Author:-Dinesh.C.Patel

Linux Administrator (RHCSA & AWS Certified)[8766924468]

Email:-dineshcpatel2727@gmail.com

____

*****How to setup LAMP stack on Docker with Redhat Linux 9.4*****

To Setup LAMP Stack On Docker Using Redhat Linux 9.4

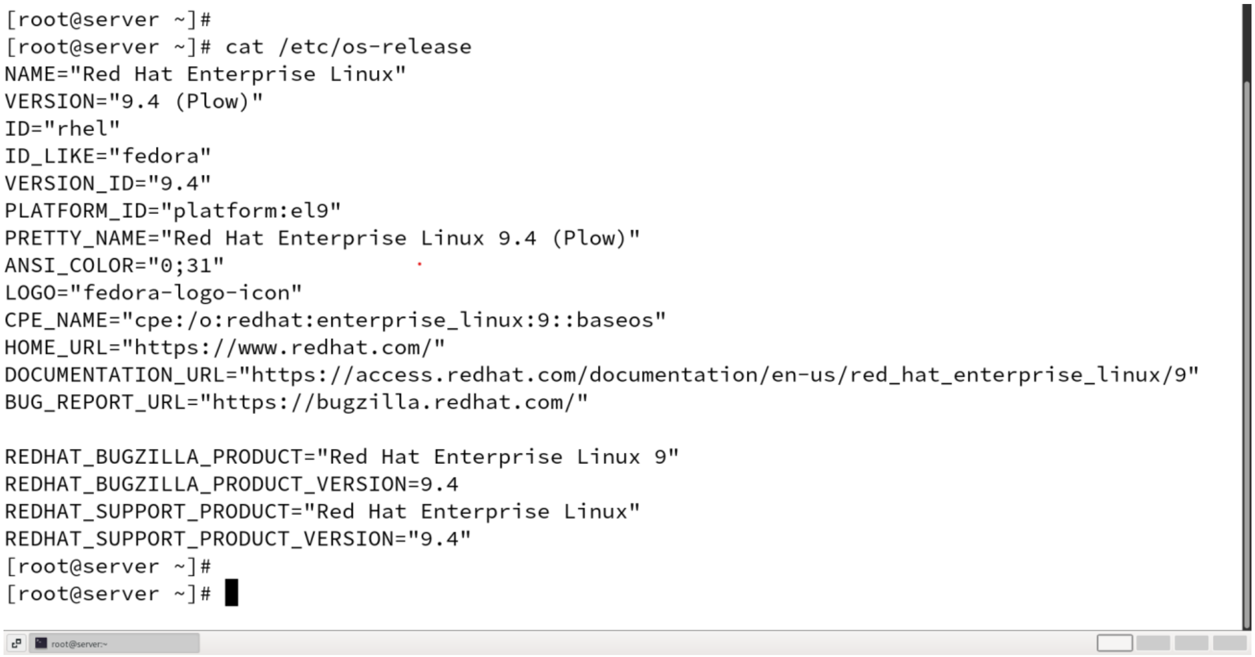
Introduction:-

A Docker LAMP stack is a software bundle that includes Linux as the operating system, Apache as the web server, MySQL as the database management system, and PHP as the server-side scripting language. It is containerized using Docker which makes it easy to deploy and manage.

Procedure:-

Step 1: Check the OS version by using the below command

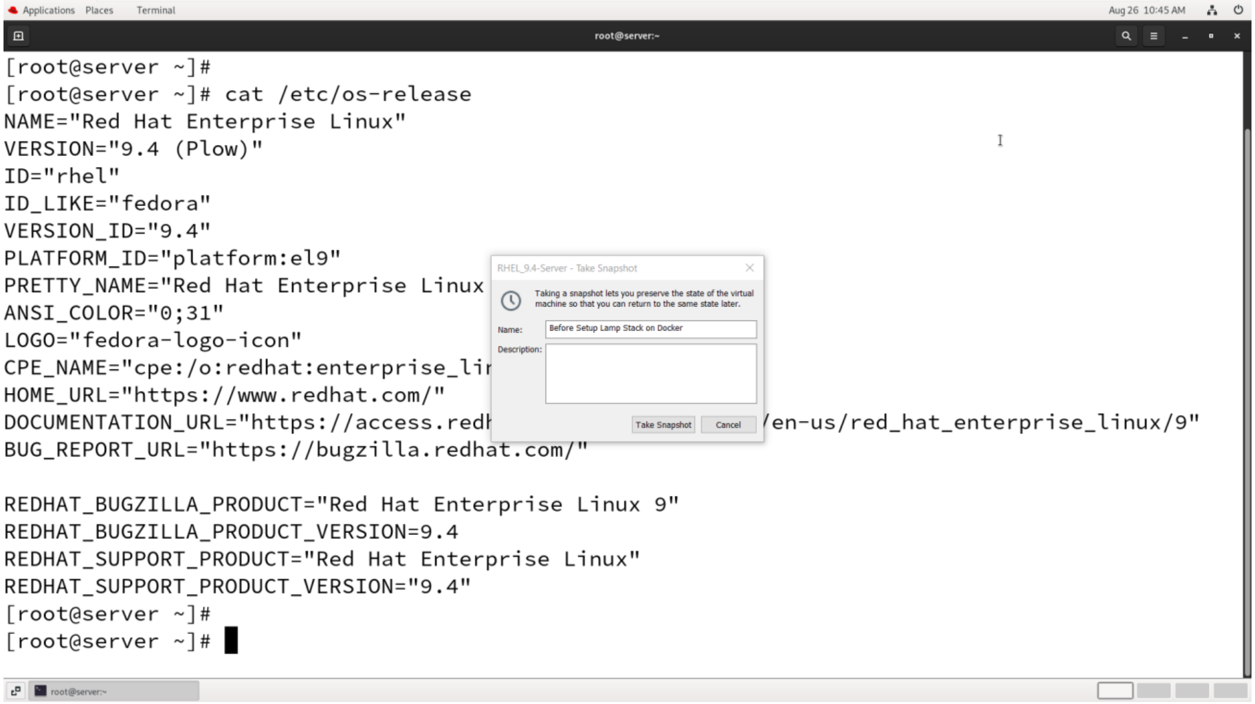
#cat /etc/os-release



```
[root@server ~]#
[root@server ~]# cat /etc/os-release
NAME="Red Hat Enterprise Linux"
VERSION="9.4 (Plow)"
ID="rhel"
ID_LIKE="fedora"
VERSION_ID="9.4"
PLATFORM_ID="platform:el9"
PRETTY_NAME="Red Hat Enterprise Linux 9.4 (Plow)"
ANSI_COLOR="0;31"
LOGO="fedora-logo-icon"
CPE_NAME="cpe:/o:redhat:enterprise_linux:9::baseos"
HOME_URL="https://www.redhat.com/"
DOCUMENTATION_URL="https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/9"
BUG_REPORT_URL="https://bugzilla.redhat.com/"

REDHAT_BUGZILLA_PRODUCT="Red Hat Enterprise Linux 9"
REDHAT_BUGZILLA_PRODUCT_VERSION=9.4
REDHAT_SUPPORT_PRODUCT="Red Hat Enterprise Linux"
REDHAT_SUPPORT_PRODUCT_VERSION="9.4"
[root@server ~]#
[root@server ~]# 
```

Step 2: Take a Snapshot:-

Snapshot Name:-Before Setup Lamp Stack on Docker



```
[root@server ~]#
[root@server ~]# cat /etc/os-release
NAME="Red Hat Enterprise Linux"
VERSION="9.4 (Plow)"
ID="rhel"
ID_LIKE="fedora"
VERSION_ID="9.4"
PLATFORM_ID="platform:el9"
PRETTY_NAME="Red Hat Enterprise Linux
ANSI_COLOR="0;31"
LOGO="fedora-logo-icon"
CPE_NAME="cpe:/o:redhat:enterprise_lir
HOME_URL="https://www.redhat.com/"
DOCUMENTATION_URL="https://access.redh                      /en-us/red_hat_enterprise_linux/9"
BUG_REPORT_URL="https://bugzilla.redhat.com/"

REDHAT_BUGZILLA_PRODUCT="Red Hat Enterprise Linux 9"
REDHAT_BUGZILLA_PRODUCT_VERSION=9.4
REDHAT_SUPPORT_PRODUCT="Red Hat Enterprise Linux"
REDHAT_SUPPORT_PRODUCT_VERSION="9.4"
[root@server ~]#
[root@server ~]#
```

RHEL_9.4-Server - Take Snapshot

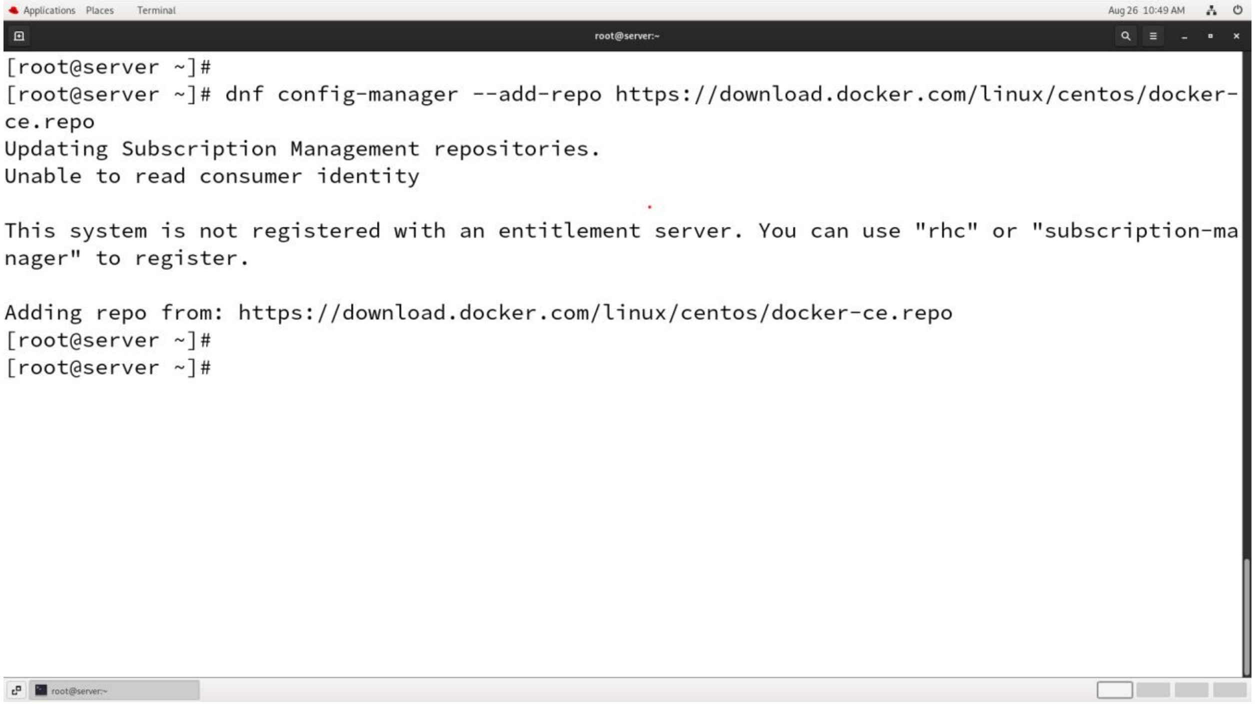
Taking a snapshot lets you preserve the state of the virtual machine so that you can return to the same state later.

