Social Mapper -- Find Social Media Profiles Using a Photo Only

Attack Strategies, Custom Tools For Kali Linux, Information Gathering Tools

Previously, we have talked about how to find social media by usernames using userrecon. But using that process we can't do a mass scan. But using Social Mapper we can don mass scan. Not only that the main function is we can find someone with the photo only. Yes, **Social Mapper** uses **facial recognition** to perform scan. Let's use

the Social Mapper tool in our **Kali Linux** machine.

Social Mapper is a Python based open-source intelligence tool that correlates social media profiles via facial recognition.

Social Mapper collects data from many popular social media like

- Facebook
- Instagram
- LinkedIn
- Google plus
- Twitter
- VKontakte

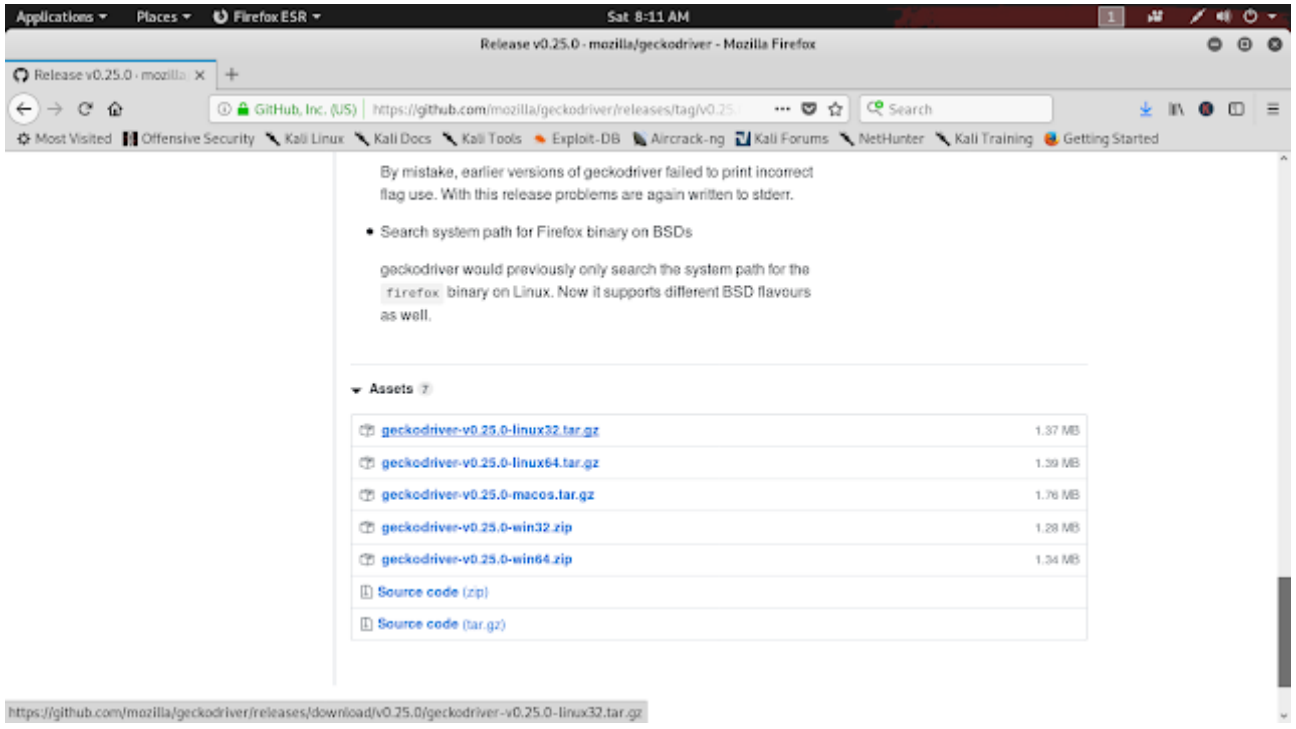
It also can collect information from micro blogging websites like Weibo and Douban.

This tool uses names and photos as input to scan social media profiles of the people

on mass scan.

