

Installing Jenkins image in docker and run:

```
Terminal - root@ip-172-31-24-100: ~
File Edit View Terminal Tabs Help
ajithkumarkmpa@ip-172-31-24-100:~/Desktop$ docker veriosn
docker: 'veriosn' is not a docker command.
See 'docker --help'
ajithkumarkmpa@ip-172-31-24-100:~/Desktop$ docker version
Client: Docker Engine - Community
Version:      19.03.11
API version:  1.40
Go version:   go1.13.10
Git commit:   42e35e61f3
Built:        Mon Jun 1 09:12:41 2020
OS/Arch:      linux/amd64
Experimental: false
Got permission denied while trying to connect to the Docker daemon socket at unix:
x:///var/run/docker.sock: Get http://%2Fvar%2Frun%2Fdocker.sock/v1.40/version: d
ial unix /var/run/docker.sock: connect: permission denied
ajithkumarkmpa@ip-172-31-24-100:~/Desktop$ sudo docker version
Client: Docker Engine - Community
Version:      19.03.11
API version:  1.40
Go version:   go1.13.10
Git commit:   42e35e61f3
Built:        Mon Jun 1 09:12:41 2020
OS/Arch:      linux/amd64
Experimental: false
```

```
root@ip-172-31-24-100:~# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED
STATUS        PORTS         NAMES
994ff81eca19   sebp/elk      "/usr/local/bin/star...  21 hours ago
Exited (130) 20 hours ago      elk
0b35f0dd6911   720e228f2fbe  "/bin/sh -c 'yes | C..." 21 hours ago
Exited (2) 21 hours ago      romantic_shannon
16b801f1cd4d   720e228f2fbe  "/bin/sh -c 'yes | C..." 21 hours ago
Exited (2) 21 hours ago      epic_herschel
f4d6158e8e31   720e228f2fbe  "/bin/sh -c 'yes | C..." 21 hours ago
Exited (2) 21 hours ago      blissful_borg
e1e1d9a7c67c   hello-world   "/hello"                 2 years ago
Exited (0) 2 years ago      blissful_banzai
```

```
root@ip-172-31-24-100:~# docker container run -d --name myjenkins -p 8080:8080 j
enkins/jenkins
Unable to find image 'jenkins/jenkins:latest' locally
latest: Pulling from jenkins/jenkins
f606d8928ed3: Pull complete
9a00d27d48c1: Pull complete
01e1c301786d: Pull complete
f633957088dd: Pull complete
6f6809be7c45: Pull complete
ed67be567b9e: Pull complete
cb29af5ff7f1: Pull complete
a23ec132a17d: Pull complete
746d956b0093: Pull complete
0544ca70bab5: Pull complete
0819a7a603e8: Pull complete
07a05fd0a337: Pull complete
6cd0c7944deb: Pull complete
561dc0b0a2aa: Pull complete
Digest: sha256:3c34c0703e9bb2b82ca57dbbab1870a11e9df509e675492e589670aae16dc419
Status: Downloaded newer image for jenkins/jenkins:latest
d550395db4f4c749e689794fb7d6acdc129756022c7ce5b2048f13b85ed91716
docker: Error response from daemon: driver failed programming external connectiv
ity on endpoint myjenkins (27f0ef08ac1618cf5dc0ab1dclaccabec3a8365457de24a4fb475
```

```

root@ip-172-31-24-100:~# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED
STATUS        PORTS         NAMES
d550395db4f4   jenkins/jenkins "/usr/bin/tini -- /u..." 2 minutes ago
Created                                     myjenkins
994ff81eca19    sebp/elk       "/usr/local/bin/star..." 21 hours ago
Exited (130) 20 hours ago                  elk
0b35f0dd6911    720e228f2fbe  "/bin/sh -c 'yes | C..." 21 hours ago
Exited (2) 21 hours ago                  romantic_shannon
16b801f1cd4d    720e228f2fbe  "/bin/sh -c 'yes | C..." 21 hours ago
Exited (2) 21 hours ago                  epic_herschel
f4d6158e8e31    720e228f2fbe  "/bin/sh -c 'yes | C..." 21 hours ago
Exited (2) 21 hours ago                  blissful_borg
e1eld9a7c67c    hello-world   "/hello"                 2 years ago
Exited (0) 2 years ago                  blissful_banzai