Name: Before Setup Lamp Stack on Docker

Description:

Step 3: Add the official Docker repository by using the below command

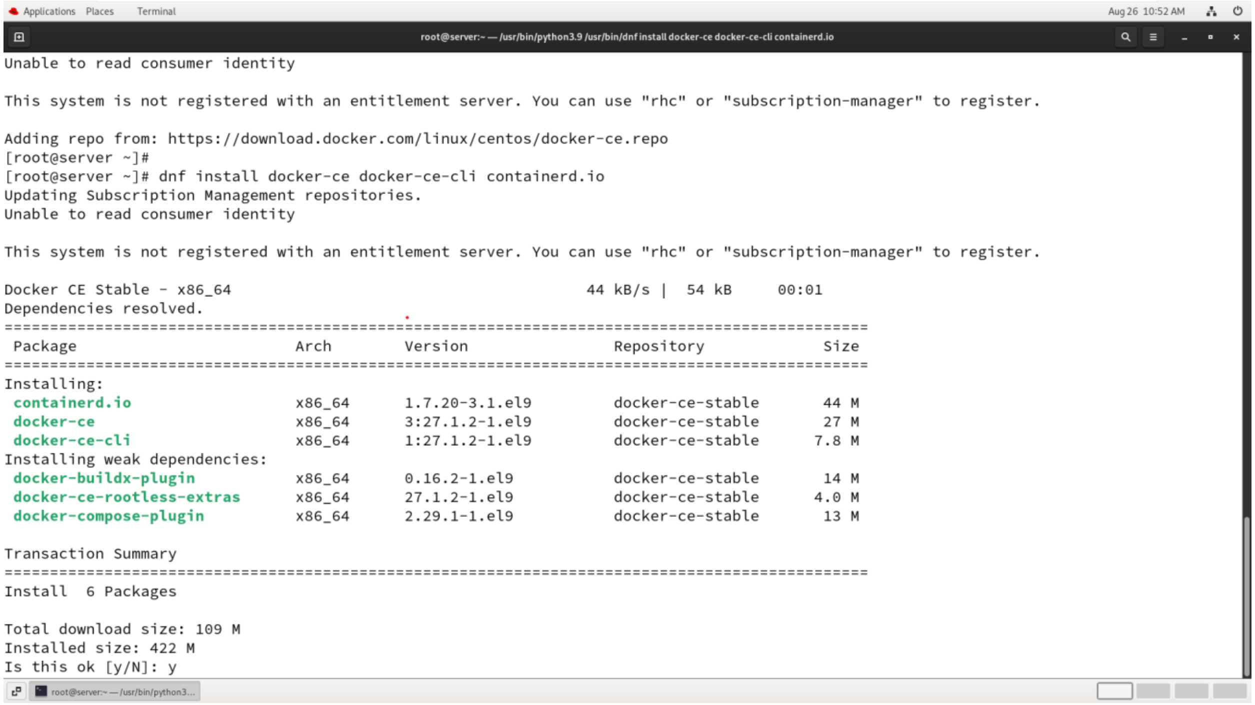
dnf config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo



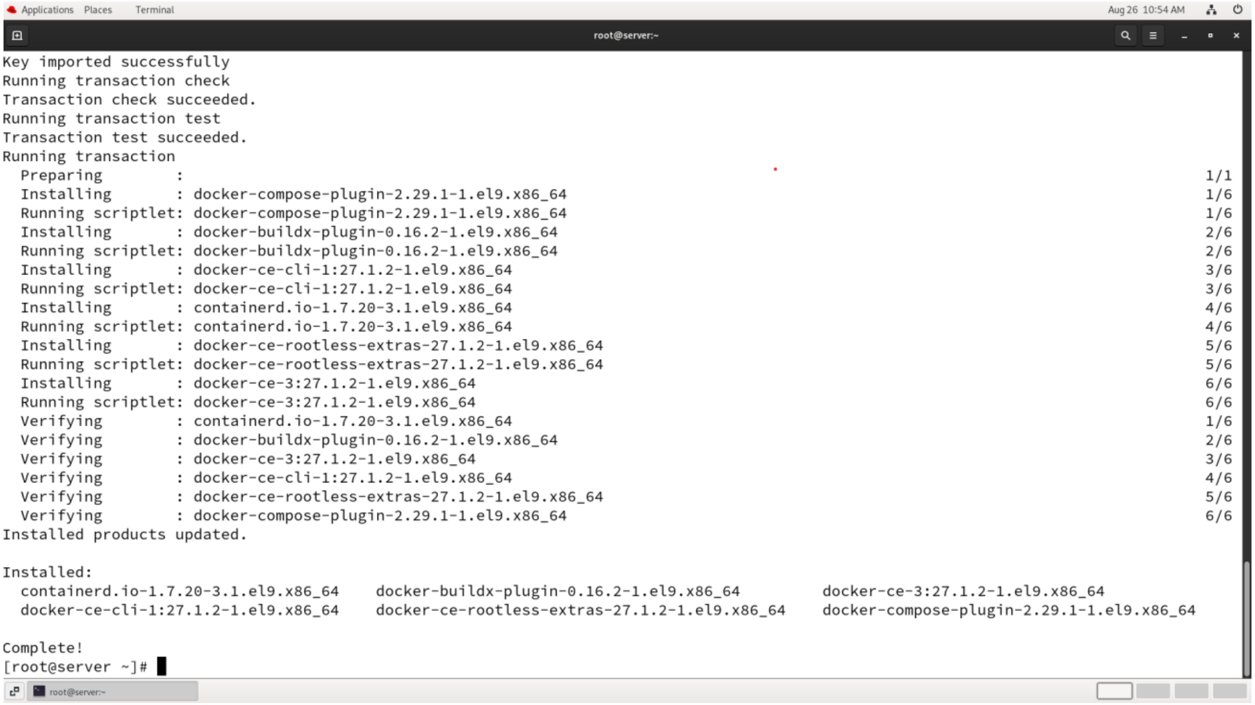
```
[root@server ~]#
[root@server ~]# dnf config-manager --add-repo https://download.docker.com/linux/centos/docker-
ce.repo
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use "rhc" or "subscription-ma
nager" to register.

Adding repo from: https://download.docker.com/linux/centos/docker-ce.repo
[root@server ~]#
[root@server ~]#
```

Step 4: After the repository added, install Docker, which is composed of three packages using the below command

# **dnf install docker-ce docker-ce-cli containerd.io**


Applications
Places
Terminal
Aug 26 10:52 AM
root@server:~ — /usr/bin/python3.9 /usr/bin/dnf install docker-ce docker-ce-cli containerd.io
root@server:~ — /usr/bin/python3...

