Docker replica

It is managing Multiple instances of service. Replica is a part of docker swarm cluster.

1. Lunch the two instances is manager and worker.
2. Connect the two instances in linx . **Sudo su -**
3. Install docker **yum install docker –y**
4. **systemctl start docker**
5. **systemctl status docker**
6. **hostnamectl hostname manager**
7. Intialize the manager **hostname manager**
8. Install docker swarm **docker swarm init**
9. Copy the token in manager insitance , paste the worker1 and worker2 edit inbound rule add the alltraic.
10. Show in below image

```
root@ip-172-31-7-131 ~]# hostnamectl hotname manager
nknown command verb hotname.
root@ip-172-31-7-131 ~]# hostnamectl hostname manager
root@ip-172-31-7-131 ~]#

  docker swarm join --token SWMTKN-1-21d20ezstmaaqbexey6vxavq3n9ja34sox4qfsodf3a0y6bsz6-arou4u1kd9ao7u9bd7eus5801 172.31.3.84:2377
his node joined a swarm as a worker.
root@ip-172-31-7-131 ~]#
```

11. i-01e3928ad6d7031fd (worker 1)
12. Create the service **docker service create —name zomato —replicas 3 –publish 80:80 httpd**
13. **Docker ps** check the manager and worker server

```
6feec8f2989   httpd:latest   "httpd-foreground"   About a minute ago   Up About a minute   80/tcp    zomato.1.twin6qxrks7
root@manager ~]# docker ps
ONTAINER ID   IMAGE          COMMAND              CREATED         STATUS         PORTS     NAMES
6feec8f2989   httpd:latest   "httpd-foreground"   2 minutes ago   Up 2 minutes   80/tcp    zomato.1.twin6qxrks7vbtucuj4ga
root@manager ~]#
```

14. i-0b7d2bab99a2f82cb (manager)
15.

```
  docker swarm join --token SWMTKN-1-21d20ezstmaaqbexey6vxavq3n9ja34sox4qfsodf3a0y6bsz6-arou4u1kd9ao7
is node joined a swarm as a worker.
oot@ip-172-31-7-131 ~]# docker ps
NTAINER ID   IMAGE          COMMAND              CREATED         STATUS         PORTS     NAMES
a5eb777182   httpd:latest   "httpd-foreground"   2 minutes ago   Up 2 minutes   80/tcp    zomato.2.7z
oot@ip-172-31-7-131 ~]#
```

i-01e3928ad6d7031fd (worker 1)

```
root@ip-172-31-6-156 ~]# docker ps
CONTAINER ID   IMAGE          COMMAND              CREATED              STATUS              PORTS     NAMES
5932ea60345c   httpd:latest   "httpd-foreground"   About a minute ago   Up About a minute   80/tcp    zomato.3.rd5xjrekoe7k9xc1hu
[root@ip-172-31-6-156 ~]#
```

16. i-054dc71edaed159b1 (worker2)

17. See the docker service list **docker service ls**

```
root@manager ~]# docker service ls
D             NAME      MODE         REPLICAS   IMAGE          PORTS
4cermbruez2   swiggy    replicated   4/4        httpd:latest   *:81->80/tcp
1kn2aymnevp   zomato    replicated   3/3        httpd:latest   *:80->80/tcp
root@manager ~]#
```

18. Tack the any public give the 80-port number Brouse the Goole, it working are not
19. Crete the file **vi dockerfile** (worker2) and manager

```
FROM ubuntu
RUN apt update -y
RUN apt install apache2 -y
COPY index.html /var/www/html
CMD ["/usr/sbin/apachectl", "-D", "FOREGROUND"]
```

