

tiktok-dl-fiddler

Using fiddler to achieve man in the middle attack that make a connection between local computer and ios device, in order to get the requests from Tiktok app and download from computers under the same WIFI network.

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Environment

- Windows 10 system
- Python 3.8
- IOS device
- Fiddler

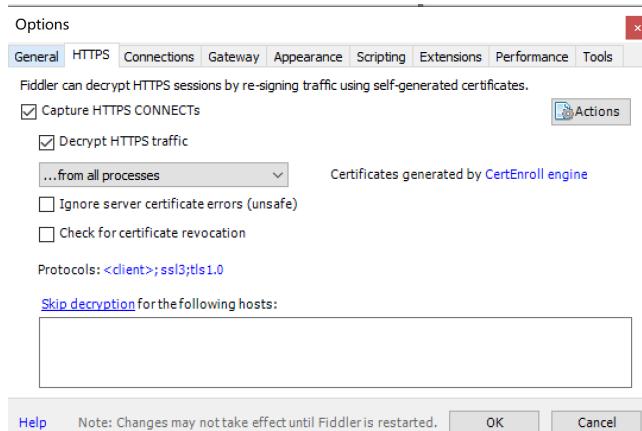
Fiddler Setup

Install

Go to [Fiddler Official Website](#) and download the latest version for Windows. After completed the download process, install [Fiddler](#) in your local computer.

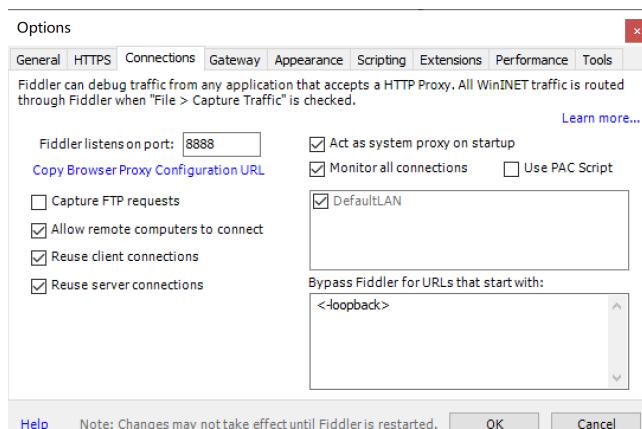
Configure

Open Fiddler, and in the menu bar click [Tools](#) -> [Options](#) then click the [HTTPS](#) tab. Configure as the following.



Since most site are using HTTPS protocol, we need to enable the Decrypt HTTPS traffic in order to get the requests from the app

Then in [Options](#) panel, go to [Connections](#) tab and configure as the following. You can customize the port number but make the port number are same in Fiddler and your IOS device WIFI proxy.

