Contents

1 Docker Enterprise Edition setup

1.1 Get the Docker Repository URL for Enterprise

In order to install the Docker EE version, it's recommended to setup a Docker repository from which the Docker EE can be updated and installed.

- Go to `https://store.docker.com/my-content`.
- Each subscription or trial you have access to is listed. Click the Setup button for Docker Enterprise Edition for Linux.
- Copy the URL from the field labeled Copy and paste this URL to download your Edition.
- Export the Repository URL as a variable

  ```
  $ export DOCKERURL='<DOCKER-EE-URL>'
  ```

- Store your Docker EE repository URL in a yum variable in `/etc/yum/vars/`. This command relies on the variable you stored in the previous step.

  ```
  $ sudo -E sh -c 'echo "$DOCKERURL/rhel" > /etc/yum/vars/dockerurl'
  ```

- Store your OS version string in `/etc/yum/vars/dockerosversion`.

  ```
  $ sudo sh -c 'echo "7" > /etc/yum/vars/dockerosversion'
  ```

- Install the required packages with yum as below

  ```
  $ sudo yum install -y yum-utils \
  device-mapper-persistent-data \
  lvm2
  ```

- Enable the *extras* RHEL repository. This ensures access to the `container-selinux` package which is required by docker-ee

```
$ sudo yum-config-manager --enable rhel-7-server-extras-rpms
$ sudo yum -y install docker-ee
```

1.2 Docker Images and Containers from a Dockerfile

1.2.1 Create a Dockerfile

- Create a Dockerfile as below

```
FROM node
MAINTAINER sampath.singamsetty@united.com
RUN git clone -q https://github.com/docker-in-practice/todo.git
WORKDIR todo
RUN npm install > /dev/null
EXPOSE 8000
CMD ["npm","start"]
```

- Create a build using the below command

```
docker build .
...
...
Step 7/7 : CMD npm start
 ---> Running in c8bfd8c4d502
 ---> 6ea248b775f5
Removing intermediate container c8bfd8c4d502
Successfully built 6ea248b775f5
```

- tag the docker image based on the final output of the id

```
docker tag 6ea248b775f5 todoapp

# the images can be checked with
docker ps -a
```

- now spin a container with the required settings

```
docker run -p 8000:8000 --name example1 todoapp

# press Ctrl+C to exit
```

```
# do a diff
docker diff example1
```

- starting and stopping the docker container **example1**

```
docker start example1
```

```
docker stop example1
```