temp.win-amd64-3.8\Rel
creating build\temp.win-amd64-3.8
creating build\temp.win-amd64-3.8\Release
generating cffi module 'build\temp.win-amd64-3.8\Rel
generating cffi module 'build\temp.win-amd64-3.8\Rel
building '_openssl' extension
creating build\temp.win-amd64-3.8\Release\build
creating build\temp.win-amd64-3.8\Release\build\temp.w
creating build\temp.win-amd64-3.8\Release\build\temp.w
C:\Program Files (x86)\Microsoft Visual Studio 14.0\VC\
_openssl.c
build\temp.win-amd64-3.8\Release\_openssl.c(498): fatal
error: command 'C:\\Program Files (x86)\\Microsoft Vis
-----
Rolling back uninstall of cryptography
Moving to c:\program files\python38\lib\site-packages\cry
from C:\Program Files\Python38\Lib\site-packages\~crypt
Moving to c:\program files\python38\lib\site-packages\cry
from C:\Program Files\Python38\Lib\site-packages\~crypt
ERROR: Command errored out with exit status 1: 'C:\Program

```

以及其他折腾。

但最后是没解决。

具体过程详见：

- **【未解决】** windows中pip install mitmproxy失败：ERROR Could not build wheels for cryptography which use PEP 517 and cannot be installed directly

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## 如何使用

在（Mac、Win等）PC端安装了mitmproxy后，自带mitmdump。

此处介绍如何去使用mitmdump。

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## 通用逻辑

核心的通用逻辑是：

- 电脑端
  - 启动 `mitmdump` 代理
- 移动端
  - （初始化，只需第一次）安装 `mitmproxy` 的根证书
  - 给WiFi设置（PC端的`mitmdump`的）代理

即可正常使用代理，实现给移动端抓包等功能。

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## 电脑端启动mitmdump代理

比如，PC端运行对应命令：

```
mitmdump -k -p 8081 -s middleware/Save1.py
```

即可。

接下来分不同平台详细介绍具体细节。

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## Mac

接着介绍，如何在 Mac 中使用 mitmdump

举例：

Mac 中终端去运行：

```
mitmdump -k -p 8081 -s middleware/Save1.py
```

启动mitmdump的代理

然后给手机端加上此处Mac的mitmdump的代理

即可实现：脚本 Save1.py 把手机端发出的所有的 url = 请求 = 链接地址（还可以根据自己需要做一定过滤处理后再）保存起来（比如保存到一个文件中），供后续使用。

## 说明

**此处的Save1.py是个python脚本**

具体内容：

```

# -*- coding: utf-8 -*-

import json
import re
import os
import sys
# print("sys.executable=%s" % sys.executable)

try:
    import yaml
except Exception as err:
    print("Failed to import yaml: %s" % err)

class Saver:

    def __init__(self):
        self.Allurls = set()
        self.DataFilePath = self.get_DataFilePath()
        self.REMOVED = self.get_NeedSkip()

    def get_DataFilePath(self):
        # SavePath = "./middleware/Save.json"
        SavePath = os.path.join("middleware", "Save.json")
        with open(SavePath, "r", encoding="utf-8") as f:
            text = f.read()
            data = json.loads(text)
            return data["1"]

    def get_NeedSkip(self):
        # filepath = "./middleware/config.yml"
        filepath = os.path.join("middleware", "config.yml")
        try:
            with open(filepath, "r", encoding="utf-8") as f:
                text = f.read()
        except Exception:
            with open(filepath, "r") as f:
                text = f.read()
        config = yaml.load(text)
        REMOVED = [item.replace('.', '\\.') for item in config]
        return "|".join(REMOVED)

    def get_ContentType(self, headers):
        ContentType = "None"
        patten = "b'Accept', b'(.*)'"
        result = re.search(patten, headers)
        if result:
            ContentType = result.group(1)
            ContentType = ContentType.split(",")[0]
        return ContentType if not "*" in ContentType else "

```

