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│ • MobaXterm Personal Edition v22.0 • │

│ (X server, SSH client and network tools) │

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│ → Your computer drives are accessible through the /drives path │

│ → Your DISPLAY is set to 192.168.0.104:0.0 │

│ → When using SSH, your remote DISPLAY is automatically forwarded │

│ → Each command status is specified by a special symbol (v or x) │

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│ • Important: │

│ This is MobaXterm Personal Edition. The Professional edition │

│ allows you to customize MobaXterm for your company: you can add │

│ your own logo, your parameters, your welcome message and generate │

│ either an MSI installation package or a portable executable. │

│ We can also modify MobaXterm or develop the plugins you need. │

│ For more information: https://mobaxterm.mobatek.net/download.html │

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 30/03/2022 ►  01:56.56 ►  /home/mobaxterm ► cd c:

v

 30/03/2022 ►  01:57.00 ►  /drives/c ► cd aws

v

 30/03/2022 ►  01:57.01 ►  /drives/c/aws ► ssh -i "PracticeProject.pem" ubuntu@ec2-3-85-25-231.compute-1.amazonaws.com

Warning: Permanently added 'ec2-3-85-25-231.compute-1.amazonaws.com' (RSA) to the list of known hosts.

Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.11.0-1022-aws x86\_64)

\* Documentation: https://help.ubuntu.com

\* Management: https://landscape.canonical.com

\* Support: https://ubuntu.com/advantage

System information disabled due to load higher than 1.0

104 updates can be applied immediately.

66 of these updates are standard security updates.

To see these additional updates run: apt list --upgradable

Last login: Tue Mar 29 20:05:13 2022 from 45.123.216.233

ubuntu@ip-172-31-87-44:~$ cd Phase5Docker-Master

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ docker swarm init

Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/swarm/init": dial unix /var/run/docker.sock: connect: permission denied

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ sudo chmod 666 /var/run/docker.sock

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ docker swarm init

Error response from daemon: This node is already part of a swarm. Use "docker swarm leave" to leave this swarm and join another one.

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ docker swam leave --force

unknown flag: --force

See 'docker --help'.

Usage: docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Options:

--config string Location of client config files (default "/home/ubuntu/.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 "/home/ubuntu/.docker/ca.pem")

--tlscert string Path to TLS certificate file (default "/home/ubuntu/.docker/cert.pem")

--tlskey string Path to TLS key file (default "/home/ubuntu/.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

buildx\* Docker Buildx (Docker Inc., v0.8.1-docker)

config Manage Docker configs

container Manage containers

context Manage contexts

image Manage images

manifest Manage Docker image manifests and manifest lists

network Manage networks

node Manage Swarm nodes

plugin Manage plugins

scan\* Docker Scan (Docker Inc., v0.17.0)

secret Manage Docker secrets

service Manage services

stack Manage Docker stacks

swarm Manage Swarm

system Manage Docker

trust Manage trust on Docker images

volume Manage volumes

Commands:

attach Attach local standard input, output, and error streams to a running container

build Build an image from a Dockerfile

commit Create a new image from a container's changes

cp Copy files/folders between a container and the local filesystem

create Create a new container

diff Inspect changes to files or directories on a container's filesystem

events Get real time events from the server

exec Run a command in a running container

export Export a container's filesystem as a tar archive

history Show the history of an image

images List images

import Import the contents from a tarball to create a filesystem image

info Display system-wide information

inspect Return low-level information on Docker objects

kill Kill one or more running containers

load Load an image from a tar archive or STDIN

login Log in to a Docker registry

logout Log out from a Docker registry

logs Fetch the logs of a container

pause Pause all processes within one or more containers

port List port mappings or a specific mapping for the container

ps List containers

pull Pull an image or a repository from a registry

push Push an image or a repository to a registry

rename Rename a container

restart Restart one or more containers

rm Remove one or more containers

rmi Remove one or more images

run Run a command in a new container

save Save one or more images to a tar archive (streamed to STDOUT by default)

search Search the Docker Hub for images

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/**

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ docker swarm leave --force

Node left the swarm.

