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# 抓包代理利器: mitmproxy

• 最新版本: v1.0 • 更新时间: 20210114

### 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,再去移动端初始化安装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各种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、if you can see this, traffic is not passing through mitmproxy、Cannot validate certificate hostname without SNI、ssl3\_read\_bytes sslv3 alert certificate unknown、-s时无法指定python版本、检测到代理显示异常、mitmdump偶尔突然无效、ssl3\_get\_record wrong version number、SysCallError 10054 WSAECONNRESET等等。还有其他方面,比如用代码控制mitmdump的运行、win中如何给mitmdump的python打包成exe。最后附上mitmdump、mitmproxy和mitmweb的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:

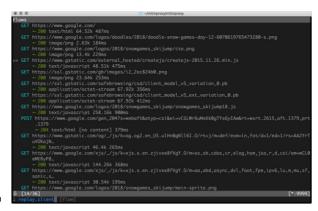
crifan/crifan\_ebook\_readme: Crifan的电子书的使用说明

# mitmproxy概述

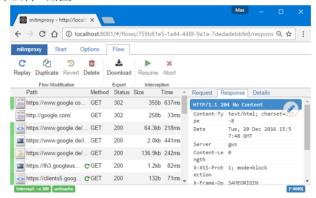
- mitmproxy
  - 。 名词解析
    - mitmproxy = mitm 的 proxy
      - mitm = MITM = Man-In-The-Middle
        - 直译: 人在中间
          - 在中间 ->
            - 首先要确保原先网络请求能继续
              - 所以就是代理的功能: **正常转发**原有 网络请求
            - 但也可以干很多事情
              - 比如
                - 记录、保存网络请求
                - **拦截**(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



- 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

# mitmdump

mitmdump 是 mitmproxy 的命令行版本。

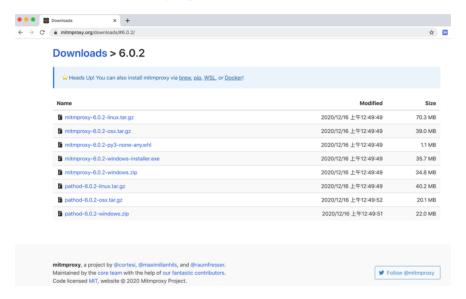
mitmproxy 和 mitmdump 的用法和逻辑基本一致。

此处主要介绍 mitmdump 的使用。

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

# 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。

### 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
```

### 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): warnir
 build\temp.win-amd64-3.8\Release\_openssl.c(11095): error
 build\temp.win-amd64-3.8\Release\_openssl.c(11096): error
 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 Visua'
 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 PI
```

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:\program
       cwd: C:\Users\xxx\AppData\Local\Temp\pip-install-x4h
  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-am
  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\csp.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 -> l
  creating build\lib.win-amd64-3.8\cryptography\hazmat\bince
  copying src\cryptography\hazmat\bindings\__init__.py -> l
  creating build\lib.win-amd64-3.8\cryptography\hazmat\prir
  copying src\cryptography\hazmat\primitives\cmac.py -> bu:
  copying src\cryptography\hazmat\primitives\constant_time.
  copying src\cryptography\hazmat\primitives\hashes.py -> I
  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_a
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_a
copying src\cryptography\hazmat\backends\openssl\hashes.;
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.;
copying src\cryptography\hazmat\backends\openssl\x509.py
copying src\cryptography\hazmat\backends\openssl\__init_
creating build\lib.win-amd64-3.8\cryptography\hazmat\bince
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\prir
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\x2!
copying src\cryptography\hazmat\primitives\asymmetric\__:
creating build\lib.win-amd64-3.8\cryptography\hazmat\prim
copying src\cryptography\hazmat\primitives\ciphers\aead.;
copying src\cryptography\hazmat\primitives\ciphers\algor:
copying src\cryptography\hazmat\primitives\ciphers\base.;
copying src\cryptography\hazmat\primitives\ciphers\modes.
copying src\cryptography\hazmat\primitives\ciphers\ init
creating build\lib.win-amd64-3.8\cryptography\hazmat\prir
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__.;
creating build\lib.win-amd64-3.8\cryptography\hazmat\prir
copying src\cryptography\hazmat\primitives\twofactor\hot;
copying src\cryptography\hazmat\primitives\twofactor\toti
copying src\cryptography\hazmat\primitives\twofactor\uti'
copying src\cryptography\hazmat\primitives\twofactor\__ir
running egg_info
writing src\cryptography.egg-info\PKG-INFO
writing dependency_links to src\cryptography.egg-info\der
```

```
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\\Releas
  creating build\temp.win-amd64-3.8
  creating build\temp.win-amd64-3.8\Release
  generating cffi module 'build\\temp.win-amd64-3.8\\Releas
  generating cffi module 'build\\temp.win-amd64-3.8\\Releas
  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\B]
  openssl.c
  build\temp.win-amd64-3.8\Release\_openssl.c(498): fatal &
  error: command 'C:\\Program Files (x86)\\Microsoft Visua'
  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 Pi
```

#### 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 'docs
   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\\Rele
    creating build\temp.win-amd64-3.8
    creating build\temp.win-amd64-3.8\Release
    generating cffi module 'build\\temp.win-amd64-3.8\\Rele
    generating cffi module 'build\\temp.win-amd64-3.8\\Rele
    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): fata
    error: command 'C:\\Program Files (x86)\\Microsoft Vist
 Rolling back uninstall of cryptography
 Moving to c:\program files\python38\lib\site-packages\cry
   from C:\Program Files\Python38\Lib\site-packages\~ryptog
 Moving to c:\program files\python38\lib\site-packages\cry
   from C:\Program Files\Python38\Lib\site-packages\~ryptog
ERROR: Command errored out with <a href="exit">exit</a> 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

# 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。

# 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。

# 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。

### 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)
    import yaml
except Exception as err:
    print("Failed to import yaml: %s" % err)
class <u>Saver</u>:
    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")
            with open(filepath, "r", encoding="utf-8") as 1
                text = f read()
        except Exception:
            with open(filepath, "r") as f:
               text = f read()
        config = yaml.load(text)
        REMOVED = [item.replace('.','\.') for item in conf:
        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))
    if not url in self.Allurls and not re.search(self.for self.Allurls.add(url))
    print(url)
    with open(self.DataFilePath, "a", encoding="uttors")
        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 &
```

