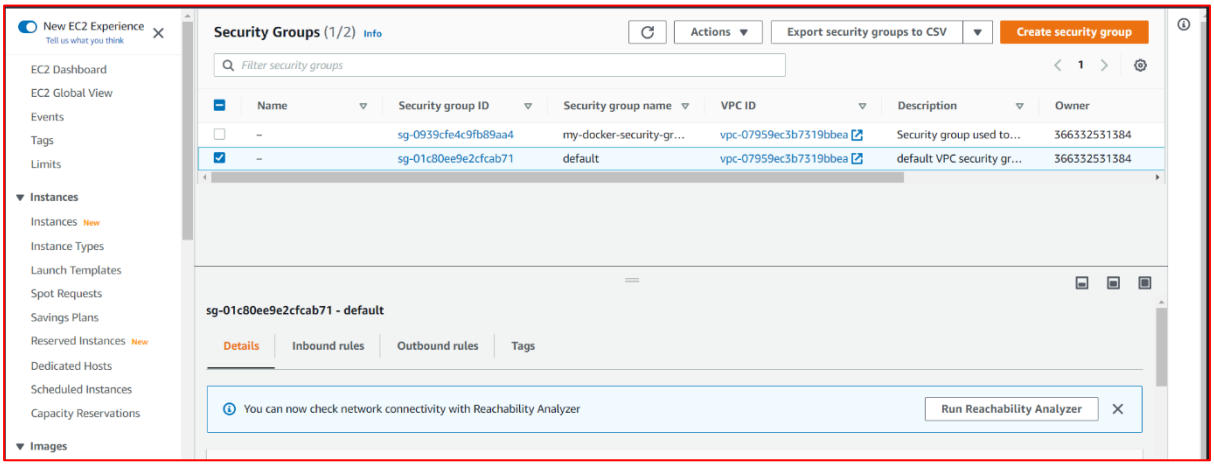
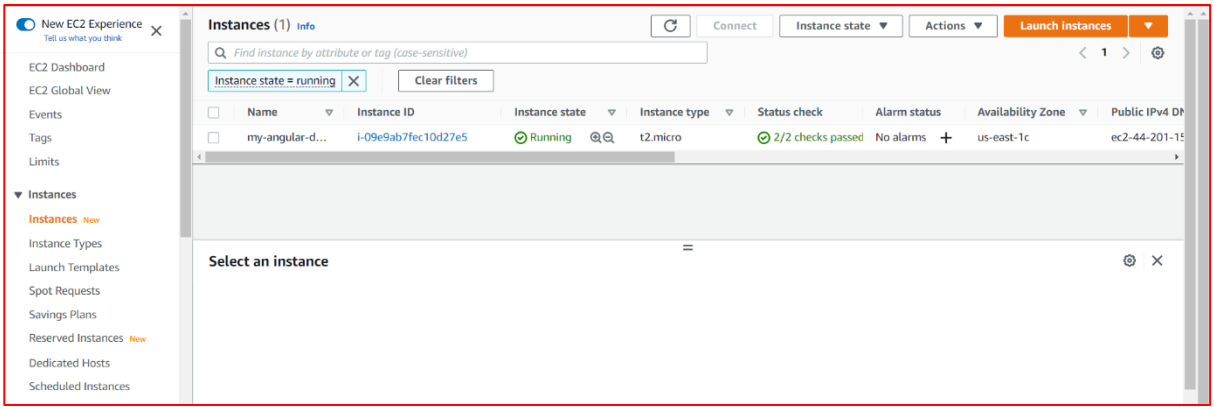
Jenkins Pipeline to Deploy Docker Swarm(Screen Shots)

```
C:\Users\Admin\Desktop\Saveri\Java\programs\Java Phase 5\My images\my image to run  angular\angular-docker>docker tag my-angular123 saverisusarla/my-angular123:1.0

C:\Users\Admin\Desktop\Saveri\Java\programs\Java Phase 5\My images\my image to run  angular\angular-docker>docker push saverisusarla/my-angular123:1.0
The push refers to repository [docker.io/saverisusarla/my-angular123]
1c428057acde: 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:fe816a6c4d7d94a908bb708f061d6eb4e5b56e41ac1cf12b7d1c06bbcb1ab12e size: 1779

