Lab 14: Mobile_App_Investigations_Messaging

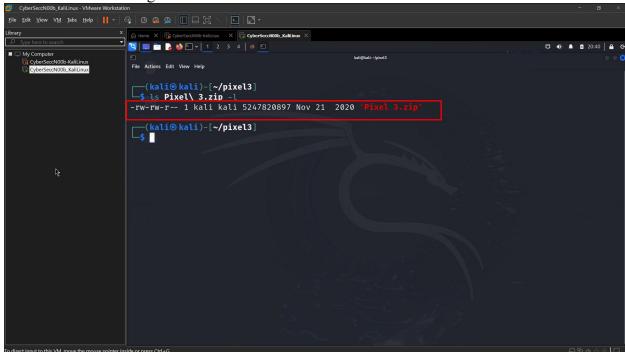
Group: CyberSec_N00b

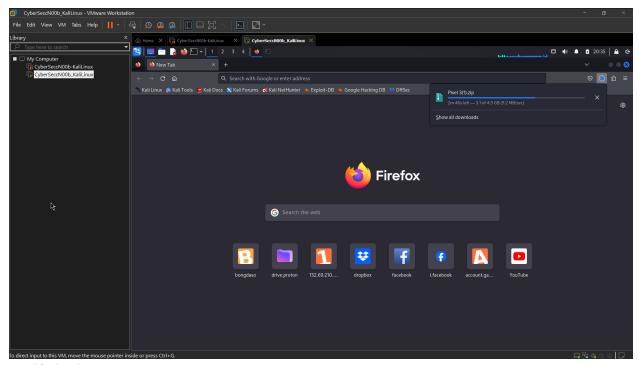
Member:

- Huỳnh Ngọc Quang (SE181838)
- Hồ Tài Liên Vy Kha (SE181818)
- Hoàng Kim Long (DE180860)
- Phạm Thành Long (SE181692)
- Nguyễn Lê Hoàng Thông (SE182533)

