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.

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}

```
Login Succeeded

[root8ip-172-31-26-39 ~] # docker push praveenkumar8/lion

Jaing default tag: latest

The push refers to repository [docker.io/praveenkumar8/lion]

Tf738blbl085: Pushed

38e7elaeee94: Pushed

56ee6eed2439: Mounted from praveenkumar8/task

Zf123a7le85e: Mounted from praveenkumar8/task

Zf123a7le85e: Mounted from praveenkumar8/task

[root8ip-172-31-26-39 ~] # ■
```

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

```
[root@ip-172-31-26-39 ~]# docker swarm init
Swarm initialized: current node (mktfvlr7tz13rp5dbd226qq39) is now a manager.
To add a worker to this swarm, run the following command:
docker swarm join --token SWMTKN-1-2qo8opp0728keidsc35hh7m8n7f19uvoo9xniy9dmskjkae4xw-e9ufbc19fd3419nv384f14mni 172.31.26.39:2377
To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.
```

Now the Node is created.

```
[root@ip-172-31-26-39 ~] # docker node ls

ID HOSTNAME STATUS AVAILABILITY MANAGER STATUS ENGINE VERSION
mktfvlr7tz13rp5dbd226qq39 * ip-172-31-26-39.ap-southeast-1.compute.internal Ready Active Leader 25.0.6

[root@ip-172-31-26-39 ~] #
```

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

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

Along with the service Container also creates as shown below.



Final output is shown below.