```

```

root@ip-172-31-24-100:~# docker logs myjenkins
Running from: /usr/share/jenkins/jenkins.war
webroot: EnvVars.masterEnvVars.get("JENKINS_HOME")
2022-10-19 06:02:20.137+0000 [id=1] INFO winstone.Logger#logInternal: Beginning extraction from war file
2022-10-19 06:02:21.374+0000 [id=1] WARNING o.e.j.s.handler.ContextHandler#setContextPath: Empty contextPath
2022-10-19 06:02:21.447+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: jetty-10.0.12; built: 2022-09-14T01:54:40.076Z; git: 408d0139887e27a57b54ed52e2d92a36731a7e88; jvm 11.0.16.1+1
2022-10-19 06:02:21.930+0000 [id=1] INFO o.e.j.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /, did not find org.eclipse.jetty.jsp.JettyJspServlet
2022-10-19 06:02:22.005+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: Session workerName=node0
2022-10-19 06:02:22.774+0000 [id=1] INFO hudson.WebAppMain#contextInitialized: Jenkins home directory: /var/jenkins_home found at: EnvVars.masterEnvVars.get("JENKINS_HOME")
2022-10-19 06:02:22.961+0000 [id=1] INFO o.e.j.s.handler.ContextHandler#doStart: Started w.@19962194{Jenkins v2.374,,file:///var/jenkins_home/war/,AVAILABLE}[/var/jenkins_home/war]

```

Jenkins initial setup is required. An admin user has been created and a password generated.
Please use the following password to proceed to installation:

cld35a500994480baa79bac55f66a438

This may also be found at: /var/jenkins_home/secrets/initialAdminPassword

```

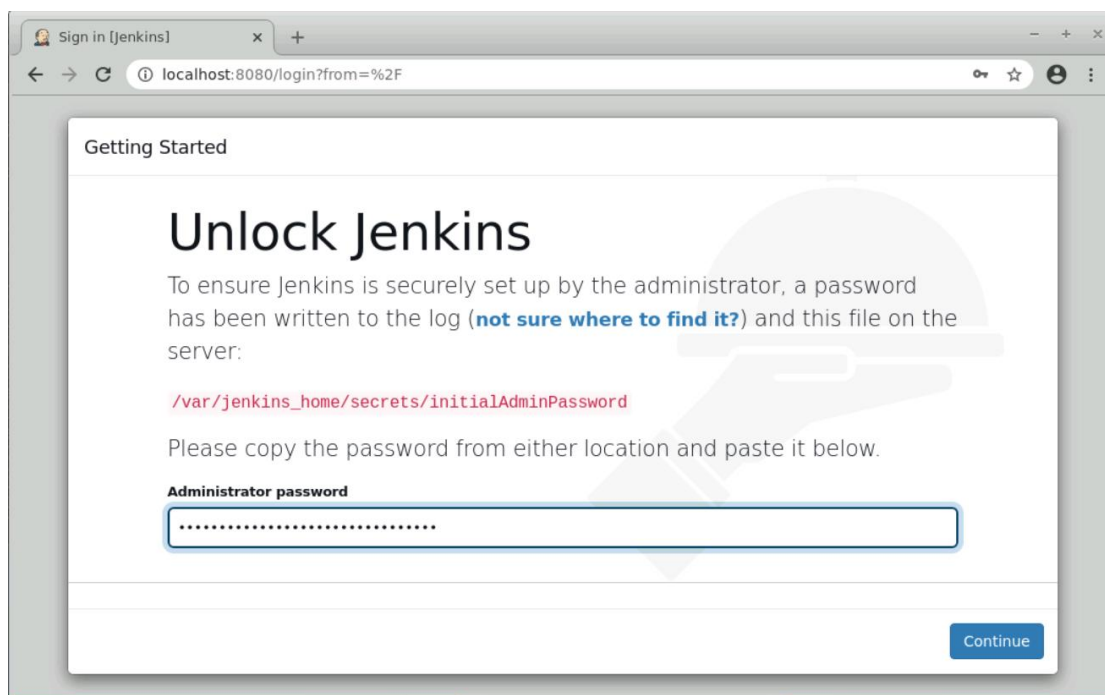
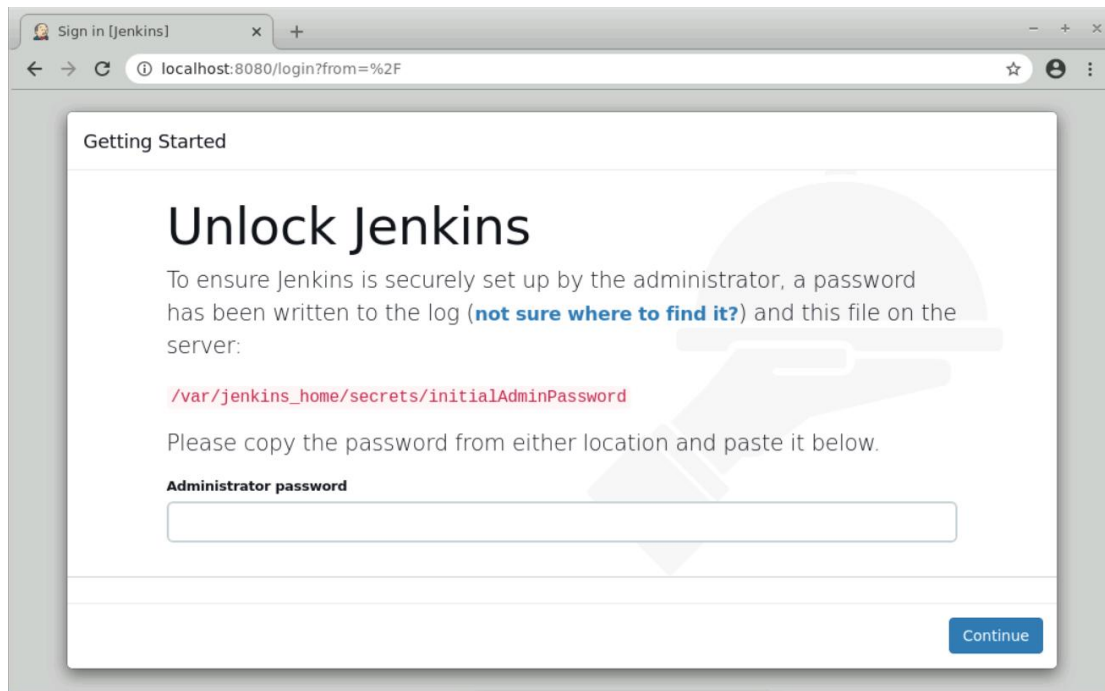
*****
*****
*****

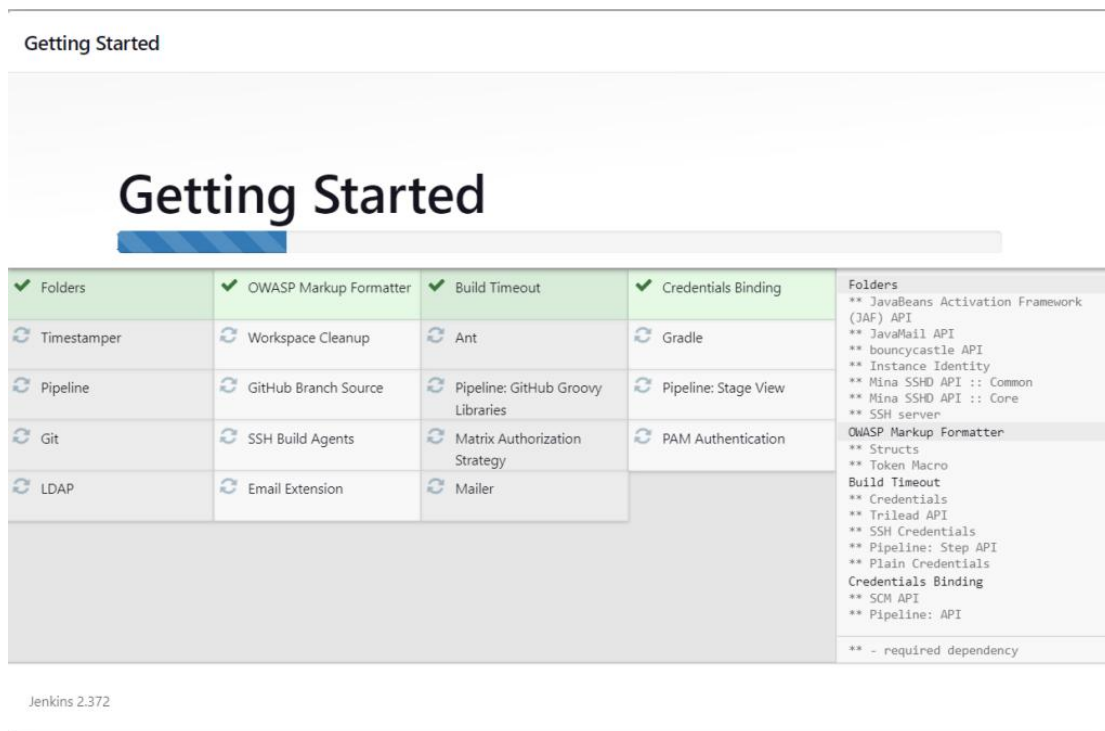
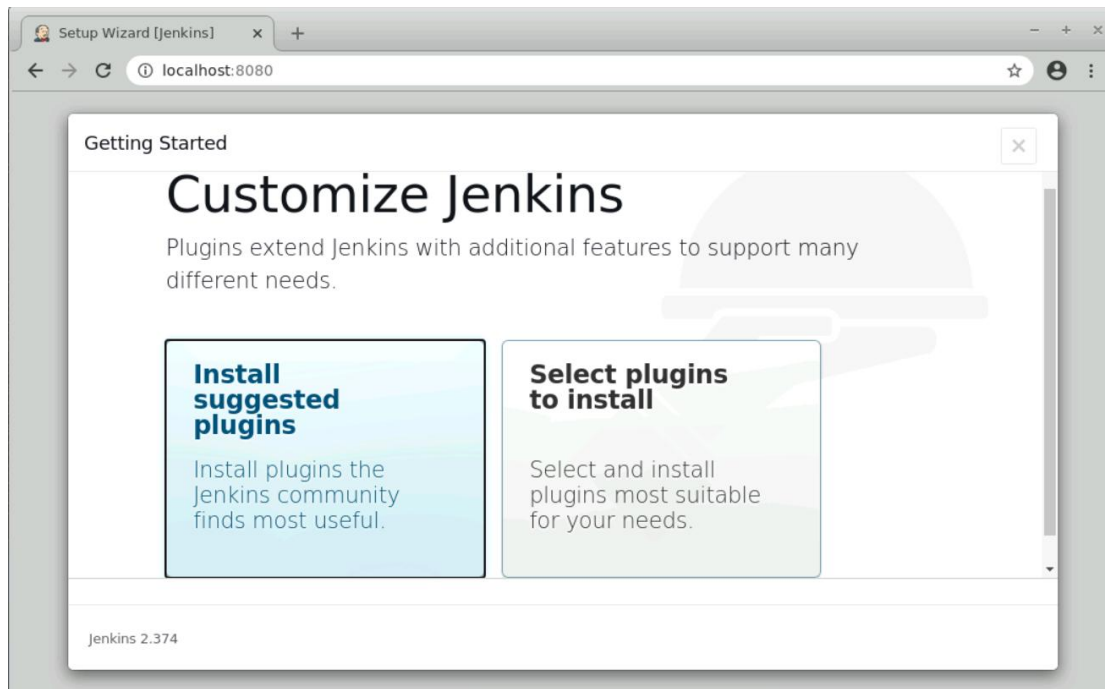
```

