

INSTALL MOBILE SECURITY FRAMEWORK (MobSF)

1 Ubuntu

1.1 Install dependencies

root@ubuntu-1:~# apt-get install git

Python version 3.8-3.9

```
root@ubuntu-1:~# python3 -V
Python 3.8.10
root@ubuntu-1:~#
```

root@lam-G550JK:~# apt install python3-pip

root@ubuntu-1:~# python3 -m pip install --upgrade pip

root@ubuntu-1:~# pip3 --version

```
root@ubuntu-1:~/Mobile-Security-Framework-MobSF# pip3 --version
pip 20.0.2 from /usr/lib/python3/dist-packages/pip (python 3.8)
```

root@ubuntu-1:~# sudo apt-get install openjdk-8-jdk

root@ubuntu-1:~# java -version

```
root@ubuntu-1:~# java -version
openjdk version "1.8.0_352"
OpenJDK Runtime Environment (build 1.8.0_352-8u352-ga-1~20.04-b08)
OpenJDK 64-Bit Server VM (build 25.352-b08, mixed mode)
root@ubuntu-1:~#
```

root@lam-G550JK:~# sudo apt install python3-dev python3-venv python3-pip build-essential libffi-dev libssl-dev libxml2-dev libxslt1-dev libjpeg8-dev zlib1g-dev wkhtmltopdf

1.2 Install Virtual-box

root@lam-G550JK:~# sudo apt update

root@lam-G550JK:~# sudo apt install virtualbox

root@lam-G550JK:~# vboxmanage --version

```
root@lam-G550JK:~# vboxmanage --version
6.1.38_Ubuntu153438
root@lam-G550JK:~#
```

1.3 Install Genymotion

root@lam-G550JK:~# ./genymotion-3.3.3-linux_x64.bin

```
root@lam-G550JK:~# ./genymotion-3.3.3-linux_x64.bin
Installing for all users.

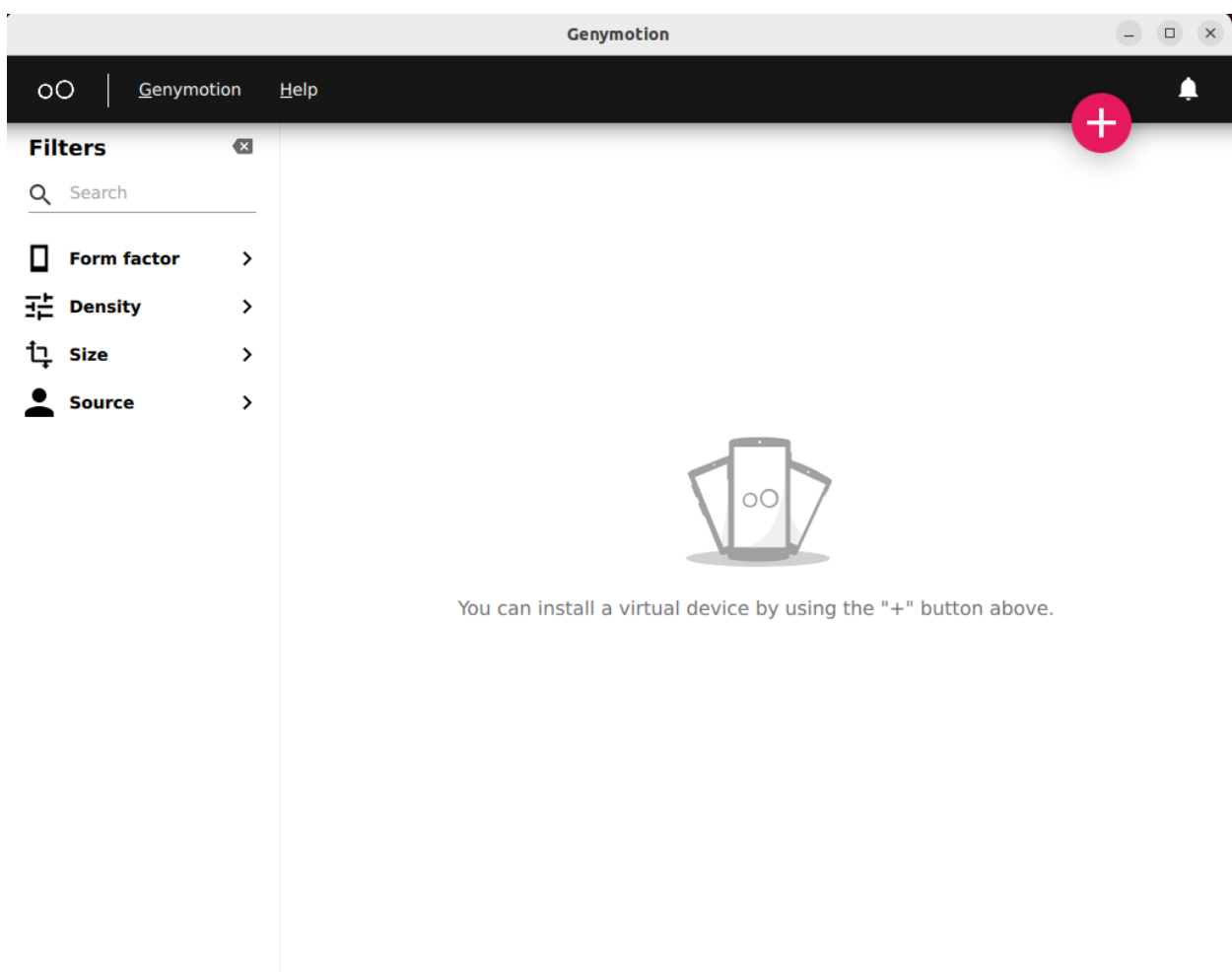
Installing to folder [/opt/genymobile/genymotion]. Are you sure [y/n] ? y

- Extracting files ..... OK (Extract into: [/opt/genymobile/genymotion])
- Installing launcher icon ..... OK

Installation done successfully.

You can now use these tools from [/opt/genymobile/genymotion]:
- genymotion
- genymotion-shell
- gmtool

root@lam-G550JK:~#
```



