Installation of Revolution EDA on OpenSUSE Linux

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

We will be using *Podman* instead of usual *Docker*. To install Podman, we will follow the instructions at OpenSuse documentation site: https://documentation.suse.co m/sles/15-SP2/html/SLES-all/cha-podman-overview.html

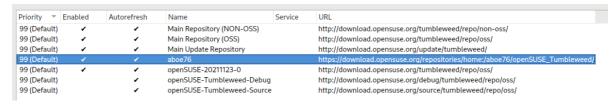
According to OpenSuse Documentation: Podman is a daemonless container engine for developing, managing, and running containers on a Linux System, and it offers a drop-in alternative for Docker.

1. The first step is installation of Podman on machine. You could use command line to install Podman:

```
1 | sudo zypper in podman
```

Alternatively, you could use YaST2 to install *Podman*. Make sure that *podman-cni-config*, and *podman-docker* packages are also installed.

2. To install *podman-compose*, we need to use a third-party repository. Start YaST Software repositories and add https://download.opensuse.org/repositories/home:/aboe76/openSUSE_Tumbleweed/ repository. This repo has *podman-compose* utility that should be installed.



The packages installed in this OpenSuse system are:

~	Package	Summary	Installed (Available)
\Box	podman	Daemon-less container engine for managing containers, pods and images	3.4.2-1.1
$\overline{\mathbf{A}}$	podman-cni-config	Basic CNI configuration for podman	3.4.2-1.1
~	podman-compose	A script to run docker-compose using podman	0.1.5-4.11
\checkmark	podman-docker	Emulate Docker CLI using podman	3.4.2-1.1
	cockpit-podman	Cockpit component for Podman containers	(33-1.2)

3. Once all the necessary software is installed, we need to make sure that Podman can run without needing root privilege:

Run the following command:

```
sudo usermod --add-subuids 200000-201000 --add-subgids
200000-201000 $USER
```

Preferably reboot your machine so that the changes are propagated.

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

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

5. Change to revEDAsetup directory and edit docker-compose.yml file so that it looks like this:

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

6. As a final setup step, edit /etc/containers.registries.conf file and remove registry.suse.com or at least place after docker.io in the configuration:

```
1 [registries.search]
2 registries = ["docker.io"]
```

7. 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 revellasetup directory on the host:

```
1 chmod -R a+rwx simulations/
```

8. Change to reverDasetup directory if not already there in a terminal and run the following commands:

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

9. 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
```

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