C:\Users\Admin\Desktop\Saveri\Java\programs\Java Phase 5\My images\my image to run  angular\angular-docker>
```



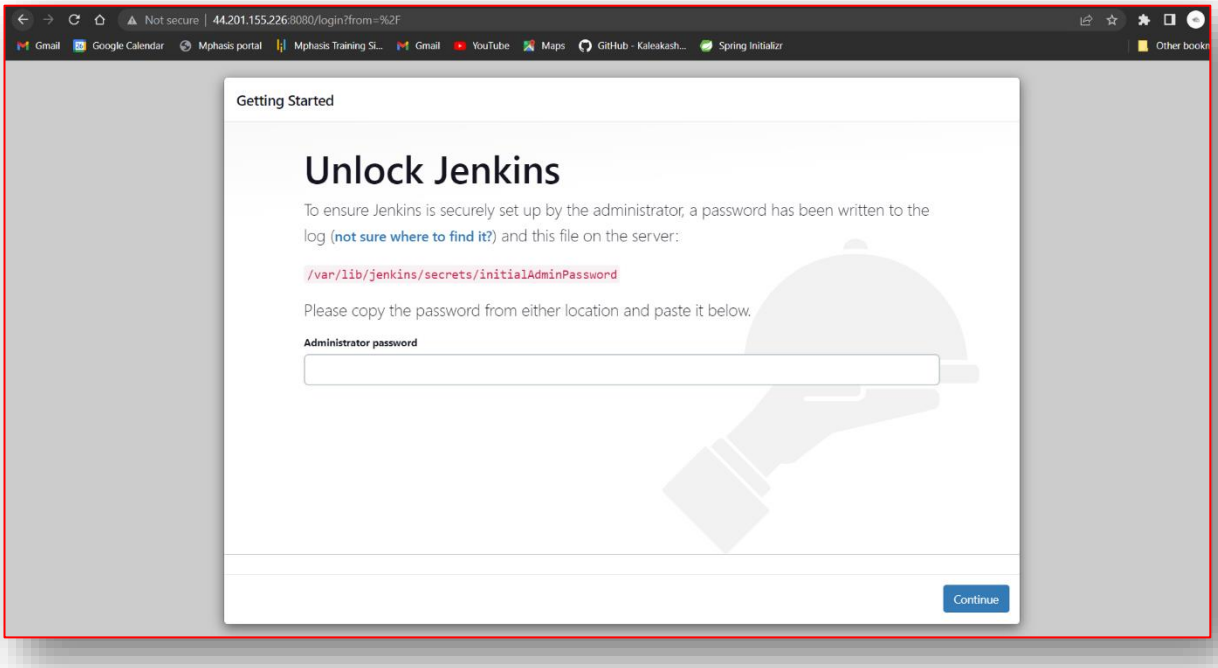


```
actice-Project-Phase-5/non-assisted/Docker swarm (main)
$ ssh -i "angular-docker123.pem" ec2-user@ec2-44-201-155-226.compute-1.amazonaws
.com
The authenticity of host 'ec2-44-201-155-226.compute-1.amazonaws.com (44.201.155
.226)' can't be established.
ED25519 key fingerprint is SHA256:KAOfKkMK37LjA9UyBj+bjXDQeQWITWhe3nO9juTyzBs.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-44-201-155-226.compute-1.amazonaws.com' (ED25519
) to the list of known hosts.

