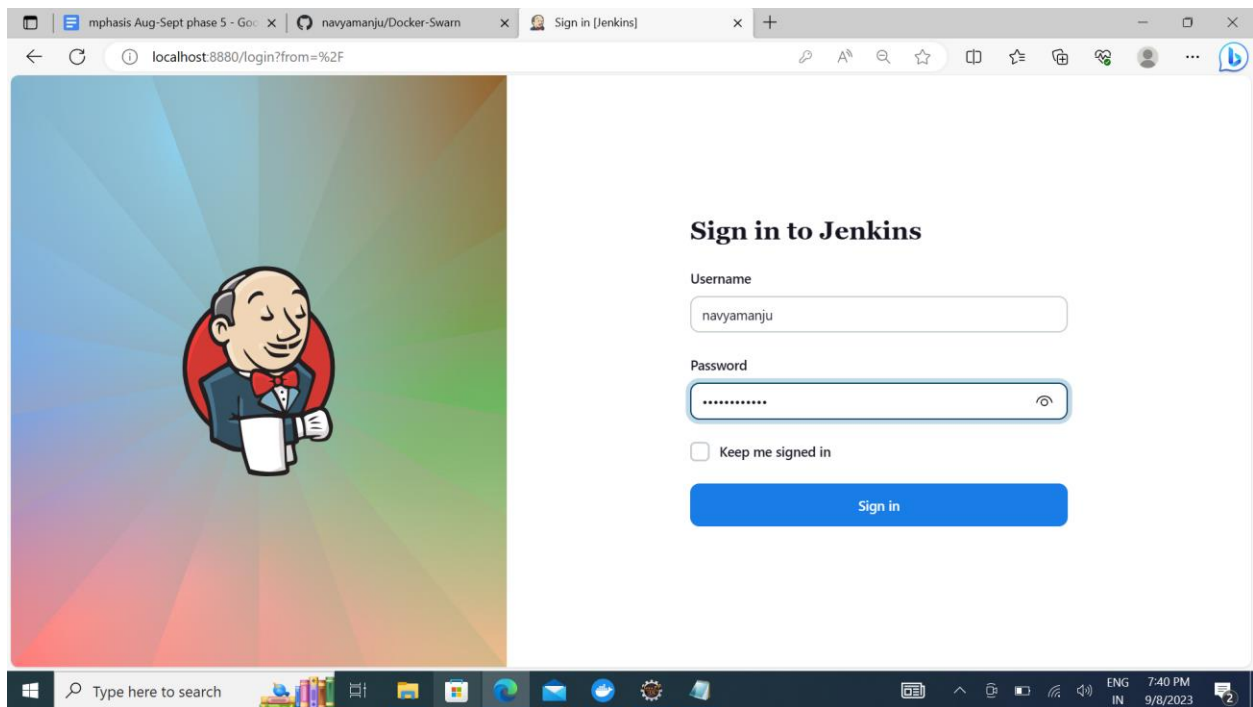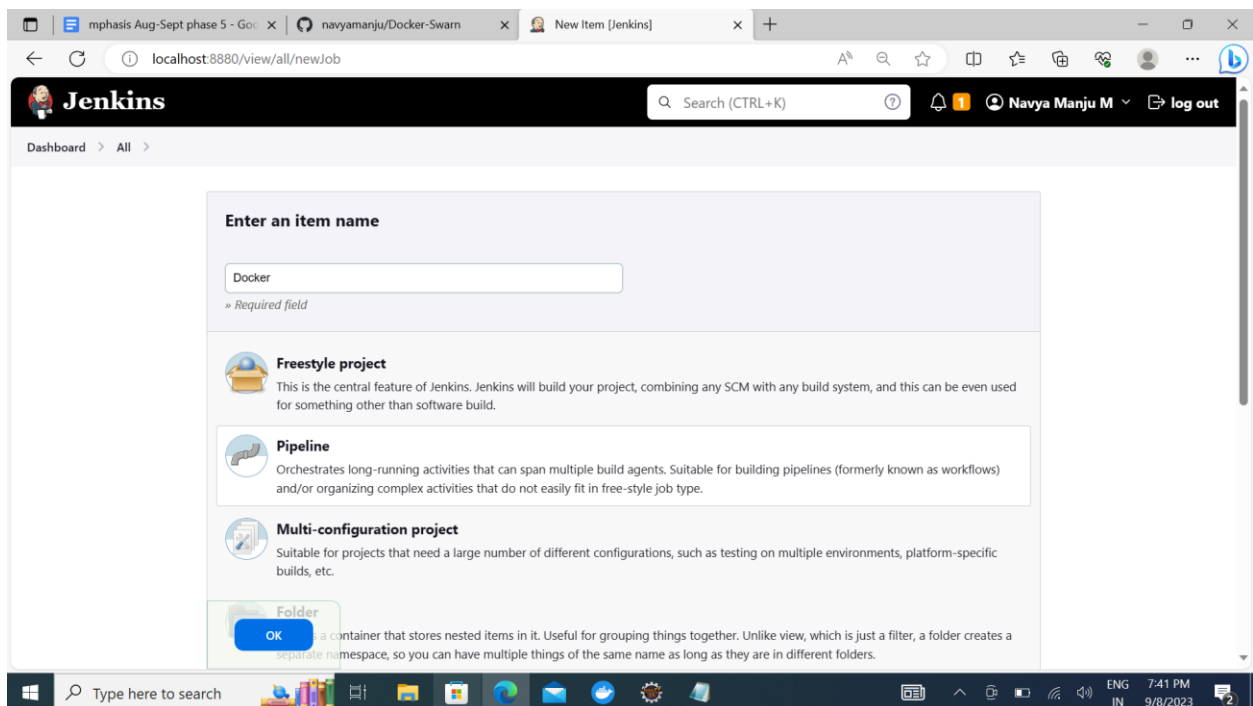