Social Mapper is aimed at penetration testers and red teams, they can use it to expand their target lists and find social media profiles. Social Mapper is created by Jacob Wilkin. Jacob presents this tool on Black Hat USA 2018 and DEFCON 16 security conference.

Now we set up Social Mapper in our Kali Linux system. First we need to configure our system for Social Mapper. We need to install Gecodriver in /usr/bin. We can download Geckodriver's latest version for our Kali Linux 64 bit system from https://github.com/mozilla/geckodriver/releases



we scrolled down to find Gecodriver

After download it in our Downloads folder, we need to extract Geckodriver files, To do that we open our terminal and we go to Downloads directory by using following command:

```
cd Downloads
```

Then we type following command to extract the tar.gz compressed file:

```
tar -xvzf geckodriver-vx.xx.x-linux32.tar.gz
```

Here x.xx.x is referring the downloaded version of Geckodriver. See the following screenshot:

Now we copy the Geckodriver folder to /usr/bin using following command:

```
cp geckodriver /usr/bin
```

```
root@kali:~/Downloads# cp geckodriver /usr/bin
root@kali:~/Downloads#
```

Geckodriver is copied, now we need to install some prerequisites to run Social Mapper. To do that we use following command:

```
apt install build-essential cmake libgtk-3-dev libboost-all-dev
```

The download and installation will depend on our internet speed and system performance.
The screenshot is following:

```
root@kali:~/Downloads# cp geckodriver /usr/bin
root@kali:~/Downloads# apt install build-essential cmake libgtk-3-dev libboost-a
ll-dev
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  acccheck erlang17-asn1 erlang17-base erlang17-crypto erlang17-eunit
  erlang17-inets erlang17-mnesia erlang17-os-mon erlang17-public-key
  erlang17-runtime-tools erlang17-snmp erlang17-ssl erlang17-syntax-tools
  erlang17-tools erlang17-webtool erlang17-xmerl gir1.2-mutter-2 giskismet
  glusterfs-common guile-2.0-libs gvfs-bin kali-desktop-common libacl1-dev
  libappindicator1 libarmadillo8 libattr1-dev libavahi-gobject0 libavfilter6
  libavformat57 libavresample3 libbabeltrace-ctf1 libbind9-160
  libboost-date-time1.62.0 libboost-filesystem1.62.0 libboost-iostreams1.62.0
  libboost-random1.62.0 libboost-system1.62.0 libboost-thread1.62.0
  libcamel-1.2-60 libcdio17 libcephfs1 libcgal13 libcue1 libdbusmenu-gtk4
  libdee-1.0-4 libdns1100 libdouble-conversion1 libedata-cal-1.2-28
  libedataserver-1.2-22 libedataserverui-1.2-1 libenca0 libexempi3 libfcgi-bin
  libfcgi0ldbl libfile-copy-recursive-perl libfolks-telepathy25 libgail-3-0
  libgeos-3.6.2 libgfchangelog0 libgfortran4 libgmime-3.0-0 libgtk2-perl
  libhttp-parser2.7.1 libhunspell-1.6-0 libindicator7 libirs160 libisc169
  libisccc160 libisccfg160 libisl15 libjemalloc1 libjs-jquery-form
  libjs-openlayers libllvm5.0 liblouis14 liblvm2app2.2 liblvm2cmd2.02
```

