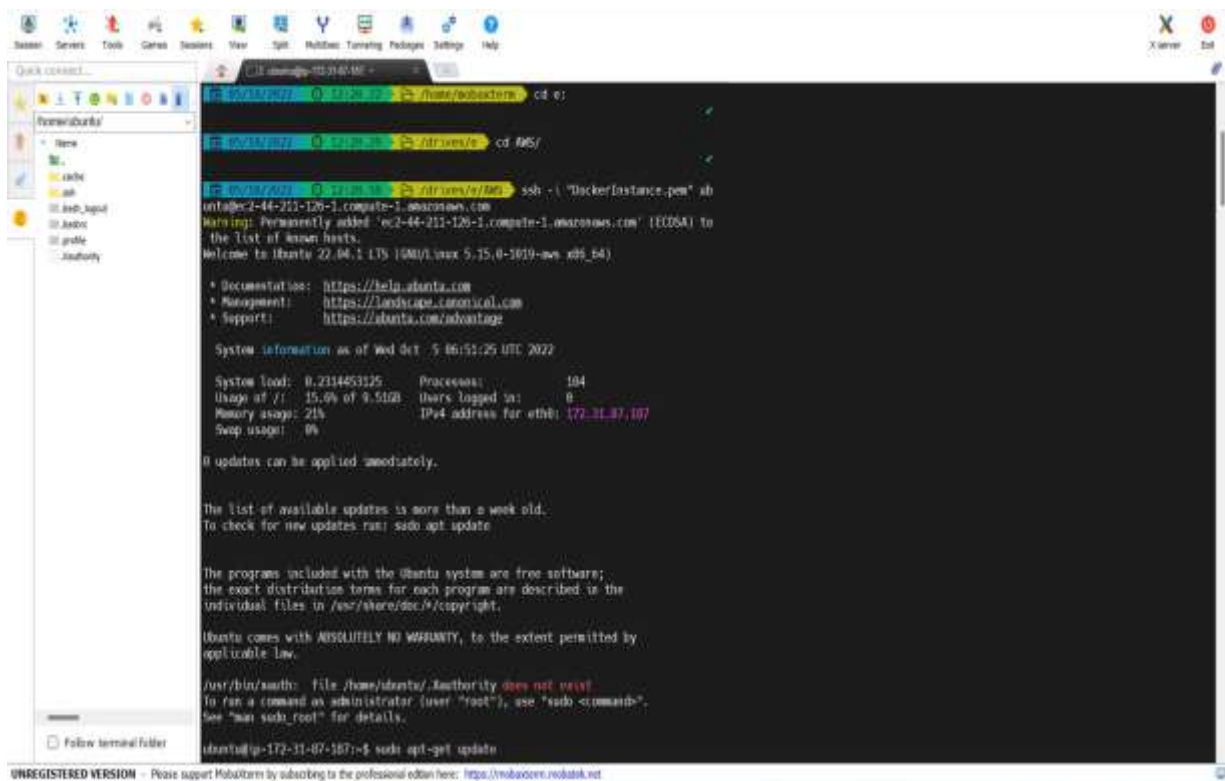


Connecting using MobaXterm



The screenshot shows the MobaXterm interface with a terminal window connected to an Ubuntu instance. The terminal displays the login prompt, system information, and the command to update the system.

```
cd /;
cd /tmp;
ssh -i "/home/abubakr/.ssh/id_rsa" ubuntu@ec2-44-211-126-1.compute-1.amazonaws.com
Warning: Permanently added 'ec2-44-211-126-1.compute-1.amazonaws.com' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1019-aws x86_64)

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

System information as of Wed Oct 5 06:51:25 UTC 2022

System load: 0.2314453125      Processes:           104
Usage of /: 15.9% of 9.5GB     Users logged in:     0
Memory usage: 21%             IP address for eth0: 172.31.37.107
Swap usage: 0%

0 updates can be applied immediately.

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

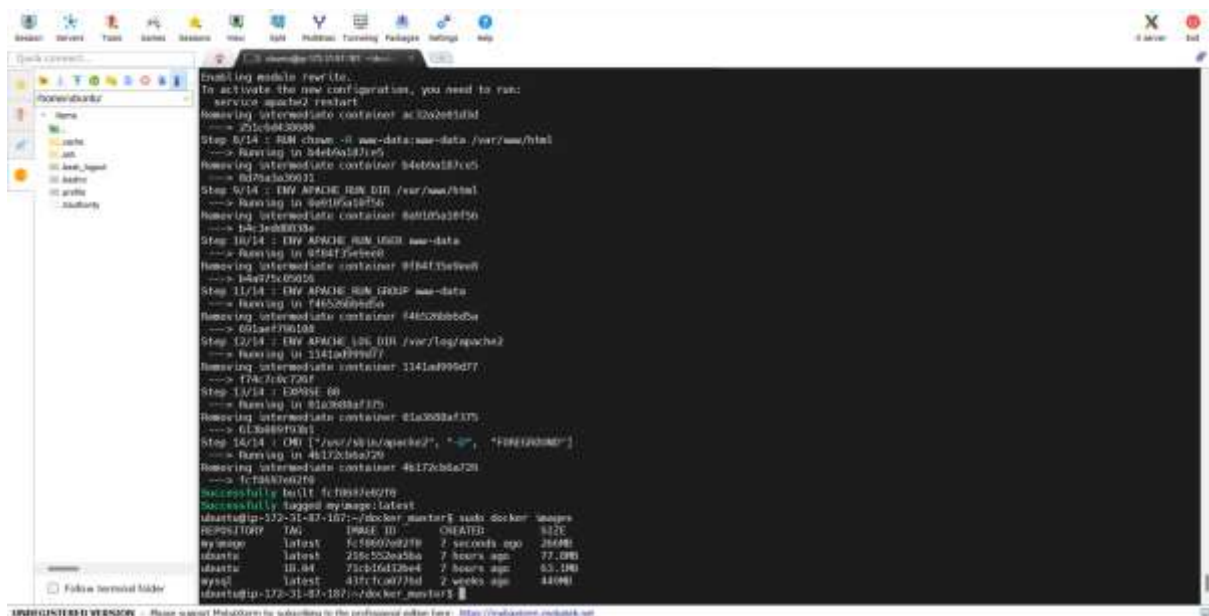
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

/usr/bin/sudo: file /home/ubuntu/.sudorc does not exist
To run a command as administrator (user "root"), use "sudo -command".
See "man sudo_root" for details.

ubuntu@ip-172-31-37-107:~$ sudo apt-get update
```

