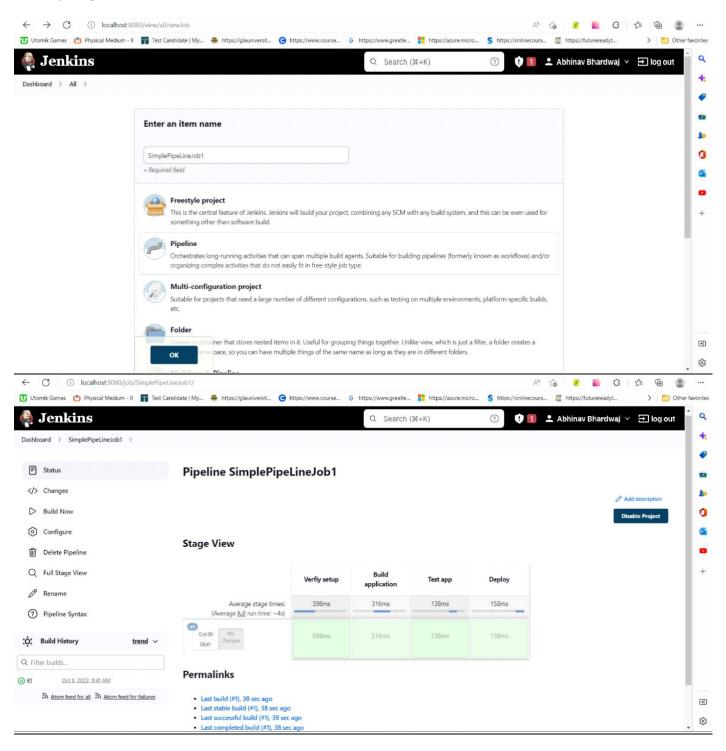
Setting Up Jenkins Pipeline to Deploy Docker Swarm

Creating a Pipeline in Jenkins:-



```
| Second Prompt | Pro
```

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Name
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docker (master)
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 .git
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lockerfile dist/ package-lock.json tsconfig.app.json
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Command Prompt
                                                                                                                                                                                                                                                                                                                                п
                                                                    8dee897d8326 8 weeks ago 5.54MB
9c6f07244728 8 weeks ago 5.54MB
   \Users\as954>docker run -d -p 80:80 my-angular123
a48fe7e48c6f23874ae71fba283cfbe4997d5e0246a9de577db24bb2f5e071
   NAMES
beautiful_visvesvaraya
   \Users\as954>docker run -d -p 81:80 my-angular123
b566629f001578bb9d6891cf55f0772558bfdf81e806c0548b0ec0ac8d0da4
   \Users\as954>docker run -d -p 83:80 my-angular123
0836fd182d90ca3213cc032751004655f3d842b376c95b19e3628d9f853dda
  \Users\as954\docker ps
NNTAINER ID IMMGE
9836fd182d my-angular123
bb666629f00 my-angular123
ddc314a045a my-angular123:latest
748f67e488; my-angular123
bbdebe670fb jenkins/jenkins:lts-jdk11
                                                                                                          CREATED
8 minutes ago
8 minutes ago
11 minutes ago
17 minutes ago
10 hours ago
                                                                                                                                     STATUS
Up 8 minutes
Up 8 minutes
Up 11 minutes
Up 16 minutes
Up 9 hours
                                                                                                                                                              PORTS