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ sudo docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

dockerwithjenkins latest dc051b4672e7 16 minutes ago 263MB

ubuntu 18.04 b67d6ac264e4 11 days ago 63.2MB

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ docker swarm init

Swarm initialized: current node (xe1k9ulidsqlu3ri4dnmva9bj) is now a manager.

To add a worker to this swarm, run the following command:

docker swarm join --token SWMTKN-1-5ggrzv2gbfivo3lm46tindhbh2080mfvs5solpakj7zze9rpy5-86ml73albx387i0jw5wue5xh8 172.31.87.44:2377

To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ docker node ls

ID HOSTNAME STATUS AVAILABILITY MANAGER STATUS ENGINE VERSION

xe1k9ulidsqlu3ri4dnmva9bj \* ip-172-31-87-44 Ready Active Leader 20.10.14

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ docker service create -p 8081:8081 --name webserve dockerwithjenkins

image dockerwithjenkins:latest could not be accessed on a registry to record

its digest. Each node will access dockerwithjenkins:latest independently,

possibly leading to different nodes running different

versions of the image.

amanjjk57wg73wuzb44ienlux

overall progress: 1 out of 1 tasks

1/1: running [==================================================>]

verify: Service converged

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ docker service ls

ID NAME MODE REPLICAS IMAGE PORTS

amanjjk57wg7 webserve replicated 1/1 dockerwithjenkins:latest \*:8081->8081/tcp

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ curl localhost:80

curl: (7) Failed to connect to localhost port 80: Connection refused

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ sudo chmod 666 /var/run/docker.sock

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ curl localhost:80

curl: (7) Failed to connect to localhost port 80: Connection refused

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ curl 3.85.25.231:80

curl: (7) Failed to connect to 3.85.25.231 port 80: Connection refused

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ curl 3.85.25.231:8080:80

curl: (3) URL using bad/illegal format or missing URL

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ curl 3.85.25.231/8080:80

curl: (7) Failed to connect to 3.85.25.231 port 80: Connection refused

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ curl 3.85.25.231:80

curl: (7) Failed to connect to 3.85.25.231 port 80: Connection refused

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ curl 3.85.25.231:8080/80

<html><head><meta http-equiv='refresh' content='1;url=/login?from=%2F80'/><script>window.location.replace('/login?from=%2F80');</script></head><body style='background-color:white; color:white;'>

Authentication required

<!--

-->

</body></html> ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ docker service ps webserve

ID NAME IMAGE NODE DESIRED STATE CURRENT STATE ERROR PORTS

rahyipfpfqx7 webserve.1 dockerwithjenkins:latest ip-172-31-87-44 Running Running 2 minutes ago

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ docker service scale webserve=3

webserve scaled to 3

overall progress: 3 out of 3 tasks

1/3: running [==================================================>]

2/3: running [==================================================>]

3/3: running [==================================================>]

verify: Service converged

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ docker service ls

ID NAME MODE REPLICAS IMAGE PORTS

amanjjk57wg7 webserve replicated 3/3 dockerwithjenkins:latest \*:8081->8081/tcp

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$ docker service ps webserve

ID NAME IMAGE NODE DESIRED STATE CURRENT STATE ERROR PORTS

rahyipfpfqx7 webserve.1 dockerwithjenkins:latest ip-172-31-87-44 Running Running 3 minutes ago

rrxty4c1ps2b webserve.2 dockerwithjenkins:latest ip-172-31-87-44 Running Running 14 seconds ago

nuoy32n309id webserve.3 dockerwithjenkins:latest ip-172-31-87-44 Running Running 14 seconds ago

ubuntu@ip-172-31-87-44:~/Phase5Docker-Master$