```

def request(self, flow):
    url = flow.request.url
    ContentType = self.get_ContentType(str(flow.request.url))
    if not url in self.Allurls and not re.search(self.Allurls, url):
        self.Allurls.add(url)
        print(url)
        with open(self.DataFilePath, "a", encoding="utf-8"):
            f.write(url + "|" + ContentType)
            f.write('\n')

addons = [Saver()]

```

若想要后台运行，则后面加 &

```
mitmdump -k -p 8081 -s middleware/Save1.py &
```

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# 移动端安装mitmproxy根证书

## 通用逻辑

即给移动端手机中安装 mitmproxy 的

SSL代理证书 = ssl证书 = 根证书 = root CA

核心逻辑：

- 手机中浏览器中打开 <http://mitm.it>
- 然后根据提示去下载（ pem 或 crt ）证书（文件）
- 点击安装证书文件

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## iOS

此处整理iOS的iPhone手机中，安装mitmproxy的根证书的详细情况：

- iOS
  - iPhone
    - 详见
      - 【已解决】给iPhone添加mitmproxy的mitmdump代理用于保存抓包链接到文件
      - 【已解决】iPhone8P中安装mitmproxy的CA的ssl证书

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## Android

此处整理安卓手机中，安装mitmproxy的根证书，对于不同手机的详细情况：

- Android
  - 华为
    - 荣耀
      - 【记录】给安卓手机中安装mitmproxy代理的SSL证书
      - 【记录】给自动抓包工具的安卓手机设置mitmproxy代理用于能抓包到链接地址
  - 小米
    - 小米9
      - 相关
        - 【已解决】安卓手机小米9中安装mitmproxy的SSL代理证书
          - 【无需解决】小米9中WLAN或WAPI证书中找不到mitmproxy的SSL的pem证书文件
          - 【无法解决】小米9中用ES文件管理器安装pem证书
    - 红米Note8Pro
      - 问题
        - 用微信或小米浏览器无法下载pem证书文件
      - 解决办法：
        - 换QQ浏览器就可以正常下载pem证书文件mitmproxy-ca-cert.pem
        - 细节
          - 不能用：
            - 微信
              - 点击Android无反应
            - 小米浏览器
              - 点击Android，弹框下载：perm.crt
                - 而不是希望的：mitmproxy-ca-cert.pem
                - 关键是：始终无法下载成功
          - 只能用：QQ浏览器
            - 点击Android，可以弹框下载：mitmproxy-ca-cert.pem
              - 是我们希望的pem证书
              - 也可以正常（瞬间）下载完毕
    - 详见

- 【无法解决】红米Note8Pro中用微信或小米浏览器下载mitmproxy的SSL代理证书
- 【已解决】红米Note8Pro中用QQ浏览器下载mitmproxy的Android的SSL代理证书
- 相关
  - 【已解决】红米Note8Pro中安装mitmproxy的SSL代理证书
- 红米10X
  - 问题：下载证书失败
    - 自带小米浏览器
      - 可弹框下载pem.crt，但下载失败
    - QQ浏览器
      - 可弹框下载mitmproxy-ca-cert.pem，但下载失败
      - 偶然甚至会提示：
        - if you can see this, traffic is not passing through mitmproxy
    - UC浏览器
      - 可弹框下载mitmproxy-ca-cert.pem，但下载失败
      - 偶然甚至会提示：
        - if you can see this, traffic is not passing through mitmproxy
  - 解决办法：
    - 试了多次，最后终于：
      - UC浏览器
        - 可弹框并成功下载mitmproxy-ca-cert.pem
  - 详见：
    - 【已解决】红米10X安卓手机中无法下载mitmproxy的证书文件
- Vivo
  - iQOO U1x
    - 用QQ浏览器无法下载pem文件，提示下载失败
      - 解决办法：换Vivo的内置浏览器，即可下载mitmproxy-ca-cert.pem
    - 直接点击pem证书文件，无法安装：未找到证书文件
      - 问题现象
        - QQ浏览器下载到mitmproxy-ca-cert.pem，直接点击提示：找不到对应程序打开该文件
        - 更多安全设置-》从手机存储和SD卡安装，点击提示：未找到证书文件
        - 从文件管理中点击已下载的mitmproxy-ca-cert.pem，选 证书安装程序，也提示：未找到证书文件

- 原因：Vivo不支持pem证书文件，只支持crt证书文件
- 解决办法：把文件pem后缀改为crt
  - 点击即可正常安装
- 详见：
  - 【已解决】给安卓手机Vivo的iQOO U1x下载和安装mitmproxy的SSL代理证书
  - 【已解决】安卓手机Vivo的iQOO U1x中手动安装mitmproxy-ca-cert.pem证书文件
  - 【已解决】安卓手机Vivo的iQOO U1x中点击安装mitmproxy的pem证书报错：未找到证书文件
  - 【未解决】给安卓手机Vivo的iQOO U1x初始化mitmdump的代理环境

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## 移动端给WiFi设置代理

之后再去给移动端的WiFi设置（PC端的mitmdump的）代理（信息）。

- 细节详见
  - [如何添加代理 移动端 · 网络中转站：代理技术](#)

此处简单举例如下：

## iOS

### iPhone



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## 常见问题

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## No module named yaml

- 现象

Mac中用brew安装了mitmproxy，然后去运行：