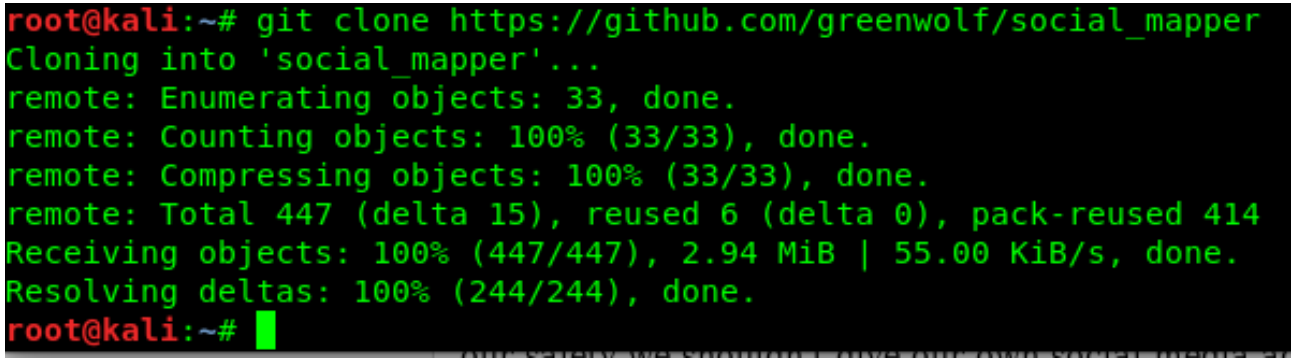
Now we go back to our root folder by using

```
cd #
```

Then we clone Social Mapper from it's GitHub repository by applying following command:

```
git clone https://github.com/greenwolf/social_mapper
```

The screenshot is following:



Then we need to install some python modules from Social Mapper's requirements we do this using following command:

```
cd social_mapper/setup && python3 -m pip install -r requirements.txt
```

The screenshot is following:

```
root@kali:~# cd social_mapper/setup && python3 -m pip install -r requirements.tx
t
Requirement already satisfied: beautifulsoup4 in /usr/lib/python3/dist-packages
(from -r requirements.txt (line 1)) (4.8.0)
Collecting selenium (from -r requirements.txt (line 2))
  Downloading https://files.pythonhosted.org/packages/80/d6/4294f0b4bce4de0abf13
e17190289f9d0613b0a44e5dd6a7f5ca98459853/selenium-3.141.0-py2.py3-none-any.whl (
904kB)
    100% |████████████████████████████████| 911kB 76kB/s
Collecting pyvirtualdisplay (from -r requirements.txt (line 3))
  Downloading https://files.pythonhosted.org/packages/cf/ad/b15f252bfb0f1693ad31
50b55a44a674f3cba711cacdbb9ae2f03f143d19/PyVirtualDisplay-0.2.4-py2.py3-none-any
.whl
Requirement already satisfied: tabulate in /usr/lib/python3/dist-packages (from
-r requirements.txt (line 4)) (0.8.2)
Requirement already satisfied: requests in /usr/local/lib/python3.7/dist-package
s (from -r requirements.txt (line 5)) (2.20.0)
Collecting face_recognition (from -r requirements.txt (line 6))
  Downloading https://files.pythonhosted.org/packages/3f/ed/ad9a28042f373d4633fc
8b49109b623597d6f193d3bbbef7780a5ee8eef2/face_recognition-1.2.3-py2.py3-none-any
```

Now we are almost able to run Social Mapper. Then we go back to Social Mapper's directory using following command :

```
cd ..
```

