

## Ex.No.7 Use AFLogical OSE to extract data from an Android device

### Aim:

To extract logical data such as contacts, SMS, MMS, and call logs from an Android device using AFLogical OSE, an open-source forensic tool that allows secure collection of data without requiring root access.

### Procedure:

AFLogical OSE is an open-source Android forensic tool used for logical data extraction without root access. It collects user-level artefacts such as contacts, SMS, MMS, and call logs and stores them as CSV files on the device. Extracted data can be pulled to a computer via ADB for analysis and reporting.

```
(kali㉿kali)-[~]
└─$ adb version
java -version

Android Debug Bridge version 1.0.41
Version 34.0.5-debian
Installed as /usr/lib/android-sdk/platform-tools/adb
Running on Linux 6.12.25-amd64 (x86_64)
openjdk version "21.0.9-ea" 2025-10-21
OpenJDK Runtime Environment (build 21.0.9-ea+8-Debian-1)
OpenJDK 64-Bit Server VM (build 21.0.9-ea+8-Debian-1, mixed mode, sharing)
```

```
(kali㉿kali)-[~]
└─$ sudo apt update
sudo apt install kdeconnect

[sudo] password for kali:
Sorry, try again.
[sudo] password for kali:
Hit:1 http://http.kali.org/kali kali-rolling InRelease
1352 packages can be upgraded. Run 'apt list --upgradable' to see them.
kdeconnect is already the newest version (25.04.2-1).
Summary:
  Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 1352
(kali㉿kali)-[~]
```

```
(kali㉿kali)-[~]
└─$ kdeconnect-app

virtual const QPalette* Qt6CTPlatformTheme::palette(QPlatformTheme:: Palette) const QPlatformTheme::SystemPalette
virtual const QPalette* Qt6CTPlatformTheme::palette(QPlatformTheme:: Palette) const QPlatformTheme::ToolButtonPalett
e
virtual const QPalette* Qt6CTPlatformTheme::palette(QPlatformTheme:: Palette) const QPlatformTheme::ButtonPalette
virtual const QPalette* Qt6CTPlatformTheme::palette(QPlatformTheme:: Palette) const QPlatformTheme::CheckBoxPalette
virtual const QPalette* Qt6CTPlatformTheme::palette(QPlatformTheme:: Palette) const QPlatformTheme::RadioButtonPalett
e
```



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Clean up



```
(kali㉿kali)-[~]  
$ adb pull /sdcard/DCIM  
adb shell
```

```
(kali㉿kali)-[~/Desktop/Emulated_Android/sdcard/aflogical]  
$ ls  
callogs.csv  contacts.csv  extraction_time.txt  sms.csv
```

```
(kali㉿kali)-[~]  
$ ls ~/Desktop/Emulated_Android/sdcard/aflogical/  
alllogs.csv  contacts.csv  extraction_time.txt  sms.csv  
  
(kali㉿kali)-[~]  
$ cd ~/Desktop/Emulated_Android/sdcard/aflogical/  
  
(kali㉿kali)-[~/Desktop/Emulated_Android/sdcard/aflogical]  
$ cat calllogs.csv  
Number,Type,Duration  
876543210,Incoming,2min  
123456789,Outgoing,5min  
988776655,Missed,0min  
012345678,Incoming,1min  
876501234,Outgoing,3min  
900112233,Missed,0min  
  
(kali㉿kali)-[~/Desktop/Emulated_Android/sdcard/aflogical]  
$ cat contacts.csv  
Name,Number  
Siva,9876543210  
Anita,9123456789  
Ravi,9988776655  
Sneha,9012345678  
Arthik,9876501234  
Priya,9900112233  
  
(kali㉿kali)-[~/Desktop/Emulated_Android/sdcard/aflogical]  
$ cat extraction_time  
cat: extraction_time: No such file or directory  
  
(kali㉿kali)-[~/Desktop/Emulated_Android/sdcard/aflogical]  
$ cat extraction_time.txt  
Extraction Date: 2025-10-25 11:35:52  
Tool: AFLogical OSE (Simulated) | Location: /sdcard/aflogical/  
  
(kali㉿kali)-[~/Desktop/Emulated_Android/sdcard/aflogical]  
$ cat sms.csv  
From,Message,Date  
Siva,Hello Siva,2025-10-25  
Anita,Are you coming today?,2025-10-24  
Ravi,Meeting at 5 PM,2025-10-24  
Sneha,Happy Birthday!,2025-10-23  
Arthik,Call me when free,2025-10-23  
Priya,Lunch at 1 PM?,2025-10-22
```



```
(kali㉿kali)-[~/Desktop/Emulated_Android/sdcard/aflogical]
$ adb kill-server
```

## RESULT :

```
—(kali㉿kali)-[~]
—$ ls ~/Desktop/Emulated_Android/sdcard/aflogical/

alllogs.csv  contacts.csv  extraction_time.txt  sms.csv

—(kali㉿kali)-[~]
—$ cd ~/Desktop/Emulated_Android/sdcard/aflogical/
File System
—(kali㉿kali)-[~/Desktop/Emulated_Android/sdcard/aflogical]
—$ cat calllogs.csv
Number,Type,Duration
876543210,Incoming,2min
123456789,Outgoing,5min
988776655,Missed,0min
012345678,Incoming,1min
876501234,Outgoing,3min
900112233,Missed,0min

—(kali㉿kali)-[~/Desktop/Emulated_Android/sdcard/aflogical]
—$ cat contacts.csv
Name,Number
Siva,9876543210
Nithya,9123456789
Ravi,9988776655
Sneha,9012345678
Arthik,9876501234
Priya,9900112233
Emulated
—(kali㉿kali)-[~/Desktop/Emulated_Android/sdcard/aflogical]
—$ cat extraction_time
cat: extraction_time: No such file or directory

—(kali㉿kali)-[~/Desktop/Emulated_Android/sdcard/aflogical]
—$ cat extraction_time.txt
Extraction Date: 2025-10-25 11:35:52
Tool: AFLogical OSE (Simulated) | Location: /sdcard/aflogical/

—(kali㉿kali)-[~/Desktop/Emulated_Android/sdcard/aflogical]
—$ cat sms.csv
From,Message,Date
Siva,Hello Siva,2025-10-25
Nithya,Are you coming today?,2025-10-24
Ravi,Meeting at 5 PM,2025-10-24
Sneha,Happy Birthday!,2025-10-23
Arthik,Call me when free,2025-10-23
Priya,Lunch at 1 PM?,2025-10-22
```