

# 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.com/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/](https://download.opensuse.org/repositories/home:/aboe76/openSUSE_Tumbleweed/) repository. This repo has *podman-compose* utility that should be installed.

Priority	Enabled	Autorefresh	Name	Service	URL
99 (Default)	✓	✓	Main Repository (NON-OSS)		http://download.opensuse.org/tumbleweed/repo/non-oss/
99 (Default)	✓	✓	Main Repository (OSS)		http://download.opensuse.org/tumbleweed/repo/oss/
99 (Default)	✓	✓	Main Update Repository		http://download.opensuse.org/update/tumbleweed/
99 (Default)	✓	✓	aboe76		https://download.opensuse.org/repositories/home:/aboe76/openSUSE_Tumbleweed/
99 (Default)	✓	✓	openSUSE-20211123-0		http://download.opensuse.org/tumbleweed/repo/oss/
99 (Default)		✓	openSUSE-Tumbleweed-Debug		http://download.opensuse.org/debug/tumbleweed/repo/oss/
99 (Default)		✓	openSUSE-Tumbleweed-Source		http://download.opensuse.org/source/tumbleweed/repo/oss/

The packages installed in this OpenSuse system are:

Package	Summary	Installed (Available)
<input checked="" type="checkbox"/> podman	Daemon-less container engine for managing containers, pods and images	3.4.2-1.1
<input checked="" type="checkbox"/> podman-cni-config	Basic CNI configuration for podman	3.4.2-1.1
<input checked="" type="checkbox"/> podman-compose	A script to run docker-compose using podman	0.1.5-4.11
<input checked="" type="checkbox"/> podman-docker	Emulate Docker CLI using podman	3.4.2-1.1
<input type="checkbox"/> 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/revEDAsSetup.git
```

5. 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
9      volumes:
10     # next two lines should be uncommented when running on a linux
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
```

6. As a final setup step, edit `/etc/containersregistries.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. 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
```

8. 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
```

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