# 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

### 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

### **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: mitmproxyca-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

# 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**



# 常见问题

# 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

# 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

# Cannot validate certificate hostname without SNI

### 此处通过:

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

### 加上了

- -k == --ssl-insecure
  - Do not verify upstream server SSL/TLS certificates

### 从而规避了:

TlsException('Cannot validate certificate hostname without

### 的问题。

- 细节详见
  - 【已解决】mitmproxy代理报错: Cannot establish TLS with 443 sni None TlsException Cannot validate certificate hostname without SNI
  - 【未解决】安卓抓包mitmproxy报错: TIsException SSL handshake Error routines ssl3\_get\_record wrong version number

# sslv3 alert certificate unknown

mitmdump访问部分url出错:

比如:

某次报错:

```
192.168.31.177:50670: CONNECT 6ib5h.com:443
<< Cannot establish TLS with client (sni: 6ib5h.com): TlsEx
```

和

抓包安卓app 现金巴士 时:



对应mitmdump的log:

• 原因

app内部做了certificate pinning 证书固定 的技术

app内部给证书做了指纹,只允许来自服务器的证书,匹配后才认为是合法的有效的,否则就拒绝

即拒绝那些指纹不匹配的证书

- 如何解决
  - 。 分2种情况:
    - 用 tls\_passthrough.py 实现部分解决
    - 无法解决

## 用 tls\_passthrough.py 实现部分解决

借用别人的脚本:

tls\_passthrough.py

去:

- 要么直接利用:
  - o mitmproxy -s tls\_passthrough.py
- 要么整理到自己的脚本中:
  - o mitmdump −p 8081 −s Save1.py

其中: Save1.py

```
# _*_ coding: utf-8 _*_
import json
import re
import os
import sys
print("sys.executable=%s" % sys.executable)
class Saver:
    def __init__(self):
    def request(self, flow):
        curReq = flow request
    url = curReq url
        headers = curReq headers
        print("url=%s, headers=%s" % (url, headers))
    # do what you want
    # eg: save something to some file
addons = [Saver()]
This inline script allows conditional TLS Interception base
on a user-defined strategy.
Example:
   > mitmdump -s tls_passthrough.py
    1. curl --proxy http://localhost:8080 https://example.c
    // works - we'll also see the contents in mitmproxy
    2. curl --proxy http://localhost:8080 https://example.c
    // still works - we'll also see the contents in mitmpro
    3. curl --proxy http://localhost:8080 https://example.c
    // fails with a certificate error, which we will also !
    4. curl --proxy http://localhost:8080 https://example.c
    // works again, but mitmproxy does not intercept and we
Authors: Maximilian Hils, Matthew Tuusberg
import collections
import random
from enum import Enum
import mitmproxy
from mitmproxy import ctx
from mitmproxy exceptions import TlsProtocolException
from mitmproxy.proxy.protocol import TlsLayer, RawTCPLayer
class InterceptionResult(Enum):
    success = True
```

```
failure = False
    skipped = None
class _TlsStrategy:
   Abstract base class for interception strategies.
   def __init__(self):
        # A server_address -> interception results mapping
        self.history = collections.defaultdict(lambda: col)
   def should_intercept(self, server_address):
        Returns:
           True, if we should attempt to intercept the cor
            False, if we want to employ pass-through instea
        raise NotImplementedError()
   def record_success(self, server_address):
        self.history[server_address].append(InterceptionRes
   def record_failure(self, server_address):
        self history [server_address] append (InterceptionRes
   def record_skipped(self, server_address):
        self.history[server_address].append(InterceptionRes
class ConservativeStrategy(_TlsStrategy):
    Conservative Interception Strategy - only intercept if
   in the history.
   def should_intercept(self, server_address):
        if InterceptionResult.failure in self.history[serve
            return False
        return True
class ProbabilisticStrategy(_TlsStrategy):
   Fixed probability that we intercept a given connection.
   def __init__(self, p):
        self_p = p
        super(ProbabilisticStrategy, self).__init__()
   def should_intercept(self, server_address):
        return random.uniform(0, 1) < self.p
```

```
class TlsFeedback(TlsLayer):
    Monkey-patch _establish_tls_with_client to get feedback
    successfully on the client connection (which may fail of
    def _establish_tls_with_client(self):
        server_address = self.server_conn.address
        try:
            super(TlsFeedback, self) __establish_tls_with_c'
        except TlsProtocolException as e:
            tls_strategy_record_failure(server_address)
            raise e
        else:
            tls_strategy record_success (server_address)
# inline script hooks below.
tls_strategy = None
def load(l):
    ladd option(
        "tlsstrat", int, 0, "TLS passthrough strategy (0-10)
def configure(updated):
    global tls_strategy
    if ctx.options.tlsstrat > 0:
        tls_strategy = ProbabilisticStrategy(float(ctx.opt:
    else:
        tls_strategy = ConservativeStrategy()
def next_layer(next_layer):
    This hook does the actual magic - if the next layer is
    we check if we want to enter pass-through mode instead.
    if isinstance(next_layer, TlsLayer) and next_layer._cl:
        server_address = next_layer.server_conn.address
        if tls_strategy.should_intercept(server_address):
            # We try to intercept.
            # Monkey-Patch the layer to get feedback from 1
            next_layer__class__ = TlsFeedback
        else:
            # We don't intercept - reply with a pass-through
            mitmproxy.ctx.log("TLS passthrough for %s" % re
            next_layer_replacement = RawTCPLayer(next_layer)
```

next\_layer.reply.send(next\_layer\_replacement)
tls\_strategy.record\_skipped(server\_address)

• 效果: 至少不报错了

mitmproxy的log会显示相关的 TLS passthrough:

```
TLS passthrough for ('app.cashbus.com', 443)
```

其他(https的?)资源(图片等)类的文件可以正常加载,页面可以显示(图片)等内容了:



• 细节详见

- 。 【已解决】提取自动抓包工具中的mitmdump自动保存代理抓包 出来的url链接保存到文件
- 。 【已解决】mitmproxy代理抓包安卓app数据访问出错: Cannot establish TLS with client sni TlsException

## 无法解决

- **彻底的解决办法**: 修改app的逻辑和规则,允许你(的非法)的证书。
  - 。 很明显: 是别人的app, 自己无法修改。所以此处实际上无解
    - 除非你能破解app,重新编译和运行破解后的app,把证书的限制去掉。

另外: 此处被测app是一个安卓游戏app, 也没有时间去折腾破解app

也没必要:因为最终方案是希望支持无限多的安卓游戏app,所以一个个破解、也不现实不可行。

总之: 无解, 且放弃

- 相关
  - 。 安卓破解 Certificate pinning
    - 作者提到了一些关于逆向工程安卓app方面的资料
      - 需要给app打包,用于跳过证书验证,换成自己证书
    - 相关资料:
      - Android Security: SSL Pinning. Using SSL in an Android app is easy... | by Matthew Dolan | Medium
      - Bypassing Certificate Pinning on Android for fun and profit | by Felipe Lima | Medium
      - **-**>
      - Bypassing SSL Pinning on Android via Reverse Engineering.pdf
        - https://dl.packetstormsecurity.net/papers/general/ android-sslpinning.pdf
- 细节详见
  - 【无法解决】安卓游戏加了代理后支付页面时mitmdump报错: TIsException SSL handshake error Error SSL routines ssl3\_read\_bytes sslv3 alert certificate unknown

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## -s 时无法指定python版本

此处

mitmdump -s xxx.py

- 中,无法指定加载 xxx.py 脚本时,所用的 Python的版本
- -> 会导致,导入一些python库时,即使你Python环境已安装了该库(比如 pyyaml ),仍会报错
- -> 因为其只用调用(mitmdump所)内置的Python的版本,无法换成当前(Mac)系统中的某个版本的Pyton
  - 细节详见
    - 。 【无法解决】Mac中mitmdump通过-s加载python脚本时指定 Python版本
    - 【已解决】mac中Python2和Python3都已安装了yaml但mitmdump -s加载python脚本中导入yaml还是报错
    - 【已解决】Mac中让mitmdump解析python脚本不用自己内置 Python而是用系统Python
    - 。 【已解决】Mac中运行mitmdump再次报错: Failed to import yaml
    - 【已解决】Mac中mitmdump运行命令报错: in script py No module named yaml

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# 检测到代理显示异常

有些app、网页等,技术做的相对先进,能自动检测是否有代理:

- 如果检测到有代理
  - 。 会出现警告
  - 。 甚至不显示内容
  - 。 或者显示内容异常
  - 。 等等
- 对应解决办法: 去掉代理
  - 。 比如切换到没有代理的WiFi



下面总结一下这些异常情况:

## 安全警告 该网站的安全证书存在问题

安卓手机中安装了mitmproxy代理后,部分app页面(首次打开)会弹框 提示证书问题

比如 安卓中的微信的某些页面,第一次访问某些其他网站时,会提示证 书问题:

• 【已解决】自动抓包工具适配iOS:安全警告弹框提示该网站的安全 证书存在问题



• vivo应用市场登录后,偶尔也有同样弹框



点击了继续后,后续就不会再提示。

类似问题:

当你Wifi代理有变动,比如:

- 去掉WiFi的mitmproxy的代理后,重新加上
- 换了一个WiFi, 重新加上代理

等等情况,则会被视为第一次使用代理,第一次打开页面时,就仍会出现 上述弹框提示。同理,点击继续后,之后不会再提示。

# 显示空白页面或者只显示部分内容

另外,有些安卓游戏,加了代理后,会导致游戏中和安全相关的,尤其是 支付相关页面,会无法正常显示内容。

比如空白页面:



或者是 只能显示部分内容:

底部支付方式没显示:



后来经过多次点击,偶尔才能完整显示内容:



## 网络异常,请检查网络设置

#### iOS的app 斑马AI课 会提示:

网络异常, 请检查网络设置

请检查您当前的网络环境,如果其他App可以正常使用,请到设置-斑马Al课-无线数据中允许斑马Al课访问网络。检查后,点击重试按 钮。



## 无法连接服务器, 请退出重试

对于来自华为应用市场的游戏app,在登录时需要先登录华为应用市场。 当华为应用市场检测到有代理时,就会无法显示,报错: 无法连接服务器,请退出重试



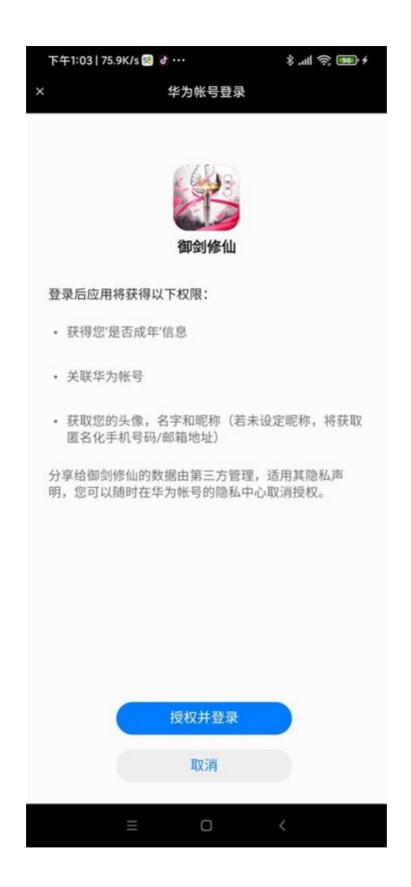


无法连接服务器, 请退出重试

≡ □ <

解决办法: 去掉代理

才能正常加载授权页面:





## 无法加载,请点击重试

偶尔vivo的支付弹框,也会出现,检测到代理后,无法正常显示,提示: 请检查网络或稍后再试

点击重试



点击一下,即可正常显示:



或者类似的:

加载失败

点击重试



点击一下,即可正常显示支付:



## 页面卡死在加载中

游戏app发行到vivo应用市场后,登录时往往要登录vivo账号。

其中一种登录弹框时,先显示 滑动补全缺口的图的验证码 的弹框,当 vivo发现有代理时,则验证码图片弹框完全就无法显示,且卡死在验证码 图片加载页面:



(通过切换WiFi而) 去掉代理后,验证码图片才能正常显示:



## 支付方式弹框不显示,显示等待中

某游戏检测到有了代理后,支付弹框不显示,只提示:正在等待支付



## 请检查网络后,刷新重试!

小米应用市场发行的游戏登录时也需要登录小米账号授权,检测到代理 后,会报错:

请检查网络后,刷新重试!