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Custom image added

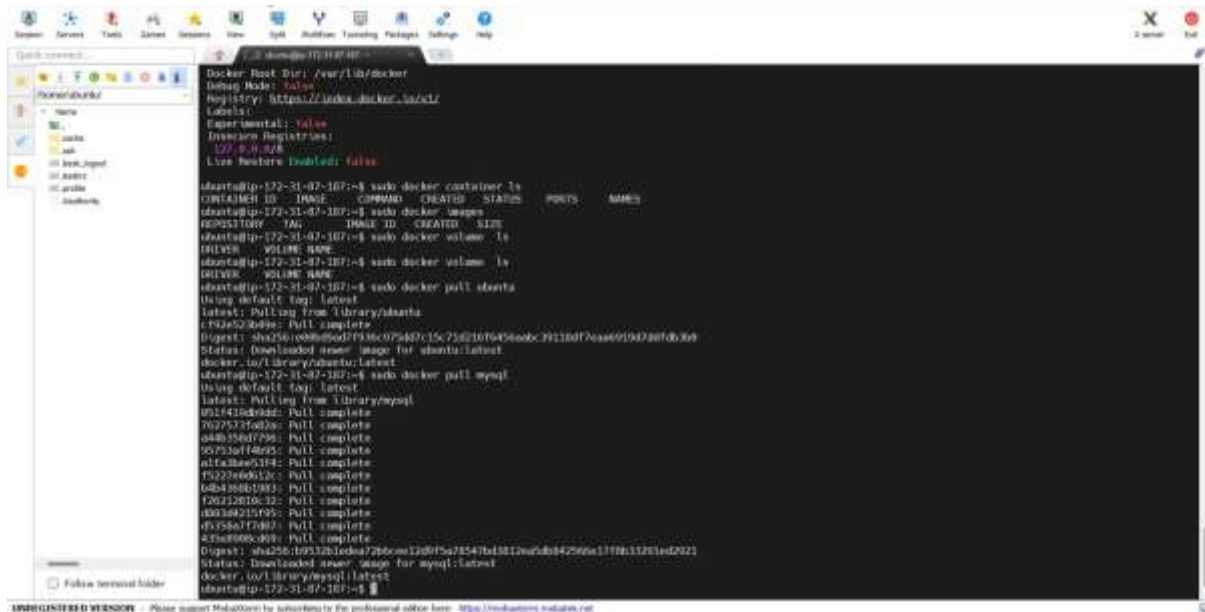


The screenshot shows the MobaXterm terminal with Docker commands being executed. It includes steps for removing intermediate containers, running Docker commands, and tagging a custom image.

```
Enabling module 'rootfs'.
To activate the new configuration, you need to run:
service apache2 restart
Removing intermediate container a32b2ed3d3d
--> 251c9d43099d
Step 8/14 : RUN chmod -R a-w /usr/share/doc /usr/share/man /usr/share/locale
--> Running in b46b6d3d3e5
Removing intermediate container b46b6d3d3e5
--> b079a3a36021
Step 9/14 : ENV APACHE_RUN_DIR /var/www/html
--> Running in b079a3a36021
Removing intermediate container b079a3a36021
--> b4c3e0b033e
Step 10/14 : ENV APACHE_RUN_USER www-data
--> Running in b4c3e0b033e
Removing intermediate container b4c3e0b033e
--> b4c3e0b033e
Step 11/14 : ENV APACHE_RUN_GROUP www-data
--> Running in b4c3e0b033e
Removing intermediate container b4c3e0b033e
--> b4c3e0b033e
Step 12/14 : ENV APACHE_LOG_DIR /var/log/apache2
--> Running in b4c3e0b033e
Removing intermediate container b4c3e0b033e
--> b4c3e0b033e
Step 13/14 : EXPOSE 80
--> Running in b4c3e0b033e
Removing intermediate container b4c3e0b033e
--> b4c3e0b033e
Step 14/14 : CMD ["./usr/sbin/apache2", "-D", "FOREGROUND"]
--> Running in b4c3e0b033e
Removing intermediate container b4c3e0b033e
--> b4c3e0b033e
Successfully tagged myimage:latest
ubuntu@ip-172-31-37-107:~/docker-master$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
myimage latest 519697d27b 7 seconds ago 204B
ubuntu 18.04 75c16d12b4 7 hours ago 77.1MB
wysq latest 437c6077bd 2 weeks ago 44.0MB
ubuntu@ip-172-31-37-107:~/docker-master$
```

