

# LAB 7: Installing and Configuring Docker

## 1. Installing Docker

```
yum install docker -y
```

## 2. Docker basic commands

```
//To check the docker version
```

```
docker --version
```

```
//To check the status of the service
```

```
service docker status
```

```
//To start the docker service
```

```
service docker start
```

```
//To enable the service
```

```
chkconfig docker on
```

```
//To see images present in your local machine
```

```
docker images
```

```
//To search images from online docker registry
```

```
docker search centos
```

```
docker search jenkins
```

```
//Download image from online docker registry to your machine
```

```
docker pull centos
```

```
docker pull jenkins
```

```
//To see only running containers
```

```
docker ps
```

```
//To see all containers
```

```
docker ps -a
```

**//To create a container**

```
docker run -i -t ubuntu /bin/bash
```

```
docker run -i -t centos /bin/bash
```

**//run commands inside the container**

```
hostname
```

```
cat /etc/os-release
```

**//to exit from container**

```
exit
```

**//To rename a container**

```
docker rename <old_name> <new_name>
```

```
docker ps -a
```

**// Create container by giving container name**

```
docker run --name Cnt-1 -it centos /bin/bash
```

**//To start container**

```
docker start Cnt-1
```

```
docker ps
```

**//To go inside container**

```
docker attach Cnt-1
```

**//run commands inside the container**

```
touch /tmp/myfile
```

```
exit
```

**//To see the changes**

```
docker diff Cnt-1
```

**//To stop container**

```
docker stop Cnt-1
```

**//To create image from container**

```
docker commit Cnt-1
```

```
docker images
```

**//To give name to your image**

```
docker tag <image-ID> Cnt-1-img  
docker images
```

**//To give name of image while creating it**

```
docker commit Cnt-1 <image-name>
```

**//Create container from our image**

```
docker run --name Cnt-2 -it Cnt-1-img /bin/bash
```

**//run the command inside container**

```
ls /tmp
```

**//To delete a container**

```
docker rm Cnt-1
```

**//To stop all containers**

```
docker stop $(docker ps -a -q)
```

**//To delete all stopped containers**

```
docker rm $(docker ps -a -q)
```

**//To delete all images**

```
docker rmi -f $(docker images -q)
```