The compile of CqrlogAlpha with Ubuntu 22.04

Assume you have a clean Ubuntu that has not previously installed Cqrlog or FreePascal/Lazarus development programs.

1)

First we start by installing Freepascal/Lazarus packages. Open command terminal with your **normal user account**:

type command:
sudo apt-get install lazarus

There will be long list of installed packages (cutted here…)

There will be question Y/N (in finnish version it shows as [K/e]. Say Yes [Y] here.

Download and install will get a while. Depending your internet speed and your PC speed.

By default CqrlogAlpha will comple with GTK2 version graphics widgets.
If you are planning to compile Qt5 version of CqrlogAlpha you need to install the QT5 packages for Lazarus.
Type:
sudo apt-get install libqt5pas-dev

Say again Y

2)
Second it is time to get the CqrlogAlpha source from GitHub
Type:
sudo apt-get install git

```
saku@ubuntu-22:~$ sudo apt-get install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  git-man liberror-perl
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui gitk gitweb
  git-cvs git-mediawiki git-svn
The following NEW packages will be installed:
  git git-man liberror-perl
0 upgraded, 3 newly installed, 0 to remove and 140 not upgraded.
Need to get 4147 kB of archives.
After this operation, 21.0 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

Say again Y
Once done type:

git clone https://github.com/OH1KH/CqrlogAlpha.git

```
saku@ubuntu-22: ~/CqrlogAlpha

saku@ubuntu-22:~$ git clone https://github.com/OH1KH/CqrlogAlpha.git
Cloning into 'CqrlogAlpha'...
remote: Enumerating objects: 1357, done.
remote: Counting objects: 100% (142/142), done.
remote: Compressing objects: 100% (103/103), done.
remote: Total 1357 (delta 87), reused 82 (delta 39), pack-reused 1215 (from 1)
Receiving objects: 100% (1357/1357), 92.03 MiB | 1.73 MiB/s, done.
Resolving deltas: 100% (403/403), done.
```

Then change directory to Cqrlog alpha, type:

cd CqrlogAlpha

And type:

make

```
ies      Terminal                                              Mar 31

saku@ubuntu-22: ~/CqrlogAlpha

saku@ubuntu-22:~$ cd CqrlogAlpha
saku@ubuntu-22:~/CqrlogAlpha$ make
```

This will make GTK2 graphics version CqrlogAlpha

Once compile has finished (without errors) type:
sudo make install

```
Debug: Output file /home/saku/CqrlogAlpha/src/cqrlog.or written
Debug: Time e(9015) Linking /home/saku/CqrlogAlpha/src/cqrlog
(1008) 112509 lines compiled, 11.6 sec
(1021) 21 warning(s) issued
strip src/cqrlog
gzip tools/cqrlog.1 -c > tools/cqrlog.1.gz
saku@ubuntu-22:~/CqrlogAlpha$ sudo make install
```

Your CqrlogAlpha GTK2 is now installed.

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3)

If you are looking for the QT5 version graphics widgets you must replace the previously typed **make** with:
make cqrlog_qt5

```
saku@ubuntu-22: ~/CqrlogAlpha
saku@ubuntu-22:~/CqrlogAlpha$ make cqrlog_qt5
```

Once compile has finished (without errors) type:

sudo make install

```
Debug: Output file /home/saku/CqrlogAlpha/src/cqrlog.or written
Debug: Time e(9015) Linking /home/saku/CqrlogAlpha/src/cqrlog
(1008) 112509 lines compiled, 11.6 sec
(1021) 21 warning(s) issued
strip src/cqrlog
gzip tools/cqrlog.1 -c > tools/cqrlog.1.gz
saku@ubuntu-22:~/CqrlogAlpha$ sudo make install
```

Your CqrlogAlpha Qt5 is now installed.

When ever you find a new version of CqrlogAlpha source you can do upgrade as follows:
cd CqrlogAlpha
git pull
make (or make **cqrlog_qt5** instead if you want QT5 version)
sudo make install