We can check the help option by using

```
python3 social_mapper.py -h
```

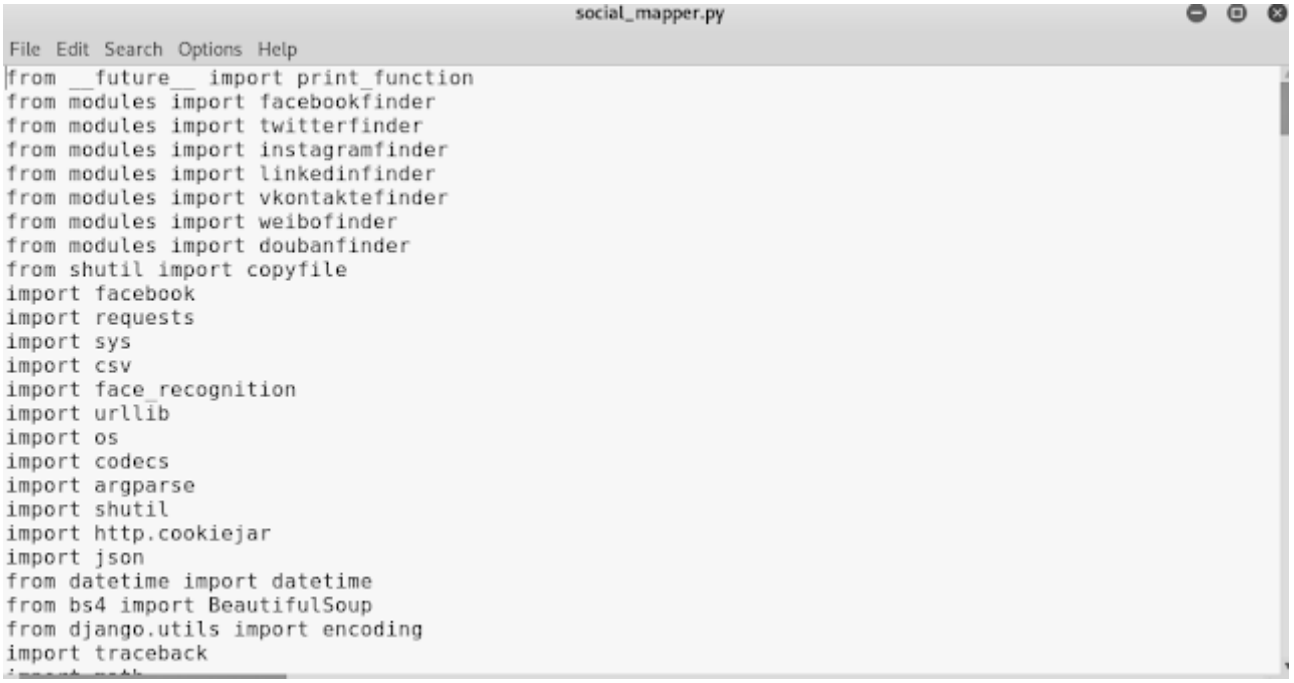
The help menu is following:

```
root@kali:~/social_mapper# python3 social_mapper.py -h
usage: social_mapper.py -f <format> -i <input> -m <mode> -t <threshold> <options
>

Social Mapper by Jacob Wilkin (Greenwolf)

optional arguments:
  -h, --help            show this help message and exit
  -v, --version         show program's version number and exit
  -vv, --verbose        Verbose Mode
  -f {socialmapper,company,csv,imagefolder}, --format {socialmapper,company,csv,
imagefolder}
                        Specify if the input file is either a 'company',a
                        'CSV',a 'imagefolder' or a Social Mapper HTML file to
                        resume
  -i INPUT, --input INPUT
                        The name of the CSV file, input folder or company name
                        to use as input
  -m {accurate,fast}, --mode {accurate,fast}
                        Selects the mode either accurate or fast, fast will
                        report the first match over the threshold while
                        accurate will check for the highest match over the
                        threshold
```