1.4 Install MOBSF and Run

root@ubuntu-1:~# git clone <https://github.com/MobSF/Mobile-Security-Framework-MobSF.git>

```

root@ubuntu-1:~# git clone https://github.com/MobSF/Mobile-Security-Framework-MobSF.git
Cloning into 'Mobile-Security-Framework-MobSF'...
remote: Enumerating objects: 18761, done.
remote: Counting objects: 100% (44/44), done.
remote: Compressing objects: 100% (34/34), done.
remote: Total 18761 (delta 17), reused 23 (delta 10), pack-reused 18717
Receiving objects: 100% (18761/18761), 1.23 GiB | 1.87 MiB/s, done.
Resolving deltas: 100% (9316/9316), done.
root@ubuntu-1:~# ls -al
total 36
drwx----- 7 root root 4096 Feb 24 12:10 .
drwxr-xr-x 19 root root 4096 Feb 24 11:18 ..
-rw-r--r-- 1 root root 3106 Dec  5 2019 .bashrc
drwx----- 2 root root 4096 Feb 24 11:35 .cache
drwxr-xr-x 3 root root 4096 Feb 24 11:28 .local
drwxr-xr-x 7 root root 4096 Feb 24 12:22 Mobile-Security-Framework-MobSF
-rw-r--r-- 1 root root 161 Dec  5 2019 .profile
drwx----- 3 root root 4096 Feb 24 11:20 snap
drwx----- 2 root root 4096 Feb 24 11:20 .ssh
root@ubuntu-1:~#