```
saku@ubuntu-22: ~/CqrlogAlpha
saku@ubuntu-22:~$ cd CqrlogAlpha
saku@ubuntu-22:~/CqrlogAlpha$ git pull
Already up to date.
saku@ubuntu-22:~/CqrlogAlpha$
```

Note: you get "Already up to date" if there is no change in source version, otherwise changes are loaded and you can do
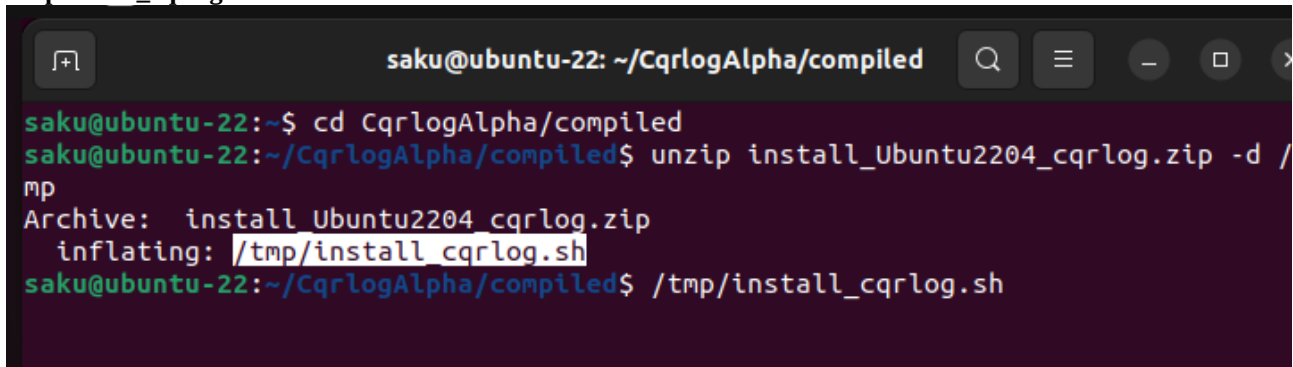**make** and **sudo make install** after that.

4)

If you have a clean Ubuntu (never had Cqrlog there before) and done the compile already you can not run CqrlogAlpha yet.
You need to install some dependency packages first.

When you cloned CqrlogAlpha source from GitHub you got also an Cqrlog install script with that.
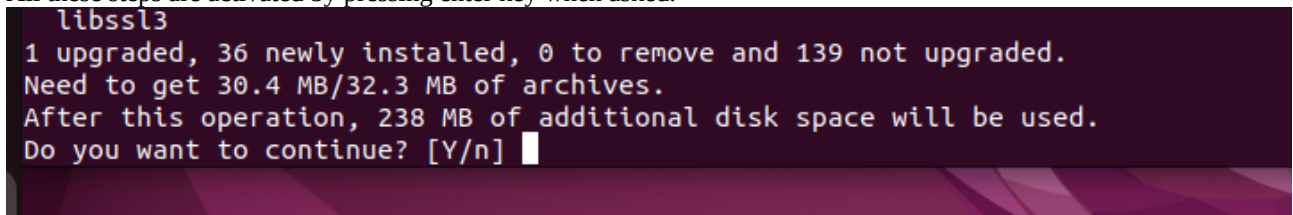We can now use that script **partially** like follows:

cd CqrlogAlpha/compiled
unzip install_Ubuntu2204_cqrlog.zip -d /tmp
/tmp/install_cqrlog.sh

