sudo apt-get update

sudo apt-get upgrade

sudo apt install python3-pip

sudo apt-get -y install apksigner

mkdir MGL869\_Final

cd MGL869\_Final

git clone https://bitbucket.org/sense\_concordia/mobilelogreplication.git

git clone https://gitlab.com/fdroid/fdroidserver.git

export PATH="$PATH:/home/rac/MGL869\_Final/fdroidserver"

git clone https://gitlab.com/fdroid/fdroiddata.git

code ..

replace the content of fdroidserver/fdroidserver/readmeta.py with bin/fdroidserver\_readmeta's content. You can modify if needed.

Remove xref=True on line 49

cat > requirements.txt

androguard

clint

defusedxml

GitPython

paramiko

Pillow

apache-libcloud

pyasn1

pyasn1-modules

python-vagrant

PyYAML

qrcode

ruamel.yaml

requests

yamllint

pyjks

html5print

sphinx

numpydoc

pydata\_sphinx\_theme

pydocstyle

peewee

psycopg2-binary

Levenshtein

yagmail[all]

ctrl+d

pip install -r requirements.txt

cd fdroiddata

fdroid readmeta

cd

sudo sh -c 'echo "deb http://apt.postgresql.org/pub/repos/apt $(lsb\_release -cs)-pgdg main" > /etc/apt/sources.list.d/pgdg.list'

wget --quiet -O - https://www.postgresql.org/media/keys/ACCC4CF8.asc | sudo apt-key add –

sudo apt-get update

sudo apt-get -y install postgresql postgresql-contrib

wget <https://github.com/srcML/srcMLReleases/raw/main/srcml_1.0.0-1_ubuntu20.04.deb>

sudo dpkg -i srcml\_1.0.0-1\_ubuntu20.04.deb

sudo apt install cloc

sudo apt install pipenv

sudo service postgresql start

sudo vi /etc/postgresql/12/main/postgresql.conf

1. edit postgresql.conf;
2. uncomment **(sic!)** listen\_address line;
3. change it to listen\_address = '\*' for every available IP address or comma-separated list of addresses;

sudo service postgresql restart

sudo -u postgres psql

CREATE USER rac PASSWORD '030366' CREATEDB;

\q

psql -U rac -h 127.0.0.1 -d postgres

\q

sudo vi /etc/postgresql/12/main/pg\_hba.conf

# IPv4 and IPv6 removte connections:

host all all 0.0.0.0/0 scram-sha-256

host all all ::/0 scram-sha-256

Run macro to clean fdroid\_github.csv

copy fdroid\_github.csv to mobilelogreplication/RQ1/code/LogDetector/data

#NEW# Copy files from desktop to appropriate folders

* Generate [GitHub API access token](https://github.com/settings/tokens): ghp\_94p7oE13BFNyChr52AUsVzsxt5VQzq4WcxO9
* Copy logdetector/config-template.py to logdetector/config.py, change config.py with your own setting.

git config --global diff.renameLimit 999999

copy fdroid\_github.csv to mobilelogreplication/RQ1/code/LogDetector/data

replace fdroid.py with custom replace\_fdroid.docx

cd MGL869\_Final/mobilelogreplication/RQ1/code/LogDetector/bin

python3 fdroid.py

replace detect.py with custom replace\_detect.docx

python3 detect.py

\dt

Table

Description automatically generated

python3 getmetrics.py

psql -U rac -h 127.0.0.1 -d postgres -a -f get\_log\_updates.sql

python3 metrics.py

psql -U rac -h 127.0.0.1 -d postgres -a -f get\_added\_and\_deleted\_logs.sql