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Default images in Docker



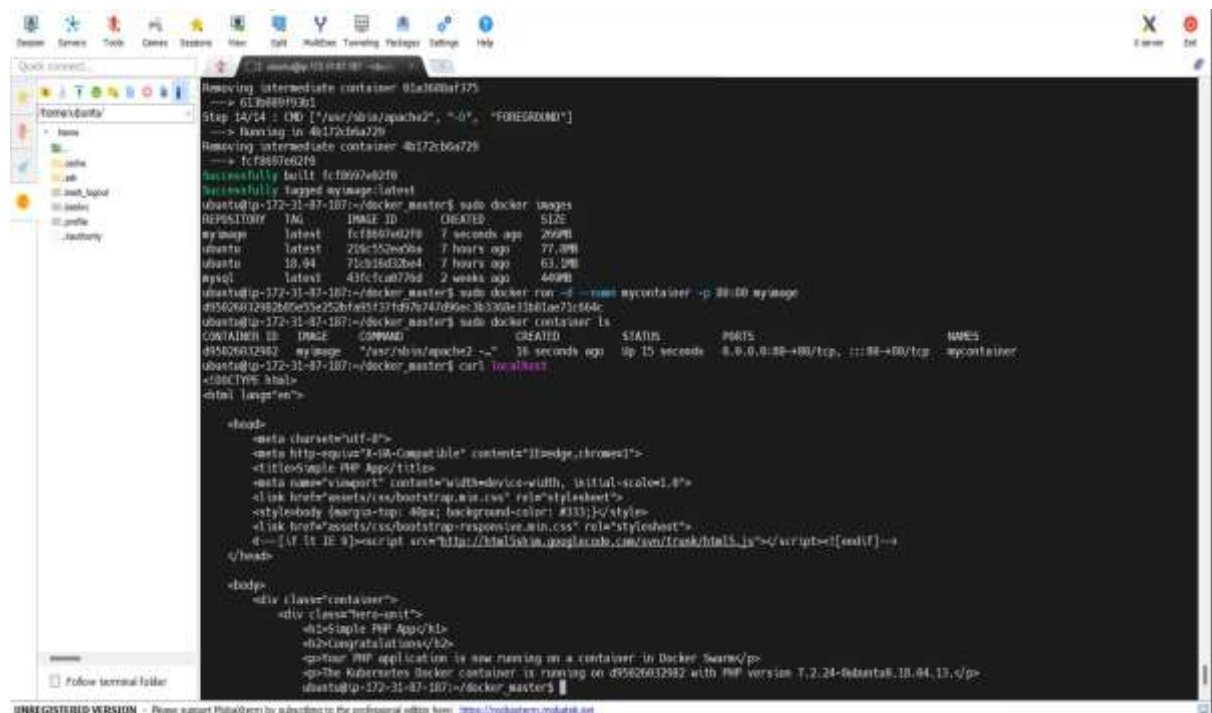
Docker Instance Security group adding required ports.