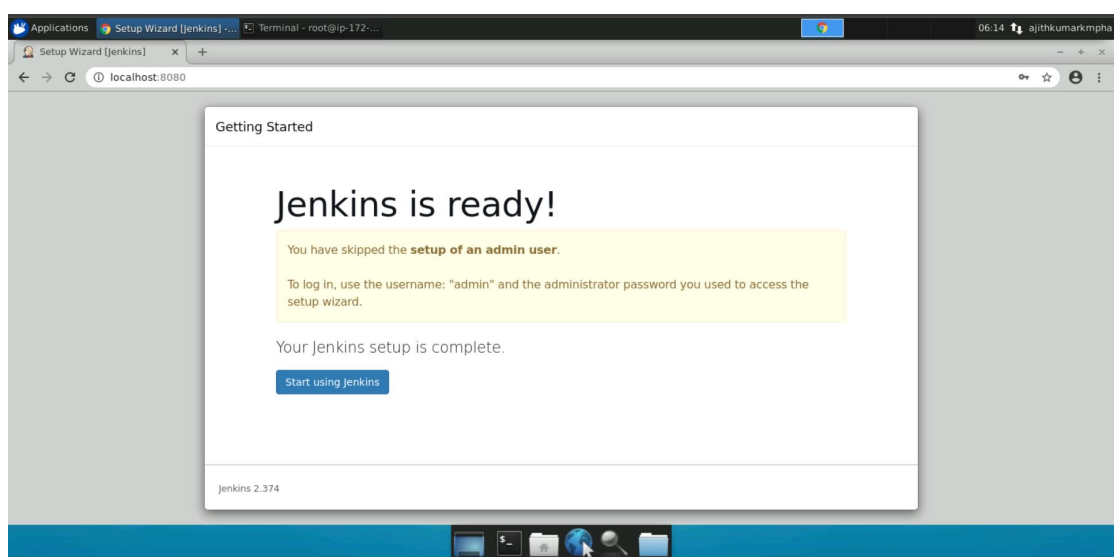
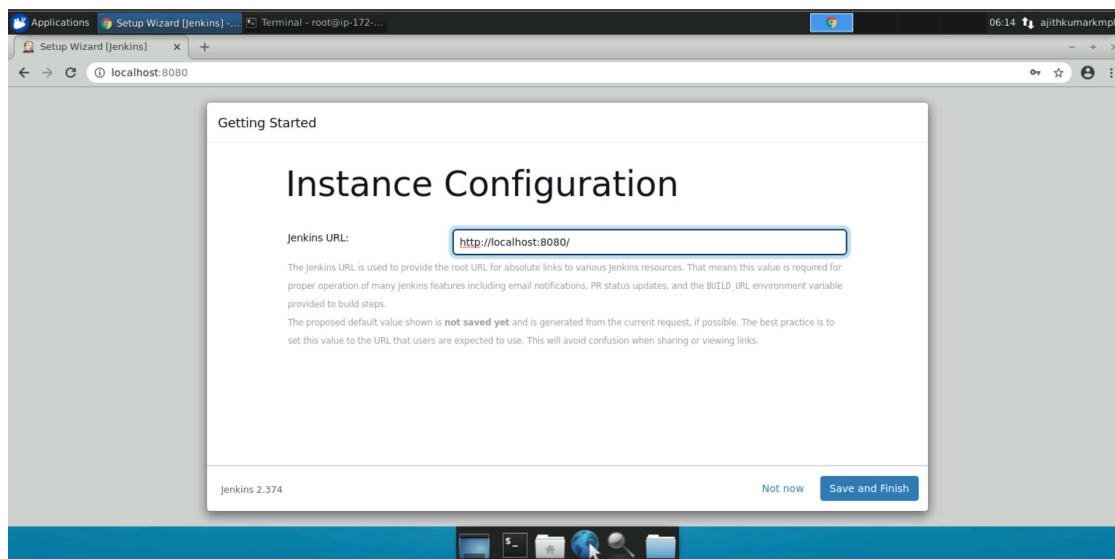
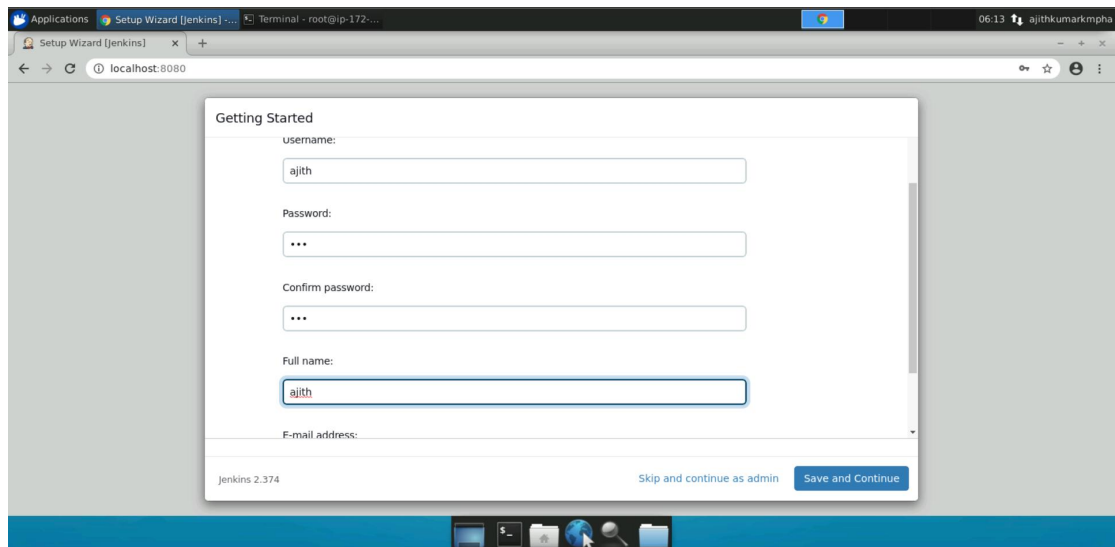
```

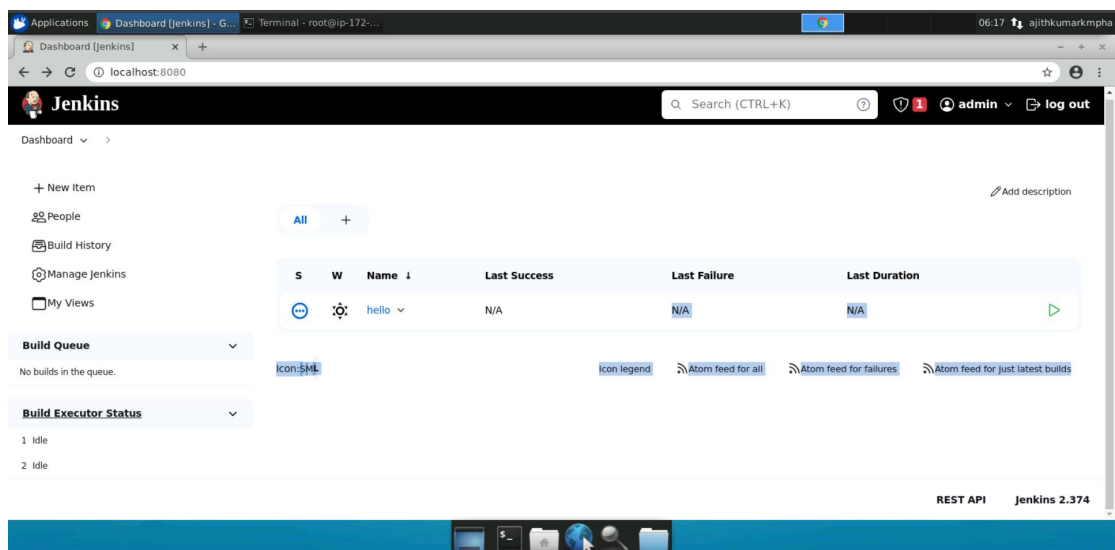
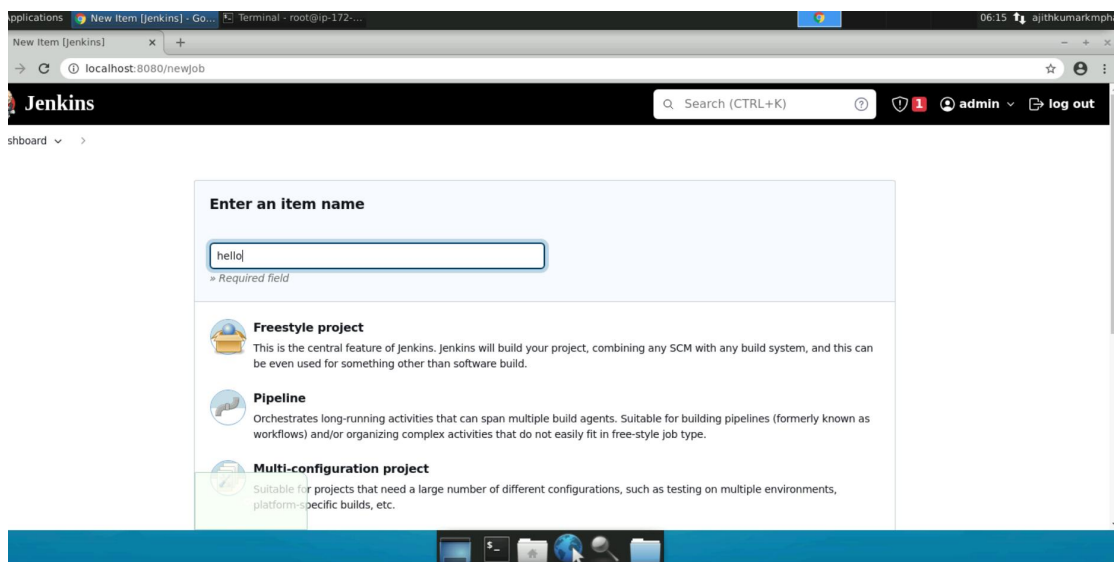
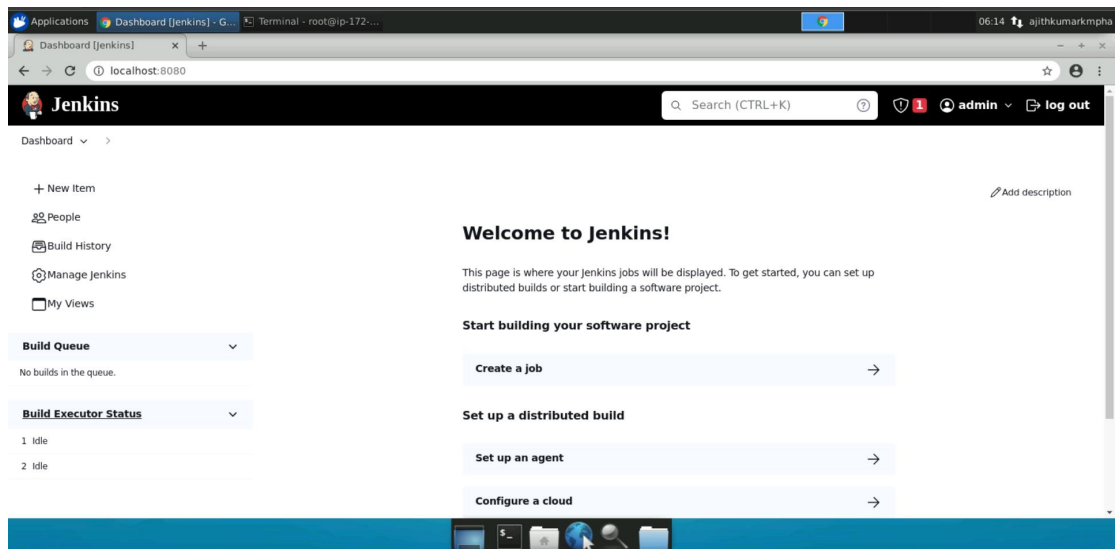
2022-10-19 06:02:41.112+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAtained: Completed initialization
2022-10-19 06:02:41.152+0000 [id=23] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and running
2022-10-19 06:02:41.295+0000 [id=49] INFO h.m.DownloadService$Downloadable#load: Obtained the updated data file for hudson.tasks.Maven.MavenInstaller
2022-10-19 06:02:41.295+0000 [id=49] INFO hudson.util.Retrier#start: Performed the action check updates server successfully at the attempt #1
2022-10-19 06:02:41.301+0000 [id=49] INFO hudson.model.AsyncPeriodicWork#lambda$doRun$0: Finished Download metadata. 16,361 ms
root@ip-172-31-24-100:~# sudo chmod 777 /var/run/docker.sock