```
mitmdump -p 8081 -s middleware/Save1.py
```

但是报错：

```
No module named yaml
```

- 原因

Mac中通过brew安装的mitmproxy，会调用自己内部安装的python（此处是3.7.5）

而不是Mac中自己Python（2.7或3.8），mac中的python中都安装过yaml了

而mitmproxy中python，没有安装过yaml，所以上述脚本会报错。

- 解决办法

不要用brew安装，而是用系统中的python的pip去安装mitmproxy

```
pip install mitmproxy
```

注：系统中的python是,此处是用的3.8，用pyenv设置全局为3.8

另外此处2.7的python中，pip安装mitmproxy会失败。

之后即可正常调用

```
mitmdump -p 8081 -s middleware/Save1.py
```

其中python解析器用的是此处系统的python了，因此可以正常找到（系统中python中已安装的）yaml，而不会报错了。

具体细节详见：

- 【基本解决】Mac中mitmdump运行命令报错：in script py No module named yaml

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## if you can see this, traffic is not passing through mitmproxy

- 现象

手机中浏览器打开 <http://mitm.it> 后，看到页面提示：

```
if you can see this, traffic is not passing through  
mitmproxy
```

- 原因

需要你手机中WiFi加上PC端的mitmproxy (mitmdump) 的代理后，打开 <http://mitm.it> 后才能正常显示页面

- 解决办法

- PC端 (Mac) 中启动mitmproxy的代理
  - 举例
    - `mitmdump -k -p 8081 -s middleware/Save1.py`
- 然后再给手机端的当前WiFi中加上对应的mitmdump的代理

细节详见：

【已解决】红米Note8Pro中去下载mitmproxy证书提示：if you can see this, traffic is not passing through mitmproxy

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## 其他

此处整理一些和 `mitmdump` 相关的其他内容。

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## 代码调用

- 背景需求

Mac中想要用Python代码去控制 `mitmdump`，即可以启动和停止 `mitmdump`

问题就转化为，Mac中如何写Python代码，能够检测到mitmdump的进程状态，如何解析具体信息，如何杀死对应，mitmdump进程等过程。

- 最后代码

```

def stopExistingMitmproxy(curDevId):
    logging.info("curDevId=%s", curDevId)
    curDevIdInt = int(curDevId)
    isCheckCmdRunOk, mitmdumpInfoList = checkMitmdumpStatus()
    logging.info("isCheckCmdRunOk=%s, mitmdumpInfoList=%s", isCheckCmdRunOk, mitmdumpInfoList)
    isRunning = bool(mitmdumpInfoList)
    logging.info("isRunning=%s", isRunning)

    if isCheckCmdRunOk and isRunning:
        foundExistedDevId = False
        existedPid = None

        for eachMitmdumpInfo in mitmdumpInfoList:
            eachDevId = eachMitmdumpInfo["devId"]
            if eachDevId == curDevIdInt:
                foundExistedDevId = True
                existedPid = eachMitmdumpInfo["pid"]
                break

        if foundExistedDevId:
            killOK, errCode = utils.killProcess(existedPid)
            logging.info("killOK=%s, errCode=%s", killOK, errCode)

def debugStartProxy():
    stopExistingMitmproxy(gCurDevId)

    taskFileFullPath = "/Users/limao/dev/xxx/crawler/appAutoTest/taskFileFullPath"
    taskId = "5e9552d1c5c2eb3ccdf777bc"
    startTaskProxy(taskId, gCurDevId, taskFileFullPath)

    time.sleep(2)