```

root@ubuntu-1:~# chmod -R 777 Mobile-Security-Framework-MobSF/

root@ubuntu-1:~# chmod -R 777 Mobile-Security-Framework-MobSF/*

root@ubuntu-1:~# cd Mobile-Security-Framework-MobSF/

```

root@ubuntu-1:~/Mobile-Security-Framework-MobSF# ls -al
total 144
drwxrwxrwx 7 root root 4096 Feb 24 12:22 .
drwx----- 7 root root 4096 Feb 24 12:10 ..
-rwxrwxrwx 1 root root 777 Feb 24 12:22 docker-compose.yml
-rwxrwxrwx 1 root root 3028 Feb 24 12:22 Dockerfile
-rwxrwxrwx 1 root root 304 Feb 24 12:22 .dockerignore
drwxrwxrwx 8 root root 4096 Feb 24 12:22 .git
drwxrwxrwx 4 root root 4096 Feb 24 12:22 .github
-rwxrwxrwx 1 root root 966 Feb 24 12:22 .gitignore
-rwxrwxrwx 1 root root 133 Feb 24 12:22 .gitmodules
-rwxrwxrwx 1 root root 35134 Feb 24 12:22 LICENSE
drwxrwxrwx 2 root root 4096 Feb 24 12:22 LICENSES
-rwxrwxrwx 1 root root 563 Feb 24 12:22 manage.py
-rwxrwxrwx 1 root root 432 Feb 24 12:22 MANIFEST.in
drwxrwxrwx 10 root root 4096 Feb 24 12:22 mobsf
-rwxrwxrwx 1 root root 510 Feb 24 12:22 .pyup.yml
-rwxrwxrwx 1 root root 12676 Feb 24 12:22 README.md
-rwxrwxrwx 1 root root 646 Feb 24 12:22 requirements.txt
-rwxrwxrwx 1 root root 458 Feb 24 12:22 run.bat
-rwxrwxrwx 1 root root 952 Feb 24 12:22 run.sh
drwxrwxrwx 2 root root 4096 Feb 24 12:22 scripts
-rwxrwxrwx 1 root root 2531 Feb 24 12:22 setup.bat
-rwxrwxrwx 1 root root 1750 Feb 24 12:22 setup.py
-rwxrwxrwx 1 root root 2221 Feb 24 12:22 setup.sh
-rwxrwxrwx 1 root root 99 Feb 24 12:22 .sonarcloud.properties
-rwxrwxrwx 1 root root 1985 Feb 24 12:22 tox.ini
root@ubuntu-1:~/Mobile-Security-Framework-MobSF#

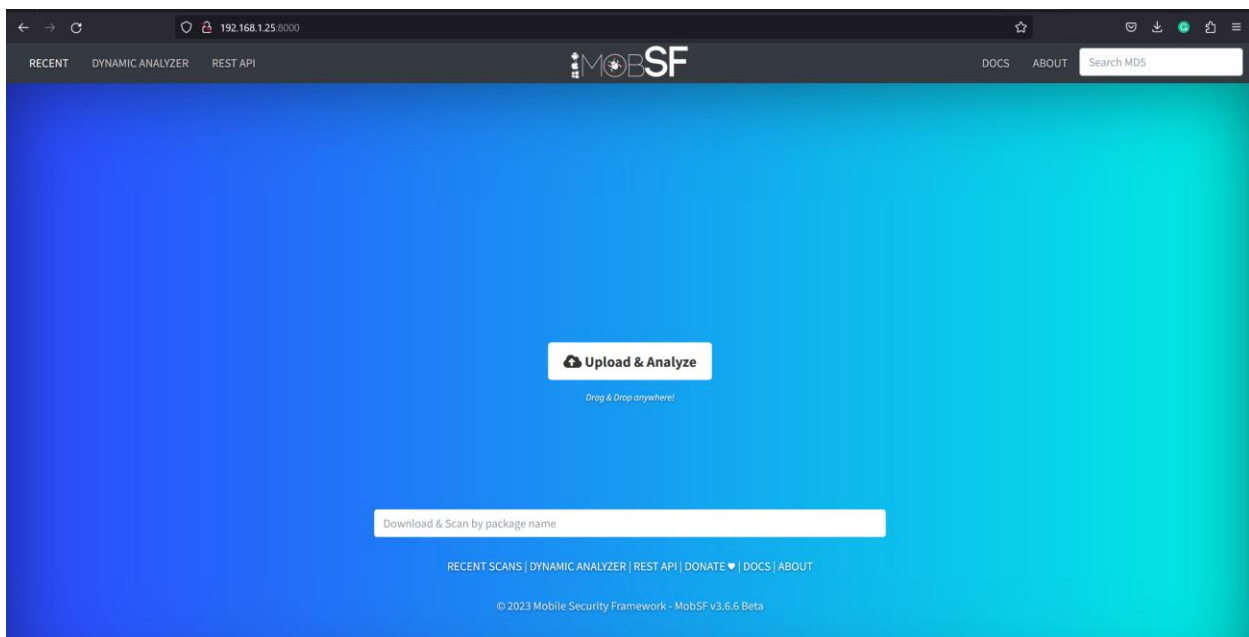
```