0.0.0.0:83->80/tcp

0.0.0.0:31->80/tcp

80/tcp

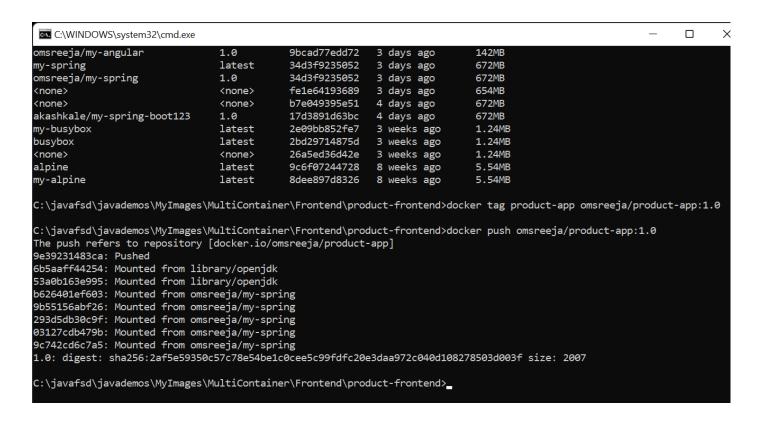
0.0.0.0:80->80/tcp

0.0.0.0:800->8080/tcp,

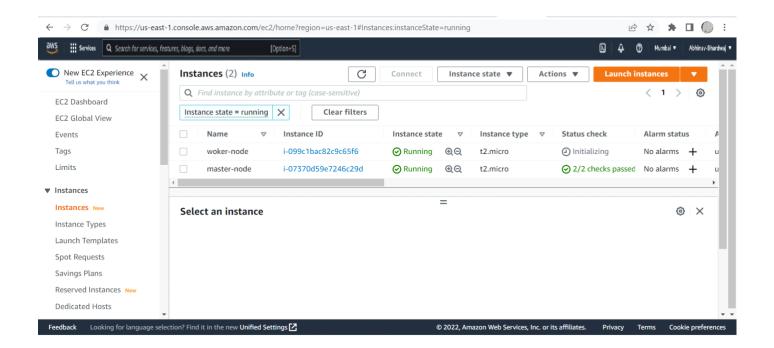
0.0.0.0:8000->8080/tcp,
                                                                                                                                                                                                                                                NAMES
sleepy_fermat
priceless_shannon
heuristic_colden
beautiful_visvesvaraya
   \Users\as954>docker stop ee0836fd182d
0836fd182d
   \Users\as954>docker stop 66b566629f00
b566629f00
   \Users\as954>docker stop 23dc314a0d5a
   \Users\as954>docker stop 87a48fe7e48c
   \USers\as954>docker ps
NTATNER ID IMAGE
COMMAND
CREATED STATUS PORTS
NAMES
bdebe670fb jenkins/jenkins:lts-jdk11 "/usr/bin/tini -- /u_" 10 hours ago Up 9 hours 0.0.0.0:8080->8080/tcp, 0.0.0.0:50000->50000/tcp keen_banzai
   \Users\as954>
```

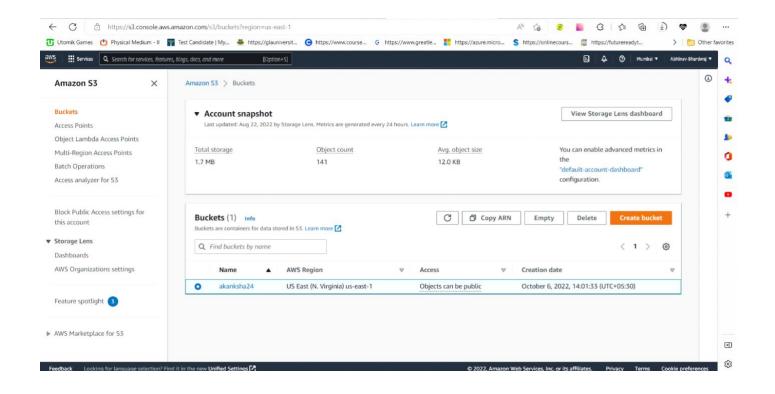


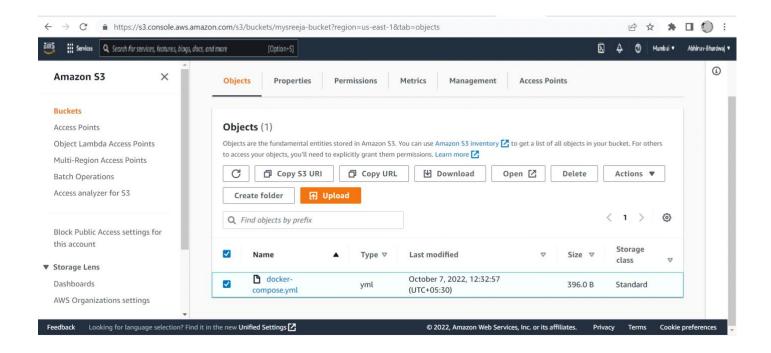
Pushing images to the docker