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## mitmdump偶尔突然无效

现象

Mac中正常启动mitmdump:

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

作为手机中WiFi的代理,一直可以正常工作。

但是最近遇到几次了:

突然,不知道什么原因, mitmdump, 就无效了。

导致手机中虽然设置了mitmdump的代理,但是传入mitmdump的脚本无效,无法过滤出url,保存到文件中了。

• **解决办法**: 切换WiFi

无意间发现: 切换WiFi, 比如从 xxx\_guest 切换到 xxx\_guest\_5G:



即可解决此问题, mitmdump又重新正常工作了, 手机端代理就生效了:

```
Limaco

***Side2** Grants/rpp0HioGranter/AppGranter** | master** |
```

#### 后记:

- 手机中: 切换不同的WiFi (再加上代理)
  - 。 多试试几次,也可以规避此 代理不工作 的问题

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# ssl3\_get\_record wrong version number

#### • 现象

自动抓包工具抓取安卓app GoFun出行 期间,mitmproxy的log中一直出现:

```
192.168.31.172:37547: CONNECT gofunsa.shouqiev.com:8106 << Cannot establish TLS with gofunsa.shouqiev.com:8106 (sr
```

```
192.168.31.172:37547: clientconnect
192.168.31.172:37547: CONNECT gofunsa.shouqiev.com:8106

<< Cannot establish TLS with gofunsa.shouqiev.com:8106 (sni: gofunsa.shouqiev.com): TlsException("SSL handshake error: Error([('SSL routines', 'ssl3_get_record', 'wrong version number')])")
192.168.31.172:37547: clientdisconnect
192.168.31.172:34227: clientconnect
192.168.31.172:34227: GET http://restapi.amap.com/v4/feedback?ts=15737
24203119&key=8c6ad4a74b2adf5466da3ad53d35cd28&scode=a5568934b3d7d4b3d1
9cd511347bbd9f&pname=3dmap

<< 200 OK 171b
```

#### • 尝试解决

```
openssl s_client -debug -connect gofunsa.shouqiev.com:8106
```

#### 输出有:

```
SSL-Session:

Protocol : TLSv1.2

Cipher : 0000

Session-ID:

Session-ID-ctx:

Master-Key:

Start Time: 1573725685

Timeout : 7200 (sec)

Verify return code: 0 (ok)
```

看起来版本没问题, 是: TLS v1.2

后来注意到上面输出了:

```
4574582380:error:1400410B:SSL routines:CONNECT_CR_SRVR_HELI
```

#### 也说是:

- · wrong version number
  - and then try adding flags from this set: -no\_ssl2 , -no\_ssl3 and -no\_tls1 (consult the s\_client(1) manual page for more details) to work out which version of SSL/TLS has to be enabled for the connection to succeed.

#### 另外通过:

```
□ brew info openssl
openssl: stable 1.0.2t (bottled) [keg-only]
SSL/TLS cryptography library
https://openssl.org/
Not installed
From: https://github.com/Homebrew/homebrew-core/blob/master
==> Caveats
A CA file has been bootstrapped using certificates from the
keychain. To add additional certificates (e.g. the certific
the System keychain), place .pem files in
  /usr/local/etc/openssl/certs
and run
  /usr/local/opt/openssl/bin/c_rehash
openssl is keg-only, which means it was not symlinked into
because Apple has deprecated use of OpenSSL in favor of its
==> Analytics
install: 145,281 (30 days), 708,633 (90 days), 5,855,621 (3
install_on_request: 61,384 (30 days), 181,370 (90 days), 87
build_error: 0 (30 days)
```

可以看出此处mac安装的openssl的库的版本,是1.0.2t的?

#### 后来:

```
mitmdump ——help
```

#### 其中有:

- · --ssl-insecure, -k
  - Do not verify upstream server SSL/TLS certificates

有空再试试能否解决此问题。

 细节详见\*【未解决】安卓抓包mitmproxy报错: TIsException SSL handshake Error routines ssl3\_get\_record wrong version number

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# SysCallError 10054 WSAECONNRESET

#### 背景

部分 https=tls=ssl 的url抓包、Mac中正常、但是Windows报错:

```
192.168.31.172:55087: CONNECT store1.hispace.hicloud.com:44
<< Cannot establish TLS with client (sni: store1.hispace.h:
TLS passthrough for ('tmge.alicdn.com', 443)
192.168.31.172:56214: CONNECT dnkeeper.hicloud.com:443
<< Cannot establish TLS with client (sni: dnkeeper.hicloud.
TLS passthrough for ('zconfig.alibabausercontent.com', 443)
192.168.31.172:54363: CONNECT lf.snssdk.com:443
<< Cannot establish TLS with client (sni: lf.snssdk.com:443
<< Cannot establish TLS with client (sni: gecko-hl.snssdk.com:443)
<< Cannot establish TLS with client (sni: gecko-hl.snssdk.com:443)
<< Cannot establish TLS with client (sni: sf3-ttcdn-tos.pst
192.168.31.172:42426: CONNECT sf3-ttcdn-tos.pst
192.168.31.172:36743: CONNECT webcast-hl.amemv.com:443
<< Cannot establish TLS with client (sni: webcast-hl.amemv.com:443)
<< Cannot establish TLS with client (sni: webcast-hl.amemv.com:443)
```

