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## Containerisation (Docker)

<https://hub.docker.com/>  
(Repository of all Dockers)

### Task 1 – Install Docker on your System

```
wget -qO- https://get.docker.com | sh  
#runs command to install docker
```

```
docker run -p 8080:8080 -p 50000:50000 jenkins
```

```
docker run --name some-ghost -p 8079:2368 -d ghost
```

```
docker run --name my_solr -d -p 8078:8983 -t solr
```

```
docker rm<container>
```

```
docker rm 2fa456ae399c5431fa08700801b80d25e8481bc3ba685c6190c3423e8cd8fb53
```

```
docker kill <process name> e.g2fa456ae399c
```

TCP Rule to open/configure external ports for containers within firewall

Ghost: 8079

Jenkins: 8080

Solr: 8078

Description	Inbound	Outbound	Tags
Edit			
Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ
Custom TCP Rule	TCP	8080	0.0.0.0/0
Custom TCP Rule	TCP	8080	:::0
Custom TCP Rule	TCP	8078	0.0.0.0/0
Custom TCP Rule	TCP	8078	:::0
All traffic	All	All	sg-631c860a (default)
SSH	TCP	22	0.0.0.0/0
SSH	TCP	22	:::0
Custom TCP Rule	TCP	8079	0.0.0.0/0
Custom TCP Rule	TCP	8079	:::0

<http://ec2-35-176-46-111.eu-west-2.compute.amazonaws.com:8079/>

← → ↻ ec2-35-176-46-111.eu-west-2.compute.amazonaws.com:8079 ☆ ⓘ

≡ MENU

# Ghost

Just a blogging platform.

## Welcome to Ghost

You're live! Nice. We've put together a little post to introduce you to the Ghost editor and get you started. You can manage your content by »

Ghost Owner on Getting Started | 24 MAY 2017

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## Task 2 Installed Jenkins Container

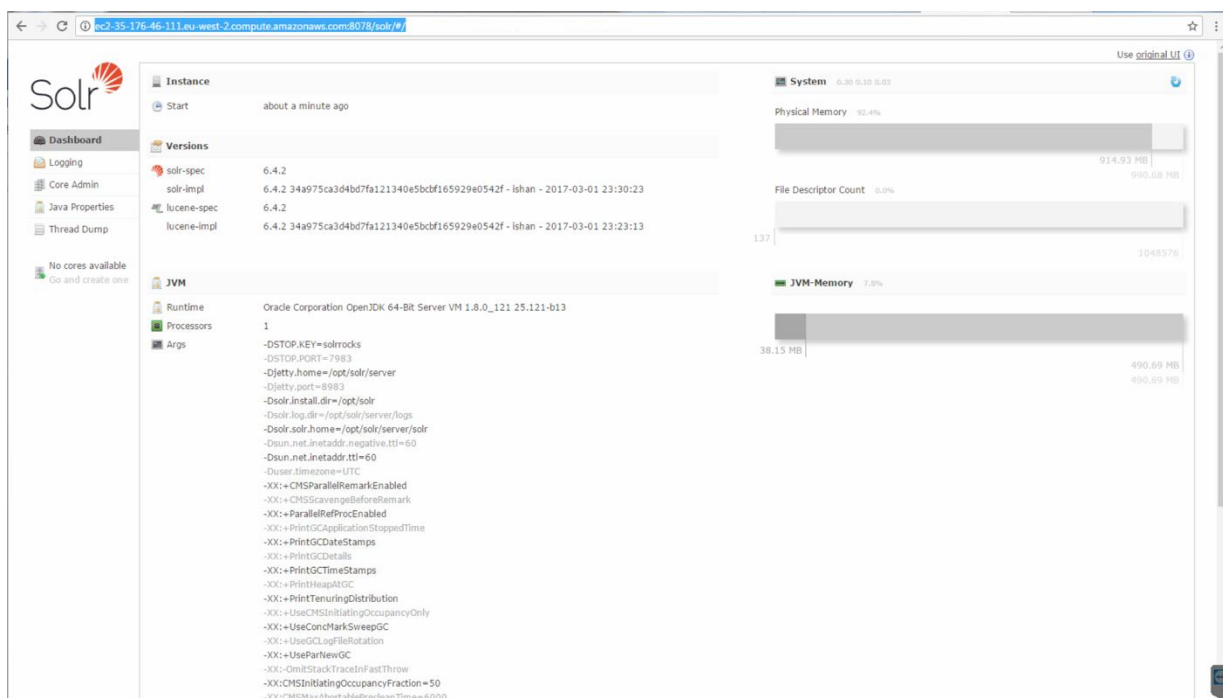
`docker run -p 8080:8080 -p 50000:50000 jenkins`

<http://ec2-35-176-46-111.eu-west-2.compute.amazonaws.com:8080/>



<http://ec2-35-176-46-111.eu-west-2.compute.amazonaws.com:8078/>

`$ docker run --name my_solr -d -p 8078:8983 -t solr`



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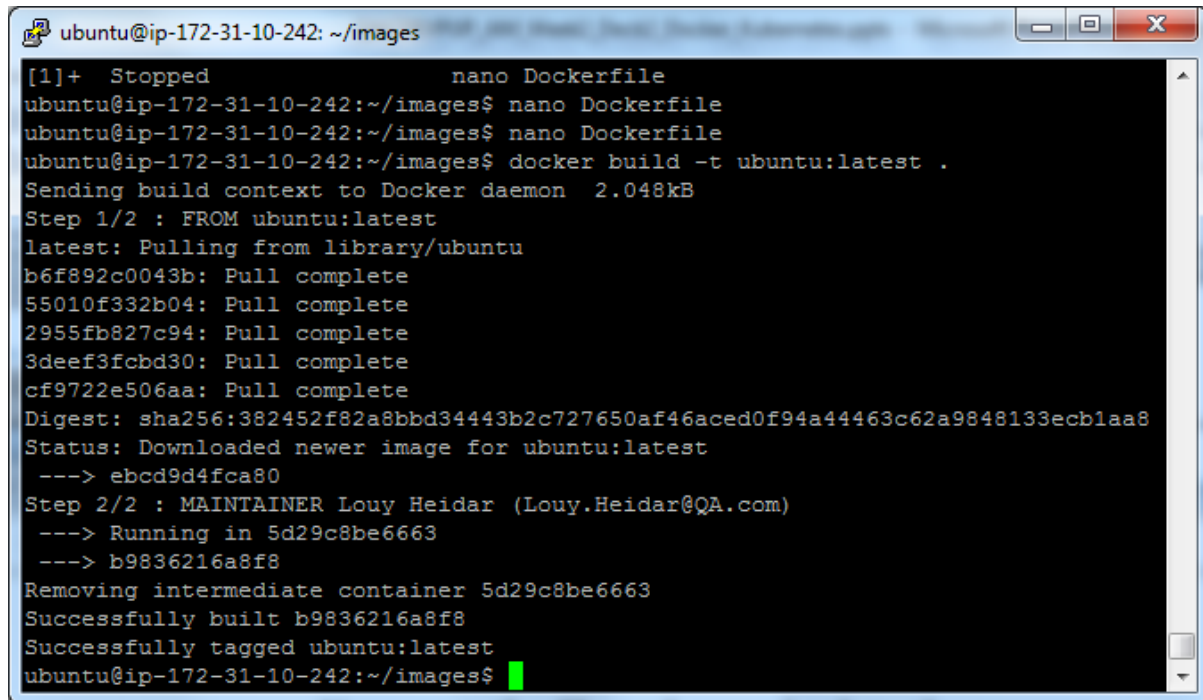
### Task 3 – Creating a Docker Environment