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-81-30 ~]$
```

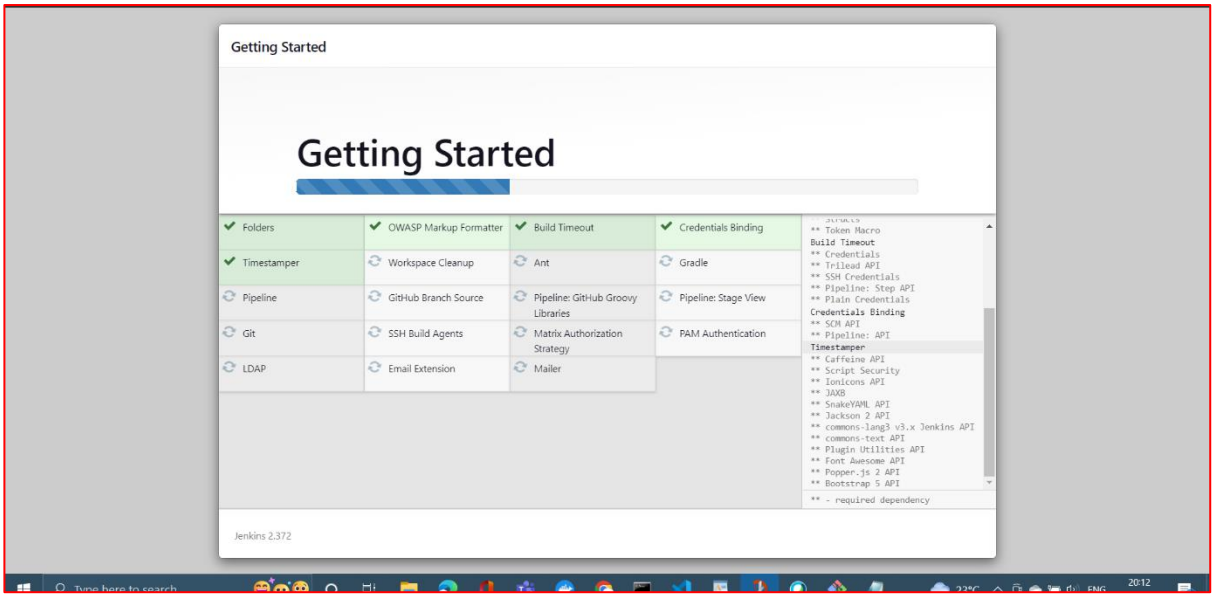
```
ec2-user@ip-172-31-81-30:~
[ec2-user@ip-172-31-81-30 ~]$ sudo amazon-linux-extras install java-openjdk11
Installing java-11-openjdk
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Cleaning repos: amzn2-core amzn2extra-docker amzn2extra-java-openjdk11 amzn2extra-kernel-5.10 jenkins
17 metadata files removed
6 sqlite files removed
0 metadata files removed
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
amzn2extra-docker
amzn2extra-java-openjdk11
amzn2extra-kernel-5.10
jenkins
(1/10): amzn2-core/2/x86_64/updateinfo
(2/10): amzn2-core/2/x86_64/group_gz
(3/10): amzn2extra-java-openjdk11/2/x86_64/primary_db
(4/10): amzn2extra-kernel-5.10/2/x86_64/updateinfo
(5/10): amzn2extra-docker/2/x86_64/updateinfo
(6/10): amzn2extra-docker/2/x86_64/primary_db
(7/10): amzn2extra-java-openjdk11/2/x86_64/updateinfo
(8/10): amzn2extra-kernel-5.10/2/x86_64/primary_db
(9/10): jenkins/primary_db
(10/10): amzn2-core/2/x86_64/primary_db
```

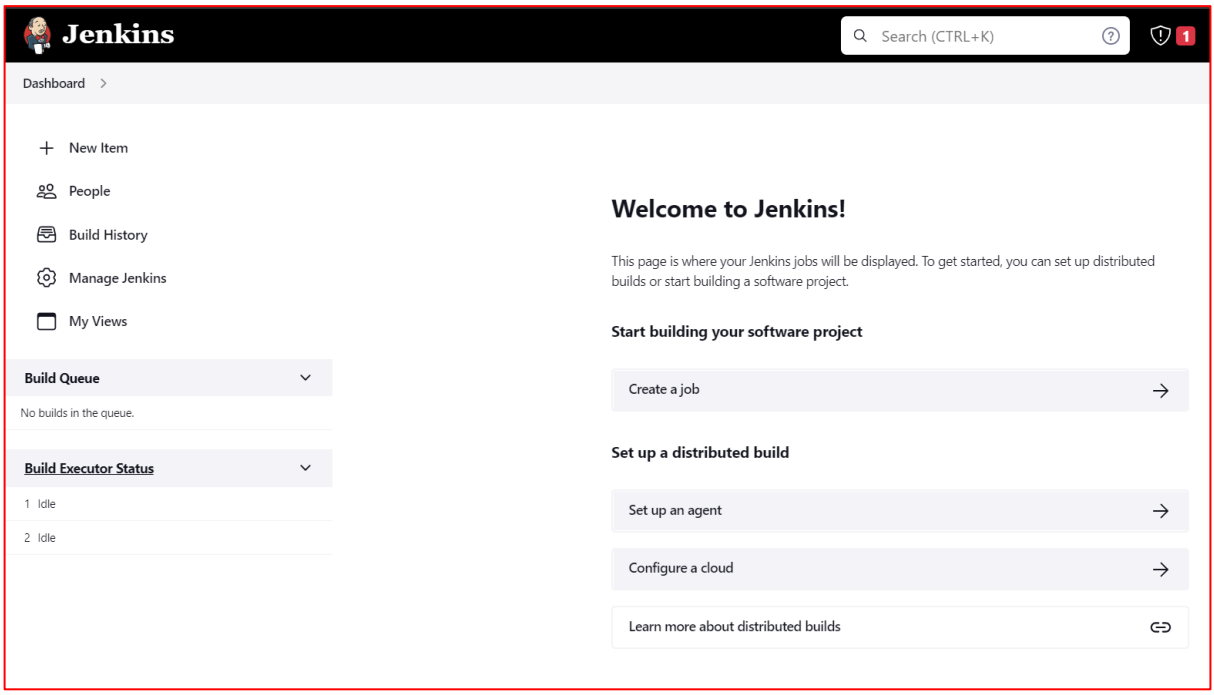
```
ec2-user@ip-172-31-81-30:~
[ec2-user@ip-172-31-81-30 ~]$ sudo yum install jenkins
