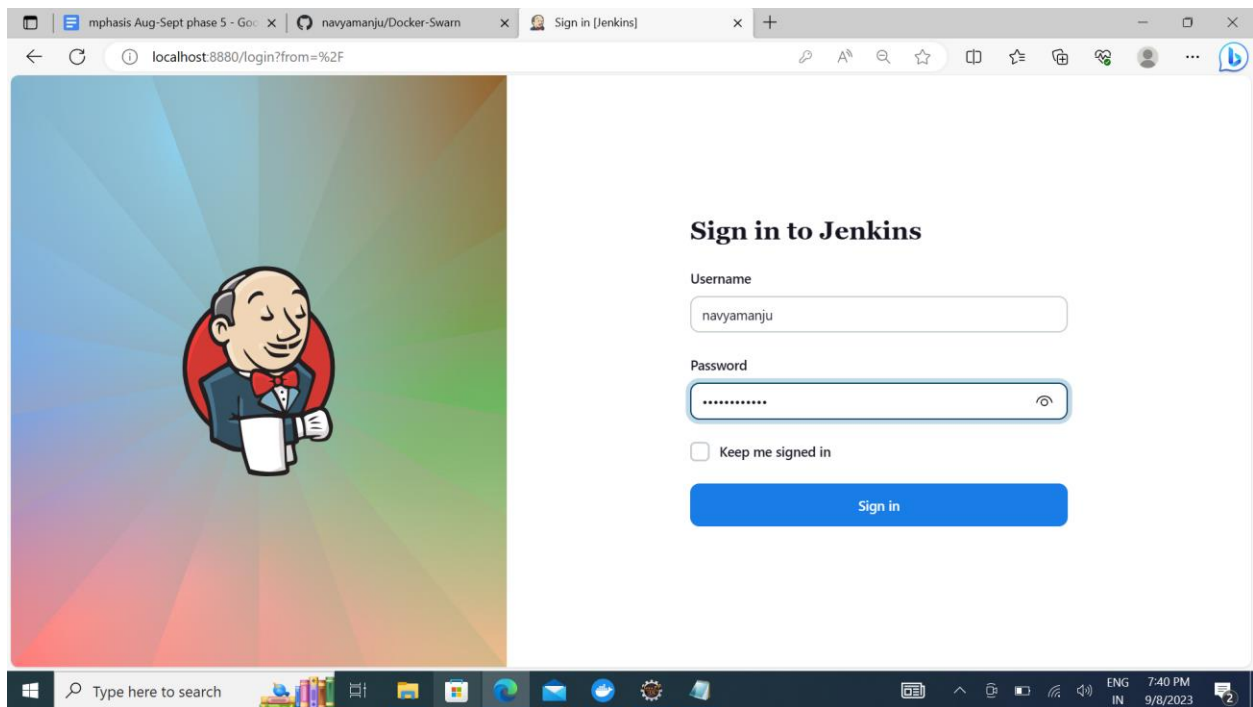
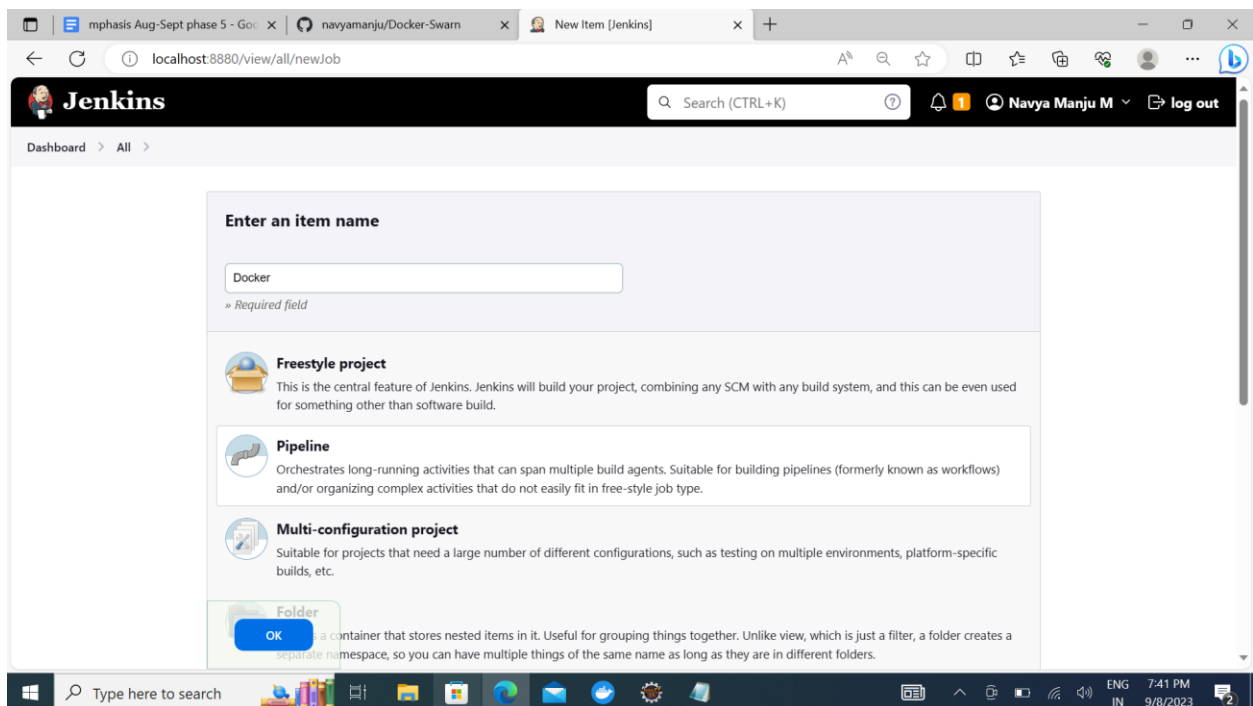