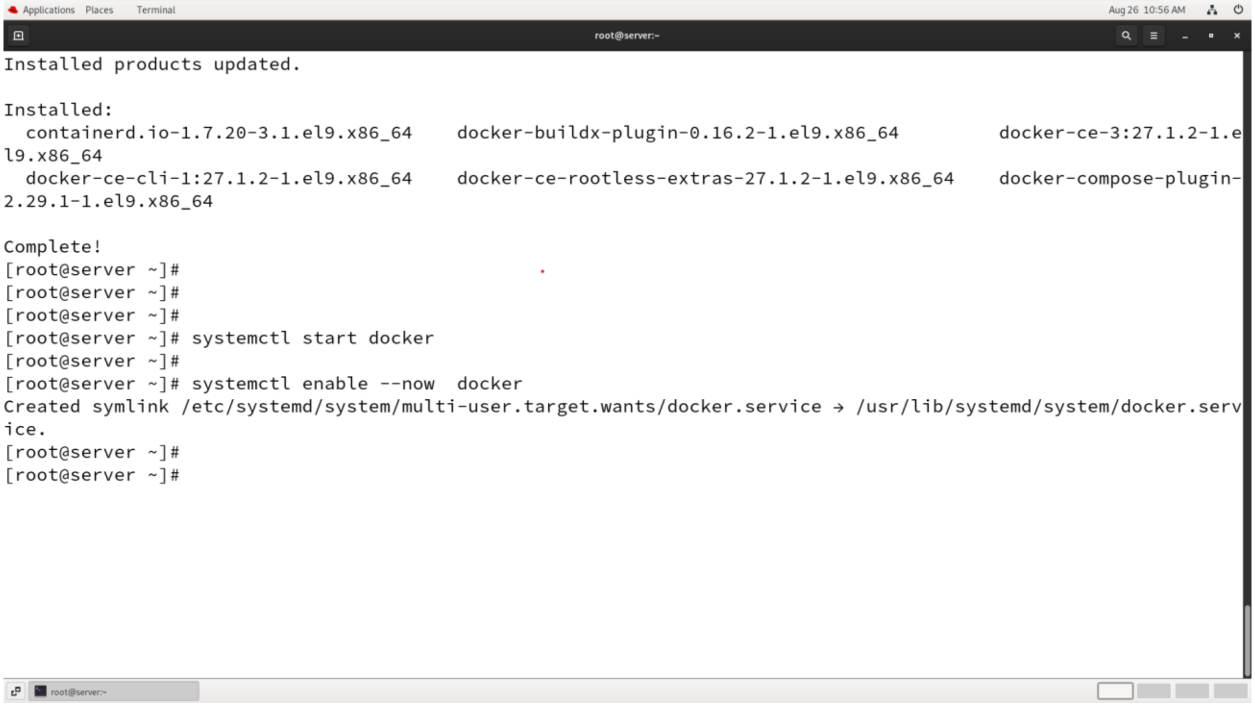
```
Unable to read consumer identity

This system is not registered with an entitlement server. You can use "rhc" or "subscription-manager" to register.

Adding repo from: https://download.docker.com/linux/centos/docker-ce.repo
[root@server ~]#
[root@server ~]# dnf install docker-ce docker-ce-cli containerd.io
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use "rhc" or "subscription-manager" to register.

Docker CE Stable - x86_64                            44 kB/s |  54 kB     00:01
Dependencies resolved.
================================================================================================
 Package                         Arch        Version                 Repository            Size
================================================================================================
Installing:
 containerd.io                   x86_64      1.7.20-3.1.el9          docker-ce-stable      44 M
 docker-ce                       x86_64      3:27.1.2-1.el9          docker-ce-stable      27 M
 docker-ce-cli                   x86_64      1:27.1.2-1.el9          docker-ce-stable     7.8 M
Installing weak dependencies:
 docker-buildx-plugin            x86_64      0.16.2-1.el9            docker-ce-stable      14 M
 docker-ce-rootless-extras       x86_64      27.1.2-1.el9            docker-ce-stable     4.0 M
 docker-compose-plugin           x86_64      2.29.1-1.el9            docker-ce-stable      13 M

Transaction Summary
================================================================================================
Install  6 Packages

Total download size: 109 M
Installed size: 422 M
Is this ok [y/N]: y
```



```
Key imported successfully
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                                                   1/1
  Installing       : docker-compose-plugin-2.29.1-1.el9.x86_64                                         1/6
  Running scriptlet: docker-compose-plugin-2.29.1-1.el9.x86_64                                         1/6
  Installing       : docker-buildx-plugin-0.16.2-1.el9.x86_64                                          2/6
  Running scriptlet: docker-buildx-plugin-0.16.2-1.el9.x86_64                                          2/6
  Installing       : docker-ce-cli-1:27.1.2-1.el9.x86_64                                               3/6
  Running scriptlet: docker-ce-cli-1:27.1.2-1.el9.x86_64                                               3/6
  Installing       : containerd.io-1.7.20-3.1.el9.x86_64                                               4/6
  Running scriptlet: containerd.io-1.7.20-3.1.el9.x86_64                                               4/6
  Installing       : docker-ce-rootless-extras-27.1.2-1.el9.x86_64                                     5/6
  Running scriptlet: docker-ce-rootless-extras-27.1.2-1.el9.x86_64                                     5/6
  Installing       : docker-ce-3:27.1.2-1.el9.x86_64                                                   6/6
  Running scriptlet: docker-ce-3:27.1.2-1.el9.x86_64                                                   6/6
  Verifying        : containerd.io-1.7.20-3.1.el9.x86_64                                               1/6
  Verifying        : docker-buildx-plugin-0.16.2-1.el9.x86_64                                          2/6
  Verifying        : docker-ce-3:27.1.2-1.el9.x86_64                                                   3/6
  Verifying        : docker-ce-cli-1:27.1.2-1.el9.x86_64                                               4/6
  Verifying        : docker-ce-rootless-extras-27.1.2-1.el9.x86_64                                     5/6
  Verifying        : docker-compose-plugin-2.29.1-1.el9.x86_64                                         6/6
Installed products updated.

Installed:
  containerd.io-1.7.20-3.1.el9.x86_64    docker-buildx-plugin-0.16.2-1.el9.x86_64        docker-ce-3:27.1.2-1.el9.x86_64
  docker-ce-cli-1:27.1.2-1.el9.x86_64    docker-ce-rootless-extras-27.1.2-1.el9.x86_64    docker-compose-plugin-2.29.1-1.el9.x86_64

Complete!
[root@server ~]#
```

Step 5: After installation has completed, start and enable the Docker daemon by using the below command

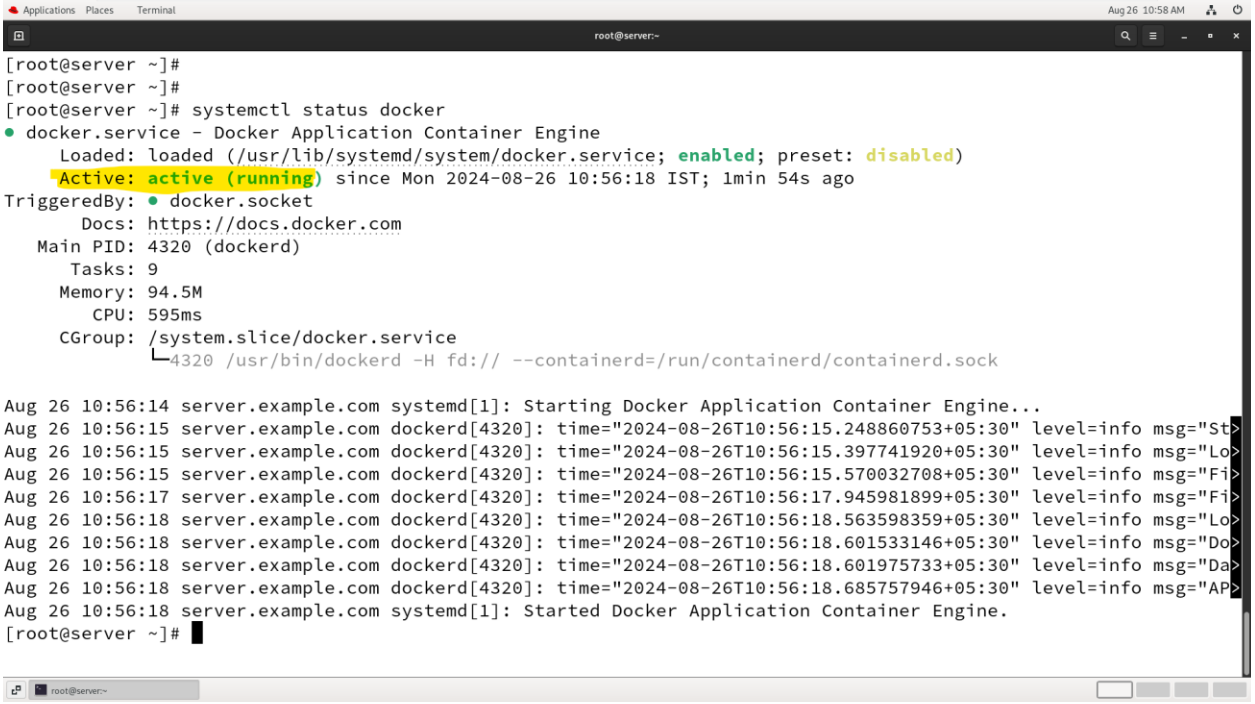
```
# systemctl start docker

# systemctl enable –now  docker
```



```
Installed products updated.

Installed:
  containerd.io-1.7.20-3.1.el9.x86_64    docker-buildx-plugin-0.16.2-1.el9.x86_64        docker-ce-3:27.1.2-1.e
l9.x86_64
  docker-ce-cli-1:27.1.2-1.el9.x86_64    docker-ce-rootless-extras-27.1.2-1.el9.x86_64    docker-compose-plugin-
2.29.1-1.el9.x86_64

Complete!
[root@server ~]#
[root@server ~]#
[root@server ~]#
[root@server ~]# systemctl start docker
[root@server ~]#
[root@server ~]# systemctl enable --now  docker
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.serv
ice.
[root@server ~]#
[root@server ~]#
```