Starting with base image from Dockerfile

#### Docker build commands:

```
$docker build -t ubuntu:latest
```

-t is the Docker image tag



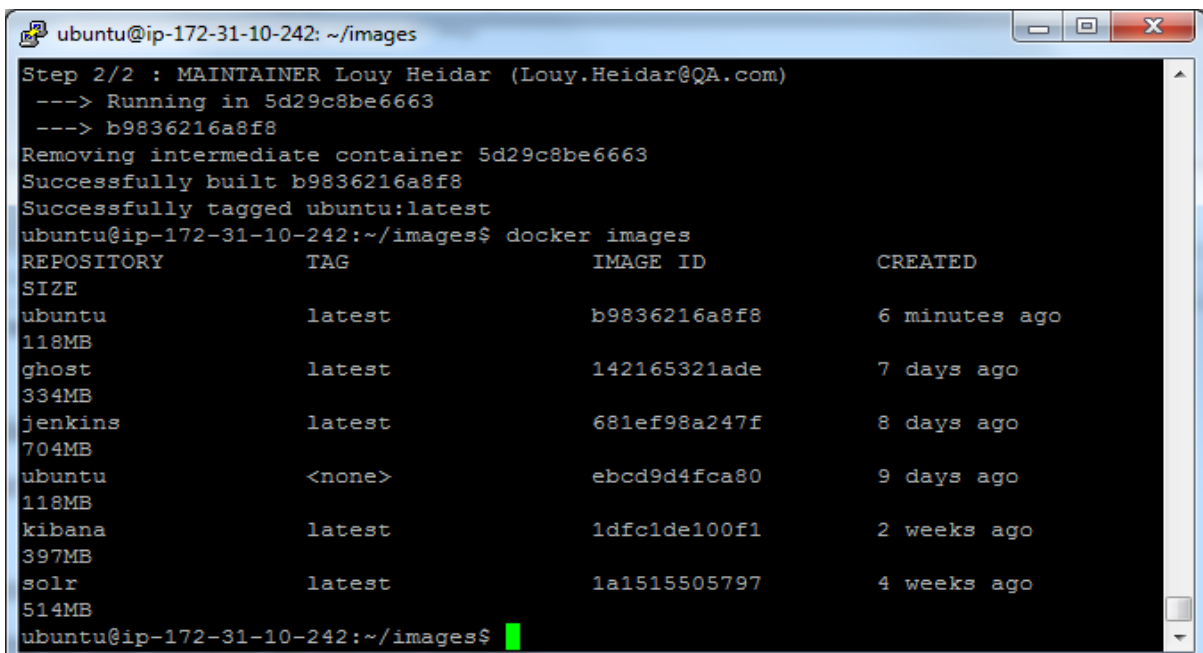
```
ubuntu@ip-172-31-10-242: ~/images
[1]+  Stopped                  nano Dockerfile
ubuntu@ip-172-31-10-242:~/images$ nano Dockerfile
ubuntu@ip-172-31-10-242:~/images$ nano Dockerfile
ubuntu@ip-172-31-10-242:~/images$ docker build -t ubuntu:latest .
Sending build context to Docker daemon  2.048kB
Step 1/2 : FROM ubuntu:latest
latest: Pulling from library/ubuntu
b6f892c0043b: Pull complete
55010f332b04: Pull complete
2955fb827c94: Pull complete
3deef3fcbd30: Pull complete
cf9722e506aa: Pull complete
Digest: sha256:382452f82a8bbd34443b2c727650af46aced0f94a44463c62a9848133ecb1aa8
Status: Downloaded newer image for ubuntu:latest
--> ebcd9d4fca80
Step 2/2 : MAINTAINER Louy Heidar (Louy.Heidar@QA.com)
--> Running in 5d29c8be6663
--> b9836216a8f8
Removing intermediate container 5d29c8be6663
Successfully built b9836216a8f8
Successfully tagged ubuntu:latest
ubuntu@ip-172-31-10-242:~/images$
```

#### List all images

```
$ docker images
```

#### Basic Principles:

A running image is a container



```
ubuntu@ip-172-31-10-242: ~/images
Step 2/2 : MAINTAINER Louy Heidar (Louy.Heidar@QA.com)
--> Running in 5d29c8be6663
--> b9836216a8f8
Removing intermediate container 5d29c8be6663
Successfully built b9836216a8f8
Successfully tagged ubuntu:latest
ubuntu@ip-172-31-10-242:~/images$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED
SIZE
ubuntu              latest             b9836216a8f8       6 minutes ago
118MB
ghost               latest             142165321ade       7 days ago
334MB
jenkins             latest             681ef98a247f       8 days ago
704MB
ubuntu              <none>             ebcd9d4fca80       9 days ago
118MB
kibana              latest             1dfc1de100f1       2 weeks ago
397MB
solr                latest             1a1515505797       4 weeks ago
514MB
ubuntu@ip-172-31-10-242:~/images$
```

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### #Lists the available Docker images