    isCheckCmdRunOk, mitmdumpInfoList = checkMitmdumpStatus()
    logging.info("isCheckCmdRunOk=%s, mitmdumpInfoList=%s", isCheckCmdRunOk, mitmdumpInfoList)

def checkMitmdumpStatus():
    # check mitmdump is indeed running
    isCheckCmdRunOk, mitmdumpInfoList = False, []
    checkMitmdumpCmd = "ps aux | grep mitmdump"
    isCheckCmdRunOk, cmdResult = utils.getCommandOutput(checkMitmdumpCmd)
    logging.info("isCheckCmdRunOk=%s, cmdResult=%s", isCheckCmdRunOk, cmdResult)
    if isCheckCmdRunOk:
        # resultList = cmdResult.split("\n")
        resultList = cmdResult.split(os.linesep)
        logging.info("resultList=%s", resultList)
        # limao          56562    0.0   0.0   4267948    664
        # limao          56560    0.0   0.0   4268636    1112
        # limao          55396    0.0   0.1   4381268    11568
        if resultList:
            for eachLine in resultList:

```

```

        logging.info("eachLine=%s", eachLine)
        mitmdumpP = "^\\s*(?P<username>\\w+)\\s+(?P<port>\\d+)"
        foundMitmdump = re.search(mitmdumpP, eachLine)
        logging.info("foundMitmdump=%s", foundMitmdump)
        if foundMitmdump:
            username = foundMitmdump.group("username")
            pid = foundMitmdump.group("pid")
            port = foundMitmdump.group("port")
            devId = foundMitmdump.group("devId")
            scriptFile = foundMitmdump.group("scriptFile")
            logging.info("username=%s, pid=%s, port=%s", username, pid, port)
            curMitmdumpDict = {
                "username": username,
                "pid": int(pid),
                "port": int(port),
                "scriptFile": scriptFile,
                "devId": int(devId),
            }
            mitmdumpInfoList.append(curMitmdumpDict)
        logging.info("mitmdumpInfoList=%s", mitmdumpInfoList)
        return isCheckCmdRunOk, mitmdumpInfoList

def killProcess(pid):
    """Kill process by pid

    Args:
        pid (id): process ID
    Returns:
    Raises:
    """
    isKillOk, errCode = False, 0
    pidInt = int(pid)
    killCmd = "kill -9 %s" % pidInt
    returnCode = os.system(killCmd)
    logging.debug("Command: %s -> returnCode=%s", killCmd, returnCode)
    RETURN_CODE_OK = 0
    if returnCode == RETURN_CODE_OK:
        isKillOk = True
    else:
        errCode = returnCode
    return isKillOk, errCode

```

基本完成了想要的功能：

- 在启动任务前，启动mitmproxy
- 如果之前已有当前设备id的mitmdump在运行，就kill掉
  - 因为很可能是之前的旧的task的对应的代理，所以要关闭掉，再重新启动，才能传递当前task的数据文件
- 然后再去启动mitmproxy，之后再去检测看看是否的确已启动

## 后续优化版本

```

MitmdumpPortBase = 8080
curDevId = 1
RunProxyShellFilename = "runProxy.sh"

def generateShellFile(fileContentStr, shellFilename, taskId):
    """Generate shell file, which is used to run command
    such as
        mitmdump proxy
        crawlerStart.py
        USB port forward
        wda server(xcodebuild/XCode)
    """
    logging.debug("fileContentStr=%s, shellFilename=%s, taskId=%s", fileContentStr, shellFilename, taskId)
    if taskId:
        shellFolder = getTaskShellFolder(taskId)
        # /Users/limao/dev/xxx/crawler/appAutoCrawler/AppCrawler
    else:
        shellFolder = OutputRootFolder
    logging.debug("shellFolder=%s", shellFolder)
    shellFullPath = os.path.join(shellFolder, shellFilename)
    logging.debug("shellFullPath=%s", shellFullPath)
    # /Users/limao/dev/xxx/crawler/appAutoCrawler/AppCrawler
    shellAbsFullPath = os.path.abspath(shellFullPath)
    logging.debug("shellAbsFullPath=%s", shellAbsFullPath)
    respShellFullPath = shellAbsFullPath
    utils.saveTextToFile(respShellFullPath, fileContentStr)
    utils.chmodAddX(shellFullPath, isOnlySelf=False)
    # utils.chmodAddX(respShellFullPath)
    logging.debug("respShellFullPath=%s", respShellFullPath)
    # /Users/limao/dev/xxx/crawler/appAutoCrawler/AppCrawler
    return respShellFullPath