Step 6: Now check the status of docker by using the below command

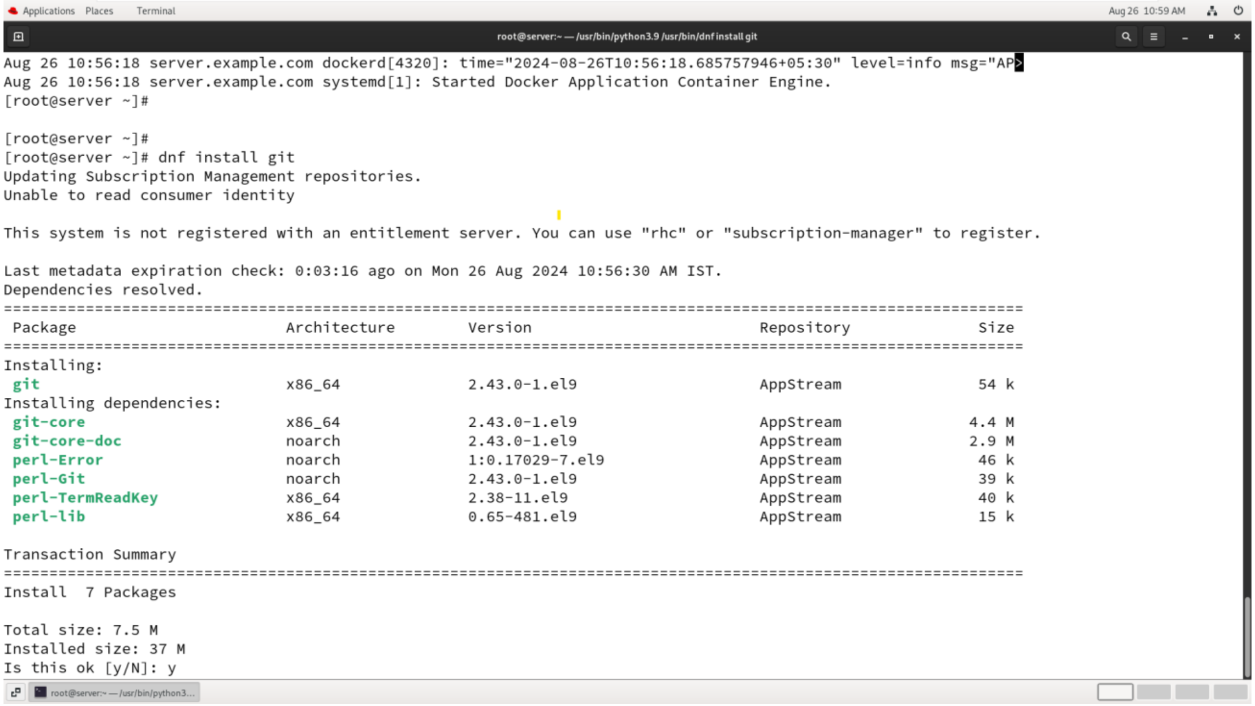
# systemctl status docker



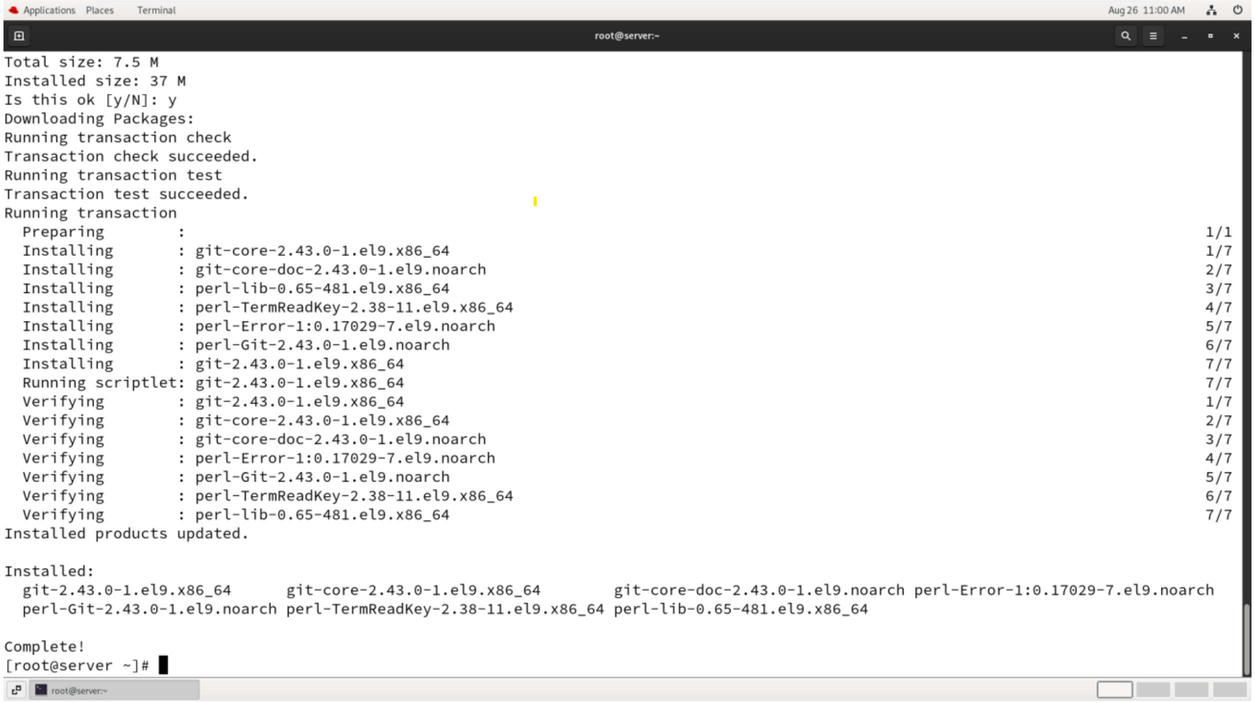
```
[root@server ~]#
[root@server ~]#
[root@server ~]# systemctl status docker
● docker.service - Docker Application Container Engine
     Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: disabled)
     Active: active (running) since Mon 2024-08-26 10:56:18 IST; 1min 54s ago
TriggeredBy: ● docker.socket
       Docs: https://docs.docker.com
   Main PID: 4320 (dockerd)
      Tasks: 9
     Memory: 94.5M
        CPU: 595ms
     CGroup: /system.slice/docker.service
             └─4320 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Aug 26 10:56:14 server.example.com systemd[1]: Starting Docker Application Container Engine...
Aug 26 10:56:15 server.example.com dockerd[4320]: time="2024-08-26T10:56:15.248860753+05:30" level=info msg="St>
Aug 26 10:56:15 server.example.com dockerd[4320]: time="2024-08-26T10:56:15.397741920+05:30" level=info msg="Lo>
Aug 26 10:56:15 server.example.com dockerd[4320]: time="2024-08-26T10:56:15.570032708+05:30" level=info msg="Fi>
Aug 26 10:56:17 server.example.com dockerd[4320]: time="2024-08-26T10:56:17.945981899+05:30" level=info msg="Fi>
Aug 26 10:56:18 server.example.com dockerd[4320]: time="2024-08-26T10:56:18.563598359+05:30" level=info msg="Lo>
Aug 26 10:56:18 server.example.com dockerd[4320]: time="2024-08-26T10:56:18.601533146+05:30" level=info msg="Do>
Aug 26 10:56:18 server.example.com dockerd[4320]: time="2024-08-26T10:56:18.601975733+05:30" level=info msg="Da>
Aug 26 10:56:18 server.example.com dockerd[4320]: time="2024-08-26T10:56:18.685757946+05:30" level=info msg="AP>
Aug 26 10:56:18 server.example.com systemd[1]: Started Docker Application Container Engine.
[root@server ~]#
```

Step 7: Install Git and download for LAMP stack by using the below command

# dnf install git


Applications Places Terminal
Aug 26 10:59 AM
root@server:~ — /usr/bin/python3.9 /usr/bin/dnf install git
root@server:~ — /usr/bin/python3...

```
Aug 26 10:56:18 server.example.com dockerd[4320]: time="2024-08-26T10:56:18.685757946+05:30" level=info msg="AP>
Aug 26 10:56:18 server.example.com systemd[1]: Started Docker Application Container Engine.
[root@server ~]#

[root@server ~]#
[root@server ~]# dnf install git
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use "rhc" or "subscription-manager" to register.

Last metadata expiration check: 0:03:16 ago on Mon 26 Aug 2024 10:56:30 AM IST.
Dependencies resolved.
========================================================================================================================
 Package                        Architecture        Version                          Repository                Size
========================================================================================================================
Installing:
 git                            x86_64              2.43.0-1.el9                     AppStream                 54 k
Installing dependencies:
 git-core                       x86_64              2.43.0-1.el9                     AppStream                4.4 M
 git-core-doc                   noarch              2.43.0-1.el9                     AppStream                2.9 M
 perl-Error                     noarch              1:0.17029-7.el9                  AppStream                 46 k
 perl-Git                       noarch              2.43.0-1.el9                     AppStream                 39 k
 perl-TermReadKey               x86_64              2.38-11.el9                      AppStream                 40 k
 perl-lib                       x86_64              0.65-481.el9                     AppStream                 15 k

Transaction Summary
========================================================================================================================
Install  7 Packages

Total size: 7.5 M
Installed size: 37 M
Is this ok [y/N]: y
```

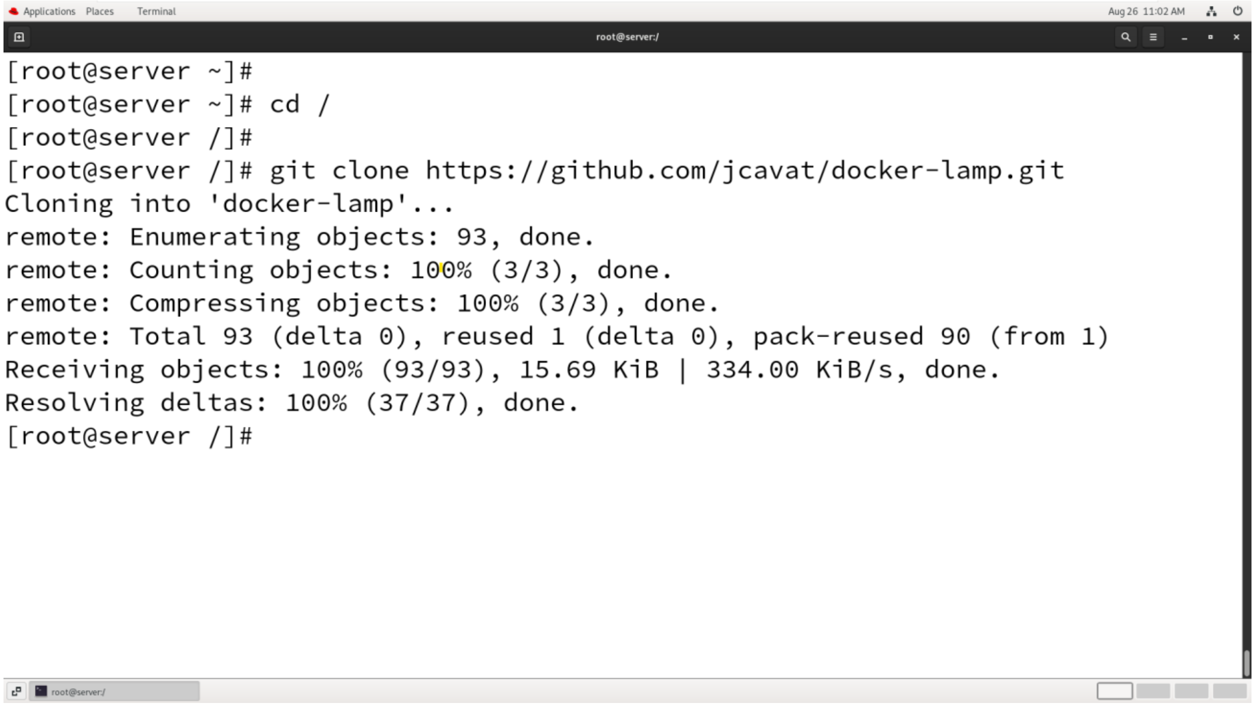


```
Total size: 7.5 M
Installed size: 37 M
Is this ok [y/N]: y
Downloading Packages:
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                                                                 1/1
  Installing       : git-core-2.43.0-1.el9.x86_64                                                                    1/7
  Installing       : git-core-doc-2.43.0-1.el9.noarch                                                                2/7
  Installing       : perl-lib-0.65-481.el9.x86_64                                                                    3/7
  Installing       : perl-TermReadKey-2.38-11.el9.x86_64                                                             4/7
  Installing       : perl-Error-1:0.17029-7.el9.noarch                                                               5/7
  Installing       : perl-Git-2.43.0-1.el9.noarch                                                                    6/7
  Installing       : git-2.43.0-1.el9.x86_64                                                                         7/7
  Running scriptlet: git-2.43.0-1.el9.x86_64                                                                         7/7
  Verifying        : git-2.43.0-1.el9.x86_64                                                                         1/7
  Verifying        : git-core-2.43.0-1.el9.x86_64                                                                    2/7
  Verifying        : git-core-doc-2.43.0-1.el9.noarch                                                                3/7
  Verifying        : perl-Error-1:0.17029-7.el9.noarch                                                               4/7
  Verifying        : perl-Git-2.43.0-1.el9.noarch                                                                    5/7
  Verifying        : perl-TermReadKey-2.38-11.el9.x86_64                                                             6/7
  Verifying        : perl-lib-0.65-481.el9.x86_64                                                                    7/7
Installed products updated.

Installed:
  git-2.43.0-1.el9.x86_64      git-core-2.43.0-1.el9.x86_64        git-core-doc-2.43.0-1.el9.noarch perl-Error-1:0.17029-7.el9.noarch
  perl-Git-2.43.0-1.el9.noarch perl-TermReadKey-2.38-11.el9.x86_64 perl-lib-0.65-481.el9.x86_64

Complete!
[root@server ~]#
```

Step 8: Clone the LAMP from github by using “git clone” command.