Step 1

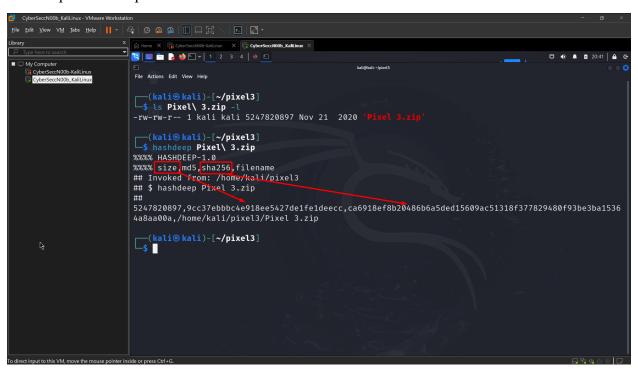
Download Pixel 3 image



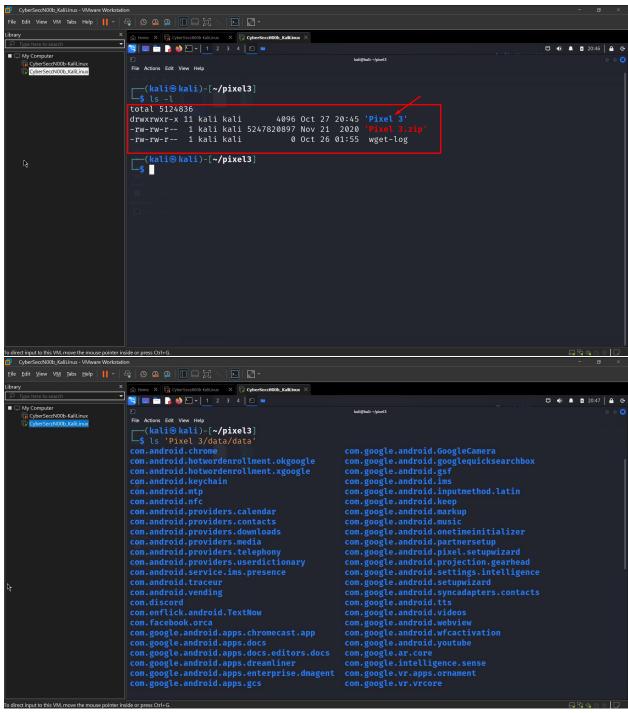


Verify hashes

hashdeep Pixel\ 3.zip

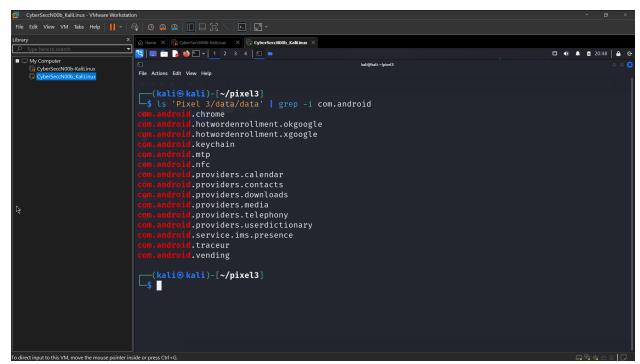


unzip to get Pixel 3 image

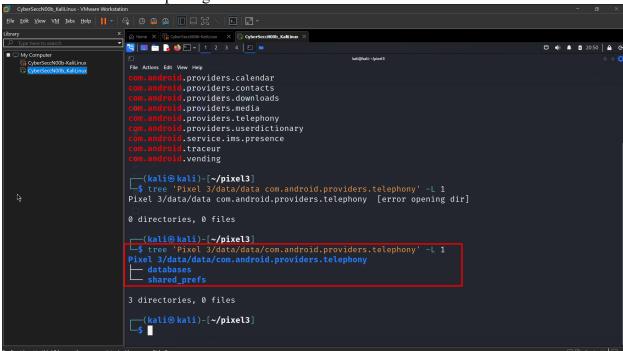


Step 2. Investigating Messaging Services

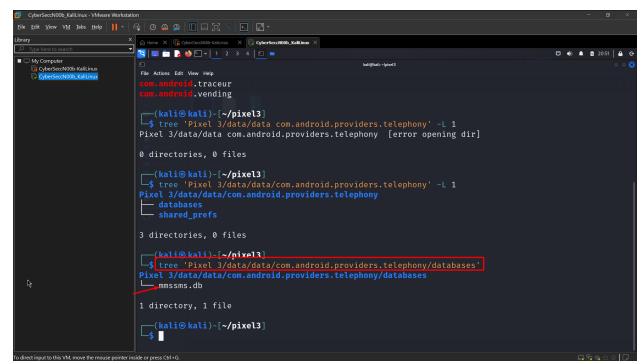
Show all AOSP Apps/Packages: com.andriod.*



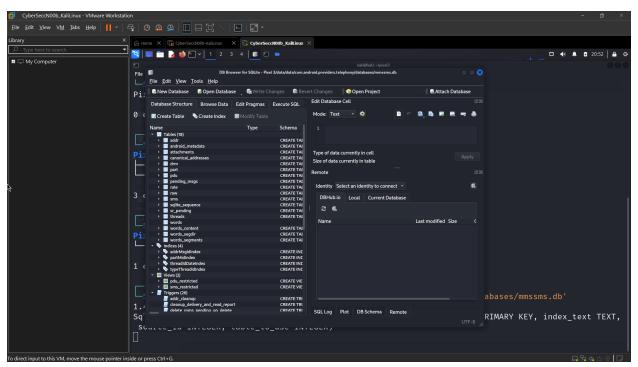
Find the location of Java package



Find the database location



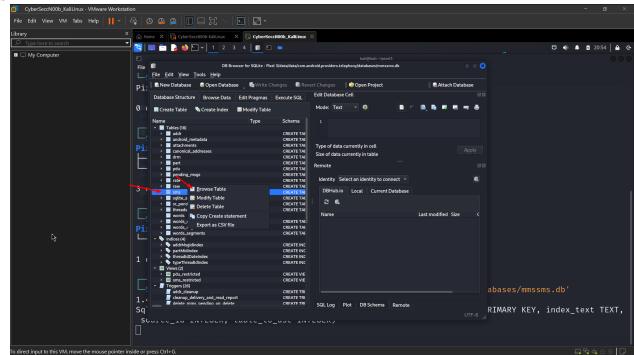
Show all tables in the database



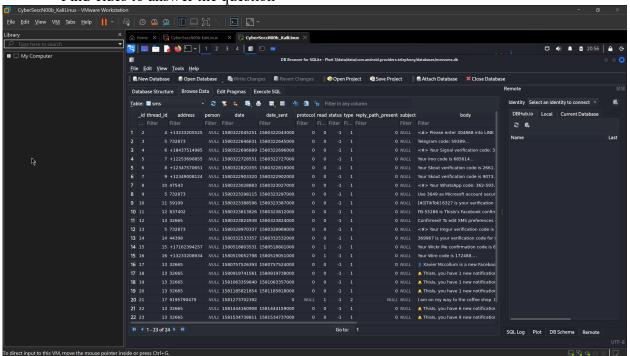
sms: message log

- Only system, phone or the default message app can have full access of sms data
- sms restricted:
 - Only contains sent or received messages.

- threads
 - Group all messages based on incoming phone numbers and time period?
- Exam *sms* table structure



Find clues to answer the question



Which message was received on Jan 29, 2020 around 6:20 pm?

