

```
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&insta...

Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1026-aws x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage

System information as of Thu Dec  8 13:03:17 UTC 2022

System load:  0.08984375      Processes:           104
Usage of /:   39.9% of 7.57GB   Users logged in:     1
Memory usage: 63%            IPv4 address for eth0: 172.31.3.14
Swap usage:   0%

10 updates can be applied immediately.
9 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Last login: Thu Dec  8 12:38:59 2022 from 13.233.177.3
ubuntu@ip-172-31-3-14:~$ sudo su
root@ip-172-31-3-14:/home/ubuntu# hostnamectl set-hostname docker
root@ip-172-31-3-14:/home/ubuntu# exec bash
root@docker:/home/ubuntu#
```

i-Od39724cfe85dfc78 (docker)
PublicIPs: 3.110.217.39 PrivateIPs: 172.31.3.14

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Docker
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root@docker:~/jenkins/workspace# ls
Docker
root@docker:~/jenkins/workspace# cd Img2cont
bash: cd: Img2cont: No such file or directory
root@docker:~/jenkins/workspace# ls
Docker
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root@docker:~/jenkins/workspace# ls
Docker
root@docker:~/jenkins/workspace# cd webapp/target
bash: cd: webapp/target: No such file or directory
root@docker:~/jenkins/workspace# cd Docker/webapp/target
root@docker:~/jenkins/workspace/Docker/webapp/target#

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```
FROM tomcat:latest
RUN cp -R /usr/local/tomcat/webapps.dist/* /usr/local/tomcat/webapps
COPY ./*.war /usr/local/tomcat/webapps
```

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Docker
root@docker:~/.jenkins/workspace# cd webapp/target
bash: cd: webapp/target: No such file or directory
root@docker:~/.jenkins/workspace# cd Docker/webapp/target
root@docker:~/.jenkins/workspace/Docker/webapp/target# sudo vim dockerfile
root@docker:~/.jenkins/workspace/Docker/webapp/target# pwd
/root/.jenkins/workspace/Docker/webapp/target
root@docker:~/.jenkins/workspace/Docker/webapp/target#
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ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&insta...
aws Services Search [Alt+S] Mumbai Bhargav L N S N
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root@docker:~/jenkins/workspace/Docker/webapp/target# pwd
/root/.jenkins/workspace/Docker/webapp/target
root@docker:~/jenkins/workspace/Docker/webapp/target# curl -fsSL https://get.docker.com -o get-docker.sh
root@docker:~/jenkins/workspace/Docker/webapp/target# sh get-docker.sh
# Executing docker install script, commit: 4f282167c425347a931ccfd95cc91fab041d414f
+ sh -c apt-get update -qq >/dev/null
+ sh -c DEBIAN_FRONTEND=noninteractive apt-get install -y -qq apt-transport-https ca-certificates curl >/dev/nul
```

i-0d39724cfe85dfc78 (docker)

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```
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&insta...
aws Services Search [Alt+S] Mumbai Bhargav L N S N
OS/Arch: linux/amd64
Context: default
Experimental: true
Server: Docker Engine - Community
Engine:
  Version: 20.10.21
  API version: 1.41 (minimum version 1.12)
  Go version: go1.18.7
  Git commit: 3056208
  Built: Tue Oct 25 17:59:49 2022
  OS/Arch: linux/amd64
  Experimental: false
containerd:
  Version: 1.6.12
  GitCommit: a05d175400b1145e5e6a735a6710579d181e7fb0
runc:
  Version: 1.1.4
  GitCommit: v1.1.4-0-g5fd4c4d
docker-init:
  Version: 0.19.0
  GitCommit: de40ad0
```

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```
root@docker:~/jenkins/workspace/Docker/webapp/target# docker info
Client:
Context:    default
Debug Mode: false
Plugins:
  app: Docker App (Docker Inc., v0.9.1-beta3)
  buildx: Docker Buildx (Docker Inc., v0.9.1-docker)
  compose: Docker Compose (Docker Inc., v2.12.2)
  scan: Docker Scan (Docker Inc., v0.21.0)
Server:
Containers: 0
  Running: 0
  Paused: 0
  Stopped: 0
Images: 0
Server Version: 20.10.21
Storage Driver: overlay2
  Backing Filesystem: extfs
  Supports d_type: true
  Native Overlay Diff: true
userxattr: false
Logging Driver: json-file
Cgroup Driver: systemd
```

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ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&insta...