sudo docker ps

### #interacts with the terminal inside ubuntu container

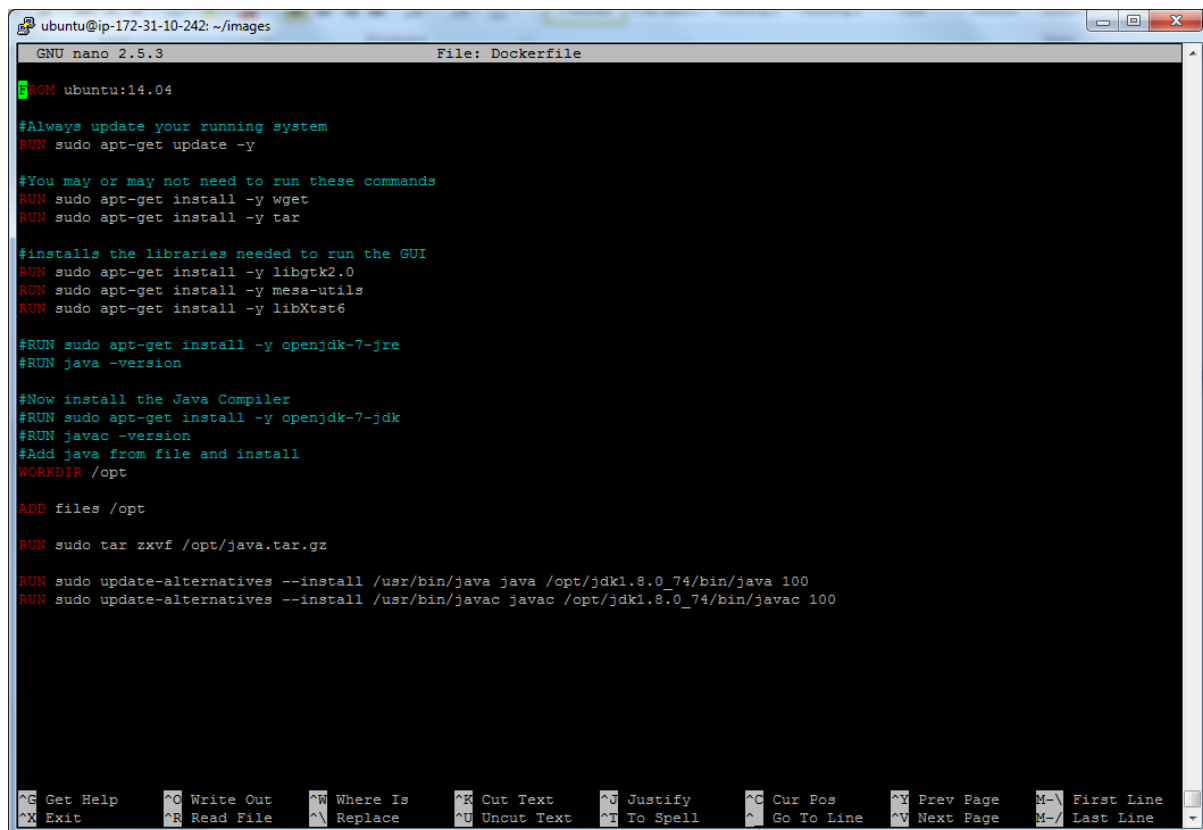
sudo docker run -ti ubuntu bash

### Keyboard Shortcut:

Ctrl PQ

#switching to the AWS control terminal

### Dockers file for installing Java:

A screenshot of a terminal window showing a Dockerfile being edited in the nano text editor. The terminal title is 'ubuntu@ip-172-31-10-242: ~/images'. The Dockerfile content includes instructions to update the system, install wget and tar, install GUI libraries (libgtk2.0, mesa-utils, libXtst6), install the OpenJDK 7 runtime and verify its version, install the Java compiler (JDK 7), verify its version, add the Java files to the /opt directory, and update the system alternatives to use the installed Java and javac binaries. The bottom of the window shows nano editor shortcuts like ^G Get Help, ^O Write Out, etc.

```
ubuntu@ip-172-31-10-242: ~/images
GNU nano 2.5.3 File: Dockerfile

FROM ubuntu:14.04

#Always update your running system
RUN sudo apt-get update -y

#You may or may not need to run these commands
RUN sudo apt-get install -y wget
RUN sudo apt-get install -y tar

#installs the libraries needed to run the GUI
RUN sudo apt-get install -y libgtk2.0
RUN sudo apt-get install -y mesa-utils
RUN sudo apt-get install -y libXtst6

#RUN sudo apt-get install -y openjdk-7-jre
#RUN java -version

#Now install the Java Compiler
#RUN sudo apt-get install -y openjdk-7-jdk
#RUN javac -version
#Add java from file and install
WORKDIR /opt

ADD files /opt

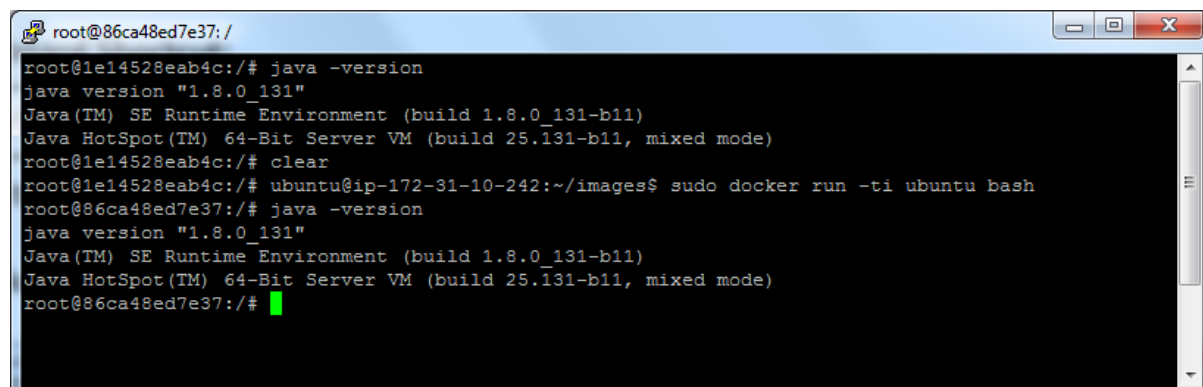
RUN sudo tar xzvf /opt/java.tar.gz

RUN sudo update-alternatives --install /usr/bin/java java /opt/jdk1.8.0_74/bin/java 100
RUN sudo update-alternatives --install /usr/bin/javac javac /opt/jdk1.8.0_74/bin/javac 100

^G Get Help  ^O Write Out  ^W Where Is  ^K Cut Text   ^J Justify    ^C Cur Pos   ^Y Prev Page  M- First Line
^X Exit      ^R Read File  ^_ Replace   ^U Uncut Text ^T To Spell   ^G Go To Line ^V Next Page  M- Last Line
```

### Java Version Build:

\$ java -version

A screenshot of a terminal window showing the output of the 'java -version' command. The terminal title is 'root@86ca48ed7e37: /'. The output shows the Java version as '1.8.0\_131' and the runtime environment as 'Java(TM) SE Runtime Environment (build 1.8.0\_131-b11)'. The terminal also shows the user running 'clear' and then 'sudo docker run -ti ubuntu bash' to switch to a new terminal session, where they run 'java -version' again, showing the same output.

```
root@86ca48ed7e37: /
root@1e14528eab4c:/# java -version
java version "1.8.0_131"
Java(TM) SE Runtime Environment (build 1.8.0_131-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.131-b11, mixed mode)
root@1e14528eab4c:/# clear
root@1e14528eab4c:/# ubuntu@ip-172-31-10-242:~/images$ sudo docker run -ti ubuntu bash
root@86ca48ed7e37:/# java -version
java version "1.8.0_131"
Java(TM) SE Runtime Environment (build 1.8.0_131-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.131-b11, mixed mode)
root@86ca48ed7e37:/#
```

