

Instructions for installation of postgres in Ubuntu:

1. Download postgres from here and place it into '**Downloads**':
<https://drive.google.com/file/d/1NjsWWobEwJV3G5supY8eTyVpsvOB7qgy/view?usp=sharing>
2. `cd ~/Downloads`
3. `tar -xvzf postgresql-8.4.22.tar.gz`
4. `sudo apt install clang`
5. `cd postgresql-8.4.22`
6. `./configure CC=/usr/bin/clang`
7. `make`
8. `sudo su`
9. `make install`
10. `adduser postgres`
11. `mkdir /usr/local/pgsql/data`
12. `chown postgres /usr/local/pgsql/data`
13. `sudo su - postgres`
14. `/usr/local/pgsql/bin/initdb -D /usr/local/pgsql/data`
15. `/usr/local/pgsql/bin/postgres -D /usr/local/pgsql/data >logfile 2>&1 &`
16. `/usr/local/pgsql/bin/createdb ass2`
17. `/usr/local/pgsql/bin/psql ass2` (**IMPORTANT command**)
18. `CREATE USER <ubuntu_username>;`
19. `ALTER ROLE <ubuntu_username> WITH superuser;`
20. `ALTER ROLE <ubuntu_username> WITH createdb;`
21. Now open a new terminal and close this one.
22. Make sure the following command works
23. `/usr/local/pgsql/bin/psql -U <ubuntu_username> ass2`

Instructions for Picasso on Ubuntu:

1. `sudo apt install openjdk-8-jdk`
2. Download this file and place it in the '**Downloads**' folder.
<https://drive.google.com/file/d/1oxcDihQHHxO6laREXnFPvWQNUIYzKCrv/view?usp=sharing>
3. `cd /usr/lib/jvm/java-8-openjdk-amd64/jre/`
4. `sudo sh ~/Downloads/java3d-1_4_0_01-linux-amd64.bin`

5. Download picasso from here and place it in the '**Downloads**' folder:
<https://drive.google.com/file/d/1FCuWhhDk-e9V0LKjlr-0zkE2ddrXy-M1/view?usp=sharing>
6. `cd ~/Downloads`
7. `tar -xvzf picasso2.1.tgz`
8. `sudo su`
9. `chmod 777 -R /home/<ubuntu_username>/`
10. `exit`
11. `cd picasso2.1/PicassoRun/Unix`
12. `sudo apt install dos2unix`
13. `dos2unix *.sh`
14. Now open another terminal in the same directory.
FOR TERMINAL 1 :-
15. `sudo su - postgres`
16. `/usr/local/pgsql/bin/pg_ctl start -D /usr/local/pgsql/data/`
17. `cd /home/<ubuntu_username>/Downloads/picasso2.1/PicassoRun/Unix`
18. `sh activatedb.sh`
19. `sh compileServer.sh`
20. `sh runServer.sh`
- FOR TERMINAL 2 :-
21. `cd /home/<ubuntu_username>/Downloads/picasso2.1/PicassoRun/Unix`
22. `sh compileClient.sh`
23. `sh runClient.sh`

Here picasso should start.