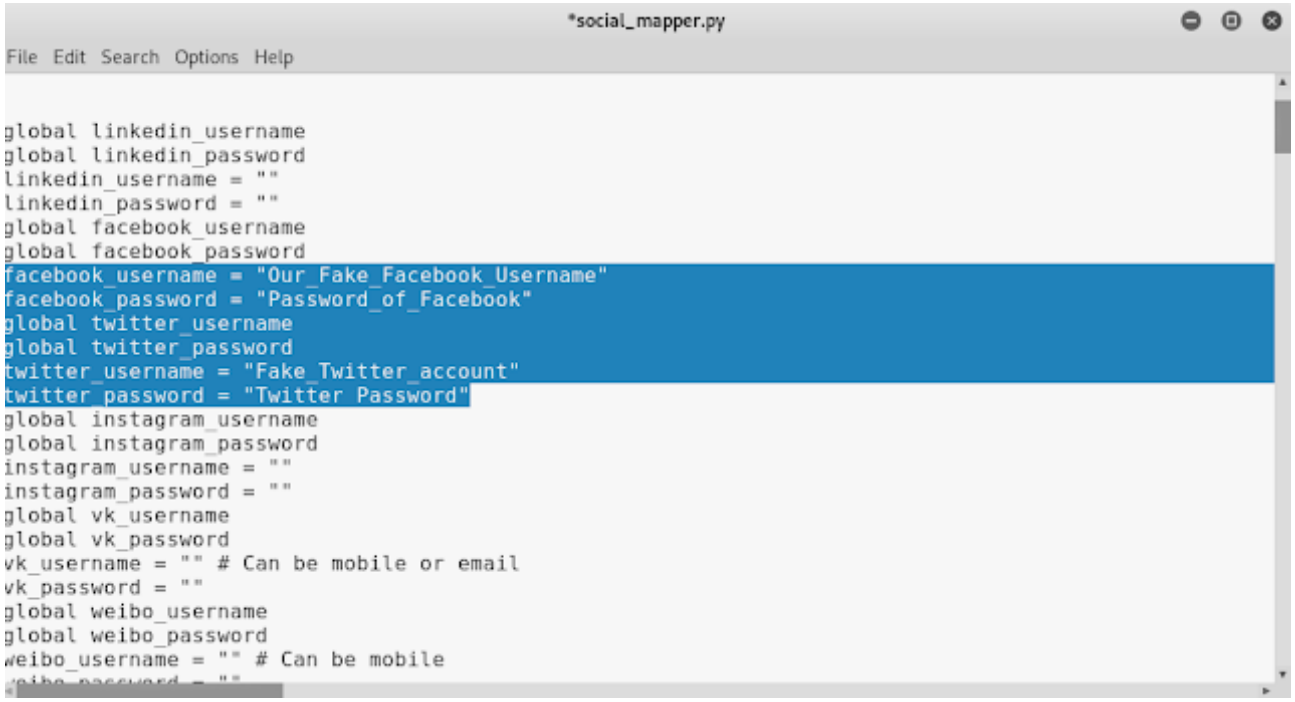
Social Mapper requires one account of social media to search across social media platforms, like if we want to search a photo on Facebook and Twitter we need to give our Facebook and Twitters username and password. Here for our safety we shouldn't give our own social media account's credentials. We should open fake account on social media to safer use of Social Mapper.