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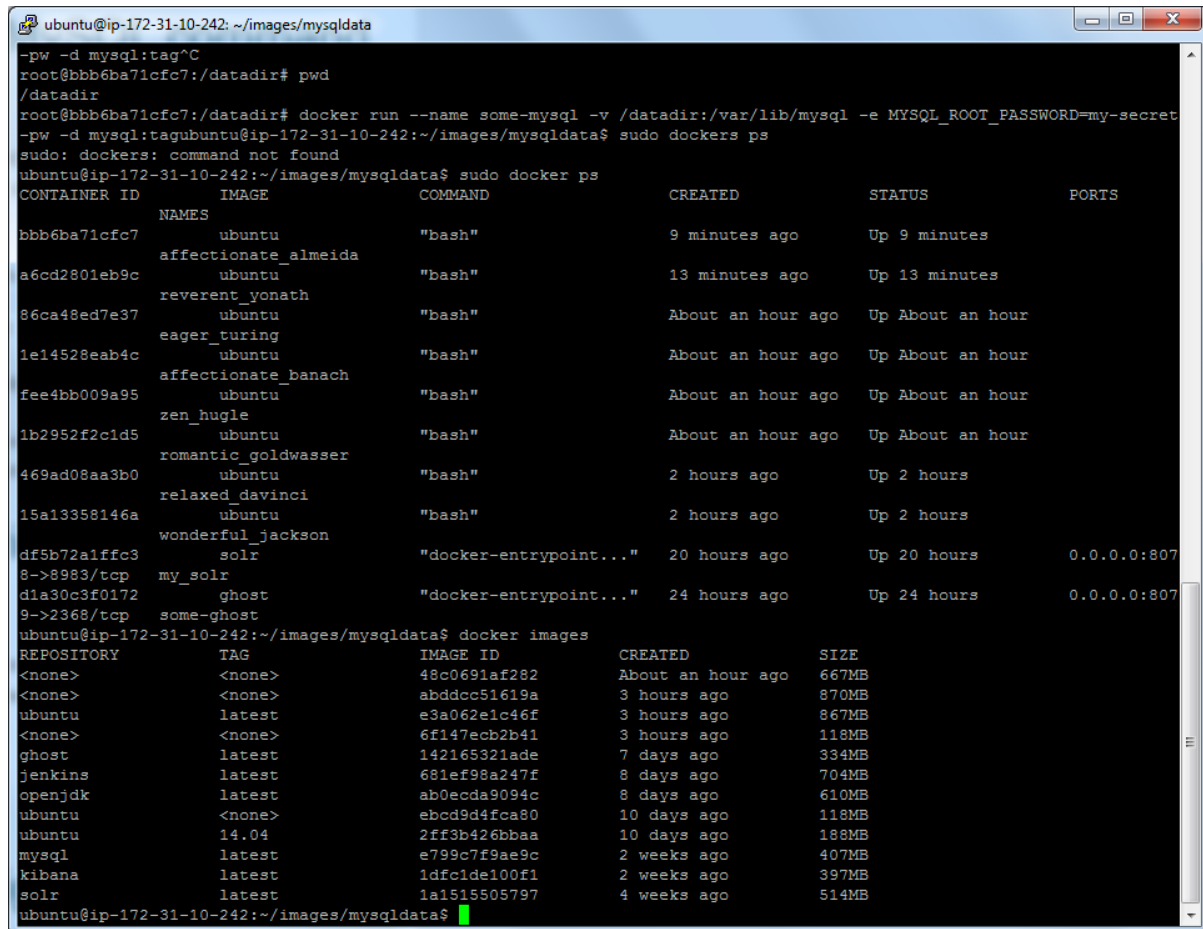
## Useful Commands

```
docker pull mysql
rm -rflampp
```

Deletes all files and folders contained in the directory.

## Encountered Issue:

Many containers have created with <none> tag, research required for reason



```
ubuntu@ip-172-31-10-242: ~/images/mysqldata
-pw -d mysql:tag^C
root@bbb6ba71cfc7:/datadir# pwd
/datadir
root@bbb6ba71cfc7:/datadir# docker run --name some-mysql -v /datadir:/var/lib/mysql -e MYSQL_ROOT_PASSWORD=my-secret
-pw -d mysql:tagubuntu@ip-172-31-10-242:~/images/mysqldata$ sudo dockers ps
sudo: dockers: command not found
ubuntu@ip-172-31-10-242:~/images/mysqldata$ sudo docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED            STATUS              PORTS
bbb6ba71cfc7       ubuntu             "bash"                  9 minutes ago     Up 9 minutes
a6cd2801eb9c       affectionate_almeida ubuntu             "bash"                  13 minutes ago    Up 13 minutes
86ca48ed7e37       reverent_yonath    ubuntu             "bash"                  About an hour ago Up About an hour
eager_turing
1e14528eab4c       ubuntu             "bash"                  About an hour ago Up About an hour
affectionate_banach
fee4bb009a95       ubuntu             "bash"                  About an hour ago Up About an hour
zen_hugle
1b2952f2c1d5       ubuntu             "bash"                  About an hour ago Up About an hour
romantic_goldwasser
469ad08aa3b0       ubuntu             "bash"                  2 hours ago       Up 2 hours
relaxed_davinci
15a13358146a       ubuntu             "bash"                  2 hours ago       Up 2 hours
wonderful_jackson
df5b72a1ffc3       solr               "docker-entrypoint..." 20 hours ago      Up 20 hours        0.0.0.0:807
8->8983/tcp      my_solr
d1a30c3f0172     ghost             "docker-entrypoint..." 24 hours ago      Up 24 hours        0.0.0.0:807
9->2368/tcp      some-ghost
ubuntu@ip-172-31-10-242:~/images/mysqldata$ docker images
REPOSITORY          TAG                IMAGE ID            CREATED            SIZE
<none>              <none>            48c0691af282       About an hour ago 667MB
<none>              <none>            abddcc51619a       3 hours ago      870MB
ubuntu              latest             e3a062e1c46f       3 hours ago      867MB
<none>              <none>            6f147ecb2b41       3 hours ago      118MB
ghost               latest             142165321ade       7 days ago       334MB
jenkins             latest             681ef98a247f       8 days ago       704MB
openjdk             latest             ab0ecda9094c       8 days ago       610MB
ubuntu              <none>            ebcd9d4fca80       10 days ago      118MB
ubuntu              14.04             2ff3b426bbaa       10 days ago      188MB
mysql               latest             e799c7f9ae9c       2 weeks ago      407MB
kibana              latest             1dfc1de100f1       2 weeks ago      397MB
solr                 latest             1a1515505797       4 weeks ago      514MB
ubuntu@ip-172-31-10-242:~/images/mysqldata$
```

## Work Around:

<none>:<none> are known as intermediate tags

```
docker rmi $(docker images -f "dangling=true" -q)
```

The above command can be used to clean up dangling images since Docker doesn't have an automatic garbage collection system