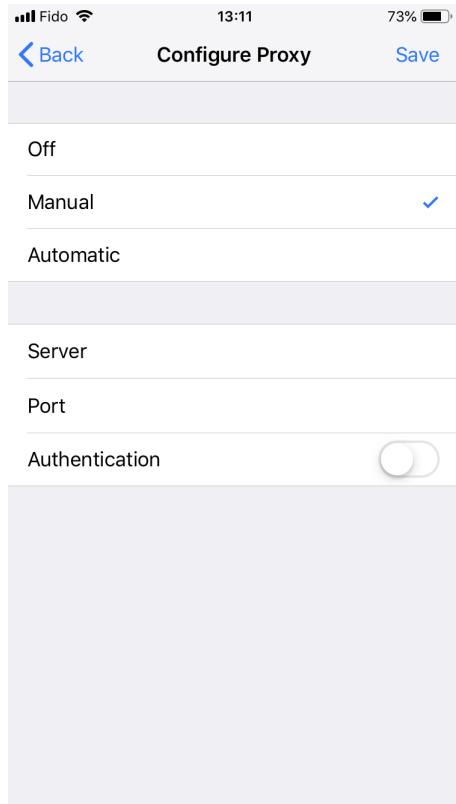


IOS Device Setup

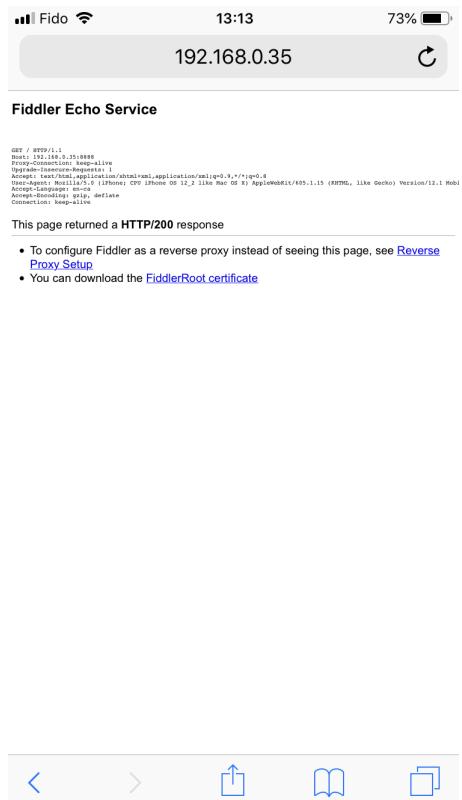
On your IOS device, click [Settings](#) and then go to [WIFI](#). Click the WIFI that is being used for your IOS device and local computer. Then at the bottom of the screen

click **Configure Proxy**. Click **Manual** and enter your server and port then save.

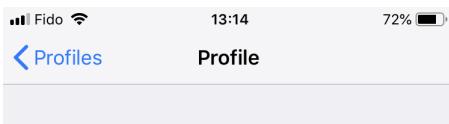
For server, you can type ipconfig in your command line and the IPv4 will be the address. Port we will use 8888 same as we configure in Fiddler



Make sure **Fiddler** is running because the port should be listen at 8888. Now open your **Safari** on your device, and enter your server or the IP address to download the **FiddlerRoot certificate**.



Once you complete the download process, open **Settings** on your device and go to **General -> Profiles -> DO_NOT_TRUST_FiddlerRoot** and install the certificate.



Profiles Profile

 DO_NOT_TRUST_FiddlerRoot

Signed by DO_NOT_TRUST_FiddlerRoot
Verified ✓

Contains Certificate

More Details >

Remove Profile

A large gray rectangular area below the profile details.

Then go to General -> About -> Certificate Trust Settings and enable DO_NOT_TRUST_FiddlerRoot .

General 13:13 72%

About Certificate Trust Settings

Trust Store Version 2018121000

ENABLE FULL TRUST FOR ROOT CERTIFICATES

DO_NOT_TRUST_FiddlerRoot

mitmproxy

thawte Primary Root CA - G3

[Learn more about trusted certificates](#)

A large gray rectangular area below the certificate trust settings.

Using Fiddler

Apply Filters to URL

Once we finish the setup, we should be able to see requests that returned whenever we are using our apps on our device. For example, let's open Tiktok and go to any of the user's profile. As we scroll down to load more videos, we find there are many requests that return to Fiddler. However, we would like to filter that only relevant to the videos. We can see that all the videos are hosting at `api3-core-c-1q.amemv.com` with `/aweme/post/`. However, notice that this will change unpredictably depends on Tiktok, but it makes sense because none of the crawler program could work forever without modifying the script.

Now, we apply filter to our requests which we only want to see URLs that contain `api3-core-c-1q.amemv.com/aweme/post/` since these includes the videos we

want. Once you click `Run Filter Now`, we will only get the relevant results on the panel.

Customize Rules for Storing Response

Since all the videos are stored in a json file, we want to get all the response exported in order to use python to scrap the video url. Thus, we could apply script in Fiddler.