以及后来的游戏中点击付费按钮,产生的付费链接:

```
Loading script mitmdumpUrlSaver.py
Proxy server listening at http://*:8081

192.168.31.172:57502: CONNECT hm.baidu.com:443
<< Cannot establish TLS with client (sni: hm.baidu.com): Ti

192.168.31.172:40054: CONNECT apiouterh5.37.com:443
<< Cannot establish TLS with client (sni: apiouterh5.37.com

192.168.31.172:44871: CONNECT apipayh5.37.com:443<</td>

Cannot establish TLS with client (sni: apiouterh5.37.com

192.168.31.172:44871: CONNECT apipayh5.37.com;443

TLS passthrough for ('apipayh5.37.com', 443)192.168.31.172:

192.168.31.172:57503: CONNECT h5.37.com;443

Cannot establish TLS with client (sni: paysdk.37.com): TLS passthrough for ('hm.baidu.com', 443)192.168.31.172:575

Cannot establish TLS with client (sni: paysdk.37.com): TLS passthrough for ('paysdk.37.com', 443)
```

#### 即,出现问题:

- 都是TLS passthrough掉了,保存的txt文件中,没有这些https的url
- 或者是部分https游戏付费链接 都是SSL handshake error
- 可能的原因
  - 。 windows中此处mitmproxy本身有问题?
  - 。 windows中此处ssl底层库有问题?
  - 。 windows中此处杀毒软件有问题?
    - 因为后来看到有个 联想杀毒plus



■ 不知道对此是否有影响?

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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",
         isRunning = bool(mitmdumpInfoList)
         logging.info("isRunning=%s", isRunning)
         if isCheckCmdRun0k 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, e
def debugStartProxv():
         stopExistingMitmproxy(gCurDevId)
         taskFileFullPath = "/Users/limao/dev/xxx/crawler/appAut
         taskId = "5e9552d1c5c2eb3ccdf777bc"
         startTaskProxy(taskId, gCurDevId, taskFileFullPath)
         time.sleep(2)
         isCheckCmdRunOk, mitmdumpInfoList = checkMitmdumpStatus
         logging.info("isCheckCmdRunOk=%s, mitmdumpInfoList=%s",
def checkMitmdumpStatus():
         # check mitmdump is indeed running
         isCheckCmdRunOk, mitmdumpInfoList = False, []
         checkMitmdumpCmd = "ps aux | grep mitmdump"
         isCheckCmdRunOk, cmdResult = utils.getCommandOutput(che
         logging.info("isCheckCmdRunOk=%s, cmdResult=%s", isCheckCmdRunOk=%s, cmdResult=%s", isCheckCmdRunOk=%s", isCheckCm
         if isCheckCmdRun0k:
                  # 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
                                                                                 0.0 0.1 4381268 11568
                                                              55396
                  if resultList:
                           for eachLine in resultList:
```

```
logging.info("eachLine=%s", eachLine)
                                               mitmdumpP = "^\s*(?P<username>\w+)\s+(?P<p:</pre>
                                                foundMitmdump = re_search(mitmdumpP, eachL:
                                                logging.info("foundMitmdump=%s", foundMitmd
                                                if foundMitmdump:
                                                           username = foundMitmdump.group("username")
                                                            pid = foundMitmdump.group("pid")
                                                           port = foundMitmdump.group("port")
                                                           devId = foundMitmdump.group("devId")
                                                            scriptFile = foundMitmdump.group("scriptFile = foundMitmdump.group("s
                                                            logging.info("username=%s, pid=%s, 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
           Aras:
                       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
```

#### 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data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

全局定义:

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

## 生成mitmproxy命令

```
#---- generate start service command --
def generateMitmproxyStartCommand(curDevId):
    curMitmdumpPort = MitmdumpPortBase + int(curDevId)
    # mitmproxyStartCommand = "mitmdump -p %d -s middleware
    mitmproxyStartCommand = "mitmdump -k -p %d -s middlewar
    logging.debug("mitmproxyStartCommand=%s", mitmproxyStar
    # mitmdump -k -p 8081 -s middleware/Save1.py
    mitmproxyCommandList = [
        # "cd /Users/limao/dev/xxx/crawler/appAutoCrawler//
        "cd %s" % AppCralwerFolder,
       "pwd",
        mitmproxyStartCommand,
    logging.debug("mitmproxyCommandList=%s", mitmproxyComma
    # ['cd /Users/limao/dev/xxx/crawler/appAutoCrawler/App(
    # mitmproxyCommandStr = ";".join(mitmproxyCommandList)
    # mitmproxyCommandStr = "; ".join(mitmproxyCommandList)
    mitmproxyCommandStr = "\n".join(mitmproxyCommandList)
    # cd /Users/limao/dev/xxx/crawler/appAutoCrawler/AppCra
    # mitmdump -k -p 8081 -s middleware/Save1.py
    logging.debug("mitmproxyCommandStr=%s", mitmproxyCommar
    return mitmproxyCommandStr
```

调用:

```
mitmproxyCmdStr = generateMitmproxyStartCommand("1")
```

和此处的:

```
#------
def generateRunProxyShell(devId, taskId):
    mitmproxyCmdStr = generateMitmproxyStartCommand(devId)
    logging.debug("mitmproxyCmdStr=%s", mitmproxyCmdStr)
    return generateShellFile(mitmproxyCmdStr, RunProxyShel')
```

## 停止当前正在运行的mitmdump

```
def stopExistingMitmproxy(curDevId):
    logging.debug("curDevId=%s", curDevId)
    curDevIdInt = int(curDevId)
    isCheckOk, isRunning, mitmdumpInfoList = detectMitmdum;
    logging.debug("isCheckOk=%s, isRunning=%s, mitmdumpInfo
    if isCheckOk and isRunning:
        foundExistedDevId = False
        existedPidInt = None
        for eachMitmdumpInfo in mitmdumpInfoList:
            eachDevIdStr = eachMitmdumpInfo["devId"]
            eachDevIdInt = int(eachDevIdStr)
            if eachDevIdInt == curDevIdInt;
                foundExistedDevId = True
                existedPidStr = eachMitmdumpInfo["pid"]
                existedPidInt = int(existedPidStr)
                break
        if foundExistedDevId:
            killOK, errCode = utils.killProcess(existedPid]
            logging.debug("killOK=%s, errCode=%s", killOK,
            logging.info("%s to stopped mitmproxy", killOK)
```

#### 调用:

```
devId="1"
stopExistingMitmproxy(devId)
```

## 确保mitmdump已运行

```
CheckServiceRunningInterval = 2.0
def makesureProxyingRunning(devId, taskId):
    def checkProxyStatus():
        isCheckOk, isRunning, infoList = detectMitmdumpStat
        return isCheckOk and isRunning
    def startCurTaskProxy():
        startTaskProxy(devId, taskId)
    makesureServiceRunning(checkProxyStatus, startCurTaskPi
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 makesureServiceRunning(checkStatusCallback, startService
    isRunning = False
    while not isRunning:
        # isRunning = eval(checkStatusCallback)
        isRunning = checkStatusCallback()
        logging.debug("isRunning=%s", isRunning)
        if isRunning:
            break
        else:
            logging.info("%s not running, try to start", se
            # eval(startServiceCallback)
            startServiceCallback()
        logging.info("Wait %d seconds", CheckServiceRunning
        time_sleep(CheckServiceRunningInterval)
    logging.info("%s is running", serviceName)
```

## Mac中调用Terminal终端去启动mitmdump

```
# CurFilePath = file
CurFilePath = os.path.abspath(__file__)
print("CurFilePath=%s" % CurFilePath)
PlatformIntegrationFolder = os.path.dirname(CurFilePath)
print("PlatformIntegrationFolder=%s" % PlatformIntegration!
OutputFolderName = "output"
OutputRootFolder = os.path.join(PlatformIntegrationFolder,
def getTaskRootFolder(taskId):
    taskIdStr = str(taskId)
    taskFolder = os.path.join(OutputRootFolder, "tasks", ta
    return taskFolder
def getTaskShellFolder(taskId):
    taskRootFolder = getTaskRootFolder(taskId)
    taskShellFolder = os.path.join(taskRootFolder, "shell")
    return taskShellFolder
def startTaskProxy(devId, taskId):
    logging.info("Start proxy for: devId=%s, taskId=%s", de
    proxyShellFile = generateRunProxyShell(devId, taskId)
    logging.debug("proxyShellFile=%s", proxyShellFile)
    utils_launchTerminalRunShellCommand(proxyShellFile)
def generateRunProxyShell(devId, taskId):
    mitmproxyCmdStr = generateMitmproxyStartCommand(devId)
    logging.debug("mitmproxyCmdStr=%s", mitmproxyCmdStr)
    return generateShellFile(mitmproxyCmdStr, RunProxyShel'
def generateShellFile(fileContentStr, shellFilename, taskIc
    """Generate shell file, which is used to run command
        such as
            mitmdump proxy
            crawlerStart.pv
            USB port forward
            wda server(xcodebuild/XCode)
    logging.debug("fileContentStr=%s, shellFilename=%s, tas
    if taskId:
        shellFolder = getTaskShellFolder(taskId)
        # /Users/limao/dev/xxx/crawler/appAutoCrawler/AppCi
    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/AppCrawle
    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/xx/crawler/appAutoCrawler/AppCrawler
return respShellFullPath

#### 调用到的相关的库函数:

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
   except subprocess.CalledProcessError as callProcessErr;
        isRunCmdOk = False
        errMsg = str(callProcessErr)
        # "Command 'ffmpeg -y -i /Users/crifan/.../debug/ex
    return isRunCmdOk, errMsg
def getCommandOutput(consoleCommand, consoleOutputEncoding=
       get command output from terminal
   # print("getCommandOutput: consoleCommand=%s" % console
    isRunCmdOk = False
   consoleOutput = ""
    try:
        # consoleOutputByte = subprocess.check output(conso
        consoleOutputByte = subprocess.check_output(console
        # commandPartList = consoleCommand.split(" ")
        # print("commandPartList=%s" % commandPartList)
        # consoleOutputByte = subprocess.check_output(comma
        # print("type(consoleOutputByte)=%s" % type(console
        # print("consoleOutputByte=%s" % consoleOutputByte.
        consoleOutput = consoleOutputByte.decode(consoleOut
        consoleOutput = consoleOutput.strip() # '640x360'
        isRunCmdOk = True
   except subprocess.CalledProcessError as callProcessErr
        cmdErrStr = str(callProcessErr)
        print("Error %s for run command %s" % (cmdErrStr, o
```

```
# print("isRunCmdOk=%s, consoleOutput=%s" % (isRunCmdOk
    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 us
        isForceNewInstance (bool): whether pase -n to open,
    Returns:
    Raises:
    logging.debug("shellFile=%s, isForceNewInstance=%s, isl
    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
    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, psCm
          """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', 'tas
          logging.debug("processFile=%s, singleLinePattern=%s",;
          isCheckCmdRun0k, isRunning, processInfoList = False, 
         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 isCheckCmdRun0k;
                   # 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)
           logging.debug("foundProcess=%s", foundProce
           if foundProcess:
               curProcessInfoDict = {}
               for eachKey in groupNameList:
                   curValue = foundProcess.group(each)
                   curProcessInfoDict[eachKey] = curVa
               logging.debug("curProcessInfoDict=%s",
               processInfoList_append(curProcessInfoD:
isRunning = bool(processInfoList)
logging.debug("isRunning=%s, processInfoList=%s", isRun
return isCheckCmdRunOk, isRunning, processInfoList
```

#### 注:

### 相关库文件的最新版, 详见:

- https://github.com/crifan/crifanLibPython/blob/master/python3/crifan Lib/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 pymitmdump\mitmdumpStartApi.py --distpath pymit
pyinstaller pymitmdump\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 mitmdump --help

