

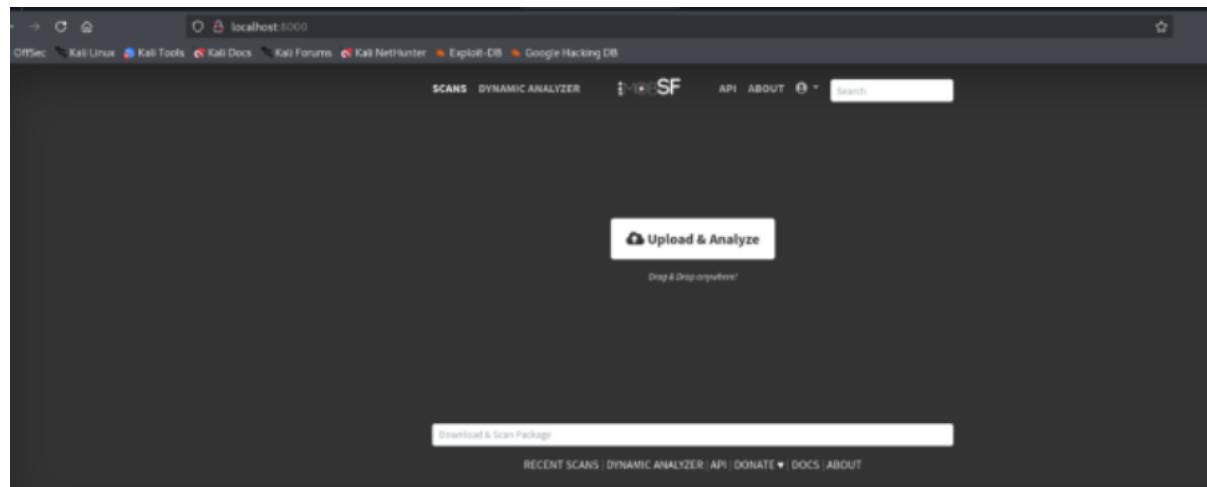
1. Mobile Application Testing

1.1 Static analysis with MobSF

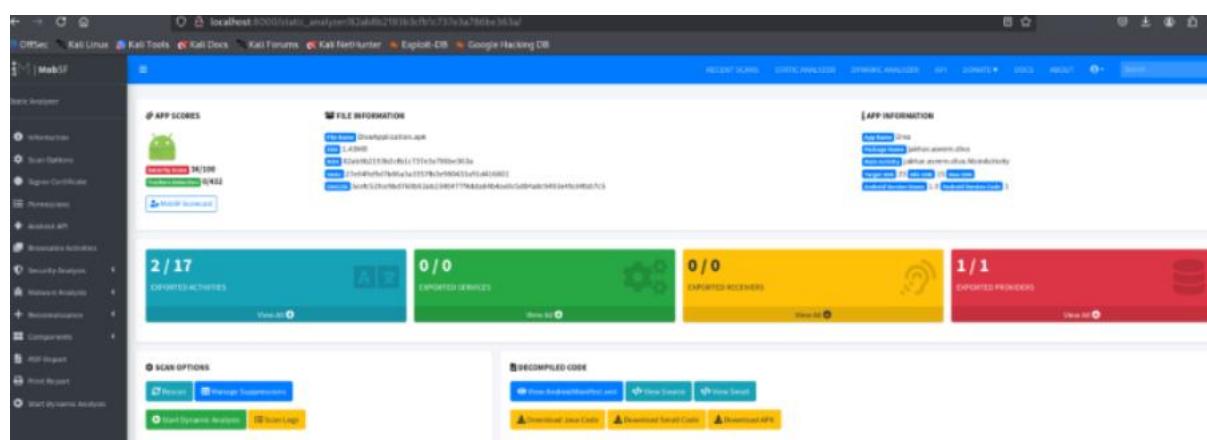
First, setup the target as DIVA apk and launch the MobSF for static analysis

```
sudo docker run -it --rm -p 8000:8000 opensecurity/mobile-security-framework-mobsf:latest
[sudo] password for aazukaazu:
[+] Image successfully pulled from opensecurity/mobile-security-framework-mobsf:latest
[+] Pulling from opensecurity/mobile-security-framework-mobsf
[+] Digest: sha256:82499ab806
[+] Status: Downloaded newer image for opensecurity/mobile-security-framework-mobsf:latest
[+] Pulling from opensecurity/mobile-security-framework-mobsf
[+] Digest: sha256:dc17963468
[+] Status: Downloaded newer image for opensecurity/mobile-security-framework-mobsf:latest
[+] Pulling from opensecurity/mobile-security-framework-mobsf
[+] Digest: sha256:86186b8d84
[+] Status: Downloaded newer image for opensecurity/mobile-security-framework-mobsf:latest
[+] Pulling from opensecurity/mobile-security-framework-mobsf
[+] Digest: sha256:e903582132
[+] Status: Downloaded newer image for opensecurity/mobile-security-framework-mobsf:latest
[+] Pulling from opensecurity/mobile-security-framework-mobsf
[+] Digest: sha256:7c14c4cb36
[+] Status: Downloading [=====] 172.4MB/387.5MB
[+] Pulling from opensecurity/mobile-security-framework-mobsf
[+] Digest: sha256:fcdeed176a
[+] Status: Download complete
[+] Pulling from opensecurity/mobile-security-framework-mobsf
[+] Digest: sha256:a4a8cb9854
[+] Status: Downloading [=====] 185MB/359.6MB
[+] Pulling from opensecurity/mobile-security-framework-mobsf
[+] Digest: sha256:6c8d81d8d6
[+] Status: Download complete
[+] Pulling from opensecurity/mobile-security-framework-mobsf
[+] Digest: sha256:f485e0fb3a
[+] Status: Download complete
[+] Pulling from opensecurity/mobile-security-framework-mobsf
[+] Digest: sha256:7eb413d886
[+] Status: Download complete