Services Search [Alt+S]

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Live Restore Enabled: false

```
root@docker:~/jenkins/workspace/Docker/webapp/target# docker --help
Usage: docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Options:
  --config string      Location of client config files (default "/root/.docker")
  -c, --context string  Name of the context to use to connect to the daemon (overrides DOCKER_HOST env
                        var and default context set with "docker context use")
  -D, --debug           Enable debug mode
  -H, --host list       Daemon socket(s) to connect to
  -l, --log-level string Set the logging level ("debug"|"info"|"warn"|"error"|"fatal") (default "info")
  --tls                Use TLS; implied by --tlsverify
  --tlscacert string    Trust certs signed only by this CA (default "/root/.docker/ca.pem")
  --tlscert string       Path to TLS certificate file (default "/root/.docker/cert.pem")
  --tlskey string        Path to TLS key file (default "/root/.docker/key.pem")
  --tlsverify           Use TLS and verify the remote
  -v, --version         Print version information and quit

Management Commands:
  app*      Docker App (Docker Inc., v0.9.1-beta3)
  builder   Manage builds
```

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```
start      Start one or more stopped containers
stats      Display a live stream of container(s) resource usage statistics
stop       Stop one or more running containers
tag         Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
top         Display the running processes of a container
unpause    Unpause all processes within one or more containers
update     Update configuration of one or more containers
version    Show the Docker version information
wait       Block until one or more containers stop, then print their exit codes

Run 'docker COMMAND --help' for more information on a command.

To get more help with docker, check out our guides at https://docs.docker.com/go/guides/
root@docker:~/jenkins/workspace/Docker/webapp/target# docker build -t dockerimage .
Sending build context to Docker daemon 36.86kB
Step 1/3 : FROM tomcat:latest
latest: Pulling from library/tomcat
e96e057aae67: Extracting [----->] 16.71MB/30.43MB
014fa72e018d: Download complete
06768b8afb03: Downloading [----->] 78.22MB/192.4MB
3c12ca51ab80: Download complete
55a6d794ff88: Download complete
c98105279431: Waiting
b1ab501a2026: Waiting
```

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Step 1/3 : FROM tomcat:latest
latest: Pulling from library/tomcat
e96e057aae67: Pull complete
014fa72e018d: Pull complete
06768b8afb03: Pull complete
3c12ca51ab80: Pull complete
55a6d794ff88: Pull complete
c98105279431: Pull complete
b1ab501a2026: Pull complete
Digest: sha256:24617d8a035492d33a732dd6154cc64a86463a4d3157c67c6364b09141dc475a
Status: Downloaded newer image for tomcat:latest
--> 1ca69d1bf49a
Step 2/3 : RUN cp -R /usr/local/tomcat/webapps.dist/* /usr/local/tomcat/webapps
--> Running in 195651ac23f1
Removing intermediate container 195651ac23f1
--> 523c95f122c5
Step 3/3 : COPY ./*.war /usr/local/tomcat/webapps
--> ee63c980f455
Successfully built ee63c980f455
Successfully tagged dockerimage:latest
root@docker:~/jenkins/workspace/Docker/webapp/target# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
dockerimage latest ee63c980f455 20 seconds ago 478MB
tomcat latest 1ca69d1bf49a 3 weeks ago 474MB
root@docker:~/jenkins/workspace/Docker/webapp/target#
```

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aws Services Search [Alt+S] Mumbai Bhargav L N S N

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Removing intermediate container 195651ac23f1
---> 523c85f122c5
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REPOSITORY TAG IMAGE ID CREATED SIZE
dockerimage latest ee63c980f455 20 seconds ago 478MB
tomcat latest 1ca69d1bf49a 3 weeks ago 474MB
root@docker:~/jenkins/workspace/Docker/webapp/target# docker container ls
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
664e7ea7fb15c82391e11091d62b1b375d7b23b521fdd95207b72bc71d46d964 dockerimage "catalina.sh run" 23 seconds ago Up 21 seconds 0.0.0.0:49153->8080/tcp, :::49153->8080/tcp img2container
root@docker:~/jenkins/workspace/Docker/webapp/target# docker commit img2container sathishkumar2312/newimageone
sha256:cc9891fe19ae6d20730fe20168fa7cf4e3569f249d9625b610f983dd48e903b0
root@docker:~/jenkins/workspace/Docker/webapp/target#
```

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6:53 4G

Welcome To DEVOPS Engineering initial Steps of CI CD activity is performed successfully !!!

code is moved from git hub - to jenkins - CI CD process is completed

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