```
□ mitmdump --help
usage: mitmdump [options] [filter]
positional arguments:
  filter_args
                        Filter expression, equivalent to se
optional arguments:
                        show this help message and exit
  -h, --help
  --version
                        show version number and exit
  --options
                        Show all options and their default
                        Show all commands and their signatu
  --commands
  --set option[=value]
                        Set an option. When the value is or
                        and sequences are emptied. Boolean
  -q, --quiet
                        Quiet.
  -v, --verbose
                        Increase log verbosity.
  --mode MODE, -m MODE Mode can be "regular", "transparent
                        SPEC is host specification in the 1
  --no-anticache
  --anticache
                        Strip out request headers that migh
  --no-showhost
                        Use the Host header to construct Uf
  --showhost
  --rfile PATH, -r PATH
                        Read flows from file.
  --scripts SCRIPT, -s SCRIPT
                        Execute a script. May be passed mu'
  --stickycookie FILTER
                        Set sticky cookie filter. Matched a
  --stickyauth FILTER
                        Set sticky auth filter. Matched aga
  --save-stream-file PATH, -w PATH
                        Stream flows to file as they arrive
  --no-anticomp
  --anticomp
                        Try to convince servers to send us
  --flow-detail LEVEL
                        The display detail level for flows
                        status code, WebSocket and TCP mess
                        2 + full response content, content
Proxy Options:
  --listen-host HOST
                        Address to bind proxy to.
  --listen-port PORT, -p PORT
                        Proxy service port.
  --no-server, -n
  --server
                        Start a proxy server. Enabled by de
                        Ignore host and forward all traffic
  --ignore-hosts HOST
                        (range), not the hostname. In regui
                        value is interpreted as a regular (
  --allow-hosts HOST
                        Opposite of --ignore-hosts. May be
  --tcp-hosts HOST
                        Generic TCP SSL proxy mode for all
                        The communication contents are primary
  --upstream-auth USER: PASS
                        Add HTTP Basic authentication to up
```

```
--proxyauth SPEC
                                                                   Require proxy authentication. Forma
                                                                   htpasswd file, or "ldap[s]:url_serv
     --no-rawtcp
     --rawtcp
                                                                   Enable/disable experimental raw TCF
                                                                   match tcp_hosts. The heuristic is \
     --no-http2
     --http2
                                                                   Enable/disable HTTP/2 support. HTTF
SSL:
     --certs SPEC
                                                                   SSL certificates of the form "[domain continuous contin
                                                                   file at path is a certificate in Pl
                                                                   the conf dir is used. The PEM file
                                                                   entry. May be passed multiple times
     --no-ssl-insecure
     --ssl-insecure, -k
                                                                   Do not verify upstream server SSL/1
     --key-size KEY_SIZE
                                                                  TLS key size for certificates and (
Client Replay:
     --client-replay PATH, -C PATH
                                                                   Replay client requests from a saved
Server Replay:
     --server-replay PATH, -S PATH
                                                                   Replay server responses from a save
     --no-server-replay-kill-extra
     --server-replay-kill-extra
                                                                   Kill extra requests during replay.
     --no-server-replay-nopop
     --server-replay-nopop
                                                                   Don't remove flows from server rep'
     --no-server-replay-refresh
     --server-replay-refresh
                                                                   Refresh server replay responses by
                                                                   expiration.
Replacements:
     --replacements PATTERN, -R PATTERN
                                                                   Replacement patterns of the form ",
                                                                   multiple times.
Set Headers:
     --setheaders PATTERN, -H PATTERN
                                                                   Header set pattern of the form "/pa
                                                                   times.
```

### mitmproxy --help

```
□ mitmproxy --help
usage: mitmproxy [options]
optional arguments:
  -h, --help
                        show this help message and exit
  --version
                        show version number and exit
  --options
                        Show all options and their default
                        Show all commands and their signatu
  --commands
  --set option[=value]
                        Set an option. When the value is or
                        and sequences are emptied. Boolean
  -q, --quiet
                        Quiet.
  -v, --verbose
                        Increase log verbosity.
  --mode MODE, -m MODE Mode can be "regular", "transparent
                        SPEC is host specification in the
  --no-anticache
  --anticache
                        Strip out request headers that migh
  --no-showhost
  --showhost
                        Use the Host header to construct Uf
  --rfile PATH, -r PATH
                        Read flows from file.
  --scripts SCRIPT, -s SCRIPT
                        Execute a script. May be passed mu'
  --stickycookie FILTER
                        Set sticky cookie filter. Matched a
  --stickyauth FILTER
                        Set sticky auth filter. Matched aga
  --save-stream-file PATH, -w PATH
                        Stream flows to file as they arrive
  --no-anticomp
  --anticomp
                        Try to convince servers to send us
  --console-layout {horizontal, single, vertical}
                        Console layout.
  --no-console-layout-headers
  --console-layout-headers
                        Show layout component headers
Proxy Options:
  --listen-host HOST
                        Address to bind proxy to.
  --listen-port PORT, -p PORT
                        Proxy service port.
  --no-server, -n
                        Start a proxy server. Enabled by de
  --server
  --ignore-hosts HOST
                        Ignore host and forward all traffic
                        (range), not the hostname. In regui
                        value is interpreted as a regular (
  --allow-hosts HOST
                        Opposite of --ignore-hosts. May be
  --tcp-hosts HOST
                        Generic TCP SSL proxy mode for all
                        The communication contents are primary
  --upstream-auth USER: PASS
                        Add HTTP Basic authentication to up
                        Require proxy authentication. Forma
  --proxyauth SPEC
```

```
htpasswd file, or "ldap[s]:url_serv
     --no-rawtcp
                                                               Enable/disable experimental raw TCF
     --rawtcp
                                                               match tcp_hosts. The heuristic is \
     --no-http2
     --http2
                                                               Enable/disable HTTP/2 support. HTTF
SSL:
     --certs SPEC
                                                               SSL certificates of the form "[domain continuous contin
                                                               file at path is a certificate in Pi
                                                               the conf dir is used. The PEM file
                                                               entry. May be passed multiple times
     --no-ssl-insecure
     --ssl-insecure, -k
                                                               Do not verify upstream server SSL/1
     --key-size KEY_SIZE
                                                           TLS key size for certificates and (
Client Replay:
     --client-replay PATH, -C PATH
                                                               Replay client requests from a saved
Server Replay:
     --server-replay PATH, -S PATH
                                                               Replay server responses from a save
     --no-server-replay-kill-extra
     --server-replay-kill-extra
                                                               Kill extra requests during replay.
     --no-server-replay-nopop
     --server-replay-nopop
                                                               Don't remove flows from server rep'
     --no-server-replay-refresh
     --server-replay-refresh
                                                               Refresh server replay responses by
                                                               expiration.
Replacements:
     -- replacements PATTERN, -R PATTERN
                                                               Replacement patterns of the form ",
                                                               multiple times.
Set Headers:
     --setheaders PATTERN, -H PATTERN
                                                               Header set pattern of the form "/page 12.00"
                                                               times.
Filters:
     See help in mitmproxy for filter expression syntax.
                                                               Intercept filter expression.
     --intercept FILTER
     --view-filter FILTER Limit the view to matching flows.
```

# mitmweb --help