#----- generate start service command -----

def generateMitmproxyStartCommand(curDevId):
    curMitmdumpPort = MitmdumpPortBase + int(curDevId)
    # mitmproxyStartCommand = "mitmdump -p %d -s middleware/Save1.py" % curMitmdumpPort
    mitmproxyStartCommand = "mitmdump -k -p %d -s middleware/Save1.py" % curMitmdumpPort
    logging.debug("mitmproxyStartCommand=%s", mitmproxyStartCommand)
    # mitmdump -k -p 8081 -s middleware/Save1.py
    mitmproxyCommandList = [
        # "cd /Users/limao/dev/xxx/crawler/appAutoCrawler/AppCrawler",
        "cd %s" % AppCrawlerFolder,
        "pwd",
        mitmproxyStartCommand,
    ]
    logging.debug("mitmproxyCommandList=%s", mitmproxyCommandList)
    # ['cd /Users/limao/dev/xxx/crawler/appAutoCrawler/AppCrawler',

```

```

# mitmproxyCommandStr = ";".join(mitmproxyCommandList)
# mitmproxyCommandStr = "; ".join(mitmproxyCommandList)
mitmproxyCommandStr = "\n".join(mitmproxyCommandList)
# cd /Users/limao/dev/xxx/crawler/appAutoCrawler/AppCra
# pwd
# mitmdump -k -p 8081 -s middleware/Save1.py
logging.debug("mitmproxyCommandStr=%s", mitmproxyComm
return mitmproxyCommandStr

#----- generate shell file -----

def generateRunProxyShell(devId, taskId):
    mitmproxyCmdStr = generateMitmproxyStartCommand(devId)
    logging.debug("mitmproxyCmdStr=%s", mitmproxyCmdStr)
    return generateShellFile(mitmproxyCmdStr, RunProxyShell

#----- detect service status -----

def detectMitmdumpStatus():
    # crifanli 9428 0.0 0.6 4341956 19792 s006 S+ 9:16上午
    # crifanli 10982 0.0 0.0 4268032 776 s005 S+ 1:51下午 0
    # crifanli 10980 0.0 0.0 4278852 1116 s005 S+ 1:51下午
    # mitmdumpP = "^s*(?P<username>\w+)\s+(?P<pid>\d+)\s+."
    mitmdumpP = "^s*(?P<username>\w+)\s+(?P<pid>\d+)\s+."
    return utils.grepProcessStatus("mitmdump", mitmdumpP)

def startTaskProxy(devId, taskId):
    logging.info("Start proxy for: devId=%s, taskId=%s", devId, taskId)
    proxyShellFile = generateRunProxyShell(devId, taskId)
    logging.debug("proxyShellFile=%s", proxyShellFile)
    utils.launchTerminalRunShellCommand(proxyShellFile)

#----- makesure service running -----

def makesureProxyingRunning(devId, taskId):
    def checkProxyStatus():
        isCheckedOk, isRunning, infoList = detectMitmdumpSta
        return isCheckedOk and isRunning

    def startCurTaskProxy():
        startTaskProxy(devId, taskId)

    makesureServiceRunning(checkProxyStatus, startCurTaskP

```

相关的:

other/common/libs/utils.py



```

import re

#-----
# Process
#-----

def runCommand(consoleCommand):
    """run command using subprocess call"""
    isRunCmdOk = False
    errMsg = "Unknown Error"

    try:
        resultCode = subprocess.check_call(consoleCommand,
        if resultCode == 0:
            isRunCmdOk = True
            errMsg = ""
        else:
            isRunCmdOk = False
            errMsg = "%s return code %s" % (consoleCommand, resultCode)
    except subprocess.CalledProcessError as callProcessError:
        isRunCmdOk = False
        errMsg = str(callProcessError)
        # "Command 'ffmpeg -y -i /Users/crifan/.../debug/ex

    return isRunCmdOk, errMsg

def getCommandOutput(consoleCommand, consoleOutputEncoding=
    """
    get command output from terminal
    """
    # print("getCommandOutput: consoleCommand=%s" % consoleCommand)
    isRunCmdOk = False
    consoleOutput = ""
    try:
        # consoleOutputByte = subprocess.check_output(consoleCommand,
        consoleOutputByte = subprocess.check_output(consoleCommand,