# cd /

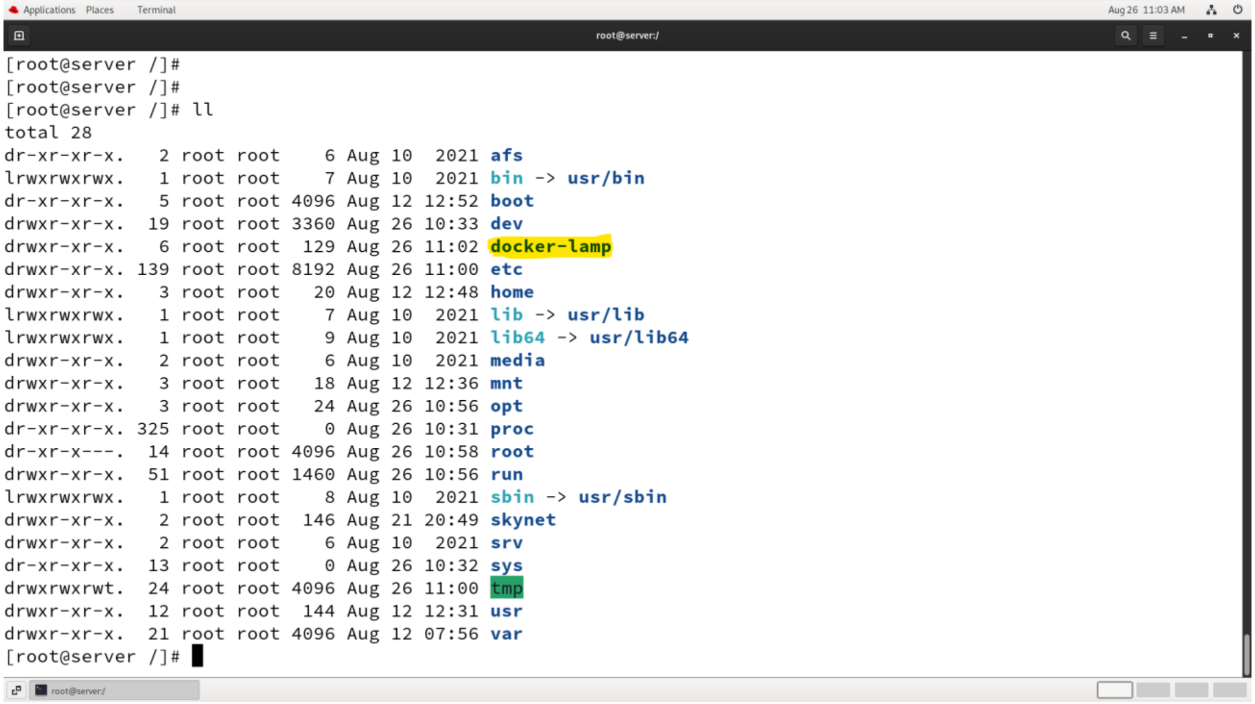
# git clone https://github.com/jcavat/docker-lamp.git



```
[root@server ~]#
[root@server ~]# cd /
[root@server /]#
[root@server /]# git clone https://github.com/jcavat/docker-lamp.git
Cloning into 'docker-lamp'...
remote: Enumerating objects: 93, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 93 (delta 0), reused 1 (delta 0), pack-reused 90 (from 1)
Receiving objects: 100% (93/93), 15.69 KiB | 334.00 KiB/s, done.
Resolving deltas: 100% (37/37), done.
[root@server /]#
```

Step 9: Long list the file and verify the downloaded LAMP directory by using the below command.

# ll

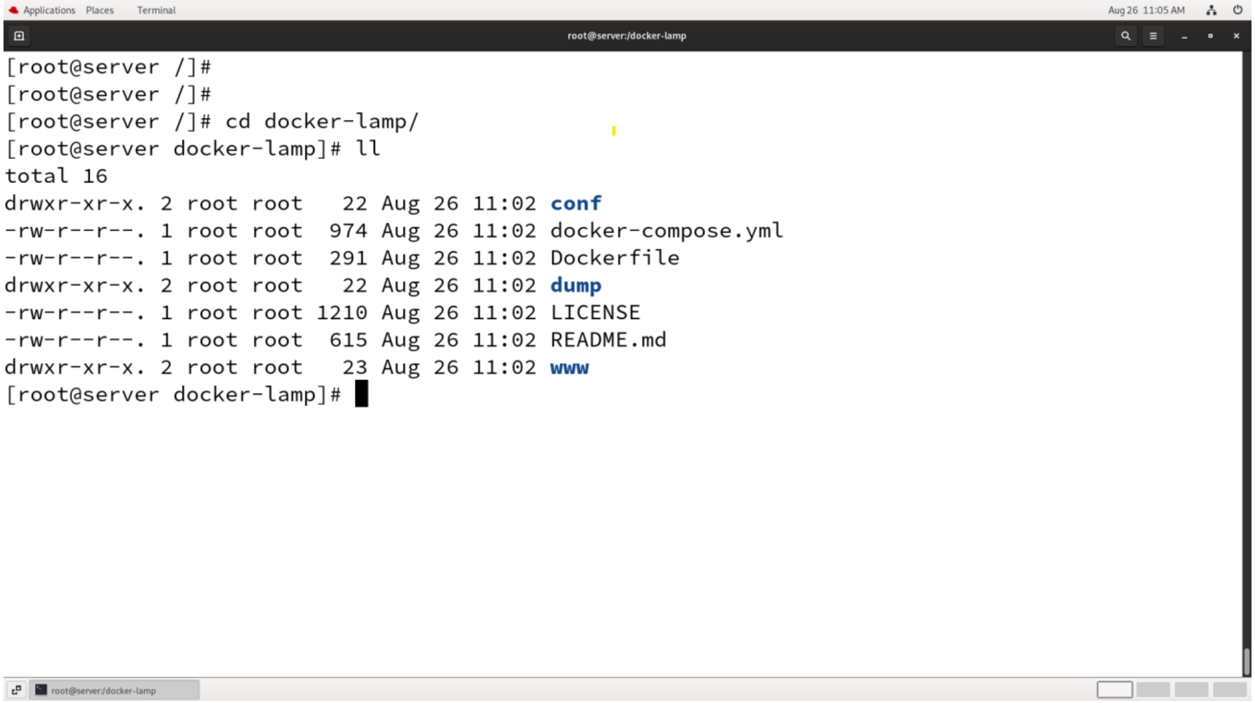


```
[root@server /]#
[root@server /]#
[root@server /]# ll
total 28
dr-xr-xr-x.   2 root root    6 Aug 10  2021 afs
lrwxrwxrwx.   1 root root    7 Aug 10  2021 bin -> usr/bin
dr-xr-xr-x.   5 root root 4096 Aug 12 12:52 boot
drwxr-xr-x.  19 root root 3360 Aug 26 10:33 dev
drwxr-xr-x.   6 root root  129 Aug 26 11:02 docker-lamp
drwxr-xr-x. 139 root root 8192 Aug 26 11:00 etc
drwxr-xr-x.   3 root root   20 Aug 12 12:48 home
lrwxrwxrwx.   1 root root    7 Aug 10  2021 lib -> usr/lib
lrwxrwxrwx.   1 root root    9 Aug 10  2021 lib64 -> usr/lib64
drwxr-xr-x.   2 root root    6 Aug 10  2021 media
drwxr-xr-x.   3 root root   18 Aug 12 12:36 mnt
drwxr-xr-x.   3 root root   24 Aug 26 10:56 opt
dr-xr-xr-x. 325 root root    0 Aug 26 10:31 proc
dr-xr-x---.  14 root root 4096 Aug 26 10:58 root
drwxr-xr-x.  51 root root 1460 Aug 26 10:56 run
lrwxrwxrwx.   1 root root    8 Aug 10  2021 sbin -> usr/sbin
drwxr-xr-x.   2 root root  146 Aug 21 20:49 skynet
drwxr-xr-x.   2 root root    6 Aug 10  2021 srv
dr-xr-xr-x.  13 root root    0 Aug 26 10:32 sys
drwxrwxrwt.  24 root root 4096 Aug 26 11:00 tmp
drwxr-xr-x.  12 root root  144 Aug 12 12:31 usr
drwxr-xr-x.  21 root root 4096 Aug 12 07:56 var
[root@server /]#
```

Step 10: Now go to the LAMP directory and long list the LAMP files by using the below command