root@ip-172-31-24-100:~#

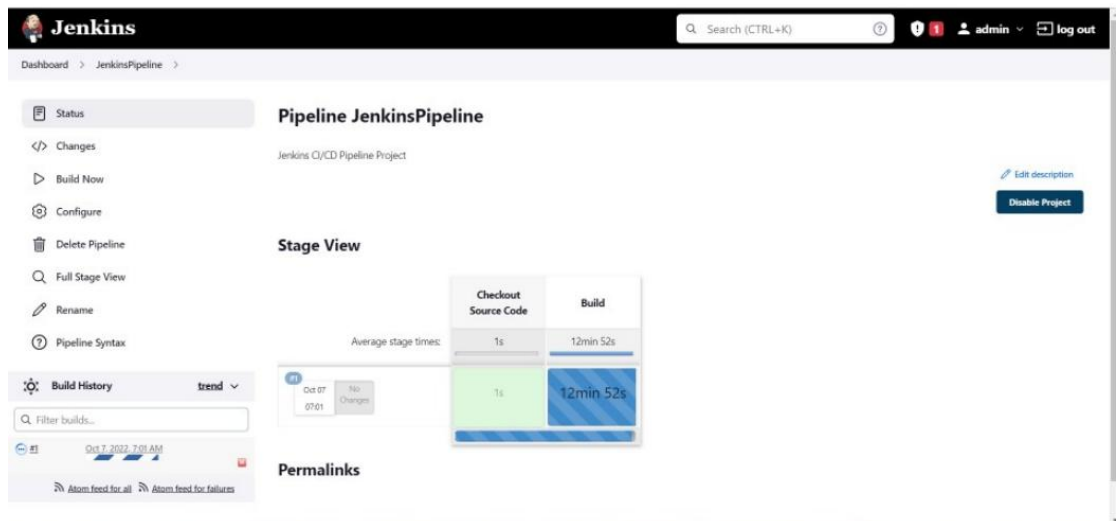
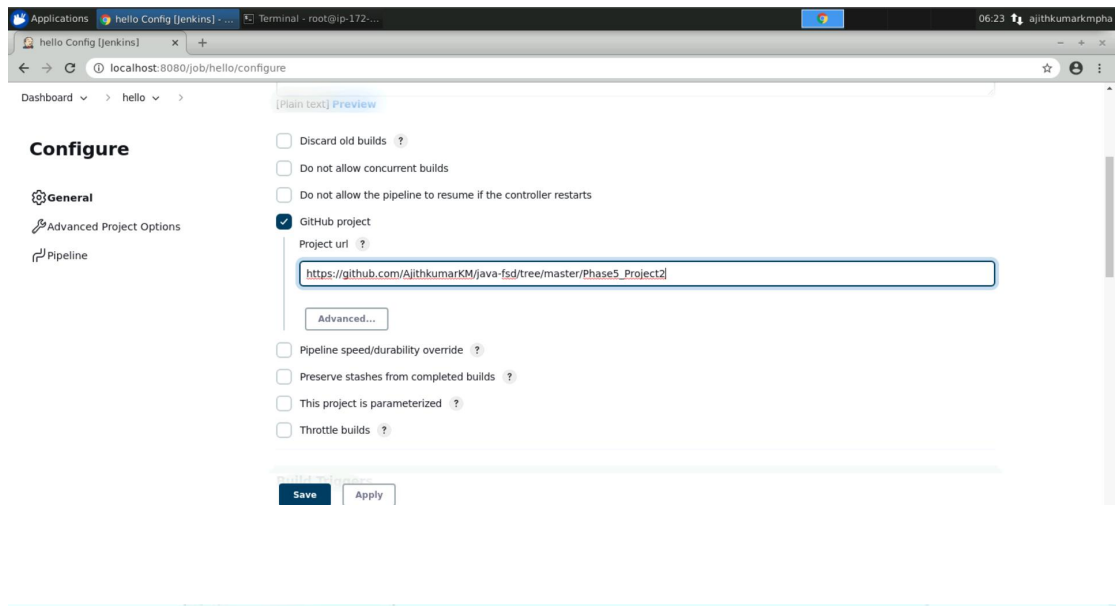
```












```

ec2-user@ip-172-31-30-142:~$
To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.

[ec2-user@ip-172-31-30-142 ~]$ docker node ls
ID                                HOSTNAME                                STATUS    AVAILABILITY
IP1Y MANAGER STATUS ENGINE VERSION
zcys6ecrrwesod9bolj3l9ghez       ip-172-31-22-0.ec2.internal            Ready    Active
20.10.17
8bb7kp5wdravsf6lbbf3z49wc       ip-172-31-25-154.ec2.internal          Ready    Active
20.10.17
o9qvwuhu2ljzy1r0f56dgtgjb       ip-172-31-30-142.ec2.internal          Ready    Active
20.10.17
[ec2-user@ip-172-31-30-142 ~]$ docker service create --name myapp1 --replicas 5 -p 80:80 rmeiappan/myangappimage
hfvnacq3cwpsezxmx7uu0y8z
overall progress: 5 out of 5 tasks
1/5: running [=====]
2/5: running [=====]