We can add our username and password in social_mapper.py file. To do we open the file in any text editor (we are using leafpad here).

```
leafpad social_mapper.py
```

The screenshot of the command is following:



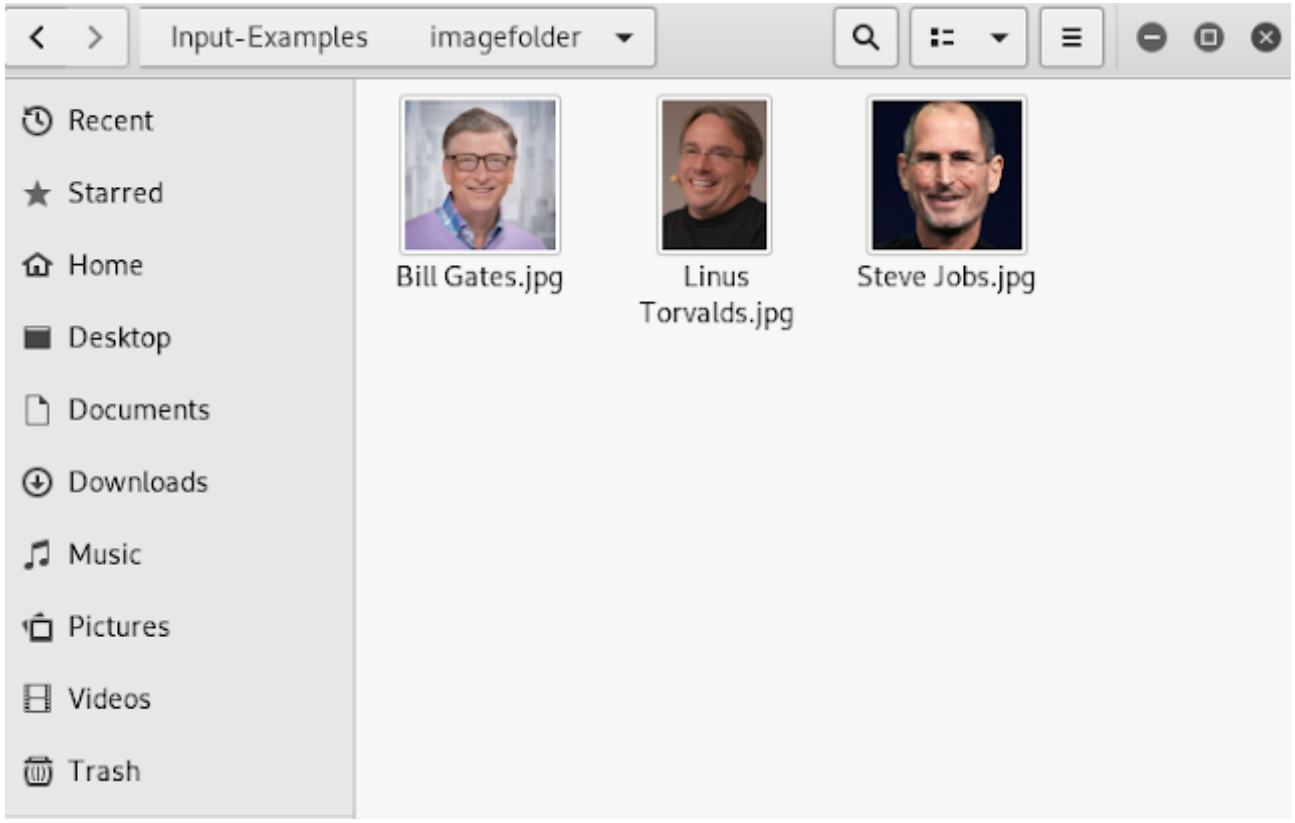
Then we need to scroll down and stop here as following screenshot:



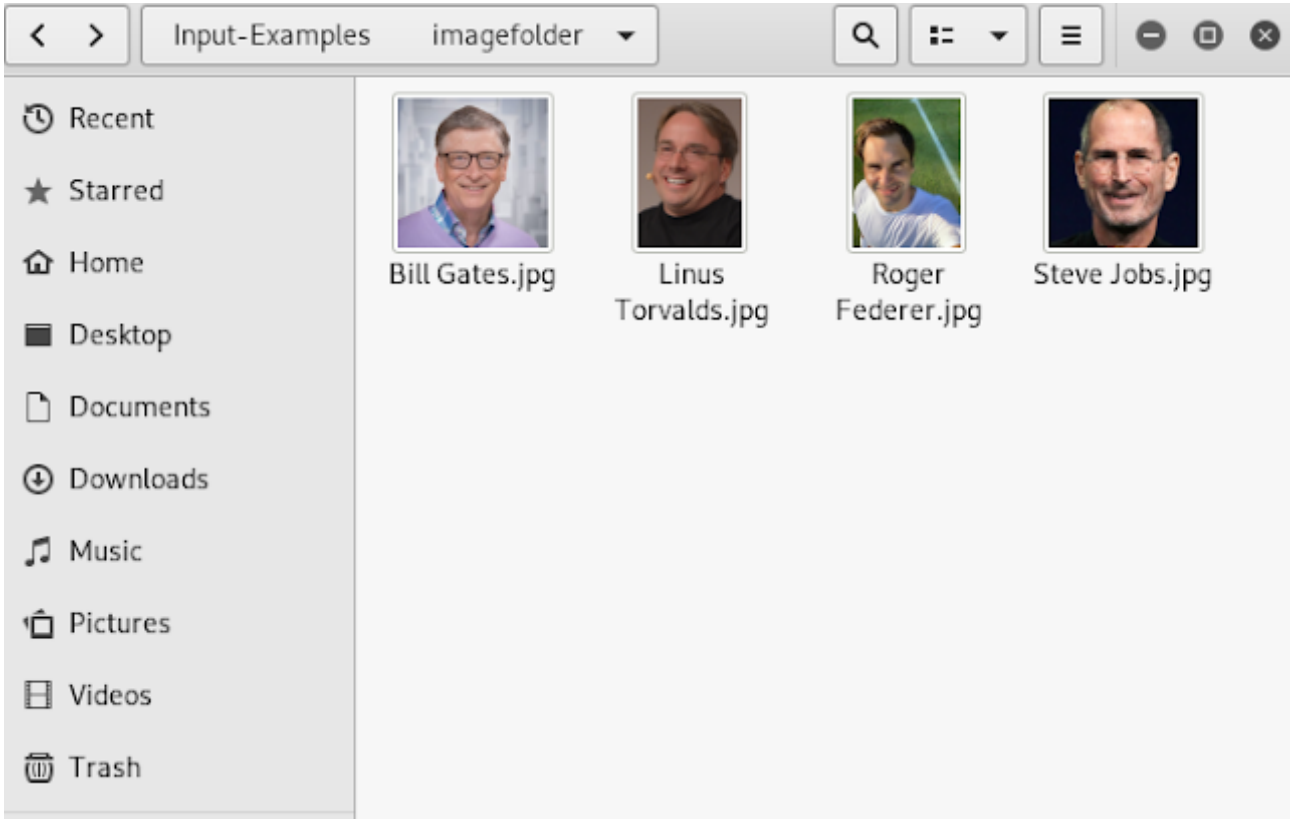
Credentials in plain text

Here we need to provide our username and password. Then we just save and close the text editor.

Then we open the Social Mapper folder in file manager and navigate to Input-Examples > imagefolder as shown below



Here we can see some examples. We can add target's photo in this folder to perform a scan. Here we have added.