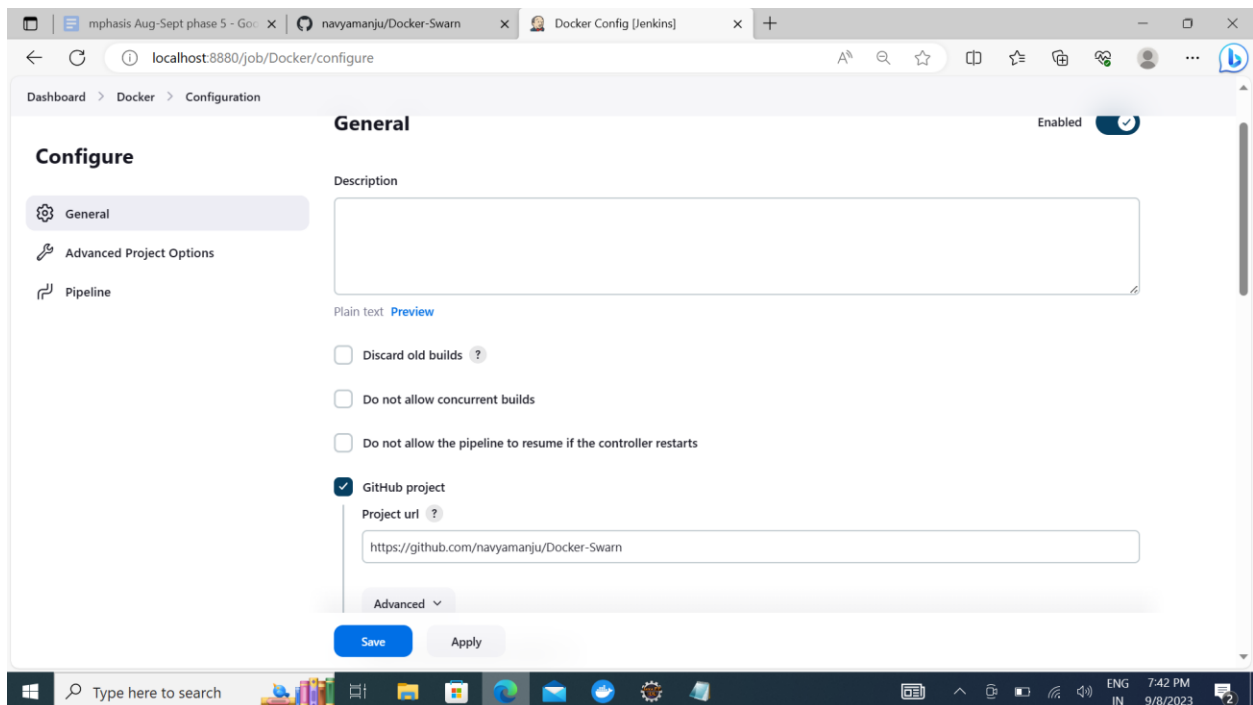
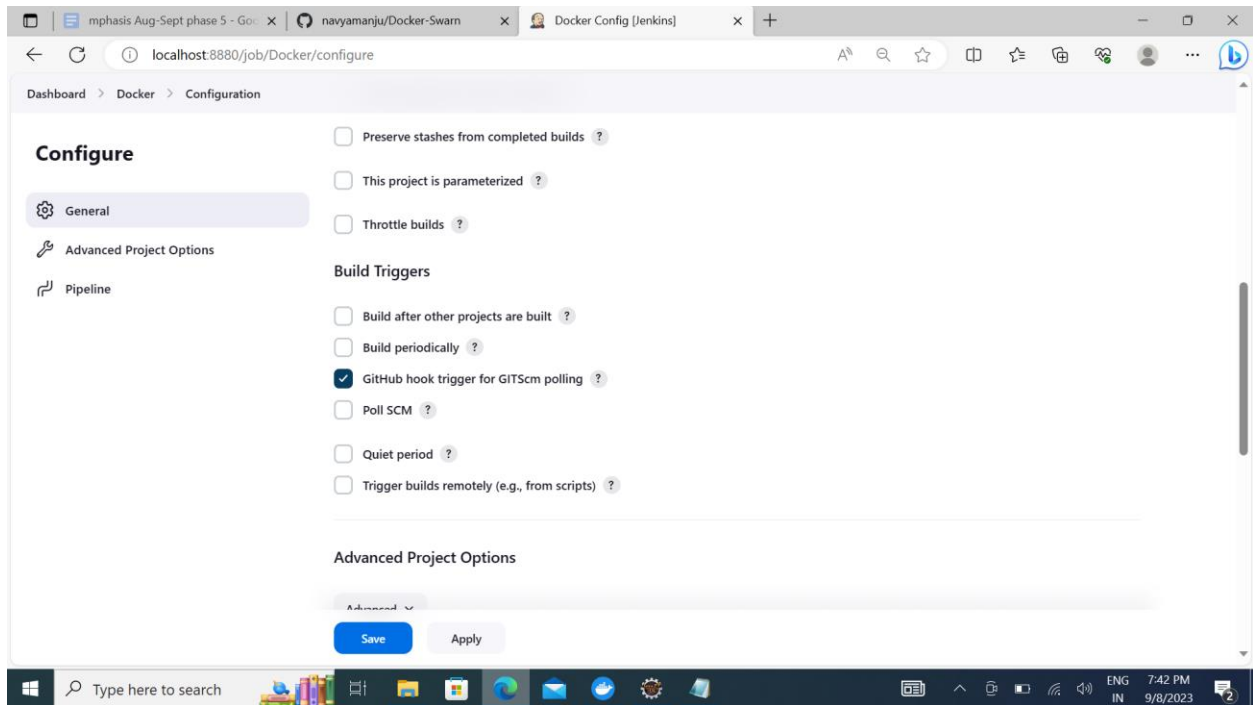
## 1.Login to Jenkins using credentials.