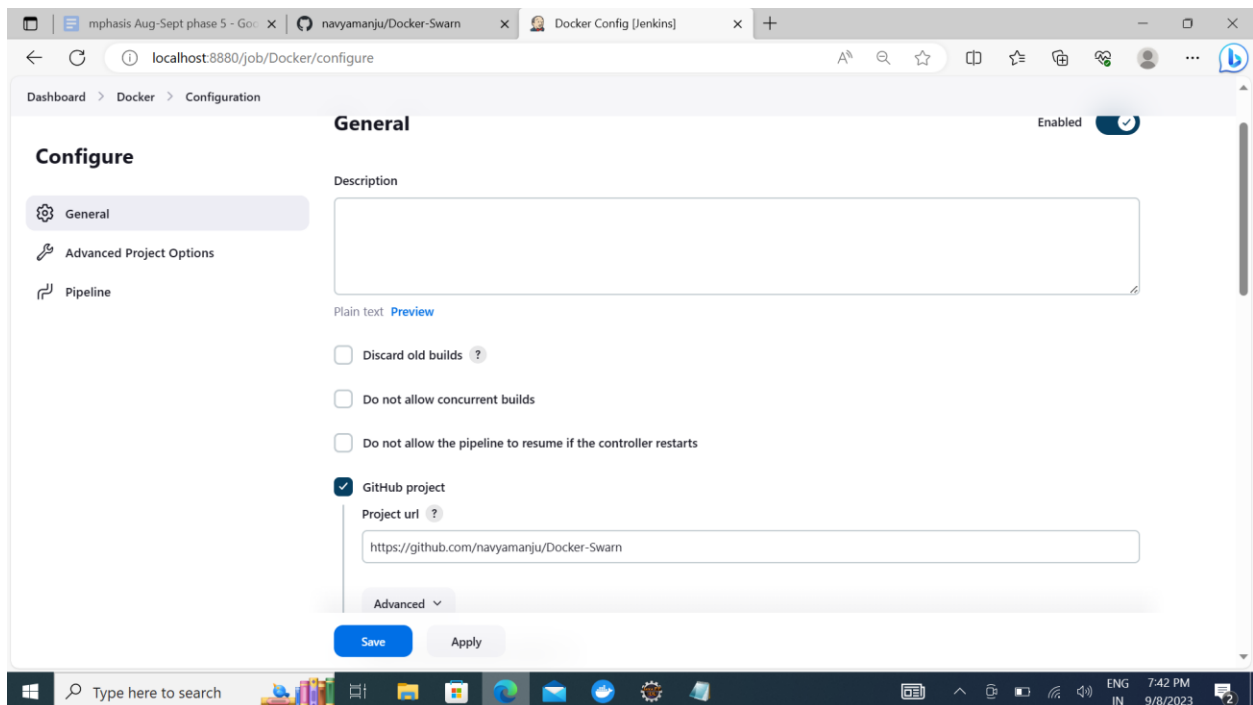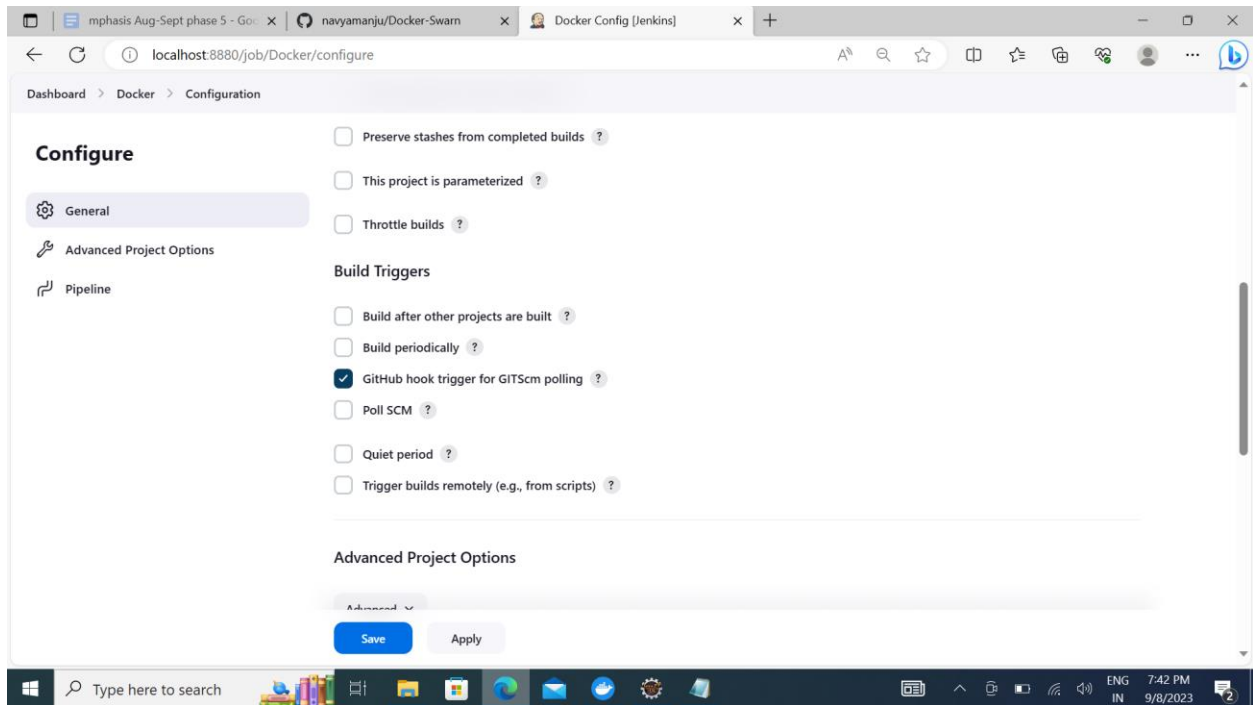# 1.Login to Jenkins using credentials.