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package jenkins.noarch 0:2.372-1.1 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

================================================================================
 Package              Arch              Version                Repository   Size
================================================================================
Installing:
 jenkins              noarch            2.372-1.1              jenkins      89 M

Transaction Summary
================================================================================
Install  1 Package

Total download size: 89 M
Installed size: 89 M
Is this ok [y/d/N]: y
Downloading packages:
jenkins-2.372-1.1.noarch.rpm                               |  89 MB  00:00:26
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : jenkins-2.372-1.1.noarch                                     1/1
  Verifying  : jenkins-2.372-1.1.noarch                                     1/1

Installed:
  jenkins.noarch 0:2.372-1.1

Complete!
[ec2-user@ip-172-31-81-30 ~]$
```

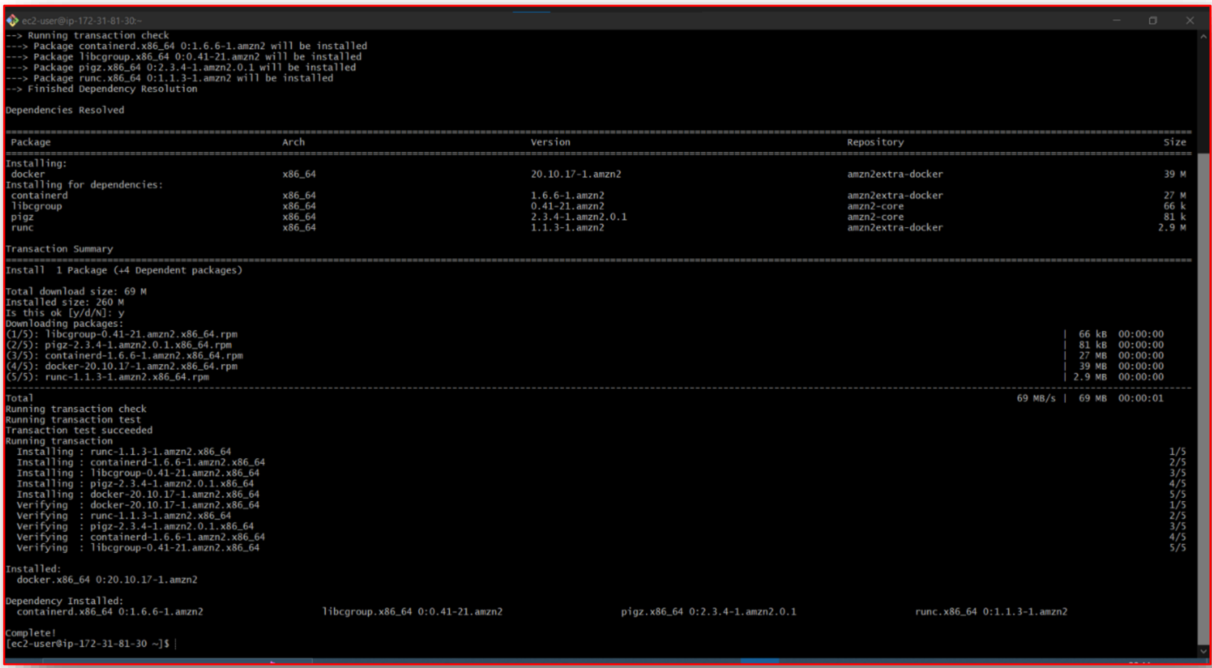
```
ec2-user@ip-172-31-81-30:~
[ec2-user@ip-172-31-81-30 ~]$ sudo service jenkins start