## 2.create pipeline by giving name



### 3.configure the pipeline by giving the github credentials and generate pipeline script



#### 4. In Pipeline syntax generate script by giving the github credentials

The screenshot shows the 'Pipeline Syntax' interface in a web browser. The left sidebar contains links: 'Global Variables Reference', 'Online Documentation', 'Examples Reference', and 'IntelliJ IDEA GDSDL'. The main area is titled 'Sample Step' and shows a 'checkout: Check out from version control' step. The 'SCM' is set to 'Git'. Under 'Repositories', a 'Repository URL' is entered as 'https://github.com/navyamanju/Docker-Swarm.git' and 'Credentials' are set to 'navyamanju/\*\*\*\*\*'. An 'Add' button and an 'Advanced' dropdown are also visible.

The screenshot shows the 'Pipeline Syntax' interface with the 'Generate Pipeline Script' button highlighted. Below the button, the generated script is displayed in a text area:

```
checkout scmGit{branches: [[name: */master]], extensions: [], userRemoteConfigs: [[credentialsId: 'add3a6cc-aec7-4e37-a947-62384fd54448', url: https://github.com/navyamanju/Docker-Swarm.git]]}
```

The interface also shows a 'Repository browser' set to '(Auto)' and checkboxes for 'Include in polling?' and 'Include in changelog?' both checked.

## 5. Generate script by giving the docker password

The screenshot shows the Pipeline Syntax web interface in a browser. The URL is `localhost:8880/job/Docker/pipeline-syntax/`. The interface has a sidebar with links: [Global Variables Reference](#), [Online Documentation](#), [Examples Reference](#), and [IntelliJ IDEA GDSDL](#). The main content area is titled **Sample Step** and shows a dropdown menu with the selected option `withCredentials: Bind credentials to variables`.

Below the dropdown, there is a section for **withCredentials** with a help icon. It contains a text box explaining that secret values are masked. Under the **Bindings** section, there is a **Secret text** box. Inside this box, there is a **Variable** field with the value `dockerpaskey` and a **Credentials** dropdown menu with the value `dockerpassword1`. There are **Add** buttons below the variable and credentials fields.

At the bottom of the **Secret text** box, there is a **Generate Pipeline Script** button. Below this button, there is a text area containing the generated script snippet:

```
withCredentials([string(credentialsId: 'dockerpassword1', variable: 'dockerpaskey')]) {  
    // some block  
}
```

Below the script area, there is a **Global Variables** section with a text box explaining that many features of the Pipeline are not steps and are often exposed via global variables.

navyamanju/Docker-Swar... Docker Config [Jenkins] Pipeline Syntax: Snippet G... Live Classes Mphasis | Testing in A Dev x +

localhost:8880/job/Docker/configure

Dashboard > Docker > Configuration

### Configure

- General
- Advanced Project Options
- Pipeline

Pipeline script

Script ?

```
1 pipeline{
2   agent any
3   tools{
4     maven 'maven'
5   }
6   stages{
7     stage('build maven war file'){
8       steps{
9         checkout scmGit(branches: [[name: '**/master']], extensions: [], userRemoteConfigs: [[credentialsId: 'add3a6cc-aec
10        bat 'mvn clean install'
11      }
12    }
13    stage('build docker image'){
14      steps{
15        script{
16          bat 'docker build -t navyamanju/awsdemo .'
17        }
18      }
19    }
20  }
21 }
```

try sample Pipeline...

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save Apply

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## 6. Successfully build the docker image

navyamanju/Docker-Swar... Docker [Jenkins] Pipeline Syntax: Snippet G... Live Classes Mphasis | Testing in A Dev x +

localhost:8880/job/Docker/

Dashboard > Docker >

- Changes
- Build Now
- Configure
- Delete Pipeline
- Full Stage View
- GitHub
- Rename
- Pipeline Syntax
- GitHub Hook Log

Add description

Disable Project

### Stage View

Average stage times:  
(Average full run time: ~4min 14s)

	Declarative: Tool Install	build maven war file	build docker image	push the docker image to docker hub
#1 Sep 08 20:38 No Changes	1s	2min 54s	28s	43s

### Build History

trend

Filter builds...