3/5: running [=====]
4/5: running [=====]
5/5: running [=====]
verify: Service converged
[ec2-user@ip-172-31-30-142 ~]$ docker service ls
ID                                NAME                                MODE                REPLICAS    IMAGE                                PORTS
hfvnacq3cwp myapp1 replicated 5/5 rmeiappan/myangappimage:latest *:80->80/tcp
[ec2-user@ip-172-31-30-142 ~]$ docker service ps myapp1
ID                                NAME                                IMAGE                                NODE                                DESIRED STATE    CURRENT STATE    ERROR    PORTS
y74m0awkkk6q myapp1.1 rmeiappan/myangappimage:latest ip-172-31-22-0.ec2.internal Running          Running 59 seconds ago
tkjcfzskvj5r myapp1.2 rmeiappan/myangappimage:latest ip-172-31-25-154.ec2.internal Running          Running 59 seconds ago
imt152mb2fjrp myapp1.3 rmeiappan/myangappimage:latest ip-172-31-22-0.ec2.internal Running          Running 59 seconds ago
mlay8mk9kyej2k myapp1.4 rmeiappan/myangappimage:latest ip-172-31-30-142.ec2.internal Running          Running 59 seconds ago
y74m0awkkk6q myapp1.5 rmeiappan/myangappimage:latest ip-172-31-25-154.ec2.internal Running          Running 59 seconds ago
[ec2-user@ip-172-31-30-142 ~]$ docker swarm join --token SWMTKN-1-56ndrlp6sfac9zivz1wmi5sbzfk0xs3rfh125582q
ip-172-31-30-142:2377
"docker swarm join" requires exactly 1 argument.
See 'docker swarm join --help'.

Usage: docker swarm join [OPTIONS] HOST:PORT

Join a swarm as a node and/or manager
[ec2-user@ip-172-31-30-142 ~]$ docker swarm join --token SWMTKN-1-56ndrlp6sfac9zivz1wmi5sbzfk0xs3rfh125582q
ip-172-31-30-142:2377
"docker swarm join" requires exactly 1 argument.
See 'docker swarm join --help'.

Usage: docker swarm join [OPTIONS] HOST:PORT

Join a swarm as a node and/or manager
[ec2-user@ip-172-31-30-142 ~]$