Starting jenkins (via systemctl):                          [  OK  ]
[ec2-user@ip-172-31-81-30 ~]$
```

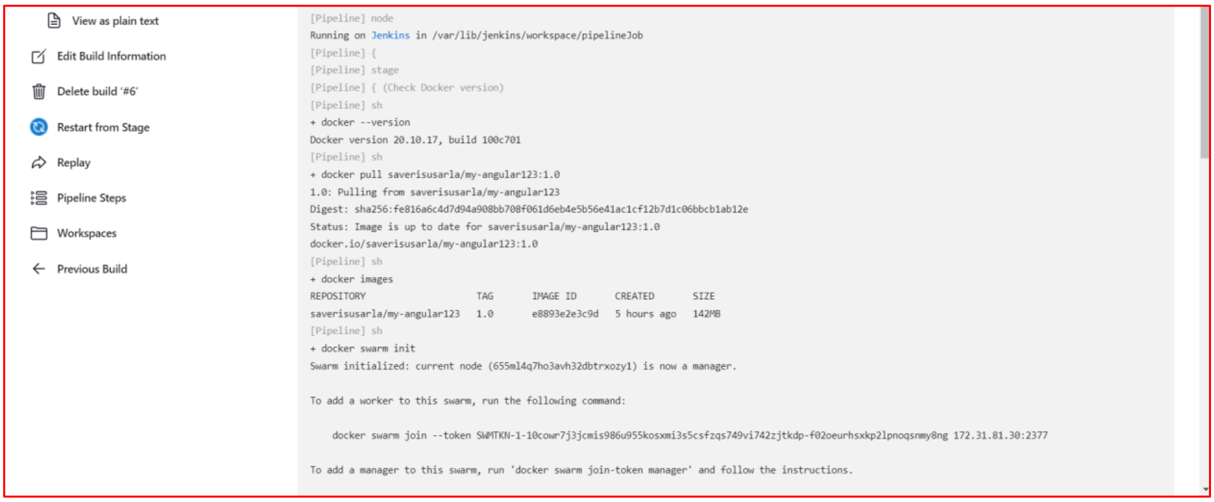


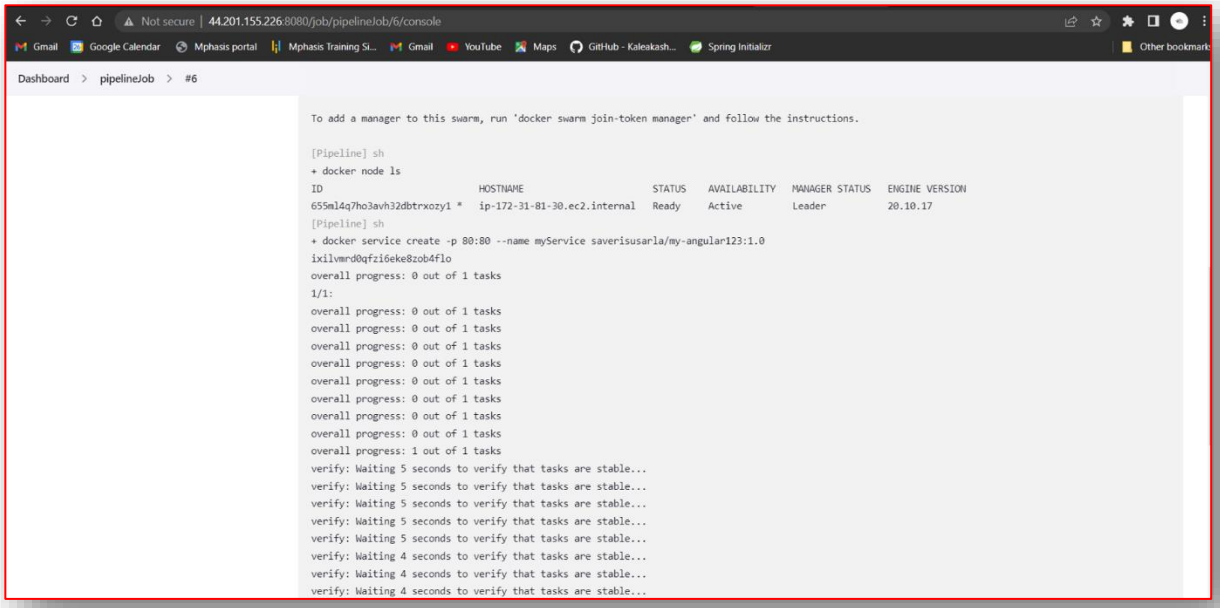

```
ec2-user@ip-172-31-81-30:~
[ec2-user@ip-172-31-81-30 ~]$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
7f78327b98a846269d6e10e5d59e3e65
[ec2-user@ip-172-31-81-30 ~]$
```

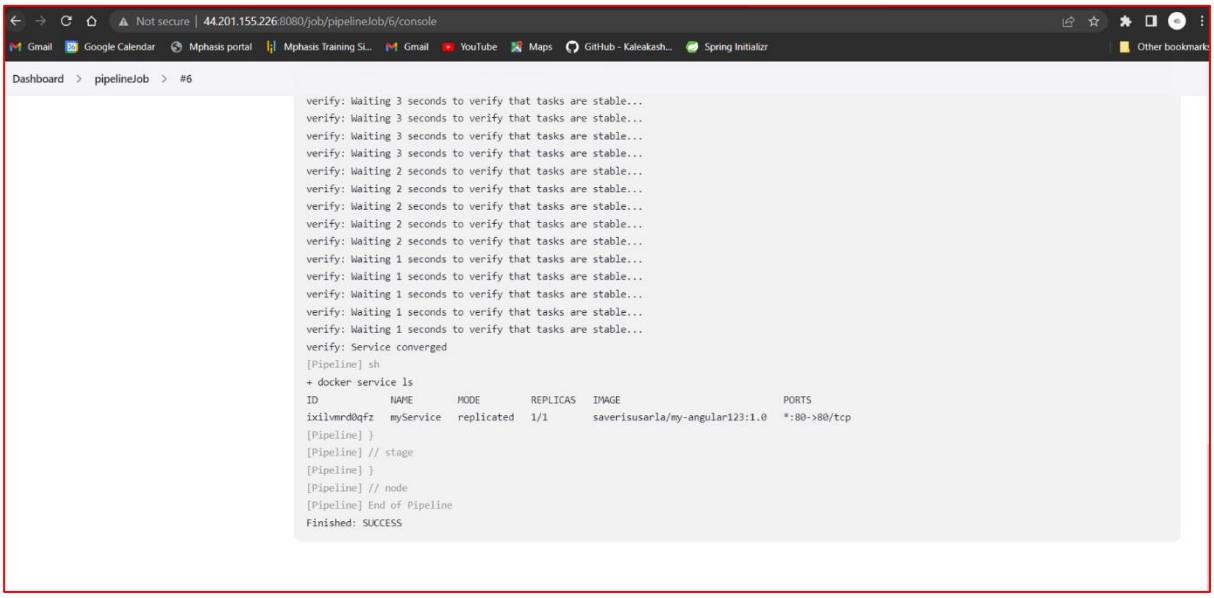

Getting Started
Getting Started
Folders
OWASP Markup Formatter
Build Timeout
Credentials Binding
Timestamper
Workspace Cleanup
Ant
Gradle
Pipeline
GitHub Branch Source
Pipeline: GitHub Groovy Libraries
Pipeline: Stage View
Git
SSH Build Agents
Matrix Authorization Strategy
PAM Authentication
LDAP
Email Extension
Mailer
Jenkins 2.372


Jenkins
Search (CTRL+K)
Dashboard
New Item
People
Build History
Manage Jenkins
My Views
Build Queue
No builds in the queue.
Build Executor Status
1 Idle
2 Idle
Welcome to Jenkins!
This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.
Start building your software project
Create a job
Set up a distributed build
Set up an agent
Configure a cloud
Learn more about distributed builds


ec2-user@ip-172-31-81-30:~
--> 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
