

Installation of Revolution EDA on Ubuntu 20.04

In response to one user's query, the installation of **Revolution EDA** on Ubuntu 20.04 was explored. These are the steps to install **Revolution EDA** on that distribution.

1. We will be using *Podman* instead of usual *Docker*. To install Podman on Ubuntu 20.04, we need to install curl first, if not already installed:

```
1 | sudo apt install curl
```

2. Once curl is installed, then you need to add *Kubic project* repository to your system:

```
1 | source /etc/os-release
2 | echo "deb
  https://download.opensuse.org/repositories/devel:/kubic:/libcontainers:/stable/xUbuntu_${VERSION_ID}/ /" | sudo tee
  /etc/apt/sources.list.d/devel:kubic:libcontainers:stable.list
3 | curl -L
  "https://download.opensuse.org/repositories/devel:/kubic:/libcontainers:/stable/xUbuntu_${VERSION_ID}/Release.key" | sudo apt-key add
  -
```

3. Once the repository is added, install *Podman*.

```
1 | sudo apt update
2 | sudo apt -y install podman
```

4. To install *podman-compose*, make sure that pip is installed on your system:

```
1 | sudo apt install python3-pip
```

5. Now install podman-compose using pip:

```
1 | pip install podman-compose
```

6. If `git` is not installed, install `git`:

```
1 | sudo apt install git
```

7. Now clone *Revolution EDA* Github repository at an appropriate location in the file system:

```
git clone https://github.com/eskiyerli/revEDAsSetup.git
```

8. Change to `revEDAsSetup` directory and edit `docker-compose.yml` file so that it looks like this:

```
1 | version: "3"
2 | services:
3 |   reveda:
4 |     image: reveda/public:latest
5 |     environment:
6 |       # this line should be uncommented for a linux host
7 |       - DISPLAY=${DISPLAY}
8 |     volumes:
9 |       # next two lines should be uncommented when running on a linux
10 | machine.
11 |       - /tmp/.X11-unix:/tmp/.X11-unix
12 |       - /etc/machine-id:/etc/machine-id
13 |       - ./config:/home/caduser/config
14 |       - ./simulations:/home/caduser/simulations
15 |     network_mode: host
```

9. Because `simulations/` directory on the host is mounted on the container, it can not be written by the container by default permissions. To be able to write this directory, you need to make it universally writable (assuming that you have already changed to `revEDAsSetup` directory on the host:

```
1 | chmod -R a+rwX simulations/
```

10. If you think that you would change `glade_init.py` file in `config/` directory, you should change its permissions as well:

```
1 | chmod -R a+rwX config/
```

11. Change to `revEDAsSetup` directory if not already there in a terminal and run the following commands:

```
1 | xhost +  
2 | podman-compose up --abort-on-container-exit
```

12. You should now see *Revolution EDA* main window. Once done with it, close the window and issue the following command to make sure that container is closed:

```
1 | podman-compose down
```

5. Note that *Revolution EDA* has its own `terminal` and `text editor` menu entries under the `utilities` menu.