```
×
 C:\WINDOWS\system32\cmd.exe
                                                                                                                  2bd29714875d
                                                          3 weeks ago
                                                                           1.24MB
busybox
                               latest
                                                          3 weeks ago
                                                                           1.24MB
                                           2e09bb852fe7
                              latest
my-busybox
my-alpine
                               latest
                                           8dee897d8326
                                                          8 weeks ago
                                                                           5.54MB
                                           9c6f07244728
                                                          8 weeks ago
                                                                           5.54MB
alpine
                              latest
C:\javafsd\javademos\MyImages\MultiContainer\Frontend\product-frontend>docker tag product-frontend-app omsreeja/product-
frontend-app:1.0
C:\javafsd\javademos\MyImages\MultiContainer\Frontend\product-frontend>docker push omsreeja/product-frontend-app:1.0
The push refers to repository [docker.io/omsreeja/product-frontend-app]
047347f44df9: Pushed
d6a3537fc36a: Mounted from library/nginx
819eb3a45632: Mounted from library/nginx
5eda6fa69be4: Mounted from library/nginx
6f4f3ce1dca0: Mounted from library/nginx
58a06a0d345c: Mounted from library/nginx
fe7b1e9bf792: Mounted from library/nginx
1.0: digest: sha256:8775ba2a9d912e87caad1869cf6e13d6ffb0cf780e38027b1d8e8f5d185de527 size: 1779
C:\javafsd\javademos\MyImages\MultiContainer\Frontend\product-frontend>docker images
REPOSITORY
                                 TAG
                                             IMAGE ID
                                                            CREATED
                                                                              SIZE
product-frontend-app
                                 latest
                                             a42b574e5e54
                                                            40 minutes ago
                                                                              142MB
omsreeja/product-frontend-app
                                             a42b574e5e54
                                                                              142MB
                                 1.0
                                                            40 minutes ago
                                             d1562e4daf4c
                                                            49 minutes ago
                                                                              544MB
product-app
                                 latest
                                             3728f8fc7302
                                                            44 hours ago
jenkins/jenkins
                                 lts-jdk11
                                                                              463MB
my-angular
                                 latest
                                             9bcad77edd72
                                                            3 days ago
                                                                              142MB
omsreeja/my-angular
                                 1.0
                                             9bcad77edd72
                                                            3 days ago
                                                                              142MB
                                             34d3f9235052
my-spring
                                 latest
                                                            3 days ago
                                                                              672MB
```





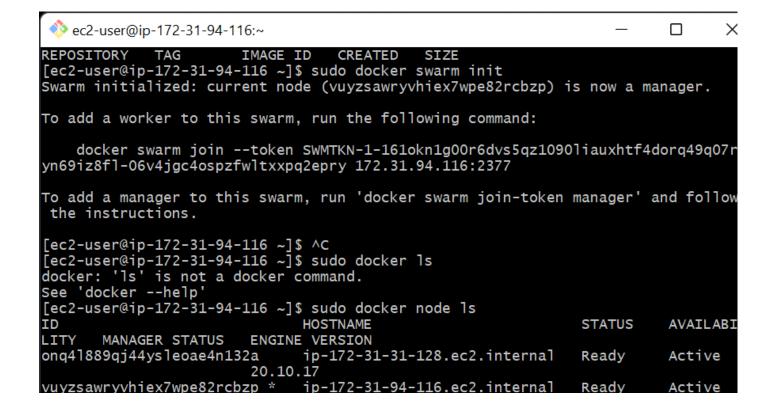


\$ ssh -i "worker-keys.pem" ec2-user@ec2-54-144-51-103.compute-1.amazonaws.com

Last login: Fri Oct 7 07:19:52 2022 from 157.47.28.152

🥸 ec2-user@ip-172-31-31-128:~ X Amazon Linux 2 AMI https://aws.amazon.com/amazon-linux-2/ [ec2-user@ip-172-31-31-128 ~]\$ sudo yum install docker Loaded plugins: extras_suggestions, langpacks, priorities, update-motd amzn2-core 3.7 kB 00:00 Resolving Dependencies --> Running transaction check ---> Package docker.x86_64 0:20.10.17-1.amzn2 will be installed --> Processing Dependency: runc >= 1.0.0 for package: docker-20.10.17-1.amzn2.x8 6_64 --> Processing Dependency: libcgroup >= 0.40.rc1-5.15 for package: docker-20.10. 17-1.amzn2.x86_64 --> Processing Dependency: containerd >= 1.3.2 for package: docker-20.10.17-1.am zn2.x86 64 --> Processing Dependency: pigz for package: docker-20.10.17-1.amzn2.x86_64 --> Running transaction check ---> Package containerd.x86_64 0:1.6.6-1.amzn2 will be installed ---> Package libcgroup.x86_64 0:0.41-21.amzn2 will be installed --> Package pigz.x86 64 0:2.3.4-1.amzn2.0.1 will be installed