---> Package runc.x86_64 0:1.1.3-1.amzn2 will be installed
--> Finished Dependency Resolution
Dependencies Resolved
Package Arch Version Repository Size
Installing:
docker x86_64 20.10.17-1.amzn2 amzn2extra-docker 39 M
Installing for dependencies:
containerd x86_64 1.6.6-1.amzn2 amzn2extra-docker 27 M
libcgroup x86_64 0.41-21.amzn2 amzn2-core 66 k
pigz x86_64 2.3.4-1.amzn2.0.1 amzn2-core 81 k
runc x86_64 1.1.3-1.amzn2 amzn2extra-docker 2.9 M
Transaction Summary
Install 1 Package (+4 Dependent packages)
Total download size: 69 M
Installed size: 260 M
Is this ok [y/d/N]: y
Downloading packages:
(1/5): libcgroup-0.41-21.amzn2.x86_64.rpm | 66 kB 00:00:00
(2/5): pigz-2.3.4-1.amzn2.0.1.x86_64.rpm | 81 kB 00:00:00
(3/5): containerd-1.6.6-1.amzn2.x86_64.rpm | 27 MB 00:00:00
(4/5): docker-20.10.17-1.amzn2.x86_64.rpm | 39 MB 00:00:00
(5/5): runc-1.1.3-1.amzn2.x86_64.rpm | 2.9 MB 00:00:00
Total 69 MB/s | 69 MB 00:00:01
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : runc-1.1.3-1.amzn2.x86_64 1/5
Installing : containerd-1.6.6-1.amzn2.x86_64 2/5
Installing : libcgroup-0.41-21.amzn2.x86_64 3/5
Installing : pigz-2.3.4-1.amzn2.0.1.x86_64 4/5
Installing : docker-20.10.17-1.amzn2.x86_64 5/5
