Docker installation and configuration

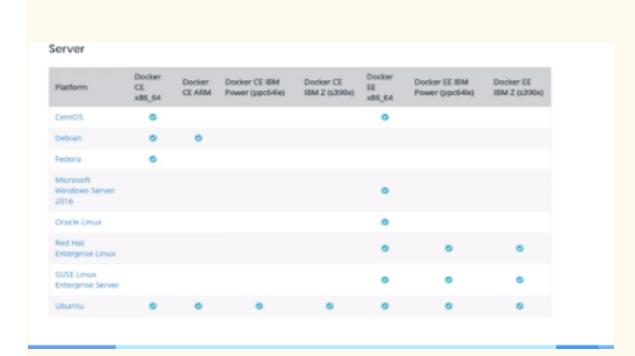
Here i am giving the example for docker installation and configuration in a Centos -7 system

Docker have 2 editions community edition and enterprise edition and docker CE has two update channels stable,edge

- stable will give you updates on every quarter
- edge will give you updates on every month

below are the details of the different server, cloud versions which supports CE and EE

Desktop Pattorn Docker CE x86_64 Docker CE ARM Docker EE Docker for Mac (macOS) 0 Docker for Windows (Microsoft Windows 10) Cloud Platform Docker CE x86_64 Docker CE ARM Docker EE Amazon Web Services Microsoft Azure IBM Cloud (Bela)



1. First login to the server Centos-7 and run "yum-check-update" command

```
froot@unixchips "lt yun check-update_
```

yum check-update

2. There is one installation script is available in the web called https://get.docker.com we are installing the docker using that script

```
Iroot@unixchips "l# curl -fsSL https://get.docker.com/ | sh
```

curl -fsSL https://get.docker.com | sh

2. Once the docker is installed we need to make it start and enable the service

```
[root@unixchips "]# systemctl start docker
[root@unixchips "]# systemctl enable docker
Created symlink from /etc/systemd/system/multi-user.target.wants/docker.service
to /usr/lib/systemd/system/docker.service.
(root@unixchips ")#
```

systemctl start docker # systemctl enable docker

systemctl status docker

4. Now we need to give the permission to the local user (here raushan) to run docker commands

```
(root@unixchips "l# sudo usermod -aG docker unixchips
```

sudo usermod -aG docker raushan

5. Once you given the permission we can able to run the command without any sudo permission

```
tunixchips@unixchips ~1$ docker images
REPOSITORY TAG IMAGE ID CREATED
SIZE
tunixchips@unixchips ~1$ _
```

docker images

6. The best way to check the status of the docker installation is to run the below command

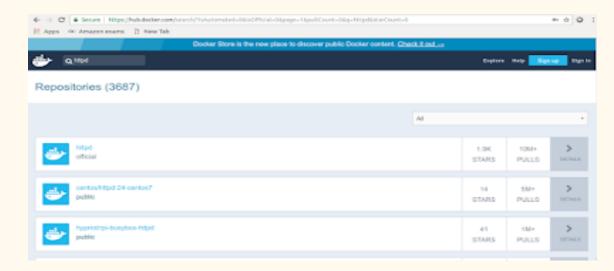
"docker run hello-world" and the expected out is given below

7. Let's search the httpd image through the docker



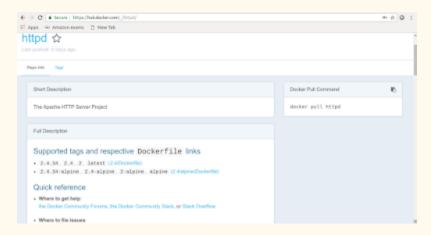
docker search httpd

Also if we need to check the image details we will get it from https://hub.docker.com



8. Now we can pull the httpd image to the docker

If we click on the httpd official project we can see the latest one is apache 2.4.29



let's pull the image through docker command

docker pull httpd:2.2.29

```
[uninchips@eninchips =]$ docker pull httpd:2.2.29
2.2.29: Pelitag from library/httpd
dd284e46c4: Pelit complete
alcd81ceb62: Pelit complete
716654557265: Pelit complete
72613516667: Pelit complete
87213516667: Pelit complete
8722655727451: Pelit complete
87226516572743: Pelit complete
872265165727745976666727726566732774597686673886661646
8722657271: pelit complete
8722
```

9. Now if we check the docker mages we can see the downloaded http image

```
[unixchips@unixchips ~]$ docker images

REPOSITORY TAG IMAGE ID CREATED SIZE
hello-world latest 2cb0d9787c4d 4 weeks ago 1.85k8
httpd 2.2.29 78ef8a7db81a 3 years ago 153HB
[unixchips@unixchips ~]$
```

docker images

10 .If we need to remove one image we have to use the below command

```
[unixchips@unixchips =]$ docker rml hello-world -f
Unitagged: hello-world:latest
Unitagged: hello-worldgshaz56:4b8ff39za1zed9ea17784bd3c9a8b1fa3z99cac44aca35a85c90c5e3c7afacdc
Deleted: sha256:2cb0d9787c4dd17ef9eb03e51z9z3bc4db10add190d3f84af63b744e353a9b34
[unixchips@unixchips =]$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
httpd 2.2.29 78ef8a7db81a 3 years ago 153MB
```

docker rmi hello-world -f