Go to Rules -> Customize Rules .

onBeforeRequest

Add the following script inside `OnBeforeRequest(oSession: Session)` function.

```
if (oSession.fullUrl.Contains('api3-core-c-lq.amemv.com/aweme/v1/aweme/post')) {  
    var fso  
    var file  
    fso = new ActiveXObject('Scripting.FileSystemObject')  
  
    file = fso.OpenTextFile(  
        // the path where you want to store everytime you make request to app  
        'C:\\\\Users\\\\Yang\\\\Desktop\\\\request.txt',  
        8,  
        true,  
        true  
    )  
    file.WriteLine(oSession.url)  
    file.WriteLine(oSession.oRequest.headers)  
    file.WriteLine(oSession.GetRequestBodyAsString())  
    file.WriteLine('\\n')  
    file.Close()  
}
```

onBeforeResponse

Add the following script inside `OnBeforeResponse(oSession: Session)` function.

```
if (oSession.fullUrl.Contains('api3-core-c-lq.amemv.com/aweme/v1/aweme/post')) {  
    var fso  
    var file  
    fso = new ActiveXObject('Scripting.FileSystemObject')  
  
    file = fso.OpenTextFile(  
        'C:\\\\Users\\\\Yang\\\\Desktop\\\\response.txt',  
        8,  
        true,  
        true  
    )  
    file.WriteLine('Request body: ' + oSession.GetResponseBodyAsString())  
    file.Close()  
}
```

Now, whenever you scroll a user's profile, Fiddler will store the requests and response and export on the directory that you set.

Using Python to Download

Once we have all the response from the app, download the videos will be easy part.

However, first we need to make the `convert the reponse.text to utf-8 format`, otherwise Python can't encode properly.

Then run the `tiktok-dl-fiddler.py`, all the videos will be downloaded under the author's name folders.

```
C:\Users\Yang\PycharmProjects\Practice\venv\Scripts\python.exe C:/Users/Yang/PycharmProjects/Practice/example.py
0. [-一只BC] 退服提示：请勿在死东西的时候观看本视频弹元气绷带哦 ④抖音小助手.mp4 下载完成-
1. [-一只BC] #康康似乎吃了什么不好的东西了气绷带绷带#抖音小助手.mp4 下载完成-
2. [-一只BC] 第一集就看出你不是人了#元气绷带#抖音小助手.mp4 下载完成-
3. [-一只BC] #和老婆分 露露真身，小心不要被打啊 #元气绷带#抖音小助手.mp4 下载完成-
4. [-一只BC] #没有照顾你一点点 #元气绷带#抖音小助手.mp4 下载完成-
5. [-一只BC] #绷带我这无处安放的力量#元气绷带#抖音小助手.mp4 下载完成-
6. [-一只BC] 这样的表情值多少 #元气绷带#抖音小助手.mp4 下载完成-
7. [-一只BC] 人上岸下海十块钱，本来很开心，结果一元气绷带掉进 #抖音小助手.mp4 下载完成-
8. [-一只BC] #绷带 我好像又吃了什么不得了的东西#元气绷带#抖音小助手.mp4 下载完成-
9. [-一只BC] 【002】康娜分绷带恶搞#送你一张动态壁纸.mp4 下载完成-
10. [-一只BC] 我 不信你们这样都认得出来~.mp4 下载完成-
Process finished with exit code 0
```



0. [-一只BC] 退服提示：请勿在死东西的时候观看本视频弹元气绷带...
1. [-一只BC] #康康似乎吃了什么不好的东西了气绷带绷带#抖音小助手...
2. [-一只BC] 第一集就看出你不是人了#元气绷带#抖音小助手...
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4. [-一只BC] #没有照顾你一点点 #元气绷带#抖音小助手...
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6. [-一只BC] 这样的表情值多少 #元气绷带#抖音小助手...
7. [-一只BC] 人上岸下海十块钱，本来很开心，结果一元气绷带掉进 #抖音小助手...
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