Docker Instance setting up Tags



Docker master php file

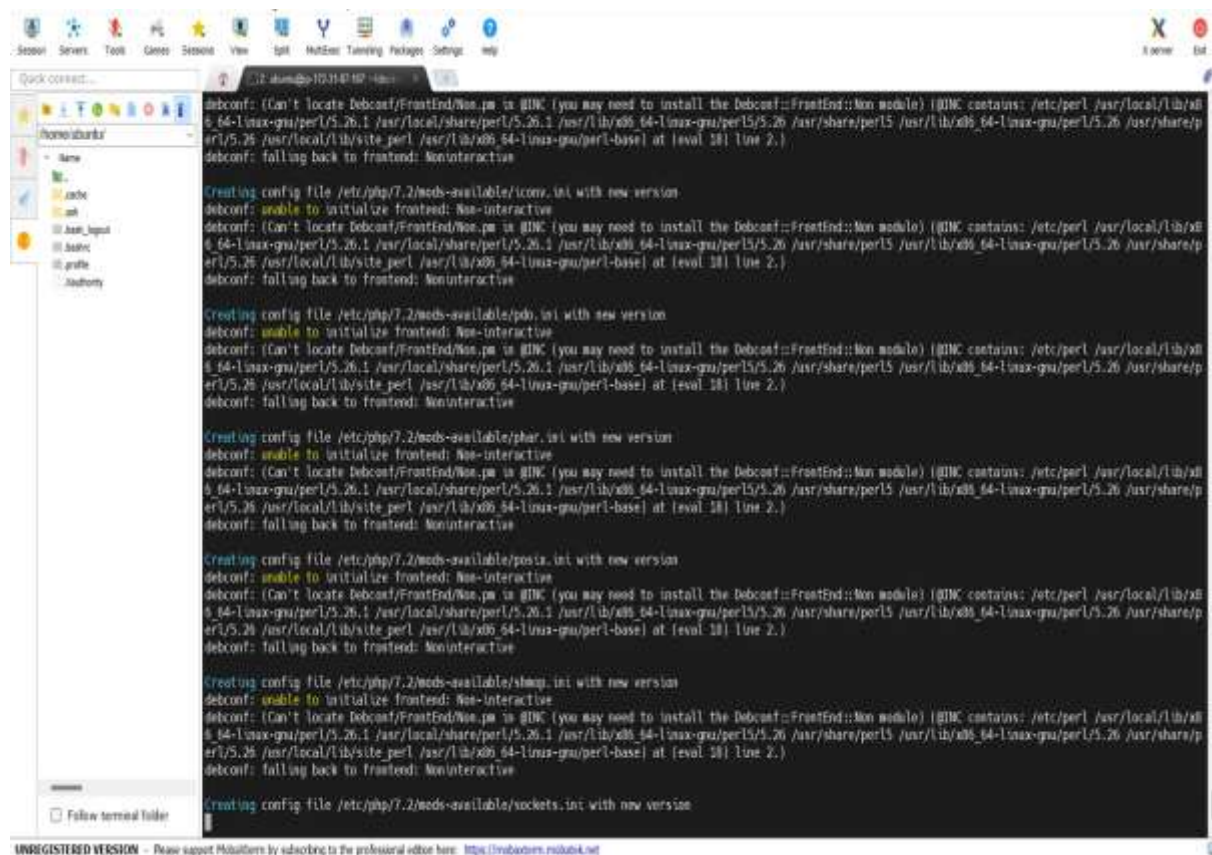


```
Removing intermediate container 0a360af175
--> GLb880f9261
Step 14/14 : CMD ["*/usr/sbin/apache2", "-D*", "-FOREGROUND"]
--> Running in 4b172c6a729
Removing intermediate container 4b172c6a729
--> fc9807e62f9
Successfully built fc9807e62f9
Successfully tagged myimage:latest
ubuntu@ip-172-31-87-187:~/docker-master$ sudo docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
myimage             latest             fc9807e62f9        7 seconds ago      209MB
ubuntu              latest             215c52e0b0a        7 hours ago        77.9MB
ubuntu              19.04             71c1b1d530d4        7 hours ago        63.9MB
mysql               latest             43fcfab77d2        2 weeks ago        469MB
ubuntu@ip-172-31-87-187:~/docker-master$ sudo docker run -d --name mycontainer -p 80:80 myimage
d95026012952605e3e25b8a5f37f0976747d96ec3b30a1388a073c64c
ubuntu@ip-172-31-87-187:~/docker-master$ sudo docker container ls
CONTAINER ID        IMAGE               COMMAND              CREATED             STATUS              PORTS              NAMES
d95026012952        myimage            "/usr/sbin/apache2 -" 36 seconds ago     Up 15 seconds      8.0.0.0:80->80/tcp, :::80->80/tcp   mycontainer
ubuntu@ip-172-31-87-187:~/docker-master$ curl localhost
<!DOCTYPE html>
<html lang=en>

<head>
<meta charset=utf-8>
<meta http-equiv=X-UA-Compatible content="IE=edge,chrome=">
<title>Simple PHP App</title>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link href="/assets/css/bootstrap.min.css" rel="stylesheet">
<stylebody {margin-top: 40px; background-color: #333;}</style>
<link href="/assets/css/bootstrap-responsive.min.css" rel="stylesheet">
<!--[if lt IE 9]><script src="http://html5shim.googlecode.com/svn/trunk/html5.js"></script><![endif]>-->
</head>

<body>
<div class="container">
<div class="hero-unit">
<h1>Simple PHP App</h1>
<h2>Congratulations</h2>
<p>Your PHP application is now running in a container in Docker Swarm</p>
<p>The Kubernetes Docker container is running on d95026012952 with PHP version 7.2.24-ubuntu18.04.13, c/p-
ubuntu@ip-172-31-87-187:~/docker-master$
```