#Remove containers by image ID

```
docker rmi <image-id>
```

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#Display all containers

\$ docker images

```
^Cubuntu@ip-172-31-10-242:~$ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
ubuntu	latest	e3a062e1c46f	20 hours ago	867MB
ghost	latest	142165321ade	8 days ago	334MB
jenkins	latest	681ef98a247f	9 days ago	704MB
ubuntu	14.04	2ff3b426bbaa	10 days ago	188MB
mysql	latest	e799c7f9ae9c	2 weeks ago	407MB
kibana	latest	1dfc1de100f1	2 weeks ago	397MB
solr	latest	1a1515505797	4 weeks ago	514MB

dockerps

#Display all running containers

dockerps-a

## Task 4 – Createown linked container

### Approach1 – to be continued

#Created new directory

Sudomkdirmysqldata

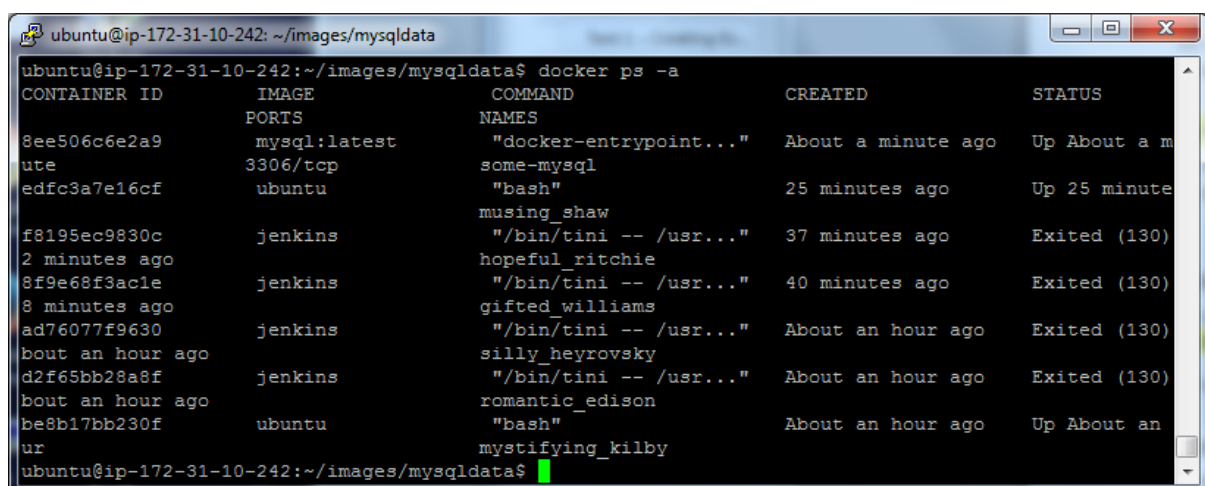
Reason: To create a data directory on the host system (outside the container) and to mount this to a directory visible from inside the container.

# Run the container for my MySQL mounts new volume (-v). Also sets and the directory locations specified in addition MySQL database properties such as root password for the associated container.

```
docker run --name some-mysql -v /home/ubuntu/images/mysqldata:/var/lib/mysql -e  
MYSQL_ROOT_PASSWORD=testpassword -d mysql:latest
```

\$ dockerps-a

#Shows only running container by default



```
ubuntu@ip-172-31-10-242: ~/images/mysqldata$ docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
8ee506c6e2a9	mysql:latest	"docker-entrypoint..."	About a minute ago	Up About a m
ute	3306/tcp	some-mysql		
edfc3a7e16cf	ubuntu	"bash"	25 minutes ago	Up 25 minute
f8195ec9830c	jenkins	musing_shaw		
2 minutes ago		"/bin/tini -- /usr..."	37 minutes ago	Exited (130)
8f9e68f3ac1e	jenkins	hopeful_ritchie		
8 minutes ago		"/bin/tini -- /usr..."	40 minutes ago	Exited (130)
ad76077f9630	jenkins	gifted williams		
bout an hour ago		"/bin/tini -- /usr..."	About an hour ago	Exited (130)
d2f65bb28a8f	jenkins	silly_heyrovsky		
bout an hour ago		"/bin/tini -- /usr..."	About an hour ago	Exited (130)
be8b17bb230f	ubuntu	romantic_edison		
ur		"bash"	About an hour ago	Up About an
		mystifying_kilby		

MySQL:latest conainer has been created and running in background

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Creating File to be shared between containers

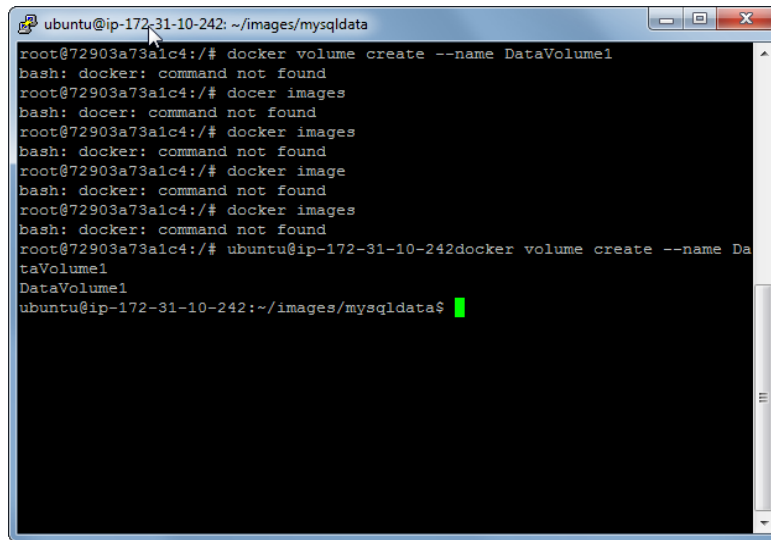
```
sudo bash -c 'echo "hello" > 'Example1.txt'
```

**Approach 2:**

**Share Data between Docker Container by creating an Independent Volume**

**1) Command to add a volume named DataVolume1:**

```
docker volume create --name DataVolume1
```

A terminal window titled 'ubuntu@ip-172-31-10-242: ~/images/mysqldata' shows a series of failed commands: 'docker volume create --name DataVolume1', 'docker images', and 'docker image'. The user then enters 'docker volume create --name DataVolume1' and the command is successful. The prompt changes to 'DataVolume1' and then back to the user's prompt 'ubuntu@ip-172-31-10-242:~/images/mysqldata\$' with a green cursor.