# cd docker-lamp/

# ll

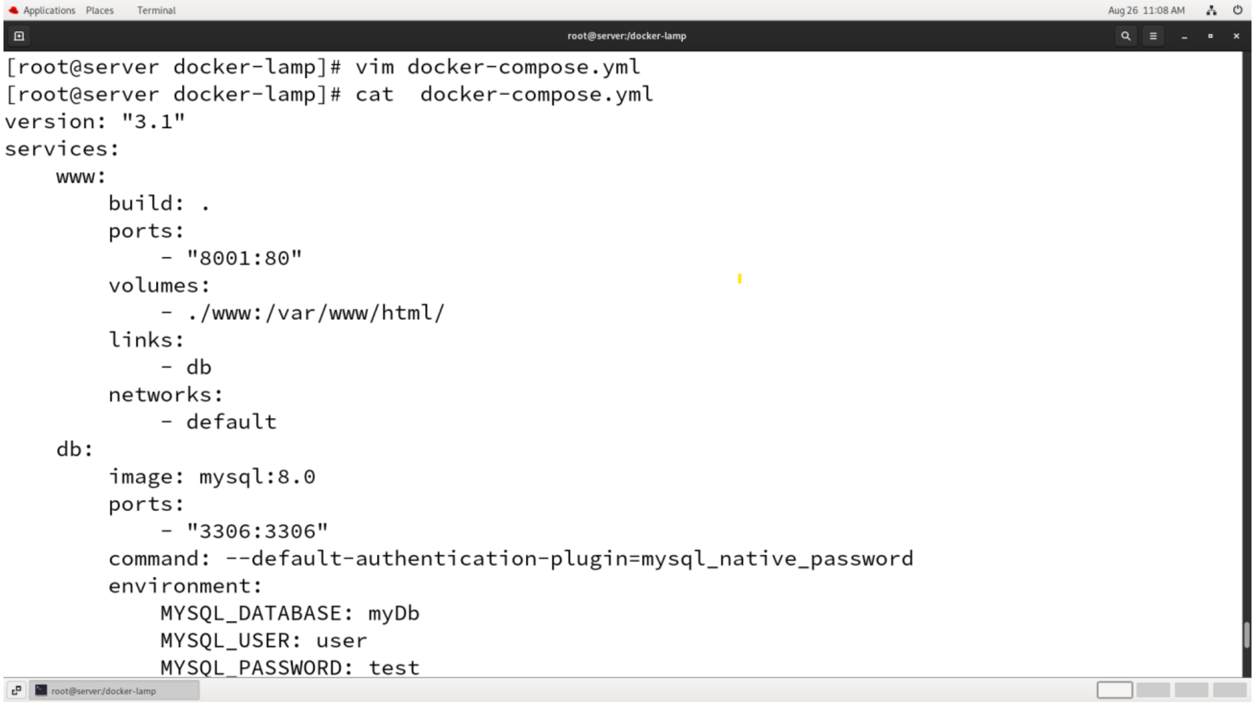


```
[root@server /]#
[root@server /]#
[root@server /]# cd docker-lamp/
[root@server docker-lamp]# ll
total 16
drwxr-xr-x. 2 root root   22 Aug 26 11:02 conf
-rw-r--r--. 1 root root  974 Aug 26 11:02 docker-compose.yml
-rw-r--r--. 1 root root  291 Aug 26 11:02 Dockerfile
drwxr-xr-x. 2 root root   22 Aug 26 11:02 dump
-rw-r--r--. 1 root root 1210 Aug 26 11:02 LICENSE
-rw-r--r--. 1 root root  615 Aug 26 11:02 README.md
drwxr-xr-x. 2 root root   23 Aug 26 11:02 www
[root@server docker-lamp]#
```

Step 11: Open "docker-compose.yml" file and verify the version and port number for LAMP then save and quit from the file by using the below command

# vim docker-compose.yml

# cat docker-compose.yml

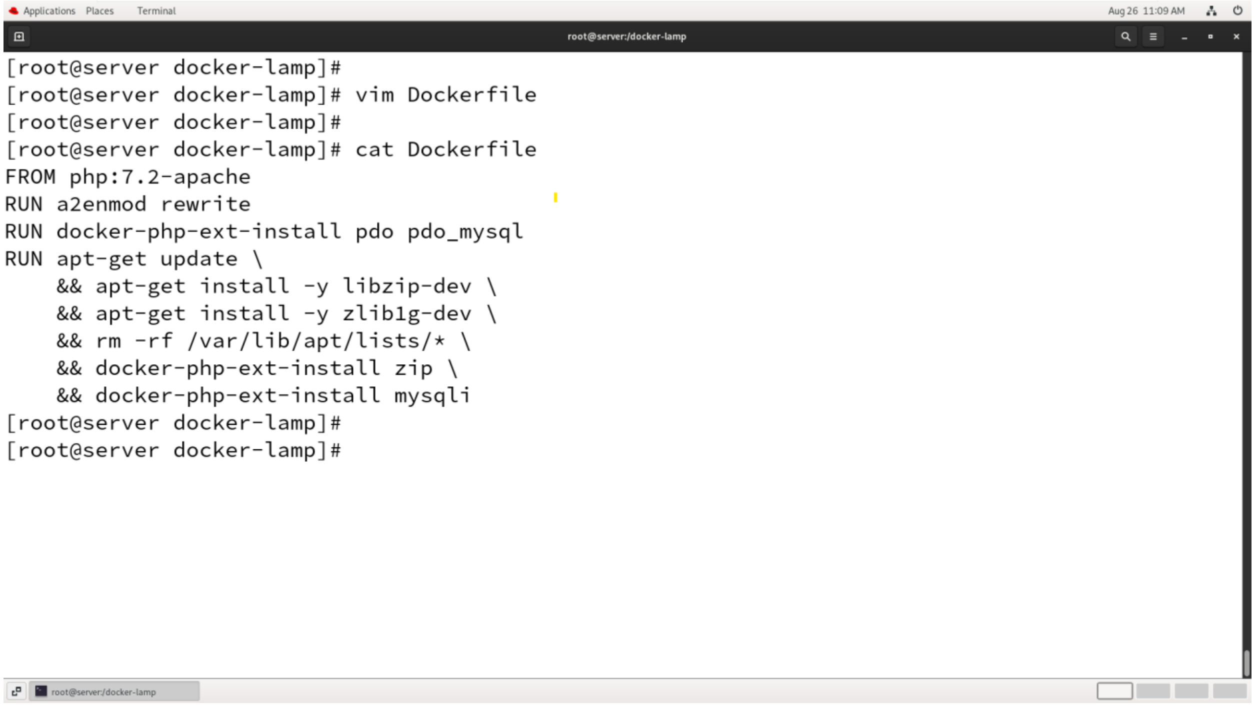


```
[root@server docker-lamp]# vim docker-compose.yml
[root@server docker-lamp]# cat  docker-compose.yml
version: "3.1"
services:
    www:
        build: .
        ports:
            - "8001:80"
        volumes:
            - ./www:/var/www/html/
        links:
            - db
        networks:
            - default
    db:
        image: mysql:8.0
        ports:
            - "3306:3306"
        command: --default-authentication-plugin=mysql_native_password
        environment:
            MYSQL_DATABASE: myDb
            MYSQL_USER: user
            MYSQL_PASSWORD: test
```

Step 12: Next open "Dockerfile" and verify the installation command for LAMP then save and quit from the file by using the below command

# vim Dockerfile

# cat Dockerfile

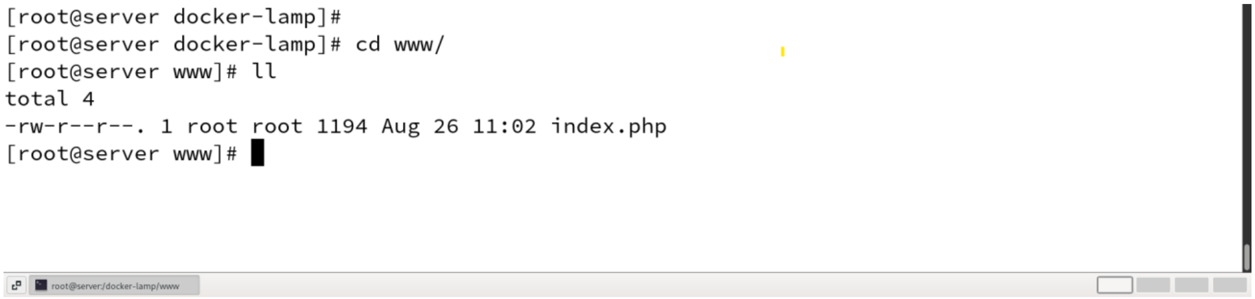


```
[root@server docker-lamp]#
[root@server docker-lamp]# vim Dockerfile
[root@server docker-lamp]#
[root@server docker-lamp]# cat Dockerfile
FROM php:7.2-apache
RUN a2enmod rewrite
RUN docker-php-ext-install pdo pdo_mysql
RUN apt-get update \
    && apt-get install -y libzip-dev \
    && apt-get install -y zlib1g-dev \
    && rm -rf /var/lib/apt/lists/* \
    && docker-php-ext-install zip \
    && docker-php-ext-install mysqli
[root@server docker-lamp]#
[root@server docker-lamp]#
```

Step 13: Now go the document root location inside the LAMP directory by using the below command

# cd www/

# ll

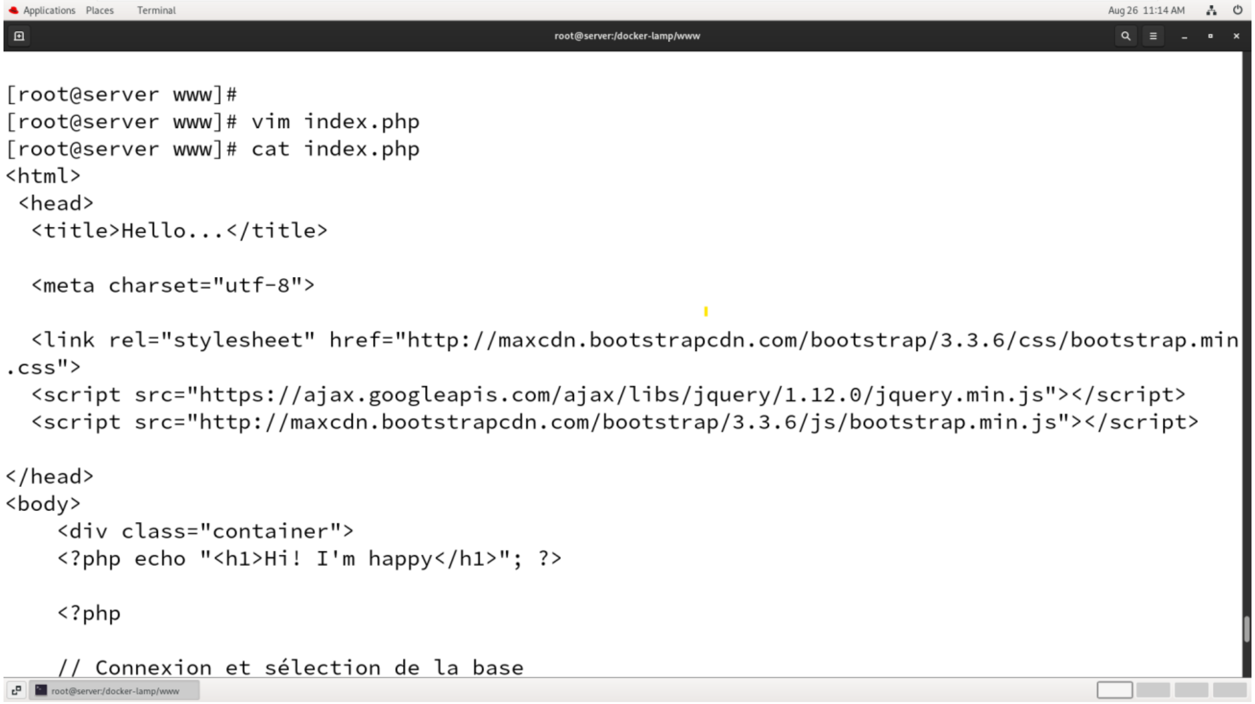


```
[root@server docker-lamp]#
[root@server docker-lamp]# cd www/
[root@server www]# ll
total 4
-rw-r--r--. 1 root root 1194 Aug 26 11:02 index.php
[root@server www]# 
```