[+] Pulling from opensecurity/mobile-security-framework-mobsf
[+] Digest: sha256:d4d6a2494e
[+] Status: Download complete
[+] Pulling from opensecurity/mobile-security-framework-mobsf
[+] Digest: sha256:639e3eaca9
[+] Status: Downloading [=====] 92.61MB/104.9MB
[+] Pulling from opensecurity/mobile-security-framework-mobsf
[+] Digest: sha256:7a8041
```

Once, it was running open the browser and go to <http://127.0.0.1:8000>



Upload a DIVA file in the web server, it will show some results.



Then, you have to analyse the security Assessment lab

ISSUE	SEVERITY	STANDARDS	FILES	OPTIONS
1. The App logs information. Sensitive information should never be logged.	LOW	CWE: CWE-433: Inception of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3	private/more info/ Insecure Logging	View
2. Application temp file. Sensitive information should never be written into a temp file.	WARNING	CWE: CWE-270: Incorrect Default Permissions OWASP Top 10: M2 - Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	private/more info/ Insecure Data Storage	View
3. Debug configuration enabled. Production builds must not be debuggable.	INFO	CWE: CWE-328: Weaknesses in Mobile Applications OWASP Top 10: M3 - Improper Platform Usage OWASP MASVS: M3-U-TESTING-3	private/more info/ Insecure Configuration	View
4. App uses SQLite Database and execute raw SQL query. Unsanitized user input in raw SQL queries can cause SQL Injection. All sensitive information should be encrypted and written to the database.	WARNING	CWE: CWE-89: Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection') OWASP Top 10: M7: Client Code Quality	private/more info/ Insecure Database Usage private/more info/M7: Client Code Quality private/more info/CWE-89: SQL Injection	View
5. App can read/write to external storage. Any App can read data written to external storage.	WARNING	CWE: CWE-270: Incorrect Default Permissions OWASP Top 10: M2 - Insecure Data Storage	private/more info/ Insecure Data Storage	View