

Android Penetration Testing with MobSF — **Professional Manual**

Prerequisites

- Permissions: sudo access
- ✓ Internet connection

This command updates the package list and upgrades all installed packages to their latest versions — **best practice before any installation**. Sudo apt update && sudo apt upgrade -y

```
File Actions Edit View Help
      -(kali®kali)-[~]
sudo apt update 86 sudo apt upgrade -y
[sudo] password for kali:
Get:1 http://kali.download/kali kali-rolling InRelease [41.5 kB]
Get:2 http://kali.download/kali kali-rolling/main amd64 Packages [21.0 MB]
Get:3 http://kali.download/kali kali-rolling/main amd64 Contents (deb) [51.9 MB]
Get:3 http://kali.download/kali kali-rolling/main amdo4 Contents (deb) [51.9 Mb]
Fetched 72.9 MB in 28s (2,621 kB/s)

246 packages can be upgraded. Run 'apt list --upgradable' to see them.
The following packages were automatically installed and are no longer required:
google-android-licenses libpoppler145 python3-poetry-dynamic-versioning
icu-devtools libpython3.12-minimal python3-pywerview
intltool-debian libpython3.12t64 python3-requests-ntlm
libflac12t64 libpython3.12t64 python3-setproctitle
libfuso2-2 libsys-hostname-long-perl python3-tomlkit
                                                  libsys-hostname-long-perl python3-setproc
libutempter0 python3-tomlkit
     libfuse3-3
                                                                                                            python3.12-tk
     libgeos3.13.0
     libglapi-mesa
                                                         po-debconf
                                                                                                                              ruby-zeitwerk
     libicu-dev
                                                             python3-aioconsole
                                                                                                                              sphinx-rtd-theme-common
     liblbfgsb0
                                                             python3-dunamai
                                                                                                                            strongswan
libmail-sendmail-perl python3-nfsclient Use 'sudo apt autoremove' to remove them.
     libmail-sendmail-perl
Upgrading:
                                                                                    libjpeg62-turbo
libkmod2
```

This installs the official docker.io package from Kali's repositories. sudo apt install docker.io -y

```
-(kali⊗kali)-[~]
 -$ <u>sudo</u> apt install docker.io -y
[sudo] password for kali:
docker.io is already the newest version (26.1.5+dfsg1-9+b6).
The following packages were automatically installed and are no longer required:
  ne following packages were automatically,
google-android-licenses libpoppler145 python3-poetry-dynamic
icu-devtools libpython3.12-minimal python3-pywerview
intltool-debian libpython3.12-stdlib python3-requests-ntlm
python3-setproctitle
                                                                   python3-poetry-dynamic-versioning
 libfuse3-3 libsys-hostname-long-perl python3.12-tk libglapi-mesa po-debconf ruby-zeitwerk
                                python3-aioconsole
  libicu-dev
                                                                     sphinx-rtd-theme-common
                                python3-dunamai
  liblbfgsb0
                                                                     strongswan
  libmail-sendmail-perl
                                 python3-nfsclient
Use 'sudo apt autoremove' to remove them.
Summary:
 Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 7
```

enable: ensures Docker starts on system boot. start: launches Docker service for immediate use sudo systemctl enable docker

sudo systemctl start docker

```
(kali@ kali)-[~]
$ sudo systemctl enable docker
sudo systemctl start docker

Synchronizing state of docker.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable docker
```

Confirms Docker is installed correctly.

docker --version

```
(kali⊗ kali)-[~]
$ docker --version

Docker version 26.1.5+dfsg1, build a72d7cd
```

Downloads the latest **official MobSF image** from DockerHub. sudo docker pull opensecurity/mobile-security-framework-mobsf:latest

```
(kali@kali)-[~]
$ sudo docker pull opensecurity/mobile-security-framework-mobsf:latest

latest: Pulling from opensecurity/mobile-security-framework-mobsf
Digest: sha256:7dcccb98e0c036ba751270edd3dcc81a30b21a7fb20f834d6198078b54265992
Status: Image is up to date for opensecurity/mobile-security-framework-mobsf:latest
docker.io/opensecurity/mobile-security-framework-mobsf:latest
```

Corrected Explanation:

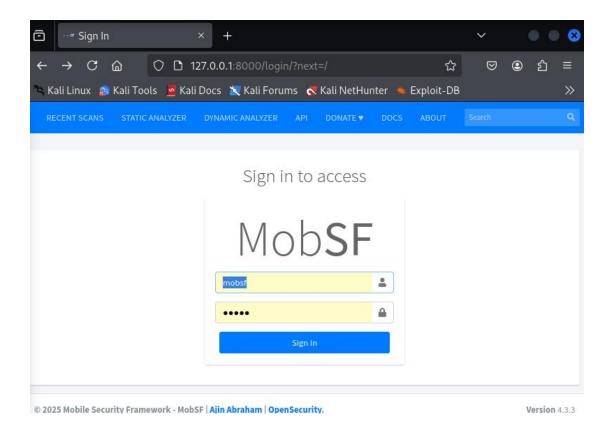
-it: interactive terminal

- --rm: auto-remove container after exit
- -p 8000:8000: maps MobSF's port 8000 to localhost

This starts MobSF **temporarily**. Close the terminal = stops MobSF.

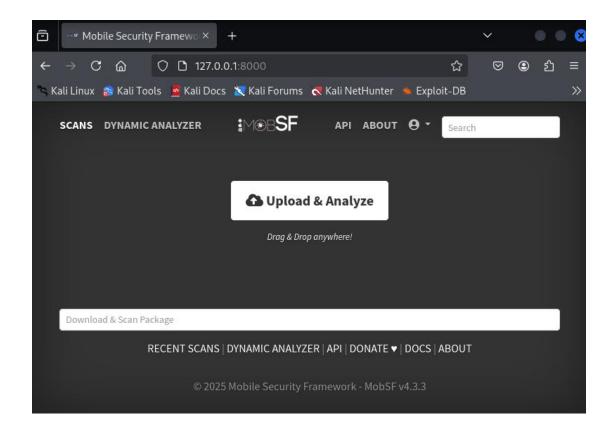
sudo docker run -it --rm -p 8000:8000 opensecurity/mobile-security-framework-mobsf:latest

In browser http://127.0.0.1:8000/

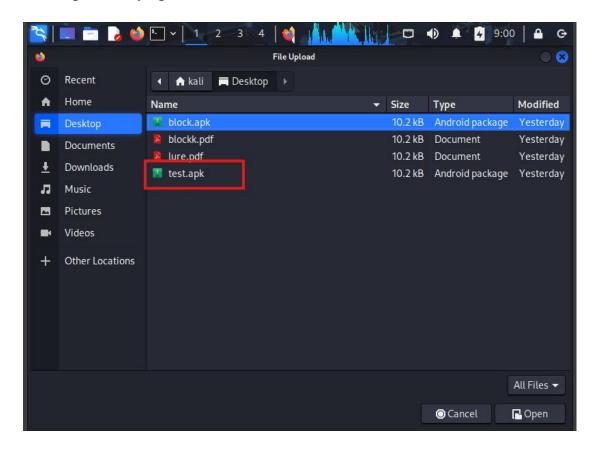


<u>username: mobsf</u> <u>password: mobsf</u>

Explain what the APK is, what risks were found, and what each tab in the results means.



Now upload any apk file to scan





After scanning it give me detailed information.

Stop MobSF::

sudo docker stop mobsf

Start Mobsf sudo docker start mobsf