Step 14: We can keep our web files in www directory by using the below command

#vim index.php

#cat index.php



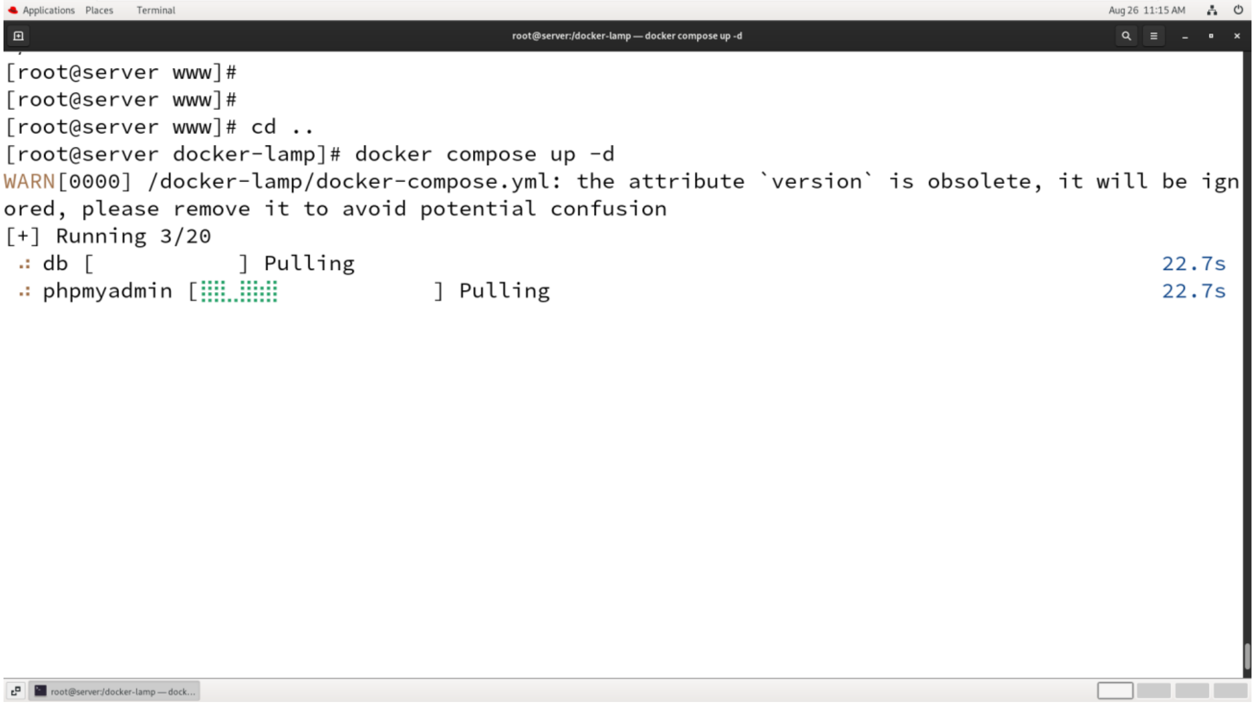
Applications Places Terminal
Aug 26 11:14 AM
root@server:/docker-lamp/www
root@server:/docker-lamp/www

```
[root@server www]#
[root@server www]# vim index.php
[root@server www]# cat index.php
<html>
 <head>
  <title>Hello...</title>

  <meta charset="utf-8">

  <link rel="stylesheet" href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min
.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.0/jquery.min.js"></script>
  <script src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js"></script>

</head>
<body>
    <div class="container">
    <?php echo "<h1>Hi! I'm happy</h1>"; ?>

    <?php

    // Connexion et sélection de la base
```

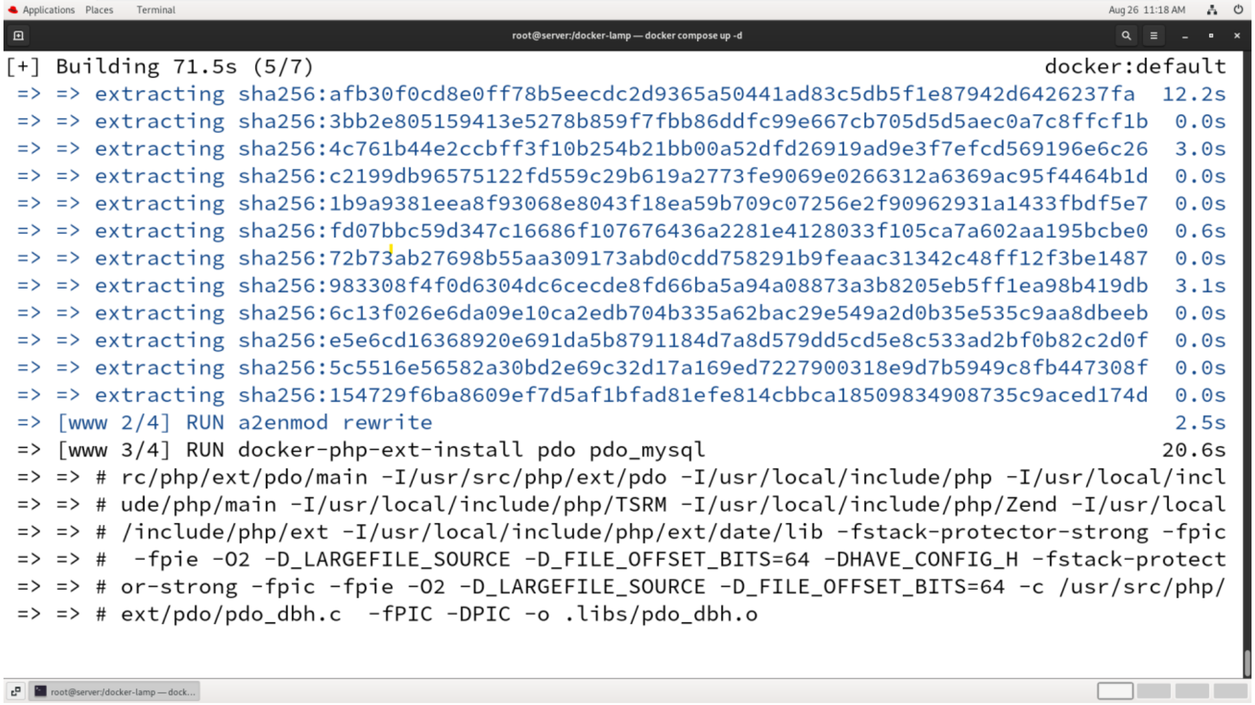
Step 15: Now use the docker compose command to pull images and create containers and required networks for that go to LAMP directory by using the below command

# cd ..

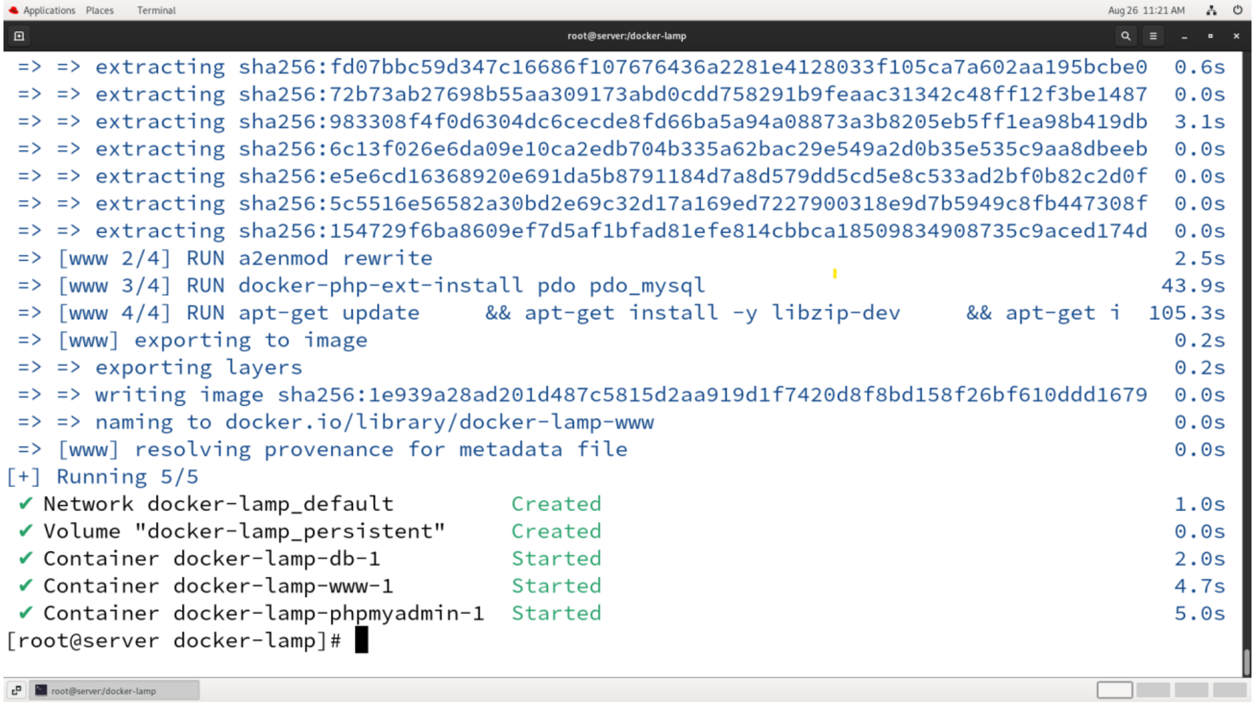
# docker compose up -d


Applications
Places
Terminal
Aug 26 11:15 AM
root@server:/docker-lamp — docker compose up -d
root@server:/docker-lamp — dock...

```
[root@server www]#
[root@server www]#
[root@server www]# cd ..
[root@server docker-lamp]# docker compose up -d
WARN[0000] /docker-lamp/docker-compose.yml: the attribute `version` is obsolete, it will be ign
ored, please remove it to avoid potential confusion
[+] Running 3/20
 ⠴ db [          ] Pulling                                                               22.7s
 ⠴ phpmyadmin [⣿⣿⣀⣿⣿          ] Pulling                                                   22.7s
```


Applications
Places
Terminal
Aug 26 11:18 AM
root@server:/docker-lamp — docker compose up -d
root@server:/docker-lamp — dock...

