

# Pen Testing using MobSF

## Requirement of MobSF

### ▪ Windows

- Install [Git](#)
  - Link: <https://git-scm.com/download/win>
- Install [Python 3.8-3.9](#)
  - Link: <https://www.python.org/>
- Install [JDK 8+](#)
  - Link: <https://www.oracle.com/java/technologies/downloads/>
- Install [Microsoft Visual C++ Build Tools](#)
  - <https://visualstudio.microsoft.com/thank-you-downloading-visual-studio/?sku=BuildTools&rel=16>
- Install [OpenSSL \(non-light\)](#)
  - <https://slproweb.com/products/Win32OpenSSL.html>
- Download & Install [wkhtmltopdf](#) as per the [wiki instructions](#)
  - Link: <https://wkhtmltopdf.org/downloads.html>
- Add the folder that contains wkhtmltopdf binary to the environment variable PATH.

### ▪ Dynamic Analysis

- Dynamic Analysis will not work if you use a MobSF inside a Virtual Machine.
- Install Genymotion or Genymotion Cloud VM or Android Studio Emulator

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## Installation of MobSF

### ■ Windows

1. `git clone https://github.com/MobSF/Mobile-Security-Framework-MobSF.git`
2. `cd Mobile-Security-Framework-MobSF`
3. `setup.bat`

```
Command Prompt - git clone https://github.com/MobSF/Mobile-Security-Framework-MobSF.git
Microsoft Windows [Version 10.0.19044.1766]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Parag>git clone https://github.com/MobSF/Mobile-Security-Framework-MobSF.git
Cloning into 'Mobile-Security-Framework-MobSF'...
remote: Enumerating objects: 18514, done.
remote: Counting objects: 100% (85/85), done.
remote: Compressing objects: 100% (66/66), done.
Receiving objects: 18% (3336/18514), 178.21 MiB | 188.00 KiB/s
```

- Before running `setup.bat` close any opened folders of MobSF or text editors with MobSF opened. Either of these can interrupt the setup by causing permission errors
- For mac or Linux visit <https://mobsf.github.io/docs/#/requirements>

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```

Microsoft Windows [Version 10.0.19044.1766]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Parag>git clone https://github.com/MobSF/Mobile-Security-Framework-MobSF.git
Cloning into 'Mobile-Security-Framework-MobSF'...
remote: Enumerating objects: 18514, done.
remote: Counting objects: 100% (85/85), done.
remote: Compressing objects: 100% (66/66), done.
remote: Total 18514 (delta 40), reused 44 (delta 19), pack-reused 18429
Receiving objects: 100% (18514/18514), 1.17 GiB | 274.00 KiB/s, done.
Receiving objects: 100% (18514/18514), 1.17 GiB | 274.00 KiB/s, done.

Resolving deltas: 100% (9179/9179), done.
Updating files: 100% (398/398), done.

C:\Users\Parag>cd Mobile-Security-Framework-MobSF

C:\Users\Parag\Mobile-Security-Framework-MobSF>setup.bat
[INSTALL] Checking for Python version 3.8+
[INSTALL] Found Python 3.9.1
[INSTALL] Found pip
Collecting pip
  Downloading pip-22.1.2-py3-none-any.whl (2.1 MB)
    |████████████████████████████████████████| 2.1 MB 939 kB/s
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 20.2.3

```

# Pen Testing using MobSF

## Installation of MobSF

Command Prompt

```
[WARNING] 03/Jul/2022 22:09:40 - Dynamic Analysis related functions will not work.  
Make sure a Genymotion Android VM/Android Studio Emulator is running before performing Dynamic Analysis.  
No changes detected in app 'StaticAnalyzer'  
[INFO] 03/Jul/2022 22:09:41 - Checking for Update.  
[INFO] 03/Jul/2022 22:09:41 - No updates available.  
[INFO] 03/Jul/2022 22:09:43 -  
  
[INFO] 03/Jul/2022 22:09:43 - Mobile Security Framework v3.5.2 Beta  
REST API Key: 9daa69afedad019ec611ddbe995ce1d5d7507c10729ad96b5735fed6f6e222c8  
[INFO] 03/Jul/2022 22:09:43 - OS: Windows  
[INFO] 03/Jul/2022 22:09:43 - Platform: Windows-10-10.0.19041-SP0  
[INFO] 03/Jul/2022 22:09:43 - MobSF Basic Environment Check  
[WARNING] 03/Jul/2022 22:09:44 - Dynamic Analysis related functions will not work.  
Make sure a Genymotion Android VM/Android Studio Emulator is running before performing Dynamic Analysis.  
Operations to perform:  
  Apply all migrations: StaticAnalyzer, auth, contenttypes, sessions  
Running migrations:  
  No migrations to apply.  
[INFO] 03/Jul/2022 22:09:44 - Checking for Update.  
[INFO] 03/Jul/2022 22:09:45 - No updates available.  
Download and Install wkhtmltopdf for PDF Report Generation - https://wkhtmltopdf.org/downloads.html  
[INSTALL] Installation Complete  
  
C:\Users\Parag\Mobile-Security-Framework-MobSF>
```

# Pen Testing using MobSF

## Running MobSF

- Windows

`run.bat 127.0.0.1:8000`

- Linux/Mac

`./run.sh 127.0.0.1:8000`