Installing Docker in AWS Instance



```
debconf: (Can't locate Debconf/FrontEnd/Win.pm in @INC (you may need to install the Debconf::FrontEnd::Non module) (@INC contains: /etc/perl /usr/local/lib/x86_64-linux-gnu/perl/5.26.1 /usr/local/share/perl/5.26.1 /usr/lib/x86_64-linux-gnu/perl/5.26 /usr/share/perl5 /usr/lib/x86_64-linux-gnu/perl/5.26 /usr/share/p
erl/5.26 /usr/local/lib/site_perl /usr/lib/x86_64-linux-gnu/perl-base) at (eval 18) line 2.)
debconf: falling back to frontend: Noninteractive

Creating config file /etc/php/7.2/mods-available/iconv.ini with new version
debconf: unable to initialize frontend: Non-interactive
debconf: (Can't locate Debconf/FrontEnd/Win.pm in @INC (you may need to install the Debconf::FrontEnd::Non module) (@INC contains: /etc/perl /usr/local/lib/x86_64-linux-gnu/perl/5.26.1 /usr/local/share/perl/5.26.1 /usr/lib/x86_64-linux-gnu/perl/5.26 /usr/share/perl5 /usr/lib/x86_64-linux-gnu/perl/5.26 /usr/share/p
erl/5.26 /usr/local/lib/site_perl /usr/lib/x86_64-linux-gnu/perl-base) at (eval 18) line 2.)
debconf: falling back to frontend: Noninteractive

Creating config file /etc/php/7.2/mods-available/pdo.ini with new version
debconf: unable to initialize frontend: Non-interactive
debconf: (Can't locate Debconf/FrontEnd/Win.pm in @INC (you may need to install the Debconf::FrontEnd::Non module) (@INC contains: /etc/perl /usr/local/lib/x86_64-linux-gnu/perl/5.26.1 /usr/local/share/perl/5.26.1 /usr/lib/x86_64-linux-gnu/perl/5.26 /usr/share/perl5 /usr/lib/x86_64-linux-gnu/perl/5.26 /usr/share/p
erl/5.26 /usr/local/lib/site_perl /usr/lib/x86_64-linux-gnu/perl-base) at (eval 18) line 2.)
debconf: falling back to frontend: Noninteractive

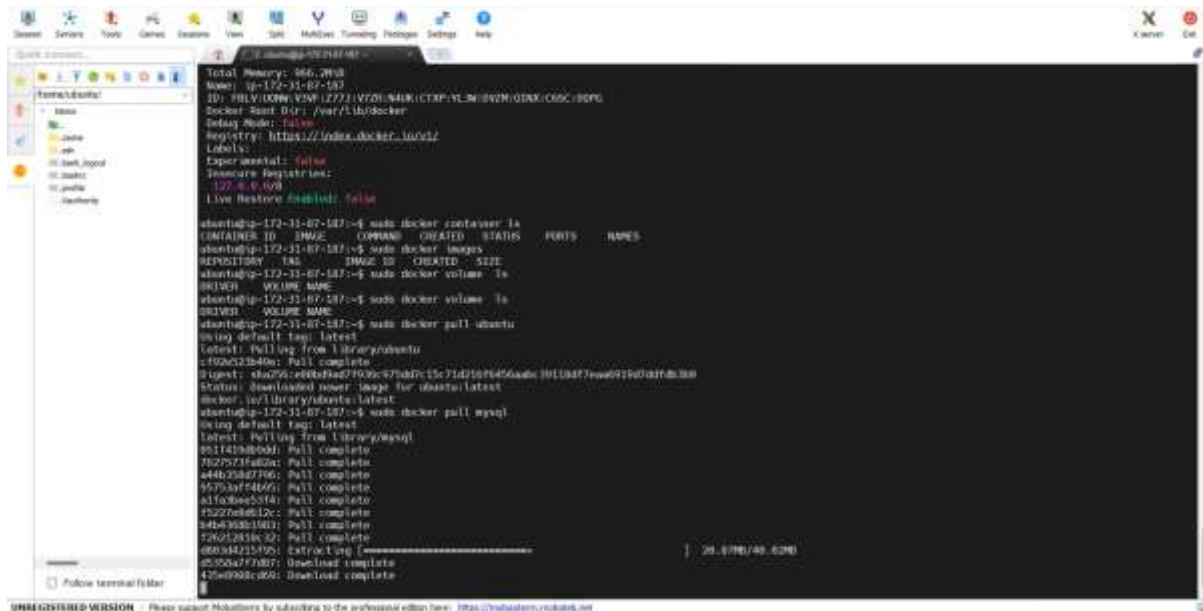
Creating config file /etc/php/7.2/mods-available/phar.ini with new version