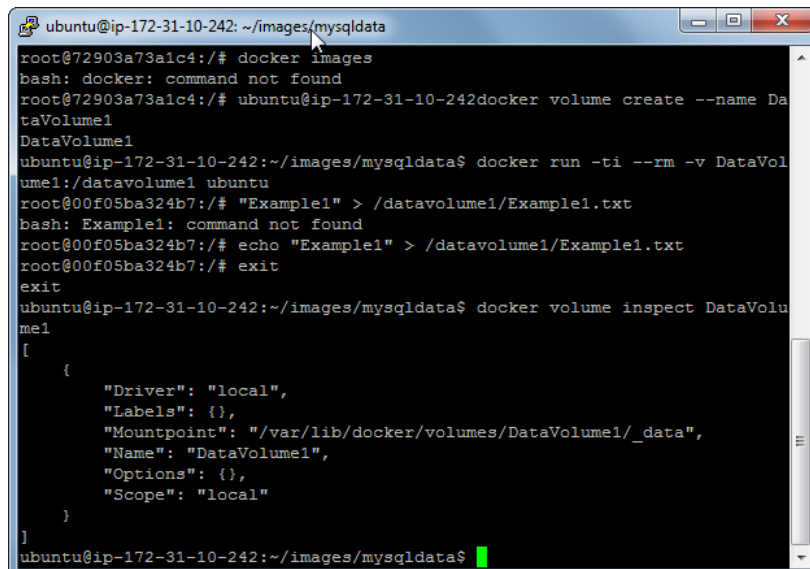
```
ubuntu@ip-172-31-10-242: ~/images/mysqldata
root@72903a73a1c4:/# docker volume create --name DataVolume1
bash: docker: command not found
root@72903a73a1c4:/# docker images
bash: docker: command not found
root@72903a73a1c4:/# docker image
bash: docker: command not found
root@72903a73a1c4:/# docker images
bash: docker: command not found
root@72903a73a1c4:/# docker image
bash: docker: command not found
root@72903a73a1c4:/# docker images
bash: docker: command not found
root@72903a73a1c4:/# ubuntu@ip-172-31-10-242docker volume create --name DataVolume1
DataVolume1
ubuntu@ip-172-31-10-242:~/images/mysqldata$
```

Volume name is displayed, showing that command was successful.

**Command:**

```
docker run -ti --rm -v DataVolume1:/datavolume1 ubuntu
```

**2) Verifying that the volume is present on the system with docker volume inspect**

A terminal window titled 'ubuntu@ip-172-31-10-242: ~/images/mysqldata' shows the user running 'docker volume inspect DataVolume1'. The output is a JSON array containing details about the volume. The user then runs 'exit' and returns to the host prompt 'ubuntu@ip-172-31-10-242:~/images/mysqldata\$' with a green cursor.

```
ubuntu@ip-172-31-10-242: ~/images/mysqldata
root@72903a73a1c4:/# docker images
bash: docker: command not found
root@72903a73a1c4:/# ubuntu@ip-172-31-10-242docker volume create --name DataVolume1
DataVolume1
ubuntu@ip-172-31-10-242:~/images/mysqldata$ docker run -ti --rm -v DataVolume1:/datavolume1 ubuntu
root@00f05ba324b7:/# "Example1" > /datavolume1/Example1.txt
bash: Example1: command not found
root@00f05ba324b7:/# echo "Example1" > /datavolume1/Example1.txt
root@00f05ba324b7:/# exit
exit
ubuntu@ip-172-31-10-242:~/images/mysqldata$ docker volume inspect DataVolume1
[
  {
    "Driver": "local",
    "Labels": {},
    "Mountpoint": "/var/lib/docker/volumes/DataVolume1/_data",
    "Name": "DataVolume1",
    "Options": {},
    "Scope": "local"
  }
]
ubuntu@ip-172-31-10-242:~/images/mysqldata$
```

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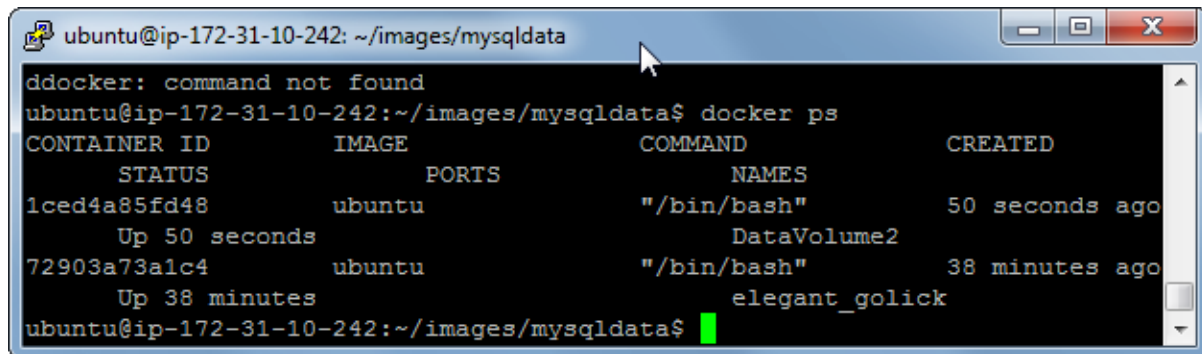
### 3) Running a new container and attaching DataVolume1

#### Commands:

suubuntu

docker run --name DataVolume2 --rm -ti -v DataVolume1:/datavolume1 ubuntu

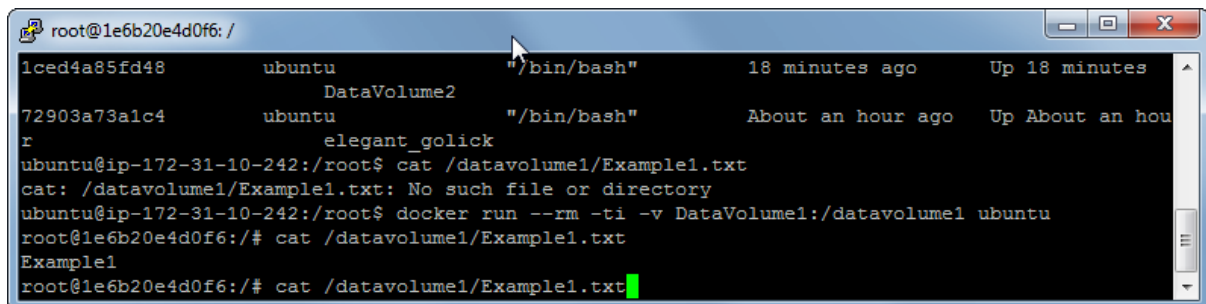
docker ps

A terminal window titled 'ubuntu@ip-172-31-10-242: ~/images/mysqldata' showing the output of the 'docker ps' command. The output lists two containers: '1ced4a85fd48' (ubuntu, DataVolume2) and '72903a73a1c4' (ubuntu, elegant\_golick).