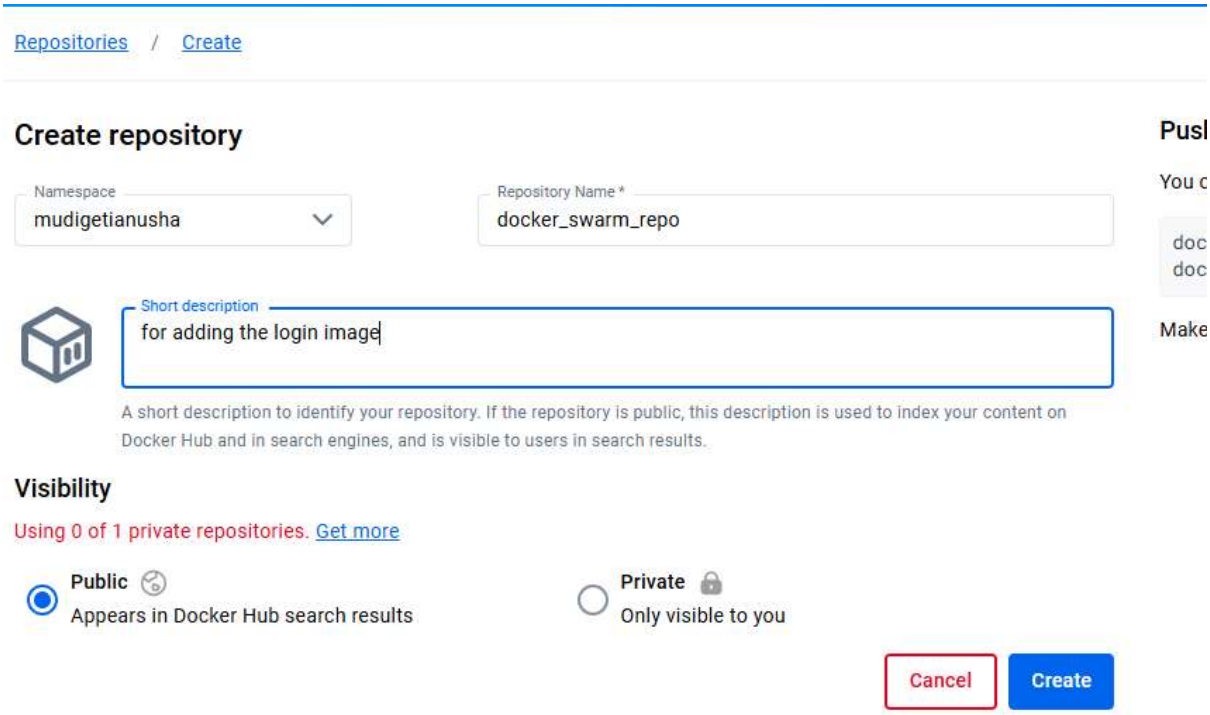
20.
21. Adding index file,go to goole serch the html page login,copy the code and past the index.html.
22. Build docker file **docker build –t image . (manager)**
23. Create the service **docker service create --name ram --replicas 3 --publish 84:80 image**
24. **Docker ps**
25. Copy the public ip and check it working are not.
26. Next push the image docker hub **,docker images**
27. Next we push the docker hub, **docker login**

```
Log in with your Docker ID or email address to push and pull images from Docker Hub. If you don't have a Docker ID, head over to
er.com/ to create one.
You can log in with your password or a Personal Access Token (PAT). Using a limited-scope PAT grants better security and is requi
tions using SSO. Learn more at https://docs.docker.com/go/access-tokens/

Username: Anusha
Password:
Error response from daemon: Get "https://registry-1.docker.io/v2/": unauthorized: incorrect username or password
[root@manager ~]#
```

28.

29. Create the repository



30. docker tag image mudigetianusha/docker_swarm_repo

```
[root@manager ~]# docker tag image mudigetianusha/docker_swarm_repo
[root@manager ~]# docker images
REPOSITORY                          TAG       IMAGE ID       CREATED             SIZE
image                               latest    3014297f91ca   About an hour ago   227MB
mudigetianusha/docker_swarm_repo    latest    3014297f91ca   About an hour ago   227MB
httpd                               <none>    1bcf11fa154f   3 months ago        148MB
[root@manager ~]#
```

31. i-0b7d2bab99a2f82cb (manager)

32. Docker push mudigetianusha/docker_swarm_repo

33. **Docker ps** access

34. Copy pulic ip adress and give the port number, hit

35. Docker stop container id

36. One contaier is going down its is automatically run the another application.