root@ubuntu-1:~/Mobile-Security-Framework-MobSF# ./setup.sh


```

root@lam-G550JK:~# netstat -antlp
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 127.0.0.1:631           0.0.0.0:*               LISTEN      934/cupsd
tcp        0      0 0.0.0.0:8000            0.0.0.0:*               LISTEN      45940/python3
tcp        0      0 127.0.0.53:53           0.0.0.0:*               LISTEN      524/systemd-resolve
tcp        0      0 0.0.0.0:80              0.0.0.0:*               LISTEN      947/nginx: master p
tcp        0      0 0.0.0.0:22              0.0.0.0:*               LISTEN      922/sshd: /usr/sbin
tcp        0      0 192.168.1.25:22         192.168.1.10:51438     ESTABLISHED 25077/sshd: root@no
tcp        0      0 192.168.1.25:22         192.168.1.10:50776     ESTABLISHED 17048/sshd: root@pt
tcp        0      0 192.168.1.25:55758      34.117.65.55:443       ESTABLISHED 16097/firefox
tcp        0      0 192.168.1.25:43728      34.117.237.239:443     ESTABLISHED 16097/firefox
tcp        0      0 192.168.1.25:22         192.168.1.10:55306     ESTABLISHED 12857/sshd: root@pt
tcp6       0      0 :::1:631                :::*                   LISTEN      934/cupsd
tcp6       0      0 :::80                   :::*                   LISTEN      947/nginx: master p
tcp6       0      0 :::22                   :::*                   LISTEN      922/sshd: /usr/sbin
root@lam-G550JK:~# █

```



1.5 Create MOBSF service

```
root@lam-G550JK:/etc/systemd# nano /etc/systemd/system/mobsf.service
```

```
[Unit]
```

```
Description=MOBSF service
```

```
After=multi-user.target
```

```
[Service]
```

```
Type=simple
```

```
Restart=always
```

```
RestartSec=1
```

```
User=root
```

```
WorkingDirectory=/root/Mobile-Security-Framework-MobSF/
```

```
ExecStart=/usr/bin/bash run.sh 0.0.0.0:8000
```

```
[Install]
```

```
WantedBy=multi-user.target
```

```
root@lam-G550JK:/etc/systemd# systemctl daemon-reload
```

```
root@lam-G550JK:/etc/systemd/system# systemctl enable mobsf.service
```

```
root@lam-G550JK:/etc/systemd/system# service mobsf start
```

```
root@lam-G550JK:/etc/systemd/system# service mobsf status
```

```
root@lam-G550JK:/etc/systemd/system# service mobsf start
root@lam-G550JK:/etc/systemd/system# service mobsf status
● mobsf.service - MOBSF service
   Loaded: loaded (/etc/systemd/system/mobsf.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2023-05-01 14:50:06 CEST; 3s ago
     Main PID: 46943 (bash)
       Tasks: 3 (limit: 18966)
      Memory: 45.2M
         CPU: 370ms
    CGroup: /system.slice/mobsf.service
            └─46943 /usr/bin/bash run.sh 0.0.0.0:8000
              └─46950 /root/Mobile-Security-Framework-MobSF/venv/bin/python3 /root/Mobile-Security-Framework-MobSF/venv/bin/gunicorn -b 0.0.0.0:8000 mobsf.MobSF.wsgi:application
                └─46951 /root/Mobile-Security-Framework-MobSF/venv/bin/python3 /root/Mobile-Security-Framework-MobSF/venv/bin/gunicorn -b 0.0.0.0:8000 mobsf.MobSF.wsgi:application

mag 01 14:50:06 lam-G550JK systemd[1]: Started MOBSF service.
mag 01 14:50:07 lam-G550JK bash[46950]: [2023-05-01 14:50:07 +0200] [46950] [INFO] Starting gunicorn 20.1.0
mag 01 14:50:07 lam-G550JK bash[46950]: [2023-05-01 14:50:07 +0200] [46950] [INFO] Listening at: http://0.0.0.0:8000 (46950)
mag 01 14:50:07 lam-G550JK bash[46950]: [2023-05-01 14:50:07 +0200] [46950] [INFO] Halted workers: 0/0/0
```