CONTAINER ID	IMAGE	COMMAND	CREATED
1ced4a85fd48	ubuntu	"/bin/bash"	50 seconds ago
72903a73a1c4	ubuntu	"/bin/bash"	38 minutes ago

Listing the processes with a different process ID for each container

Starting a new container and attach DataVolume1:

A terminal window titled 'root@1e6b20e4d0f6: /' showing the output of 'docker ps' and 'docker run' commands. It also shows the creation of a file 'Example1.txt' in the '/datavolume1' directory.

```
1ced4a85fd48      ubuntu      "/bin/bash"      18 minutes ago   Up 18 minutes
DataVolume2
72903a73a1c4      ubuntu      "/bin/bash"      About an hour ago Up About an hour
elegant_golick
ubuntu@ip-172-31-10-242:/root$ cat /datavolume1/Example1.txt
cat: /datavolume1/Example1.txt: No such file or directory
ubuntu@ip-172-31-10-242:/root$ docker run --rm -ti -v DataVolume1:/datavolume1 ubuntu
root@1e6b20e4d0f6:/# cat /datavolume1/Example1.txt
Example1
root@1e6b20e4d0f6:/# cat /datavolume1/Example1.txt
```

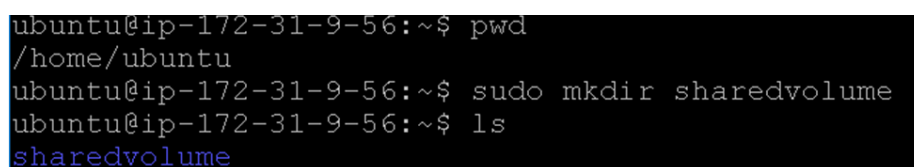
The above steps demonstrate a created new volume, attaching it to a container, and then verifying its persistence via the create new Example1 file.

#### Approach 3:

##### Creating own linked container using a shared folder location

- 1) Creating directory to store the data in host volume i.e location which can be accessed by both via php and mysql containers.

sudo mkdir sharedvolume

A terminal window showing the execution of 'pwd', 'mkdir sharedvolume', and 'ls' commands.

```
ubuntu@ip-172-31-9-56:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-9-56:~$ sudo mkdir sharedvolume
ubuntu@ip-172-31-9-56:~$ ls
sharedvolume
```



- 2) Creating and running the mysql container with the associated path to the shared volume location which sets the mysql root password and the version number for associated container.

```
sudo docker run --name mysql -v /home/ubuntu/sharedvolume:/var/lib/shared --e
MYSQL_ROOT_PASSWORD=testpass -d mysql:latest
```

```
ubuntu@ip-172-31-9-56:~$ sudo docker run --name mysql2 -v /home/ubuntu/sharedvol
ume:/var/lib/shared -e MYSQL_ROOT_PASSWORD=testpass -d mysql:latest
5b326be092075c0c9d3ec11b02439f17898516d5c5398735aabe2c6fcd5d670
ubuntu@ip-172-31-9-56:~$ pwd
/home/ubuntu
```

- 3) 3) Runs/checks the current processes for created containers

Sudo docker ps

```
root@c08e774c49a7:/var/lib# ubuntu@ip-172-31-9-56:~/sharedvolume$ sudo docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED
STATUS            PORTS              NAMES
5b326be09207        mysql:latest       "docker-entrypoint..." 13 minutes ago
Up 13 minutes      3306/tcp           mysql2
c08e774c49a7        php:latest         "docker-php-entryp..." 35 minutes ago
Up 35 minutes      sleepy_brattain
5897fb9222da        mysql:latest       "docker-entrypoint..." 38 minutes ago
Up 38 minutes      3306/tcp           myupdatedsql
5695f6b3ee5e        mysql:latest       "docker-entrypoint..." 44 minutes ago
Up 44 minutes      3306/tcp           some-mysql
b1ec04a68140        php               "docker-php-entryp..." About an hour a
Up About an hour   jovial_booth
278cfl8d1f7c        ubuntu            "/bin/bash"         About an hour a
Up About an hour   frosty_goldwasser
```

Executing the interactive terminal inside a container using exec and containerID (c08e774c49a7)

```
ubuntu@ip-172-31-9-56:~/sharedvolume$ sudo docker exec -ti c08e774c49a7 bash
root@c08e774c49a7:/# ls
bin    datavolumel1  etc    lib          media  opt    root  sbin  sys  usr
boot  dev           home  lib64       mnt    proc  run   srv   tmp  var
```

- 4) Running the php container and mounting a directory to new directory in php file path

```
ubuntu@ip-172-31-9-56:~/sharedvolume$ sudo docker run --name phpupdatev2 -ti -v /home/ubuntu/sharedvolume:/var/lib/shared php:
ash
root@a140bbfa4af0:/# cd var lib/shared
root@a140bbfa4af0:/var# ls
backups  cache  lib  local  lock  log  mail  opt  run  spool  tmp
root@a140bbfa4af0:/var# cd lib
root@a140bbfa4af0:/var/lib# ls
apt  dpkg  initscripts  insserv  misc  pam  shared  systemd  update-rc.d  urandom
root@a140bbfa4af0:/var/lib# cd shared
root@a140bbfa4af0:/var/lib/shared# ls
Sharedfile.txt
```

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## Task 5 – Create your own docker-compose file

Commands used:

# Install docker

wget -qO- https://get.docker.com | sh

#Creating the .yml file to execute the containers as separate processes

sudo touch docker-compose.yml

#Running the docker compose file

sudo docker-compose up -d

### Problem encountered:

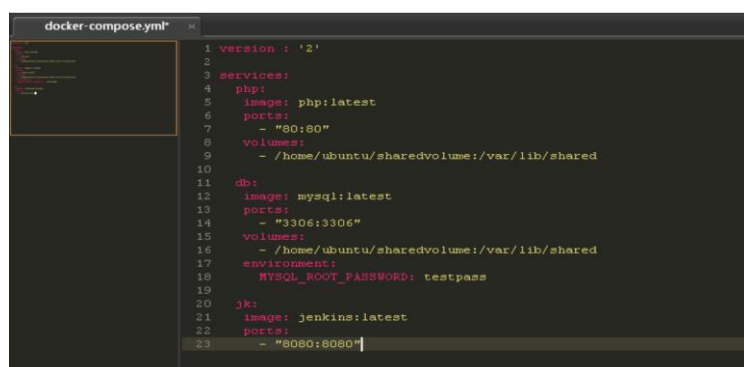
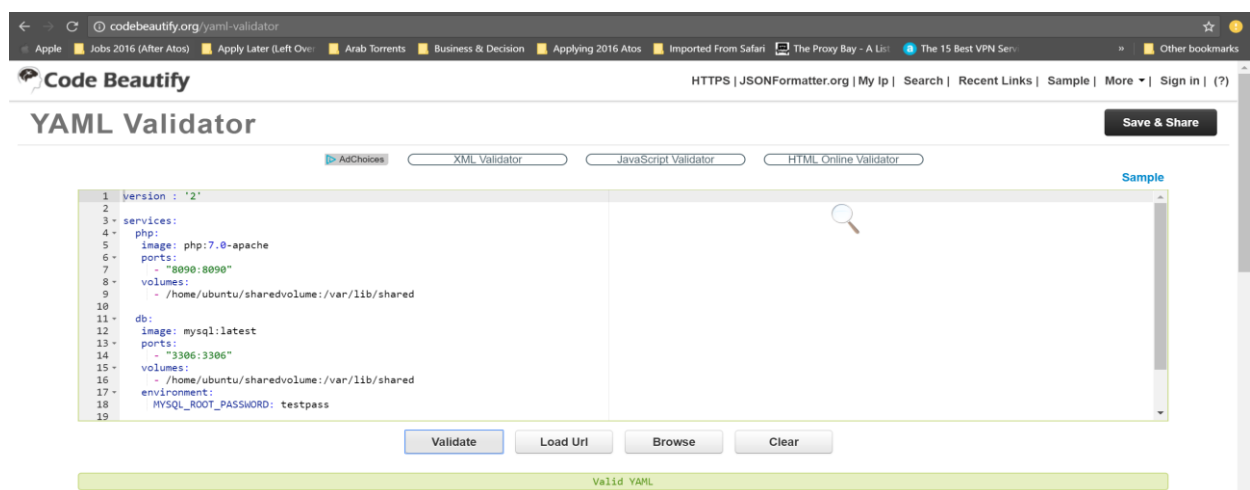
PHP container was not running and displaying as a separate process after executing the docker-compose.yml file. Only the mysql container displayed a process ID.