```

A screenshot of a terminal window titled "ec2-user@ip-172-31-22-0:~". The terminal shows the following commands and output:

```
Using username "ec2-user".  
Authenticating with public key "Pair"  
  
 _ | _ | _ |  
 _ | ( _ | /  
 _ | \ _ | _ |  
      Amazon Linux 2 AMI  
  
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-172-31-22-0 ~]$ docker swarm join --token SWMTKN-1-56ndrip6sfac9ziv  
zlvmi5sbzfkoxs3rfhi25582q5vngsp7ro-emyo33wysbl18rm3farsvcao 172.31.30.142:2377  
This node joined a swarm as a worker.  
[ec2-user@ip-172-31-22-0 ~]$
```


The terminal window has standard Windows taskbar elements at the bottom, including a weather widget (77°F, Mostly cloudy), system icons (network, volume, battery), and the date/time (9:23 PM, 10/7/2022).


```
ec2-user@ip-172-31-25-154:~$
Using username "ec2-user".
Authenticating with public key "Pair"

      _ _      _
     _(_)_    / 
    _/_/_/_/  /   Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-25-154 ~]$ docker swarm join --token SWMTKN-1-56ndrip6sfac92
1vzlwmi5sbzfk0xs3rfhi25582q5vngsp7ro-emyoj3wvsbil8rtm3farsvcao 172.31.30.142:237
7
This node joined a swarm as a worker.
[ec2-user@ip-172-31-25-154 ~]$
```

Self learning

Instances | EC2 Managem...

Download PuTTY: latest r...

Myapp

Myapp

Myapp

Not secure | 54.225.48.51

HomeServerProductsNumbersShoppingCartAccountsObservablesTFormsRFormsUsersPosts

Welcome to MyApp !!

Accounts

Pair.ppk

Show all

77°F Mostly cloudy

ENG IN

9:23 PM 10/7/2022

New EC2 Experience
Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances New

Instance Types

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Scheduled Instances

Capacity Reservations

Images

AMIs New

Instances (1/3) Info

Find instance by attribute or tag (case-sensitive)

Connect

Instance state

Actions

Launch instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public I
<input type="checkbox"/>	SwarmWorker2	i-0950f4a0cfa34e06	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d	ec2-52
<input type="checkbox"/>	SwarmWorker1	i-04ac9069ef7cd46ca	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d	ec2-52
<input checked="" type="checkbox"/>	SwarmMaster	i-082d7d54ec8bb129c	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d	ec2-54

Instance: i-082d7d54ec8bb129c (SwarmMaster)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

Instance summary Info

Instance ID

i-082d7d54ec8bb129c (SwarmMaster)

IPv6 address

-

Hostname type

Public IPv4 address

54.225.48.51 | [open address](#)

Instance state

Running

Private IPv4 addresses

172.31.30.142

Public IPv4 DNS

ec2-54-225-48-51.compute-1.amazonaws.com | [open address](#)

Private IP DNS name (IPv4 only)