#1 Sep 8, 2023, 8:38 PM

Atom feed for all Atom feed for failures

### Permalinks

navyamanju/Docker-Swar... Docker #1 Console [Jenki Pipeline Syntax: Snippet G Live Classes Mphasis | Testing in A Dev

localhost:8880/job/Docker/1/console

Dashboard > Docker > #1

```
#> Uptime: 3.03s

#4 [1/2] FROM docker.io/library/openjdk:8@sha256:86e863cc57215cfb181bd319736d0baf625fe8f150577f9eb58bd937f5452cb8
#4 CACHED

#6 [2/2] ADD target/Springproduct-0.0.1-SNAPSHOT.war Springproduct-0.0.1-SNAPSHOT.war
#6 DONE 1.4s

#7 exporting to image
#7 exporting layers
#7 exporting layers 1.4s done
#7 writing image sha256:d92be9d2563fed6a36999c69e1b75bdc6031b46e8d7bdbda95b4ed54f9380035
#7 writing image sha256:d92be9d2563fed6a36999c69e1b75bdc6031b46e8d7bdbda95b4ed54f9380035 0.2s done
#7 naming to docker.io/navyamanju/awstdemo
#7 naming to docker.io/navyamanju/awstdemo 0.6s done
#7 DONE 2.1s

What's Next?
View summary of image vulnerabilities and recommendations at docker scout quickview
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (push the docker image to docker hub)
[Pipeline] tool
[Pipeline] envVarsForTool
```

9C742cd6c7a5: Waiting  
53a0b163e995: Mounted from navyamanju/eea78943f5c2  
6b5aaff44254: Mounted from navyamanju/eea78943f5c2  
b626401ef603: Mounted from navyamanju/eea78943f5c2  
9b55156abf26: Mounted from navyamanju/eea78943f5c2  
03127cdb479b: Mounted from navyamanju/eea78943f5c2  
293d5db30c9f: Mounted from navyamanju/eea78943f5c2  
9C742cd6c7a5: Mounted from navyamanju/eea78943f5c2  
0e568c1c5bf5: Pushed  
latest: digest: sha256:f19ebd2beb63312772b7e81903d8ce1461a581fd90aaa7041a93e7d0b7e39e03 size: 2007  
[Pipeline] }  
[Pipeline] // script  
[Pipeline] }  
[Pipeline] // withEnv  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] }  
[Pipeline] // withEnv  
[Pipeline] }  
[Pipeline] // node  
[Pipeline] End of Pipeline  
Finished: SUCCESS

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Type here to search

ENG IN 8:44 PM 9/8/2023

## 7. Docker image pushed to docker hub

The screenshot displays the Docker Hub interface for the repository `navyamanju/awsdemo` and a Windows Command Prompt window.

**Docker Hub Interface:**

- Repository:** `navyamanju/awsdemo:latest`
- DIGEST:** `sha256:f19ebd2b6b63312772b7e81983d8ce1461a581fd90aaa7041a93e7d0b7e39e03`
- OS/ARCH:** `linux/amd64`
- COMPRESSED SIZE:** 262.88 MB
- LAST PUSHED:** 4 minutes ago by `navyamanju`
- TYPE:** Image
- Image Layers:** 2 layers
- Vulnerabilities:** 0

**Image Layers:**

- 1. `ADD file ... in /` (52.45 MB)
- 2. `CMD ["bash"]` (0 B)

**Command:**

```
ADD file:d0f758e50c654c225f6c7f03e8a579efc9106437051573bdbae5e63b1c4b2c1f in /
```

**Windows Command Prompt:**

```
C:\Users\user>docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
navyamanju/awsdemo	latest	d92be9d2563f	5 minutes ago	569MB
tempform	latest	453e9a51ef37	7 hours ago	133MB
angapp	latest	7d1fc98a3864	7 hours ago	134MB
eventapp	latest	7d1fc98a3864	7 hours ago	134MB
angular-app	latest	272c1e6f0c34	9 hours ago	134MB
dbapp	latest	eea78943f5c2	22 hours ago	569MB
navyamanju/eea78943f5c2	latest	eea78943f5c2	22 hours ago	569MB
mysql	latest	99afc808f15b	4 weeks ago	577MB

C:\Users\user>

## 8. Configure EC2 instance to run the created docker image on jenkins

The screenshot displays the AWS Management Console interface. The top navigation bar shows the user is logged in as 'Corestack\_Role/navya.m1\_mphasis' in the 'us-east-1' region. The main content area shows the 'Launch an instance' page for an EC2 instance. A green success message indicates the instance 'i-02db401a74686bbaf' was successfully initiated. Below this, there are 'Next Steps' suggestions for managing the instance, including creating billing alerts, connecting to the instance, connecting an RDS database, and creating EBS snapshots.

The bottom part of the screenshot shows a terminal window with the following output:

