

Commands To install and run jenkins in Docker:

1. sudo yum update -y
2. sudo amazon-linux-extras install docker
3. sudo service docker start
4. sudo usermod -a -G docker ec2-user
refresh instance
5. docker info
6. docker ps -a
7. docker container run -d --name myjenkins -p 8080:8080 jenkins/jenkins
6. docker logs myjenkins
Note the admin password
7. sudo chmod 777 /var/run/docker.sock

```
ajithkumarmpha@ip-172-31-24-100:~/Desktop$ docker version
docker: 'version' is not a docker command.
See 'docker --help'
ajithkumarmpha@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:///var/run/docker.sock: Get http://%2Fvar%2Frun%2Fdocker.sock/v1.40/version: dial unix /var/run/docker.sock: connect: permission denied
ajithkumarmpha@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
Server: Docker Engine - Community
 Engine:
  Version:           19.03.11
  API version:       1.40 (minimum version 1.12)
  Go version:        go1.13.10
  Git commit:        42e35e61f3
  Built:             Mon Jun 1 09:11:15 2020
```

```
ajithkumarmpha@ip-172-31-24-100:~/Desktop$ sudo su -
root@ip-172-31-24-100:~# docker ps -a
CONTAINER ID        IMAGE               PORTS              COMMAND              NAMES              CREATED
STATUS
994ff81eca19        sebp/elk           "/usr/local/bin/star...  21 hours ago
Exited (130) 20 hours ago
0b35f0dd6911        720e228f2fbe       "/bin/sh -c 'yes | C..."  21 hours ago
Exited (2) 21 hours ago
16b801f1cd4d        720e228f2fbe       "/bin/sh -c 'yes | C..."  21 hours ago
Exited (2) 21 hours ago
f4d6158e8e31        720e228f2fbe       "/bin/sh -c 'yes | C..."  21 hours ago
Exited (2) 21 hours ago
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 jenkins/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 connectivity on endpoint myjenkins (27f0ef08ac1618cf5dc0ab1dclaccabec3a8365457de24a4fb475d914e50f84c): Error starting userland proxy: listen tcp 0.0.0.0:8080: bind: address already in use.
root@ip-172-31-24-100:~# sudo lsof -i -P -n | grep 8080
java                2906      jenkins 16lu  IPv6  25930      0t0  TCP *:8080 (LISTEN)
```

```

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: Beg
inning extraction from war file
2022-10-19 06:02:21.374+0000 [id=1] WARNING o.e.j.s.handler.ContextHandler#s
etContextPath: 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: 408d0139887e27a57b
54ed52e2d92a36731a7e88; jvm 11.0.16.1+1
2022-10-19 06:02:21.930+0000 [id=1] INFO o.e.j.w.StandardDescriptorProces
sor#visitServlet: NO JSP Support for /, did not find org.eclipse.jetty.jsp.Jetty
JspServlet
2022-10-19 06:02:22.005+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManage
r#doStart: Session workerName=node0
2022-10-19 06:02:22.774+0000 [id=1] INFO hudson.WebAppMain#contextInitial
ized: 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#d
oStart: Started w.@19962194{Jenkins v2.374/,file:///var/jenkins_home/war/,AVAIL
ABLE}[/var/jenkins_home/war]
2022-10-19 06:02:22.977+0000 [id=1] INFO o.e.j.server.AbstractConnector#d
oStart: Started ServerConnector@5e8ac0e1(HTTP/1.1, (http/1.1)){0.0.0.0:8080}
2022-10-19 06:02:23.000+0000 [id=1] INFO org.eclipse.jetty.server.Server#
doStart: Started Server@765f05af{STARTING}[10.0.12,sto=0] @3720ms
2022-10-19 06:02:23.003+0000 [id=24] INFO winstone.Logger#logInternal: Win
stone Servlet Engine running: controlPort=disabled

```

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WARNING: All illegal access operations will be denied in a future release
2022-10-19 06:02:25.800+0000 [id=34] INFO jenkins.install.SetupWizard#init
:
*****
*****
*****
Jenkins initial setup is required. An admin user has been created and a password
generated.
Please use the following password to proceed to installation:
c1d35a500994480baa79bac55f66a438
This may also be found at: /var/jenkins_home/secrets/initialAdminPassword
*****
*****
*****
2022-10-19 06:02:41.112+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAt
tained: Completed initialization
2022-10-19 06:02:41.152+0000 [id=23] INFO hudson.lifecycle.Lifecycle#onRea
dy: Jenkins is fully up and running
2022-10-19 06:02:41.295+0000 [id=49] INFO h.m.DownloadService$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: Perfo
rmed the action check updates server successfully at the attempt #1
2022-10-19 06:02:41.301+0000 [id=49] INFO hudson.model.AsyncPeriodicWork#l
ambda$doRun$0: Finished Download metadata. 16,361 ms
root@ip-172-31-24-100:~# sudo chmod 777 /var/run/docker.sock

```