```
 ec2-user@ip-172-31-31-128:~
                                                                         X
  Installing : docker-20.10.17-1.amzn2.x86_64
                                                                             5/5
                                                                             1/5
  Verifying
             : docker-20.10.17-1.amzn2.x86_64
  Verifying
            : runc-1.1.3-1.amzn2.x86_64
  Verifying
             : pigz-2.3.4-1.amzn2.0.1.x86_64
            : containerd-1.6.6-1.amzn2.x86_64
  Verifying
  Verifying
             : libcgroup-0.41-21.amzn2.x86_64
Installed:
  docker.x86_64 0:20.10.17-1.amzn2
Dependency Installed:
  containerd.x86_64 0:1.6.6-1.amzn2
                                           libcgroup.x86_64 0:0.41-21.amzn2
  pigz.x86_64 0:2.3.4-1.amzn2.0.1
                                           runc.x86_64 0:1.1.3-1.amzn2
Complete!
[ec2-user@ip-172-31-31-128 ~]$ sudo dervice docker start
sudo: dervice: command not found
[ec2-user@ip-172-31-31-128 ~]$ sudo service docker start
Redirecting to /bin/systemctl start docker.service
[ec2-user@ip-172-31-31-128 ~]$ sudo docker swarm join --token SWMTKN-1-161okn1g0
0r6dvs5qz1090liauxhtf4dorq49q07ryn69iz8fl-06v4jgc4ospzfwltxxpq2epry 172.31.94.11
6:2377
```



Code in Angular Project :-

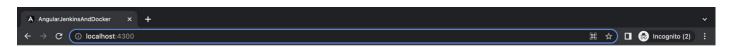
index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8" />
<tittle>AngularJenkinsAndDocker</title>
<base href="/" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
link rel="icon" type="image/x-icon" href="favicon.ico" />
</head>
<body>
<app-root></app-root>
</body>
</html>
```

app.component.html

```
<div>
<h2>
This page is created in Angular to show working of deployment using jenkins pipelining and Docker.
</h2>
</div>
```

Webpage



This page is created in Angular to show working of deployment using jenkins pipelining and Docker.

.