debconf: unable to initialize frontend: Non-interactive
debconf: (Can't locate Debconf/FrontEnd/Win.pm in @INC (you may need to install the Debconf::FrontEnd::Non module) (@INC contains: /etc/perl /usr/local/lib/x86_64-linux-gnu/perl/5.26.1 /usr/local/share/perl/5.26.1 /usr/lib/x86_64-linux-gnu/perl/5.26 /usr/share/perl5 /usr/lib/x86_64-linux-gnu/perl/5.26 /usr/share/p
erl/5.26 /usr/local/lib/site_perl /usr/lib/x86_64-linux-gnu/perl-base) at (eval 18) line 2.)
debconf: falling back to frontend: Noninteractive

Creating config file /etc/php/7.2/mods-available/postix.ini with new version
debconf: unable to initialize frontend: Non-interactive
debconf: (Can't locate Debconf/FrontEnd/Win.pm in @INC (you may need to install the Debconf::FrontEnd::Non module) (@INC contains: /etc/perl /usr/local/lib/x86_64-linux-gnu/perl/5.26.1 /usr/local/share/perl/5.26.1 /usr/lib/x86_64-linux-gnu/perl/5.26 /usr/share/perl5 /usr/lib/x86_64-linux-gnu/perl/5.26 /usr/share/p
erl/5.26 /usr/local/lib/site_perl /usr/lib/x86_64-linux-gnu/perl-base) at (eval 18) line 2.)
debconf: falling back to frontend: Noninteractive

Creating config file /etc/php/7.2/mods-available/shmop.ini with new version
debconf: unable to initialize frontend: Non-interactive
debconf: (Can't locate Debconf/FrontEnd/Win.pm in @INC (you may need to install the Debconf::FrontEnd::Non module) (@INC contains: /etc/perl /usr/local/lib/x86_64-linux-gnu/perl/5.26.1 /usr/local/share/perl/5.26.1 /usr/lib/x86_64-linux-gnu/perl/5.26 /usr/share/perl5 /usr/lib/x86_64-linux-gnu/perl/5.26 /usr/share/p
erl/5.26 /usr/local/lib/site_perl /usr/lib/x86_64-linux-gnu/perl-base) at (eval 18) line 2.)
debconf: falling back to frontend: Noninteractive

Creating config file /etc/php/7.2/mods-available/sockets.ini with new version
```