        # commandPartList = consoleCommand.split(" ")
        # print("commandPartList=%s" % commandPartList)
        # consoleOutputByte = subprocess.check_output(commandPartList,
        # print("type(consoleOutputByte)=%s" % type(consoleOutputByte))
        # print("consoleOutputByte=%s" % consoleOutputByte)

        consoleOutput = consoleOutputByte.decode(consoleOutputEncoding)
        consoleOutput = consoleOutput.strip() # '640x360'
        isRunCmdOk = True
    except subprocess.CalledProcessError as callProcessError:

```

```

        cmdErrStr = str(callProcessErr)
        print("Error %s for run command %s" % (cmdErrStr, c

# print("isRunCmdOk=%s, consoleOutput=%s" % (isRunCmdOk, consoleOutput)
return isRunCmdOk, consoleOutput

def launchTerminalRunShellCommand(shellFile, isForceNewInst
    """in Mac, Launch terminal(Mac Terminal / iTerm2) and e

Args:
    shellFile (str): shell file full path
    isUseiTerm2 (bool): True to use iTerm2, False to use Mac Terminal
    isForceNewInstance (bool): whether pass -n to open,

Returns:
Raises:
    """
    logging.debug("shellFile=%s, isForceNewInstance=%s, is

TerminalApp_iTerm2 = '/Applications/iTerm.app'
TerminalApp_Terminal = 'Terminal'
if isUseiTerm2:
    terminalApp = TerminalApp_iTerm2
else:
    terminalApp = TerminalApp_Terminal

cmdList = [
    "/usr/bin/open",
]

if isForceNewInstance:
    cmdList.append("-n")

extarArgs = shellFile
restCmdList = [
    "-a",
    terminalApp,
    '--args',
    extarArgs,
]
cmdList.extend(restCmdList)
logging.debug("cmdList=%s" % cmdList)

curProcess = subprocess.Popen(cmdList, stdin=subprocess.PIPE)
logging.debug("curProcess=%s" % curProcess)

returnCode = None
while True:
    returnCode = curProcess.poll()
    logging.debug("returnCode=%s", returnCode)
    if returnCode is not None:
        logging.debug("subprocess end: returnCode=%s",

```

```

        break
        time.sleep(0.5)

    logging.debug("Final returnCode=%s", returnCode)
    logging.debug("Complete launch %s and run shell %s", te

def killProcess(pid):
    """Kill process by pid

    Args:
        pid (id): process ID
    Returns:
    Raises:
    """
    isKillOk, errCode = False, 0
    pidInt = int(pid)
    killCmd = "kill -9 %s" % pidInt
    returnCode = os.system(killCmd)
    logging.debug("Command: %s -> returnCode=%s", killCmd,
    RETURN_CODE_OK = 0
    if returnCode == RETURN_CODE_OK:
        isKillOk = True
    else:
        errCode = returnCode
    return isKillOk, errCode

def grepProcessStatus(processFile, singleLinePattern, psCmd
    """grep process info status from ps output

    Args:
        processFile (str): process file name
        singleLinePattern (str): single process line search
        psCmd (str): ps command, default: ps aux
    Returns:
    Raises:
    Examples:
        input: "crawlerStart.py", "^\\s*(?P<username>\\w+)\\s-
        output: [{'username': 'limao', 'pid': '64320', 'ta
    """
    logging.debug("processFile=%s, singleLinePattern=%s", p
    isCheckCmdRunOk, isRunning, processInfoList = False, Fa

    groupNameList = re.findall("\\(\\?P<(\\w+)>", singleLinePa
    logging.debug("groupNameList=%s", groupNameList)
    # groupNameList=['username', 'pid', 'port', 'scriptFile
    grepProcessCmd = "%s | grep %s" % (psCmd, processFile)
    logging.debug("grepProcessCmd=%s", grepProcessCmd)
    isCheckCmdRunOk, cmdResult = getCommandOutput(grepProce
    logging.debug("isCheckCmdRunOk=%s, cmdResult=%s", isChe
    if isCheckCmdRunOk:
        # lineSeparator = "\n"

```

