**Agenda: Docker Registry**

* Docker Hub
* Local / Private Registry

**Docker Hub**

Now you have a Docker image for a simple Hello World app. The image is the portable unit - you can push the image to Docker Cloud, and anyone can pull it and run your app for themselves.

Pushing images to Docker Cloud requires a [free Docker ID](https://cloud.docker.com/). Storing images on Docker Cloud is a great way to share applications, or to create build pipelines that move apps from development to production with Docker.

An individual image record has the following identifier:

**[REGISTRY\_HOST[:REGISTRY\_PORT]/]/[USERNAME]/REPOSITORY[:TAG]**

**Eg: docker.io/sandeepsoni/counterdemo:v1**

DCT is associated with the TAG portion of an image. An image repository can contain an image with one tag that is signed and another tag that is not.

**Visit:** [**https://hub.docker.com/**](https://hub.docker.com/) **and create an account or login with Google ID**

To push an image:

docker login

docker **tag** helloworld:v1 sandeepsoni/hello-world:linux

docker **image** **push** sandeepsoni/hello-world:linux

**Delete the Local image**

**docker rmi sandeepsoni/hello-world:linux**

On the VM execute the following command.

docker **pull** sandeepsoni/hello-world:linux

Now again run the following command to get the latest from docker hub

docker container run -d -p 80:80 sandeepsoni/hello-world:linux

Goto browser http://<IPofVM>

**Docker Private Registry (Local)**

The Registry is a stateless, highly scalable server-side application that stores and lets you distribute Docker images.

## Why use it

You should use the Registry if you want to:

* tightly control where your images are being stored
* fully own your images distribution pipeline
* integrate image storage and distribution tightly into your in-house development workflow

Users looking for a zero maintenance, ready-to-go solution are encouraged to head-over to the [Docker Hub](https://hub.docker.com/), which provides a free-to-use, hosted Registry, plus additional features (organization accounts, automated builds, and more).

Users looking for a commercially supported version of the Registry should look into <https://www.mirantis.com/software/mirantis-secure-registry/> .

**#Installs Local Registery**

$ docker run -d -p 5000:5000 --name registry **registry**:2

**~~In local machine edit the file Windows: C:\ProgramData\Docker\config\daemon.json / Mac:~~** ~~~/.docker/daemon.json~~

~~{"registry-mirrors":[],"insecure-registries":["<IpofUbuntuVM>:5000"], "debug":true, "experimental": true,"graph": "D:\\DockerStore"}~~

**Step4: In local machine execute following commands**

docker image tag mywebappdemo:dev registry:5000/mywebappdemo

docker push registry:5000/mywebappdemo

**To get the list of images in repository in lynx:**

curl <http://13.71.123.164:5000/v2/_catalog>

OR

**In Browser:**

<http://13.71.123.164:5000/v2/_catalog>