```
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-34-19 ~]$ sudo -i
[root@ip-172-31-34-19 ~]# yum install docker
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package docker.x86_64 0:20.10.23-1.amzn2.0.1 will be installed
--> Processing Dependency: runc >= 1.0.0 for package: docker-20.10.23-1.amzn2.0.1.x86_64
--> Processing Dependency: libcgrouper >= 0.40.rc1-5.15 for package: docker-20.10.23-1.amzn2.0.1.x86_64
--> Processing Dependency: containerd >= 1.3.2 for package: docker-20.10.23-1.amzn2.0.1.x86_64
--> Processing Dependency: pigz for package: docker-20.10.23-1.amzn2.0.1.x86_64
--> Running transaction check
--> Package containerd.x86_64 0:1.6.19-1.amzn2.0.3 will be installed
--> Package libcgrouper.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
--> Package runc.x86_64 0:1.1.7-3.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

Package Arch Version Repository Size
```



Complete!

```
[root@ip-172-31-34-19 ~]# service docker start
Redirecting to /bin/systemctl start docker.service
[root@ip-172-31-34-19 ~]# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
[root@ip-172-31-34-19 ~]#
[root@ip-172-31-34-19 ~]# docker run --name docker-mysql -e MYSQL_ROOT_PASSWORD=password -e MYSQL_DATABASE=db1 -e MYSQL_USER=user -e MYSQL_PASSWORD=password -d mysql:latest --default-authentication-plugin=mysql_native_password
Unable to find image 'mysql:latest' locally
latest: Pulling from library/mysql
b193354265ba: Pull complete
14a15c0bb358: Pull complete
02da291ad1e4: Pull complete
9a89ald664ee: Pull complete
a24ae6513051: Pull complete
b85424247193: Pull complete
9a240a3b3d51: Pull complete
8bf57120f71f: Pull complete
c64090e82a0b: Pull complete
af7c751d542: Pull complete
Digest: sha256:c0455ac041844b5e65cd08571387fa5b50ab2a6179557fd938298cab13acf0dd
Status: Downloaded newer image for mysql:latest
68a1756b84c0dc40b2774fa6271def6eb5aa31d231dd1d284a18bf03ebfefdca
[root@ip-172-31-34-19 ~]# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
mysql latest 99afc808f15b 4 weeks ago 577MB
[root@ip-172-31-34-19 ~]# docker push navyamanju/awsdemo
Using default tag: latest
```

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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-02db401a7...

aws Services Search [Alt+S] N. Virginia Corestack\_Role/navya.m1\_mphasis @ 9633-1518-0701

```
Status: Downloaded newer image for mysql:latest
68a1756b84c0dc40b2774fa6271def6eb5aa31d231dd1d284a18bf03ebfefdca
[root@ip-172-31-34-19 ~]# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
mysql latest 99afc808f15b 4 weeks ago 577MB
[root@ip-172-31-34-19 ~]# docker push navyamanju/awsdemo
Using default tag: latest
The push refers to repository [docker.io/navyamanju/awsdemo]
An image does not exist locally with the tag: navyamanju/awsdemo
[root@ip-172-31-34-19 ~]# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
mysql latest 99afc808f15b 4 weeks ago 577MB
[root@ip-172-31-34-19 ~]# docker pull navyamanju/awsdemo
Using default tag: latest
latest: Pulling from navyamanju/awsdemo
001c52e26ad5: Pull complete
d8d4b9b6e964: Pull complete
2068746827ec: Pull complete
9daef329d350: Pull complete
d85151f15b66: Pull complete
52a8c426d30b: Pull complete
8754a66e0050: Pull complete
981d2ce4a7be: Pull complete
Digest: sha256:f19ebd2b6b63312772b7e81903d8ce1461a581fd90aaa7041a93e7d0b7e39e03
Status: Downloaded newer image for navyamanju/awsdemo:latest
docker.io/navyamanju/awsdemo:latest
[root@ip-172-31-34-19 ~]# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
```

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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-02db401a7...

aws Services Search [Alt+S] N. Virginia Corestack\_Role/navya.m1\_mphasis @ 9633-1518-0701

```
aws
Services
Search
[Alt+S]
N. Virginia
Corestack_Role/navya.m1_mphasis @ 9633-1518-0701
https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-02db401a7...