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

5.Generate script by giving the docker password

6.Successfully build the docker image

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

localhost:8880/job/Docker/1/console

Dashboard > Docker > #1

```
#5 DONE 3.8s

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

#6 [2/2] ADD   target/Spri      ct-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 d
#7 writing image sha256:d92be9d2563fed6a36999c69e1b75bdc6031b46e8d7bdbda95b4ed54f9380035
#7 writing image sha256:d92be9d2563fed6a36999c69e1b75bdc6031b46e8d7bdbda95b4ed54f9380035 0.2s done
#7 naming to docker.io/navyamanju/awsdemo
#7 naming to docker.io/navyamanju/awsdemo 0.6s done
#7 DONE 2.1s

What's Next?
  View summary of image vulnerabilities and recommendations â†' 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
```

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

localhost:8880/job/Docker/1/console

Dashboard > Docker > #1

```
03127cdb479b: Waiting
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:f19ebd2b6b63312772b7e81903d8ce1461a581fd90aaa7041a93e7d0b7e39e03 size: 2007
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

REST API   Jenkins 2.417

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7.Docker image pushed to docker hub

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

aws Services | Q Search [Alt+S] | N. Virginia ▼ | Corestack_Role/navya.m1_mphasis @ 9633-1518-0701 ▼

```
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_PASSWO
RD=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
9a89a1d664ee: Pull complete
a24ae6513051: Pull complete
b85424247193: Pull complete
9a240a3b3d51: Pull complete
8bf57120f71f: Pull complete
c64090e82a0b: Pull complete
af7c7515d542: 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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---

```
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
d9d4b9b6e964: 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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```
[root@ip-172-31-34-19 ~]# docker run -p 8090:8090 --name finaldemo --link docker-mysql:mysql navyamanju/awsdemo


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 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.7.15)

2023-09-08 15:42:19.668  INFO 1 --- [           main] c.example.demo.SpringproductApplication  : Starting SpringproductApplication v0.0.1-SNAPSHO
T using Java 1.8.0_342 on 2919cff6421b 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 DE
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 contai
ned 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 WebApplicationConte
xt
2023-09-08 15:42:26.240  INFO 1 --- [           main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization compl
eted in 6420 ms
```

```
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


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 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.7.15)

2023-09-08 15:36:52.319  INFO 1 --- [           main] c.example.demo.SpringproductApplication  : Starting SpringproductApplication v0.0.1-SNAPSHO
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 DE
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

navyama | Docker # | Pipeline | Mphasis | Image La | Practice | Instances | EC2 Insta | Insert titl +

Not secure | ec2-54-242-183-245.compute-1.amazonaws.com:8090/display?

List of Products

Product id	Product name	Product Cost	Edit Action	Delete Action
1	jumka	600	Edit	Delete