

Install Rails in Docker Container

1. Install WSL <https://learn.microsoft.com/en-us/windows/wsl/install> (I have Already Installed)
2. Install Docker
 - a. `sudo apt-get update`
 - b. `sudo apt-get install \`
`ca-certificates \`
`curl \`
`gnupg \`
`lsb-release`
 - c. `sudo mkdir -m 0755 -p /etc/apt/keyrings`
 - d. `curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o`
`/etc/apt/keyrings/docker.gpg` — It downloads the docker repo from the curl
 - e. `echo \`
`"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg]`
`https://download.docker.com/linux/ubuntu \`
`$(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list >`
`/dev/null`
 - f. `sudo apt-get update` — to check everything is correctly installed
 - g. `sudo apt-get install docker-ce docker-ce-cli` containerd.io `docker-buildx-`
`plugin docker-compose-plugin` — It Installs docker cli and the required plugins
3. Start Docker service :
 - a. `sudo service docker start`
4. Need to set the current user as a super user for Docker :
 - a. `sudo usermod -aG docker $USER`
4. Check whether docker installed correctly
 - a. `docker run hello-world`

```
vasanthakumar@RFL636:~$ docker run hello-world +
Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

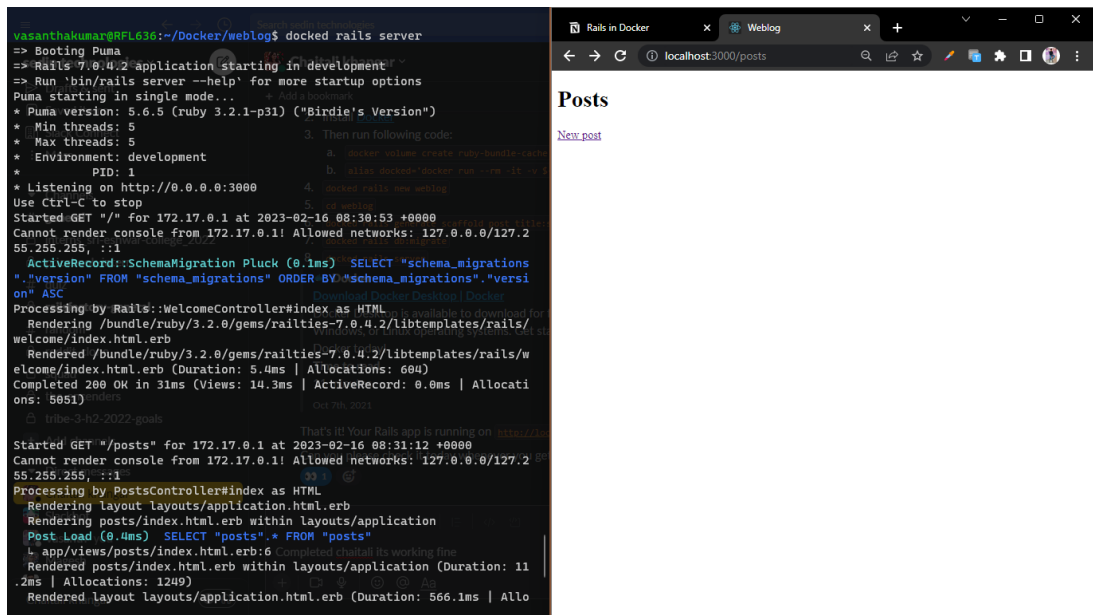
To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/installed

For more examples and ideas, visit: https://docs.docker.com/get-started/
```

5. Install Rails in Docker

- a. `docker volume create ruby-bundle-cache`
- b. `alias docked='docker run --rm -it -v ${PWD}:/rails -v ruby-bundle-cache:/bundle -p 3000:3000 ghcr.io/rails/cli '`
- c. `docked rails new weblog`
- d. `cd weblog`
- e. Now It might say `ruby-3.2.1` is required
- f. If you already have rvm then use `rvm install ruby-3.2.1`
- g. `docked rails generate scaffold post title:string body:text`
- h. `docked rails db:migrate`
- i. `docked rails server`
- j. After Server runs successfully go to <http://localhost:3000/posts>



Resolve Errors :

1. If this error occurs

```
E: Malformed entry 1 in list file /etc/apt/sources.list.d/docker.list(Component)
E: The list of sources could not be read.
```

remove docker.list by this command

```
sudo rm /etc/apt/sources.list.d/docker.list
```

then reinstall docker (from step 2)