# Docker Post-Installation Steps

# Manage Docker as a non-root user

If you don't want to preface the `docker` command with `sudo`, create a Unix group called `docker` and add users to it. When the Docker daemon starts, it creates a Unix socket accessible by members of the `docker` group. On some Linux distributions, the system automatically creates this group when installing Docker Engine using a package manager. In that case, there is no need for you to manually create the group.

## Check the group was not created

```
grep -E "docker" /etc/group
        docker:x:978:
```

## Create Docker Group

```
sudo groupadd docker
```

## Add User to Docker Group

```
sudo usermod -aG docker $USER
```

## Check Groups from a User

```
groups erick.quinteros
        erick.quinteros : erick.quinteros wheel vboxsf
```

# Configure Docker to start on boot

```
sudo systemctl enable docker.service
sudo systemctl enable containerd.service
```

# Log Rotation

By default, Docker captures the standard output (and standard error) of all your containers, and writes them in files using the JSON format. The JSON format annotates each line with its origin (`stdout` or `stderr`) and its timestamp. Each log file contains information about only one container.

```
{"log":"Log line is here\n","stream":"stdout","time":"2019-01-
01T11:11:11.111111111Z"}
```

# Where are Docker logs stored?

Log files are created for each container and are generally stored at:
`/var/lib/docker/containers/[container-id]/[container-id]-JSON.log`
To know your current logging driver for Docker Daemon, run the following command:

```
docker info --format '{{.LoggingDriver}}'
```

# Docker daemon logs

These logs are generated by the Docker daemon and located on the host. It provides insights into the state of the Docker platform.

# Docker container logs

Docker container logs cover all the logs related to a particular application running in a container.

# Enable Log Rotation

## Create File

```
sudo touch daemon.json
```

Add the following code to the **daemon.json** file after editing or creating it to rotate the log.

```
vim daemon.json
        {
          "log-driver": "local",
          "log-opts": {
            "max-size": "15m",
            "max-file": "5",
            }
        }
```

Save the file and restart docker.

```
systemctl restart docker
```