

How to setup docker registry server for your image

Jing, mqjing@gmail.com

Quick Guide for Ubuntu (< 5 mins)

Step 1: Edit docker file for Enabling insecure registry server

Command

vi /etc/default/docker

```
DOCKER_OPTS="--insecure-registry [YOUR-REGISTRY-SERVER]:5000"
```

Step 2: Restart docker service

Command

sudo service restart docker

Step 3: Pull and run the Registry Server

Command

```
docker run -d -p 5000:5000 --restart=always --name registry \
-v `pwd`/data:/var/lib/registry \
Registry:2
```

Usage

Push your image to the registry server

Command

docker commit [YOUR-CONTAINER] [Image-Name]

docker tag [YOUR-IMAGE] [REGISTRY-SERVER/YOUR-IMAGE-TAG-NAME]

docker push [REGISTRY-SERVER/YOUR-IMAGE-TAG-NAME]

Pull the image from the registry server

Command

docker pull [REGISTRY-SERVER/YOUR-IMAGE-TAG-NAME]

Detail in Ubuntu

Insecure Setup

Step 1: Point the insecure registry server

Command

vi /etc/default/docker

DOCKER_OPTS="--insecure-registry [YOUR-REGISTRY-SERVER]:5000"

ex:

vi /etc/default/docker

```
DOCKER_OPTS="--insecure-registry 192.168.0.184:5000"
```

Step 2: Restart the docker service

Command

sudo service **restart** docker

```
root@host-1:/home/vagrant# vi /etc/default/docker
root@host-1:/home/vagrant# sudo service docker restart
docker stop/waiting
docker start/running, process 12731
```

Step 3: Please do this configuration on every Engine host that wants to access your registry.

Start your Registry Server

Command

start registry server

```
docker run -d -p 5000:5000 --restart=always --name registry \
-v `pwd`/data:/var/lib/registry \
registry:2
```

```
jing@jing-Lenovo-G510s:~/test/registry$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
fda856f47c71	registry:2	"/bin/registry serve "	8 seconds ago	Up 6 seconds	0.0.0.0:5000

```
>5000/tcp registry
```

Push your Commit to the Registry Server

Step 1: Commit your container

Command

List your images

docker **images**

Commit

docker **commit** [YOUR-CONTAINER] [Image-Name]

Ex:

docker **commit** mon host-1-mon.container

Verify

Check your image

docker images

```
root@host-1:/home/vagrant# docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             VIRTUAL SIZE
host-1-osd1.container  latest             50275dcbbdce       2 hours ago        560.8 MB
host-1-mon.container  latest             c0d86daf8027       2 hours ago        560.8 MB
ceph/daemon          latest             e95c2f434dc1       11 days ago        560.8 MB
```

Step 2: tag your container

Command

docker **tag** [YOUR-IMAGE] [REGISTRY-SERVER/YOUR-IMAGE-TAG-NAME]

Ex:

docker **tag** host-1-mon.container 192.168.0.184:5000/host-1-mon.container

```
root@host-1:/home/vagrant# docker tag host-1-mon.container 192.168.0.184:5000/host-1-mon.container
root@host-1:/home/vagrant# docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             VIRTUAL SIZE
host-1-osd1.container  latest             50275dcbbdce       2 hours ago        560.8 MB
host-1-mon.container  latest             c0d86daf8027       2 hours ago        560.8 MB
192.168.0.184:5000/host-1-mon.container  latest             c0d86daf8027       2 hours ago        560.8 MB
ceph/daemon          latest             e95c2f434dc1       11 days ago        560.8 MB
```

Step 3: Push your Commit

Command

docker **push** [YOUR-IMAGE]

Ex:

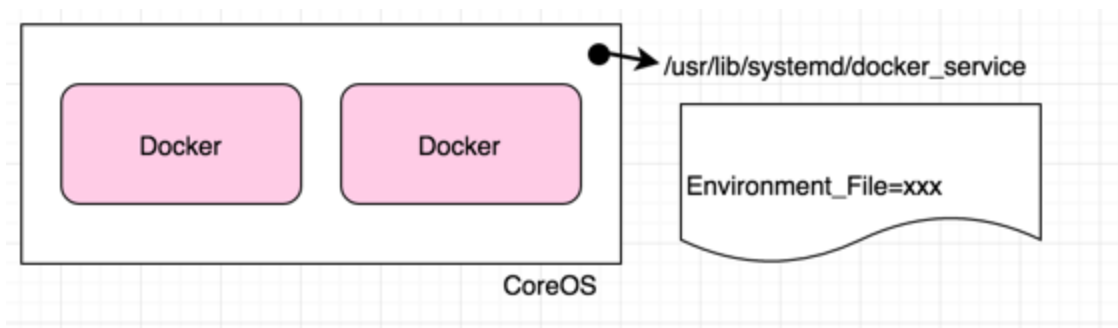
docker **push** 192.168.0.184:5000/host-1-mon.container

```
root@host-1:/home/vagrant# docker push 192.168.0.184:5000/host-1-mon.container
The push refers to a repository [192.168.0.184:5000/host-1-mon.container] (len: 1)
c0d86daf8027: Pushed
e95c2f434dc1: Pushed
ee97aa4051be: Pushed
8851ef7e089a: Pushed
7916436d9ecd: Pushed
```

References

- <https://docs.docker.com/registry/deploying/>
- <https://docs.docker.com/registry/insecure/>

Quick Guide for CoreOS



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