```
□ mitmweb --help
usage: mitmweb [options]
optional arguments:
  -h, --help
                        show this help message and exit
  --version
                        show version number and exit
  --options
                        Show all options and their default
  --commands
                        Show all commands and their signatu
  --set option[=value]
                        Set an option. When the value is or
                        and sequences are emptied. Boolean
  -q, --quiet
                        Quiet.
  -v, --verbose
                        Increase log verbosity.
  --mode MODE, -m MODE Mode can be "regular", "transparent
                        SPEC is host specification in the
  --no-anticache
  --anticache
                        Strip out request headers that migh
  --no-showhost
  --showhost
                        Use the Host header to construct Uf
  --rfile PATH, -r PATH
                        Read flows from file.
  --scripts SCRIPT, -s SCRIPT
                        Execute a script. May be passed mu'
  --stickycookie FILTER
                        Set sticky cookie filter. Matched a
  --stickyauth FILTER
                        Set sticky auth filter. Matched aga
  --save-stream-file PATH, -w PATH
                        Stream flows to file as they arrive
  --no-anticomp
  --anticomp
                        Try to convince servers to send us
Mitmweb:
  --no-web-open-browser
  --web-open-browser
                        Start a browser.
  --web-port PORT
                        Web UI port.
  --web-iface INTERFACE
                        Web UI interface.
Proxy Options:
  --listen-host HOST
                        Address to bind proxy to.
  --listen-port PORT, -p PORT
                        Proxy service port.
  --no-server, -n
                        Start a proxy server. Enabled by de
  --server
  --ignore-hosts HOST
                        Ignore host and forward all traffic
                        (range), not the hostname. In regui
                        value is interpreted as a regular (
  --allow-hosts HOST
                        Opposite of --ignore-hosts. May be
                        Generic TCP SSL proxy mode for all
  --tcp-hosts HOST
                        The communication contents are primary
  --upstream-auth USER: PASS
```

```
Add HTTP Basic authentication to up
     --proxyauth SPEC
                                                              Require proxy authentication. Forma
                                                              htpasswd file, or "ldap[s]:url_serv
     --no-rawtcp
                                                              Enable/disable experimental raw TCF
     --rawtcp
                                                              match tcp_hosts. The heuristic is \
     --no-http2
     --http2
                                                              Enable/disable HTTP/2 support. HTTF
SSL:
     --certs SPEC
                                                              SSL certificates of the form "[domain of the form of t
                                                               file at path is a certificate in Pi
                                                              the conf dir is used. The PEM file
                                                              entry. May be passed multiple times
     --no-ssl-insecure
     --ssl-insecure, -k
                                                              Do not verify upstream server SSL/
     --key-size KEY_SIZE
                                                           TLS key size for certificates and (
Client Replay:
     --client-replay PATH, -C PATH
                                                              Replay client requests from a saved
Server Replay:
     --server-replay PATH, -S PATH
                                                              Replay server responses from a save
     --no-server-replay-kill-extra
     --server-replay-kill-extra
                                                              Kill extra requests during replay.
     --no-server-replay-nopop
     --server-replay-nopop
                                                              Don't remove flows from server rep'
     --no-server-replay-refresh
     --server-replay-refresh
                                                              Refresh server replay responses by
                                                              expiration.
Replacements:
     --replacements PATTERN, -R PATTERN
                                                              Replacement patterns of the form ",
                                                              multiple times.
Set Headers:
     --setheaders PATTERN, -H PATTERN
                                                              Header set pattern of the form "/page 12.00"
                                                              times.
Filters:
     See help in mitmproxy for filter expression syntax.
     --intercept FILTER Intercept filter expression.
```

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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
- 【已解决】用自动处理任务脚本启动自动测试工具测试自动化安卓游戏
- 【已解决】Mac中用Python检测mitmdump进程状态和杀死原有进程

- 【已解决】Python中实现检测mitmdump进程服务的状态
- 【已解决】mitmproxy代理报错: Cannot establish TLS with 443 sni None TlsException Cannot validate certificate hostname without SNI
- 【无法解决】安卓游戏加了代理后支付页面时mitmdump报错: TIsException SSL handshake error Error SSL routines ssl3\_read\_bytes sslv3 alert certificate unknown
- 【未解决】windows中用mitmproxy无法抓包部分http付费链接
- 【未解决】安卓抓包mitmproxy报错: TIsException SSL handshake Error routines ssl3\_get\_record wrong version number
- 【无法解决】Mac中mitmdump通过-s加载python脚本时指定Python版本
- 【已解决】mac中Python2和Python3都已安装了yaml但mitmdump -s 加载python脚本中导入yaml还是报错
- 【已解决】Mac中让mitmdump解析python脚本不用自己内置Python 而是用系统Python
- 【已解决】Mac中运行mitmdump再次报错: Failed to import yaml
- 【已解决】Mac中mitmdump运行命令报错: in script py No module named yaml
- 【已解决】自动化测试安卓游戏烈焰龙城:从主页到带支付的真正支付页面
- 【已解决】自动化测试安卓游戏烈焰龙城:优化是否是支付页面以及 点击支付出现支付弹框的逻辑
- 【已解决】给VMWare中macOS中抓包项目开启mitmdump代理
- 【已解决】提取自动抓包工具中的mitmdump自动保存代理抓包出来的url链接保存到文件

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- Android Security: SSL Pinning. Using SSL in an Android app is easy... | by Matthew Dolan | Medium
- Bypassing Certificate Pinning on Android for fun and profit | by Felipe Lima | Medium
- Bypassing SSL Pinning on Android via Reverse Engineering.pdf
- https://dl.packetstormsecurity.net/papers/general/androidsslpinning.pdf
- mitmproxy/tls\_passthrough.py at master · mitmproxy/mitmproxy
- Mitmproxy教程 zha0gongz1 博客园

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