Pulling mysql image in docker



```
total memory: 466.2MB
Name: ip-172-31-07-13
ID: PHLY:QXW:V2M:1Z7Z:1VZM:NAIK:CTDP:VLM:0VZM:0DM:CMC:0PQ
Docker Root Dir: /var/lib/docker
Debug Mode: false
Registry: https://index.docker.io/v1/
Labels:
Experimental: false
Insecure Registries:
  127.0.0.0/8
Live Restore Enabled: false

shantagp-172-31-07-13:~$ sudo docker container ls
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
shantagp-172-31-07-13:~$ sudo docker images
REPOSITORY    TAG       IMAGE ID   CREATED   SIZE
shantagp-172-31-07-13:~$ sudo docker volume ls
DRIVER    VOLUME NAME
shantagp-172-31-07-13:~$ sudo docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
c492632b40e: Pull complete
Digest: sha256:c492632b40e: Pull complete
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
shantagp-172-31-07-13:~$ sudo docker pull mysql
Using default tag: latest
latest: Pulling from library/mysql
851f43a8b0d: Pull complete
7027571fa62a: Pull complete
444b35a87766: Pull complete
9793af4466a: Pull complete
a108a0e53f4a: Pull complete
75227a0a612c: Pull complete
844b303b1903: Pull complete
726f12838c32: Pull complete
6809a4233095: Extracting [-----] 26.57MB/48.62MB
c5328a777807: Download complete
475e9908c850: Download complete
```

Running on AWS Public IP address