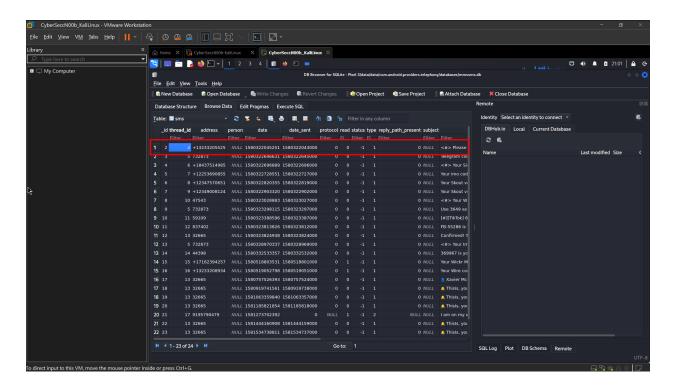


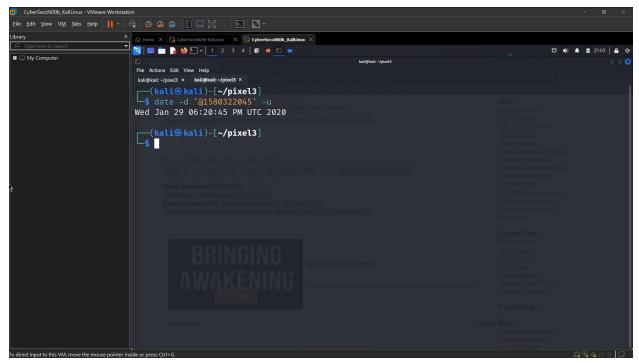
Epoch timestamp: 1580322000

Timestamp in milliseconds: 1580322000000

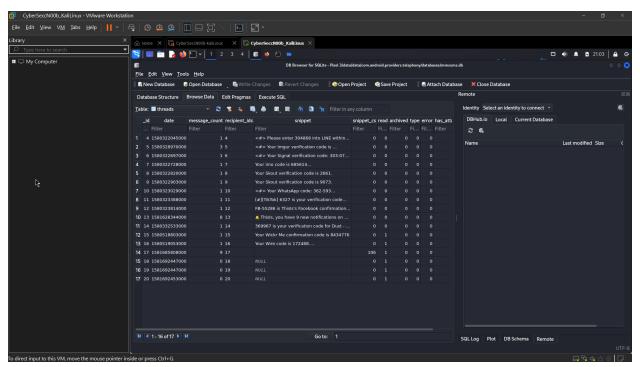
Date and time (GMT): Wednesday, January 29, 2020 6:20:00 PM

Date and time (your time zone): Wednesday, January 29, 2020 1:20:00 PM GMT-05:00



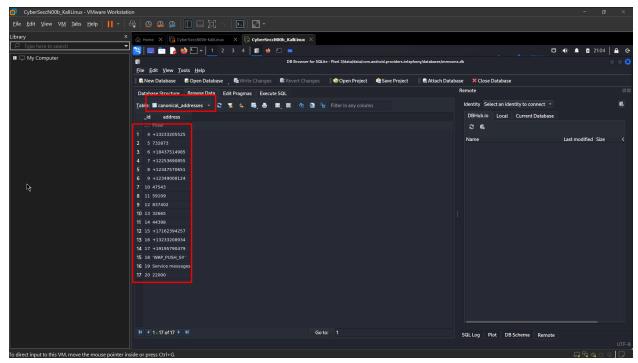


What table describes conversation?

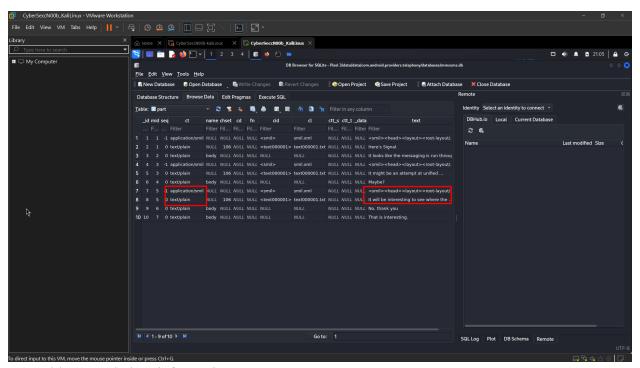


Where to find sender's phone number?

Exam canonical addresses table



Which table contains MMS information?



Part table stores below information:

- _id: Distinguish between different attachments of a multimedia message (including text, picture, audio, video and other formats)
- ct: indicates what type of attachment

- data: indicate where the attachment is stored on the phone
- **text:** Represents the body of the MMS.