Verifying : docker-20.10.17-1.amzn2.x86_64 1/5
Verifying : runc-1.1.3-1.amzn2.x86_64 2/5
Verifying : pigz-2.3.4-1.amzn2.0.1.x86_64 3/5
Verifying : containerd-1.6.6-1.amzn2.x86_64 4/5
Verifying : libcgroup-0.41-21.amzn2.x86_64 5/5
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-172-31-81-30 ~]$


View as plain text
Edit Build Information
Delete build '#6'
Restart from Stage
Replay
Pipeline Steps
Workspaces
Previous Build
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/pipelineJob
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Check Docker version)
[Pipeline] sh
+ docker --version
Docker version 20.10.17, build 100c701
[Pipeline] sh
+ docker pull saverisusarla/my-angular123:1.0
1.0: Pulling from saverisusarla/my-angular123
Digest: sha256:fe816a6c4d7d94a908bb708f061d6eb4e5b56e41ac1cf12b7d1c06bbcb1ab12e
Status: Image is up to date for saverisusarla/my-angular123:1.0
docker.io/saverisusarla/my-angular123:1.0
[Pipeline] sh
+ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
saverisusarla/my-angular123 1.0 e8893e2e3c9d 5 hours ago 142MB
[Pipeline] sh
+ docker swarm init
Swarm initialized: current node (655ml4q7ho3avh32dbtrxozy1) is now a manager.