[root@ip-172-31-34-19 ~]# docker run -p 8090:8090 --name finaldemo --link docker-mysql:mysql navyamanju/awsdemo

:: Spring Boot ::
(v2.7.15)

2023-09-08 15:42:19.668 INFO 1 --- [main] c.example.demo.SpringproductApplication : Starting SpringproductApplication v0.0.1-SNAPSHOT
T using Java 1.8.0_342 on 2919cfff6421b with PID 1 (/Springproduct-0.0.1-SNAPSHOT.war started by root in /)
2023-09-08 15:42:19.676 INFO 1 --- [main] c.example.demo.SpringproductApplication : No active profile set, falling back to 1 default
profile: "default"
2023-09-08 15:42:21.533 INFO 1 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEF
FAULT mode.
2023-09-08 15:42:21.665 INFO 1 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 105
ms. Found 1 JPA repository interfaces.
2023-09-08 15:42:23.362 INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8090 (http)
2023-09-08 15:42:23.387 INFO 1 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2023-09-08 15:42:23.394 INFO 1 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.79]
2023-09-08 15:42:26.006 INFO 1 --- [main] org.apache.jasper.servlet.TldScanner : At least one JAR was scanned for TLDs yet contain
ed no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found in them. Skipping unneeded
JARs during scanning can improve startup time and JSP compilation time.
2023-09-08 15:42:26.240 INFO 1 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2023-09-08 15:42:26.240 INFO 1 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization compl
eted in 6420 ms
```

```
aws
Services
Search
[Alt+S]
N. Virginia
Corestack_Role/navya.m1_mphasis @ 9633-1518-0701
https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-02db401a7...

981d2ce4a7be: Pull complete
Digest: sha256:f19ebd2b6b63312772b7e81903d8ce1461a581fd90aaa7041a93e7d0b7e39e03
Status: Downloaded newer image for navyamanju/awsdemo:latest
docker.io/navyamanju/awsdemo:latest
[root@ip-172-31-34-19 ~]# docker images
REPOSITORY          TAG         IMAGE ID      CREATED        SIZE
navyamanju/awsdemo  latest     d92be9d2563f  22 minutes ago  569MB
mysql                latest     99afc808f15b  4 weeks ago    577MB
[root@ip-172-31-34-19 ~]# docker run -p 8090:8090 ^C
[root@ip-172-31-34-19 ~]# docker run -p 8090:8090 navyamanju/awsdemo

:: Spring Boot ::
(v2.7.15)

2023-09-08 15:36:52.319 INFO 1 --- [main] c.example.demo.SpringproductApplication : Starting SpringproductApplication v0.0.1-SNAPSHOT
T using Java 1.8.0_342 on 150e9bc3e9a4 with PID 1 (/Springproduct-0.0.1-SNAPSHOT.war started by root in /)
2023-09-08 15:36:52.330 INFO 1 --- [main] c.example.demo.SpringproductApplication : No active profile set, falling back to 1 default
profile: "default"
2023-09-08 15:36:54.263 INFO 1 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEF
FAULT mode.
2023-09-08 15:36:54.403 INFO 1 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 115
ms. Found 1 JPA repository interfaces.
2023-09-08 15:36:56.112 INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8090 (http)
```

## Welcome to Our Product Page

Add product

## Record of Product

pname jumka

pcost 600

add

The record has been added to the list

Get Records

### List of Products

Product id	Product name	Product Cost	Edit Action	Delete Action
1	jumka	600	<a href="#">Edit</a>	<a href="#">Delete</a>