

# Instructions to setup local private docker registry

## Why do you need it ?

When you pull a base image from docker hub and add things to it or modify it, its called a custom docker image.

Private docker registry is a virtual docker hub in the localhost from where 3<sup>rd</sup> party applications can pull such custom images.

Thus, to allow the use of custom image, we need to push those images to a private docker registry.

## Steps :

### 1. Start your registry:

```
docker run -d -p 5000:5000 --restart=always --name registry
registry:2
```

### 2. Edit the /etc/docker/daemon.json file and add the following line to it :

```
"insecure-registries":["localhost:5000"]
```

Sample file cat output :

```
{
  "storage-driver": "devicemapper", "insecure-registries":["localhost:5000"]
}
```

You can now use it with docker.

Get any image from the hub and tag it to point to your registry:

```
docker pull ubuntu && docker tag ubuntu localhost:5000/ubuntu
```

... then push it to your registry:

```
docker push localhost:5000/ubuntu
```

... then pull it back from your registry (just to test the push)

```
docker pull localhost:5000/ubuntu
```