There we change to CqrlogAlpha/compiled directory, unzip the install_Ubuntu2044_cqrlog.zip to folder /tmp and finally start that script.
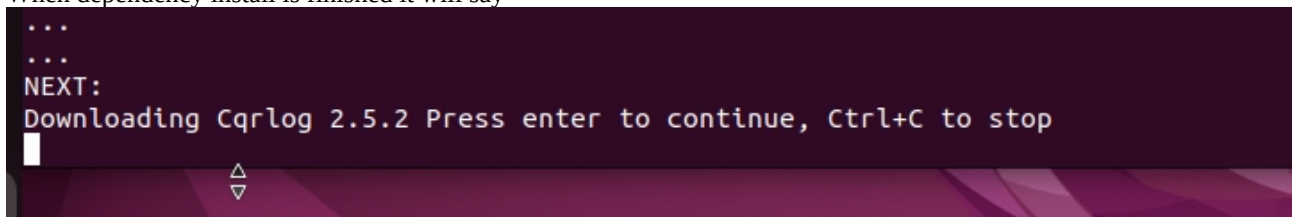
When script starts it will first do cleanup, ask your user password, and install dependencies.
All these steps are activated by pressing enter key when asked.

Dependency install needs to say **Y**

When dependency install is finished it will say

At that phase **press Ctrl C** keys to stop script as we have latest CqrlogAlpha already compiled and installed.
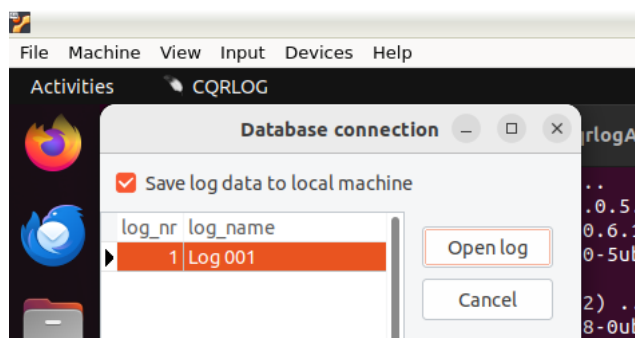
Then it is time to try to start CqrlogAlpha. From **applications** you will find **Cqrlog** icon. Click that.
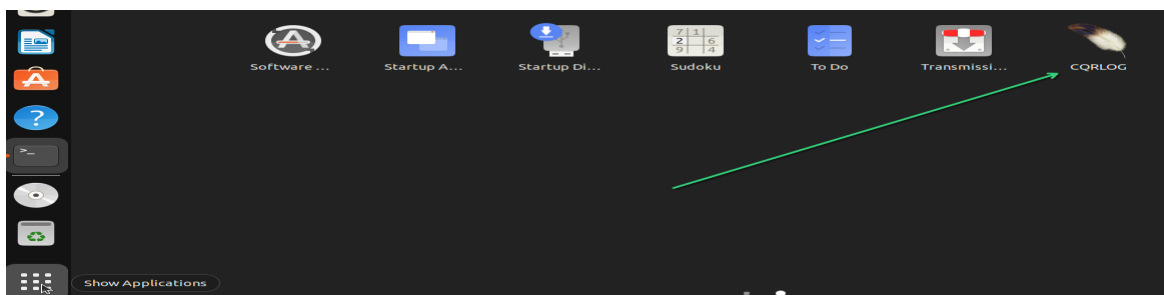
Your CqrlogAlpha will start
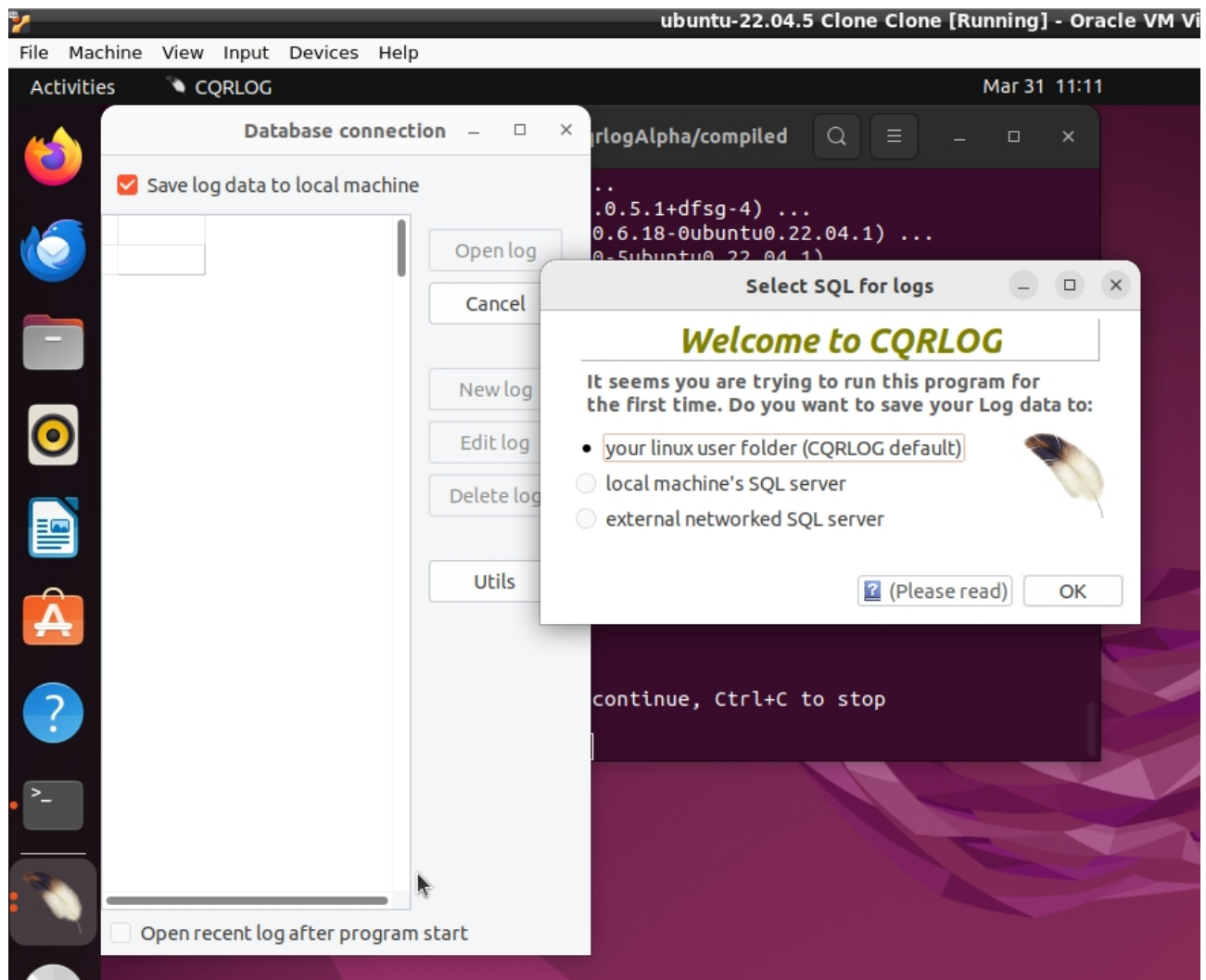
And after a while you can open your log 001

That's it……………...