### Troubleshooting & Solution:

1) Added another separate docker container (Jenkins) to the 'docker-compose.yml' file to test and see if that container was running successfully and displayed a separate process.

Result: Jenkins container successfully displayed (Process ID: b37283936262)

2) Online YAML Validator was used to troubleshoot any code related parsing issues. Correct spacing and indentation was very critical, any other format would result in parsing errors and unsuccessful executions



3) Sublime text (Text editor) used to troubleshoot ensure that spaces have been removed and file is formatted to parse and successfully run

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#### 4) docker-compose.yml

Php:7.0-apache

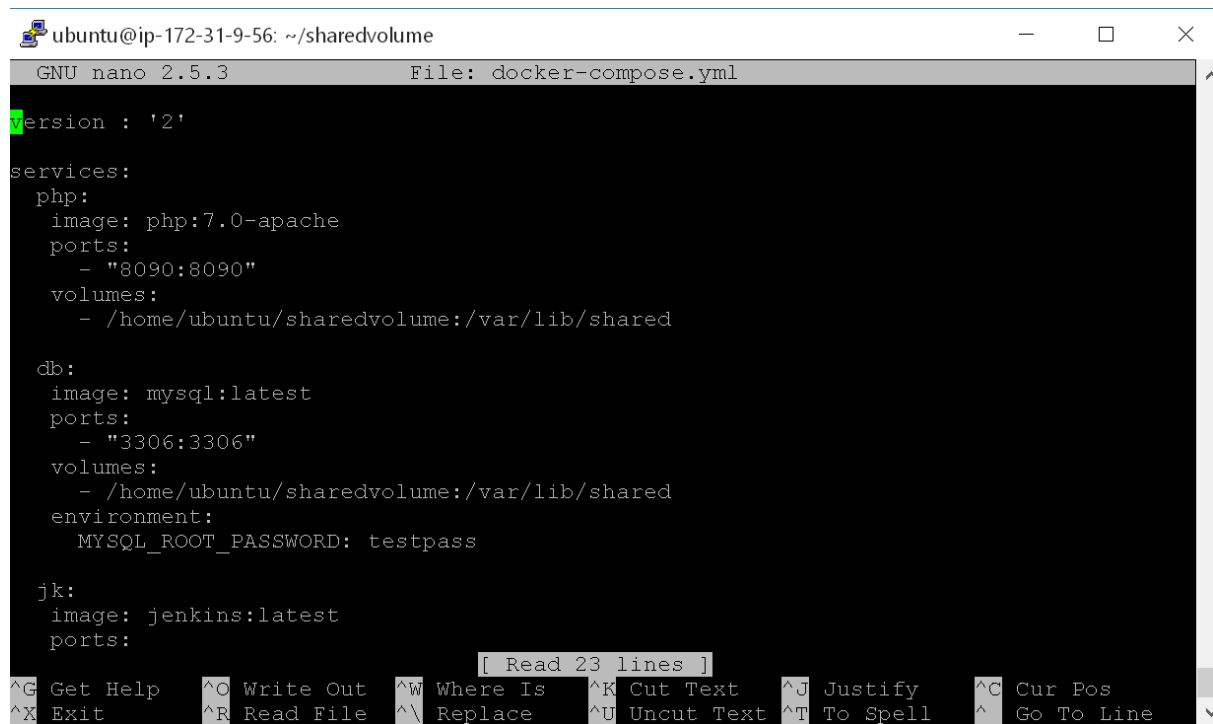
mysql:latest

Jenkins:latest

Above Containers set to run once the .yml file is excuted.

#Running the docker compose file

sudo docker-compose up -d



The screenshot shows a terminal window with the title bar 'ubuntu@ip-172-31-9-56: ~/sharedvolume'. The editor is GNU nano 2.5.3, editing 'docker-compose.yml'. The file content is as follows:

```
version : '2'

services:
  php:
    image: php:7.0-apache
    ports:
      - "8090:8090"
    volumes:
      - /home/ubuntu/sharedvolume:/var/lib/shared

  db:
    image: mysql:latest
    ports:
      - "3306:3306"
    volumes:
      - /home/ubuntu/sharedvolume:/var/lib/shared
    environment:
      MYSQL_ROOT_PASSWORD: testpass

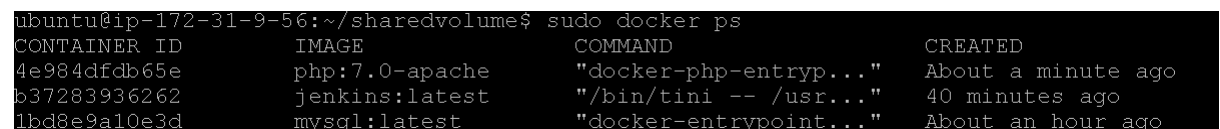
  jk:
    image: jenkins:latest
    ports:
```

The bottom of the terminal shows a status bar with various keyboard shortcuts like ^G Get Help, ^O Write Out, etc.

#List all the containers as separate processes

#All 3 containers are running successfully

sudo docker ps



The screenshot shows the output of the 'sudo docker ps' command in a terminal window:

```
ubuntu@ip-172-31-9-56:~/sharedvolume$ sudo docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED
4e984dfdb65e       php:7.0-apache     "docker-php-entryp..." About a minute ago
b37283936262       jenkins:latest     "/bin/tini -- /usr..." 40 minutes ago
1bd8e9a10e3d       mysql:latest       "docker-entrypoint..." About an hour ago
```