```

lineSeparator = os.linesep
resultList = cmdResult.split(lineSeparator)
logging.debug("resultList=%s", resultList)
# limao          56562    0.0  0.0  4267948    664
# limao          56560    0.0  0.0  4268636    1112
# limao          55396    0.0  0.1  4381268    11568
if resultList:
    for eachLine in resultList:
        logging.debug("eachLine=%s", eachLine)
        foundProcess = re.search(singleLinePattern, eachLine)
        logging.debug("foundProcess=%s", foundProcess)
        if foundProcess:
            curProcessInfoDict = {}
            for eachKey in groupNameList:
                curValue = foundProcess.group(eachKey)
                curProcessInfoDict[eachKey] = curValue
            logging.debug("curProcessInfoDict=%s", curProcessInfoDict)
            processInfoList.append(curProcessInfoDict)

isRunning = bool(processInfoList)
logging.debug("isRunning=%s, processInfoList=%s", isRunning, processInfoList)
return isCheckCmdRunOk, isRunning, processInfoList

```

注：

相关库文件的最新版，详见：

- <https://github.com/crifan/crifanLibPython/blob/master/python3/crifanLib/crifanSystem.py>
  - grepProcessStatus
  - killProcess
  - launchTerminalRunShellCommand
  - getCommandOutput
  - runCommand

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## 打包exe

windows 中用 PyInstaller 打包 python 脚本为exe文件

其中python脚本调用到 mitmdump

可以理解为：打包mitmdump的Python为exe

核心命令：

```
pyinstaller pymitdump\mitmdumpStartApi.py --distpath pymit  
pyinstaller pymitdump\mitmdumpOtherApi.py --distpath pymit
```

可以生成2个exe文件。

- 细节详见：【已解决】windows中用PyInstaller打包mitmdump的Python脚本为exe

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## 附录

下面列出相关参考资料。

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## help语法

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## 参考资料

- 【已解决】Mac中安装Mitmdump和启动服务
- 【基本解决】Mac中mitmdump运行命令报错：in script py No module named yaml
- 【未解决】windows中pip安装mitmproxy报错：build \_openssl.c error C2065 X509\_V\_FLAG\_CB\_ISSUER\_CHECK undeclared identifier
- 【未解决】windows中pip install mitmproxy失败：ERROR Could not build wheels for cryptography which use PEP 517 and cannot be installed directly
- 【已解决】iPhone8P中安装mitmproxy的CA的ssl证书
- 【已解决】给iPhone添加mitmproxy的mitmdump代理用于保存抓包链接到文件
- 【记录】给安卓手机中安装mitmproxy代理的SSL证书
- 【记录】给自动抓包工具的安卓手机设置mitmproxy代理用于能抓包到链接地址
- 【已解决】安卓手机小米9中安装mitmproxy的SSL代理证书
- 【无需解决】小米9中WLAN或WAPI证书中找不到mitmproxy的SSL的pem证书文件
- 【无法解决】小米9中用ES文件管理器安装pem证书
- 【无法解决】红米Note8Pro中用微信或小米浏览器下载mitmproxy的SSL代理证书
- 【已解决】红米Note8Pro中用QQ浏览器下载mitmproxy的Android的SSL代理证书
- 【已解决】红米10X安卓手机中无法下载mitmproxy的证书文件
- 【已解决】给安卓手机ViVo的iQOO U1x下载和安装mitmproxy的SSL代理证书
- 【已解决】安卓手机Vivo的iQOO U1x中手动安装mitmproxy-ca-cert.pem证书文件
- 【已解决】安卓手机Vivo的iQOO U1x中点击安装mitmproxy的pem证书报错：未找到证书文件
- 【未解决】给安卓手机Vivo的iQOO U1x初始化mitmdump的代理环境
- 【已解决】给VMWare中macOS中抓包项目开启mitmdump代理
- 【已解决】红米Note8Pro中去下载mitmproxy证书提示：if you can see this, traffic is not passing through mitmproxy
- 【已解决】windows中用PyInstaller打包mitmdump的Python脚本为exe
- 【已解决】自动抓包平台化：Python调用命令行启动mitmproxy代理
- 
- [Mitmproxy教程 - zha0gongz1 - 博客园](#)
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