To add a worker to this swarm, run the following command:
docker swarm join --token SWMTKN-1-10cowr7j3jcmis986u955kosxmi3s5csfzqs749vi742zjtkdp-f02oeurhsxkp2lpnoqsnmy8ng 172.31.81.30:2377
To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.


Not secure | 44.201.155.226:8080/job/pipelineJob/6/console
Gmail
Google Calendar
Mphasis portal
Mphasis Training Si...
Gmail
YouTube
Maps
GitHub - Kaleakash...
Spring Initializr
Other bookmarks
Dashboard > pipelineJob > #6
To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.
[Pipeline] sh
+ docker node ls
ID HOSTNAME STATUS AVAILABILITY MANAGER STATUS ENGINE VERSION
655ml4q7ho3avh32dbtrxozy1 * ip-172-31-81-30.ec2.internal Ready Active Leader 20.10.17
[Pipeline] sh
+ docker service create -p 80:80 --name myService saverisusarla/my-angular123:1.0
ixilvmrd0qfzi6eke8zob4flo
overall progress: 0 out of 1 tasks
1/1:
overall progress: 0 out of 1 tasks
overall progress: 0 out of 1 tasks
overall progress: 0 out of 1 tasks
overall progress: 0 out of 1 tasks
overall progress: 0 out of 1 tasks
overall progress: 0 out of 1 tasks
overall progress: 0 out of 1 tasks
overall progress: 0 out of 1 tasks
overall progress: 1 out of 1 tasks
verify: Waiting 5 seconds to verify that tasks are stable...
verify: Waiting 5 seconds to verify that tasks are stable...
verify: Waiting 5 seconds to verify that tasks are stable...
verify: Waiting 5 seconds to verify that tasks are stable...
verify: Waiting 5 seconds to verify that tasks are stable...
verify: Waiting 4 seconds to verify that tasks are stable...
verify: Waiting 4 seconds to verify that tasks are stable...
verify: Waiting 4 seconds to verify that tasks are stable...


Not secure | 44.201.155.226:8080/job/pipelineJob/6/console
Gmail
Google Calendar
Mphasis portal
Mphasis Training Si...
Gmail
YouTube
Maps
GitHub - Kaleakash...
Spring Initializr
Other bookmarks
Dashboard > pipelineJob > #6
verify: Waiting 3 seconds to verify that tasks are stable...
verify: Waiting 3 seconds to verify that tasks are stable...
verify: Waiting 3 seconds to verify that tasks are stable...
verify: Waiting 3 seconds to verify that tasks are stable...
verify: Waiting 2 seconds to verify that tasks are stable...
verify: Waiting 2 seconds to verify that tasks are stable...
verify: Waiting 2 seconds to verify that tasks are stable...
verify: Waiting 2 seconds to verify that tasks are stable...
verify: Waiting 2 seconds to verify that tasks are stable...
verify: Waiting 1 seconds to verify that tasks are stable...
verify: Waiting 1 seconds to verify that tasks are stable...
verify: Waiting 1 seconds to verify that tasks are stable...
verify: Waiting 1 seconds to verify that tasks are stable...
verify: Waiting 1 seconds to verify that tasks are stable...
verify: Service converged
[Pipeline] sh
+ docker service ls
ID NAME MODE REPLICAS IMAGE PORTS
ixilvmrd0qfz myService replicated 1/1 saverisusarla/my-angular123:1.0 *:80->80/tcp
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS