Creating the Container by using Service

- 1. Create the Image.
 - 2. Tag the Image.
- 3. Push the Image to Docker Hub.
 - 4. Create the Node.
 - 5. Create the service.
- 1.Create Image: To create images we should have a Docker file. {vi Docker file. <" D must be in Caps">}

Example: inside the docker file.

```
FROM ubuntu

RUN apt update -y

RUN apt install nginx -y

COPY index.html /var/www/html

EXPOSE 80

CMD ["nginx", "-g", "daemon off;"]

~
```

Save and exit.

Now create the file as shown above index.html.

Now create the image {docker build -t image1 space (.)} (Here is image1: image name you to create.)

Before creating the tag first, we have to create the repository in Docker Hub.

2. Tag the Image: To create the tag we must use command called {docker tag image1 username/repository name}.

(Here repository name: name of the repository in docker hub).

Here you will get the tag of the image in the form of username/repository name.

Before pushing you must log the docker hub {docker login}

Username: your docker username.

Password: your docker password

3. Push the Image to Docker Hub: By using the tag we are pushing the image to Docker hub.

Docker push username/repository name {docker push username/repository name}

```
[root@ip-172-31-26-39 ~]# docker push praveenkumar8/task]
Jsing default tag: latest
The push refers to repository [docker.io/praveenkumar8/task]
L7ees86e79dc7: Mounted from praveenkumar8/docker
66e52937e2b4: Mounted from praveenkumar8/docker
66e6ed2d93: Mounted from praveenkumar8/docker
7123a71e85e: Mounted from praveenkumar8/docker
Latest: digest: sha256:7a281ec2169bf0769d6a6120b0e923405ed655b63e7790b674f9f44694b834cb size: 1159
[root@ip-172-31-26-39 ~]#
```

4. Create the Node: To create Node we have the use the command called {docker swarm init}.

Now the Node is created.

5. Create the service: By using the Node the Service will be created.

To create the service {docker service create --name (container name) -- publish 8000:80 httpd}

Along with the service Container also creates as shown below.

```
root@ip-172-31-26-39 ~]# docker ps
CONTAINER ID
              IMAGE
                                                       CREATED
                              "httpd-foreground"
                                                                        Up 11 minutes
                                                                                                                                 book-my-show.1.9cglvf98oy81c
                                                       11 minutes ago
t92cieu7pq9
43a1b53a49b0
                              "/docker-entrypoint..."
                                                                        Up 8 hours
                                                                                                                                 my_webapp2
                              "/docker-entrypoint..."
                                                       9 hours ago
                                                                         Up 8 hours
                                                                                                                                 my_webapp1
 root@ip-172-31-26-39 ~]#
```