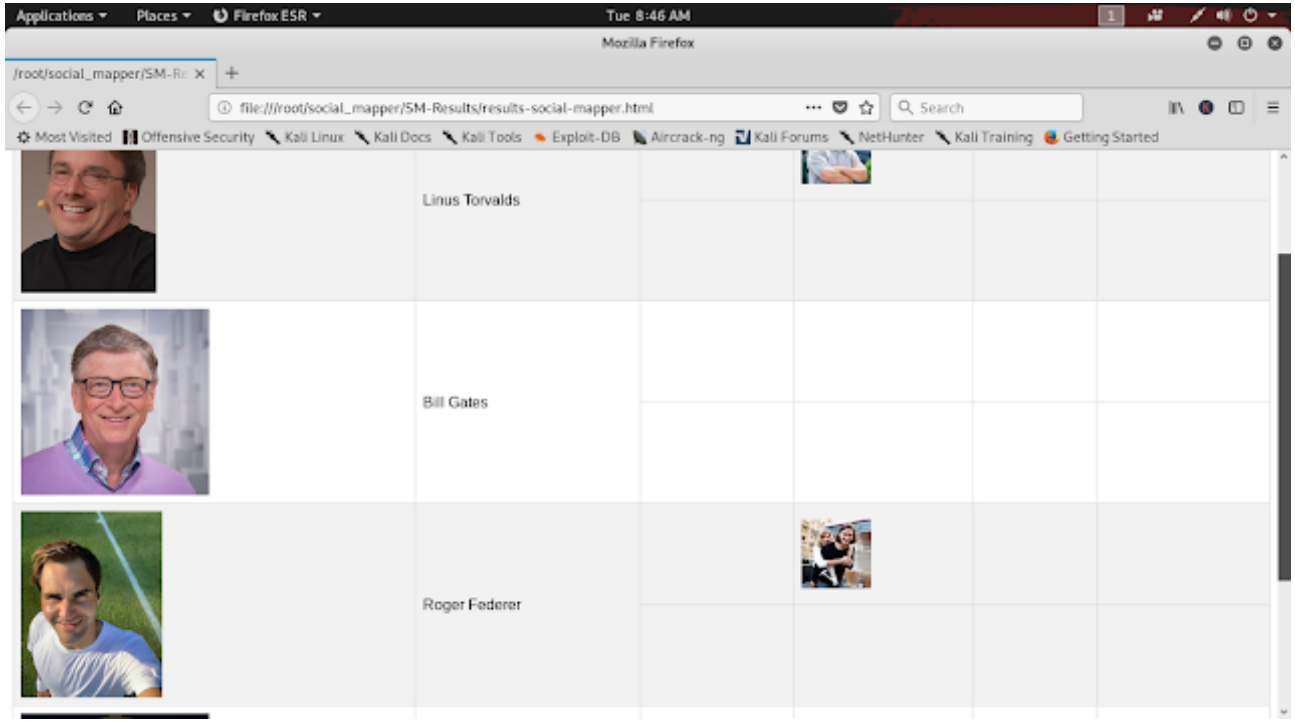


Then we type following command to perform a fast scan on Facebook:

```
python3 social_mapper.py -f imagefolder -i /root/social_mapper/Input-Examples/imagefolder -
```

The screenshot is following:

Here we can see the links of the profiles matched and also the results are saved in a csv and html file. We can open the html file in firefox web browser.



Here can come some fake profile of our target because we have used fast scan, to perform a accurate scan on Facebook and Twitter both we use following command:

```
python3 social_mapper.py -f imagefolder -i /root/social_mapper/Input-Examples/imagefolder
```

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12 Comments:

naveed1111 September 17, 2019 at 5:06 PM

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Reply

Sathish — September 21, 2019 at 6:03 PM

Getting error while installing cmake

Reply

Replies

Kali Linux — September 22, 2019 at 7:25 AM

Hi Sathish, Can you tell me the error please ?

Unknown — October 5, 2019 at 11:30 AM

Bro pfb the error

root@kali:~/Downloads# apt install build-essential cmake libgtk-3-dev libboost-all-dev
Reading package lists... Done
Building dependency tree
Reading state information... Done
Package cmake is not available, but is referred to by another package.
This may mean that the package is missing, has been obsoleted, or
is only available from another source

E: Package 'cmake' has no installation candidate
E: Unable to locate package libgtk-3-dev
E: Unable to locate package libboost-all-dev

Kali Linux — October 11, 2019 at 7:23 PM

It seems you need to update and upgrade your Kali Linux. Do it easily by
sudo apt-get update

then upgrade it by using
sudo apt-get upgrade
If the process not working then you need to change the repository of Kali Linux do it by just google.

Kali Linux

October 11, 2019 at 7:25 PM

you should update system by
apt-get update
then you can install cmake by
apt-get install cmake

Unknown

November 2, 2019 at 3:05 PM

I try to update. It is showing as below

Hit:1 http://deb.i2p2.no unstable InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.

I am new to linux. Please help me.

Kali Linux

November 3, 2019 at 2:52 AM

You are using wrong sources.list
try following command

leafpad /etc/apt/sources.list

then delete all things from there and paste following

deb http://kali.cs.nctu.edu.tw/kali kali-rolling main non-free contrib

then save and close it.... then you need to update by following command

apt-get update

after updating do whatever you are doing... This may solve your problem

Reply

Azlan October 7, 2019 at 9:01 PM

It is essential that you know what is social media business because it can act as your boost to the top.get connected

Reply

Muhammad Rafey October 12, 2019 at 7:57 PM

This is my first visit to your web journal! We are a group of volunteers and new activities in the same specialty. Website gave us helpful data to work. first reseller panel

Reply

johnjams October 19, 2019 at 9:29 PM

There are a number of photo editing techniques which will improve your photos to a good extent. Either removing unwanted elements from the picture, removing dust, scratches and spots or resizing the photo correctly are among the many editing techniques. There are also some very good photo editing software and online photo editing companies by which you can get your photo editing tasks done. There are various levels of editing. Today I will discuss about primary five editing. ecommerce photo editing

Reply

Unknown November 4, 2019 at 4:54 PM

received following error

oot@kali:~/social_mapper# python3 social_mapper.py -f imagefolder -i /root/social_mapper/Input-Examples/imagefolder -m fast -fb
[-] Error Filling out Facebook Profiles [-]
cmd=['Xvfb', '-help']
OSError=[Errno 2] No such file or directory: 'Xvfb': 'Xvfb'
Program install error!

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Email address...

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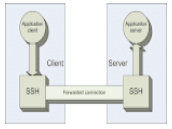

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