2 Fix

Install multiple python version

```
root@thanhlam-G550JK:~# apt update
```

```
root@thanhlam-G550JK:~# apt install software-properties-common
```

```
root@thanhlam-G550JK:~# add-apt-repository ppa:deadsnakes/ppa
```

```
root@thanhlam-G550JK:~# apt install python3.9
```

```
root@thanhlam-G550JK:~# python3.9 --version
Python 3.9.16
root@thanhlam-G550JK:~# python3 --version
Python 3.10.6
root@thanhlam-G550JK:~#
```

```
root@thanhlam-G550JK:~/Mobile-Security-Framework-MobSF# apt install python3.9-distutils
```

```
root@thanhlam-G550JK:~# ls -al /usr/bin/python*
```

```
root@thanhlam-G550JK:~# ls -al /usr/bin/python*
lrwxrwxrwx 1 root root 10 Thg 8 18 2022 /usr/bin/python3 -> python3.10
-rwxr-xr-x 1 root root 5921160 Thg 11 14 17:10 /usr/bin/python3.10
lrwxrwxrwx 1 root root 34 Thg 11 14 17:10 /usr/bin/python3.10-config -> x86_64-linux-gnu-python3.10-config
-rwxr-xr-x 1 root root 5303088 Thg 12 7 02:12 /usr/bin/python3.9
lrwxrwxrwx 1 root root 17 Thg 8 18 2022 /usr/bin/python3-config -> python3.10-config
-rwxr-xr-x 1 root root 960 Thg 1 25 09:29 /usr/bin/python3-futurize
-rwxr-xr-x 1 root root 964 Thg 1 25 09:29 /usr/bin/python3-pasteurize
root@thanhlam-G550JK:~#
```

```
root@thanhlam-G550JK:~# update-alternatives --install /usr/bin/python3 python3 /usr/bin/python3.10 1
```

```
root@thanhlam-G550JK:~# update-alternatives --install /usr/bin/python3 python3 /usr/bin/python3.9 2
```

```
root@thanhlam-G550JK:~# update-alternatives --install /usr/bin/python3 python3 /usr/bin/python3.10 1
update-alternatives: using /usr/bin/python3.10 to provide /usr/bin/python3 (python3) in auto mode
root@thanhlam-G550JK:~# update-alternatives --install /usr/bin/python3 python3 /usr/bin/python3.9 2
update-alternatives: using /usr/bin/python3.9 to provide /usr/bin/python3 (python3) in auto mode
root@thanhlam-G550JK:~#
```

```
root@thanhlam-G550JK:~# update-alternatives --config python3
```

```
root@thanhlam-G550JK:~# update-alternatives --config python3
There are 2 choices for the alternative python3 (providing /usr/bin/python3).
```

Selection	Path	Priority	Status
* 0	/usr/bin/python3.9	2	auto mode
1	/usr/bin/python3.10	1	manual mode
2	/usr/bin/python3.9	2	manual mode

```
Press <enter> to keep the current choice[*], or type selection number: 2
```

```
root@thanhlam-G550JK:~#
```

```
root@thanhlam-G550JK:~# python3 --version
Python 3.9.16
root@thanhlam-G550JK:~#
```

```
root@thanhlam-G550JK:~/Mobile-Security-Framework-MobSF# apt-get --purge
```

```
autoremove python3-pip
```

```
root@thanhlam-G550JK:~/Mobile-Security-Framework-MobSF# apt install python3-pip
```

3 Link

<https://mobsf.github.io/docs/#/>

<https://github.com/MobSF/Mobile-Security-Framework-MobSF>