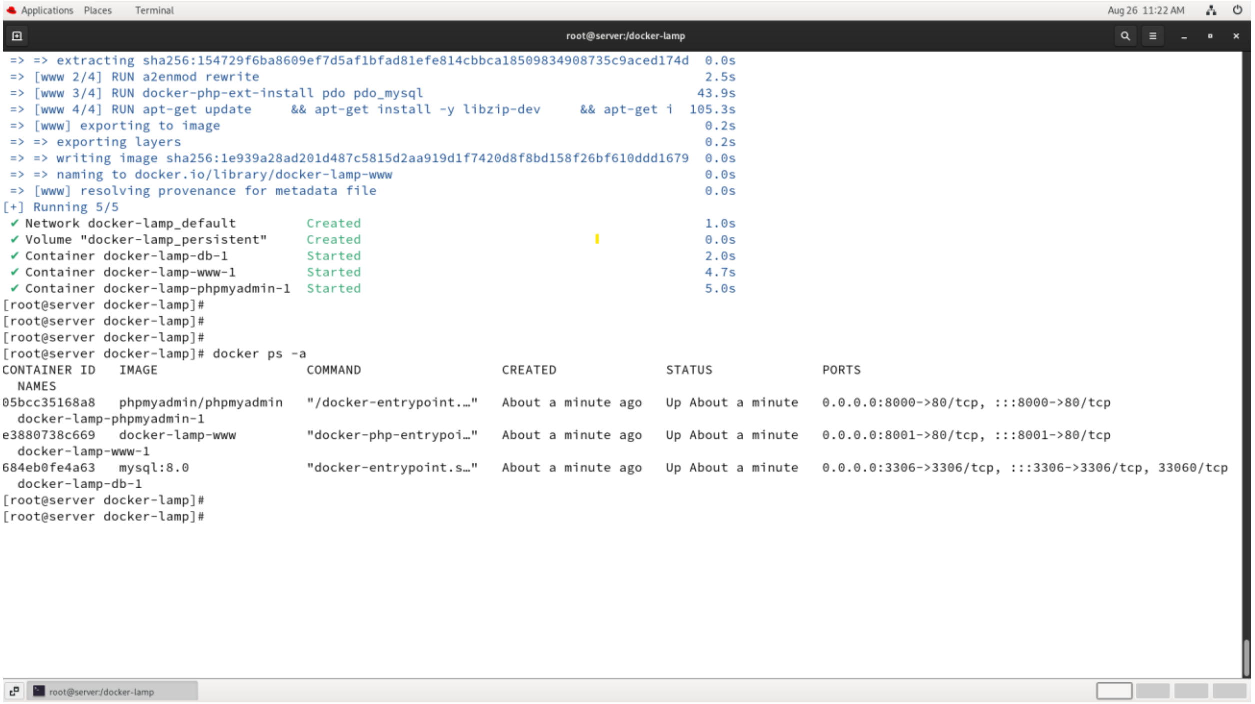
```
[+] Building 71.5s (5/7)                                                          docker:default
 => => extracting sha256:afb30f0cd8e0ff78b5eecdc2d9365a50441ad83c5db5f1e87942d6426237fa  12.2s
 => => extracting sha256:3bb2e805159413e5278b859f7fbb86ddfc99e667cb705d5d5aec0a7c8ffcf1b  0.0s
 => => extracting sha256:4c761b44e2ccbff3f10b254b21bb00a52dfd26919ad9e3f7efcd569196e6c26  3.0s
 => => extracting sha256:c2199db96575122fd559c29b619a2773fe9069e0266312a6369ac95f4464b1d  0.0s
 => => extracting sha256:1b9a9381eea8f93068e8043f18ea59b709c07256e2f90962931a1433fbdf5e7  0.0s
 => => extracting sha256:fd07bbc59d347c16686f107676436a2281e4128033f105ca7a602aa195bcbe0  0.6s
 => => extracting sha256:72b73ab27698b55aa309173abd0cdd758291b9feaac31342c48ff12f3be1487  0.0s
 => => extracting sha256:983308f4f0d6304dc6cecde8fd66ba5a94a08873a3b8205eb5ff1ea98b419db  3.1s
 => => extracting sha256:6c13f026e6da09e10ca2edb704b335a62bac29e549a2d0b35e535c9aa8dbeeb  0.0s
 => => extracting sha256:e5e6cd16368920e691da5b8791184d7a8d579dd5cd5e8c533ad2bf0b82c2d0f  0.0s
 => => extracting sha256:5c5516e56582a30bd2e69c32d17a169ed7227900318e9d7b5949c8fb447308f  0.0s
 => => extracting sha256:154729f6ba8609ef7d5af1bfad81efe814cbbca18509834908735c9aced174d  0.0s
 => [www 2/4] RUN a2enmod rewrite                                                          2.5s
 => [www 3/4] RUN docker-php-ext-install pdo pdo_mysql                                    20.6s
 => => # rc/php/ext/pdo/main -I/usr/src/php/ext/pdo -I/usr/local/include/php -I/usr/local/incl
 => => # ude/php/main -I/usr/local/include/php/TSRM -I/usr/local/include/php/Zend -I/usr/local
 => => # /include/php/ext -I/usr/local/include/php/ext/date/lib -fstack-protector-strong -fpic
 => => #  -fpie -O2 -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64 -DHAVE_CONFIG_H -fstack-protect
 => => # or-strong -fpic -fpie -O2 -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64 -c /usr/src/php/
 => => # ext/pdo/pdo_dbh.c  -fPIC -DPIC -o .libs/pdo_dbh.o
```



```
 => => extracting sha256:fd07bbc59d347c16686f107676436a2281e4128033f105ca7a602aa195bcbe0  0.6s
 => => extracting sha256:72b73ab27698b55aa309173abd0cdd758291b9feaac31342c48ff12f3be1487  0.0s
 => => extracting sha256:983308f4f0d6304dc6cecde8fd66ba5a94a08873a3b8205eb5ff1ea98b419db  3.1s
 => => extracting sha256:6c13f026e6da09e10ca2edb704b335a62bac29e549a2d0b35e535c9aa8dbeeb  0.0s
 => => extracting sha256:e5e6cd16368920e691da5b8791184d7a8d579dd5cd5e8c533ad2bf0b82c2d0f  0.0s
 => => extracting sha256:5c5516e56582a30bd2e69c32d17a169ed7227900318e9d7b5949c8fb447308f  0.0s
 => => extracting sha256:154729f6ba8609ef7d5af1bfad81efe814cbbca18509834908735c9aced174d  0.0s
 => [www 2/4] RUN a2enmod rewrite                                                          2.5s
 => [www 3/4] RUN docker-php-ext-install pdo pdo_mysql                                    43.9s
 => [www 4/4] RUN apt-get update     && apt-get install -y libzip-dev     && apt-get i  105.3s
 => [www] exporting to image                                                               0.2s
 => => exporting layers                                                                    0.2s
 => => writing image sha256:1e939a28ad201d487c5815d2aa919d1f7420d8f8bd158f26bf610ddd1679  0.0s
 => => naming to docker.io/library/docker-lamp-www                                        0.0s
 => [www] resolving provenance for metadata file                                          0.0s
[+] Running 5/5
 ✔ Network docker-lamp_default         Created                                            1.0s
 ✔ Volume "docker-lamp_persistent"     Created                                            0.0s
 ✔ Container docker-lamp-db-1          Started                                            2.0s
 ✔ Container docker-lamp-www-1         Started                                            4.7s
 ✔ Container docker-lamp-phpmyadmin-1  Started                                            5.0s
[root@server docker-lamp]# 
```

Step 16: Check the Container status by using the below command

#docker ps -a



```
 => => extracting sha256:154729f6ba8609ef7d5af1bfad81efe814cbbca18509834908735c9aced174d  0.0s
 => [www 2/4] RUN a2enmod rewrite                                                          2.5s
 => [www 3/4] RUN docker-php-ext-install pdo pdo_mysql                                    43.9s
 => [www 4/4] RUN apt-get update     && apt-get install -y libzip-dev     && apt-get i  105.3s
 => [www] exporting to image                                                               0.2s
 => => exporting layers                                                                    0.2s
 => => writing image sha256:1e939a28ad201d487c5815d2aa919d1f7420d8f8bd158f26bf610ddd1679  0.0s
 => => naming to docker.io/library/docker-lamp-www                                        0.0s
 => [www] resolving provenance for metadata file                                          0.0s
[+] Running 5/5
 ✔ Network docker-lamp_default         Created                                            1.0s
 ✔ Volume "docker-lamp_persistent"     Created                                            0.0s
 ✔ Container docker-lamp-db-1          Started                                            2.0s
 ✔ Container docker-lamp-www-1         Started                                            4.7s
 ✔ Container docker-lamp-phpmyadmin-1  Started                                            5.0s
[root@server docker-lamp]#
[root@server docker-lamp]#
[root@server docker-lamp]#
[root@server docker-lamp]# docker ps -a
CONTAINER ID   IMAGE                   COMMAND                  CREATED              STATUS              PORTS
  NAMES
05bcc35168a8   phpmyadmin/phpmyadmin   "/docker-entrypoint.…"   About a minute ago   Up About a minute   0.0.0.0:8000->80/tcp, :::8000->80/tcp
  docker-lamp-phpmyadmin-1
e3880738c669   docker-lamp-www         "docker-php-entrypoi…"   About a minute ago   Up About a minute   0.0.0.0:8001->80/tcp, :::8001->80/tcp
  docker-lamp-www-1
684eb0fe4a63   mysql:8.0               "docker-entrypoint.s…"   About a minute ago   Up About a minute   0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp
  docker-lamp-db-1
[root@server docker-lamp]#
[root@server docker-lamp]#
```

Step 17: Now go the web browser and check the LAMP Service Status by using our server IP address with LAMP Service ports by using the below command

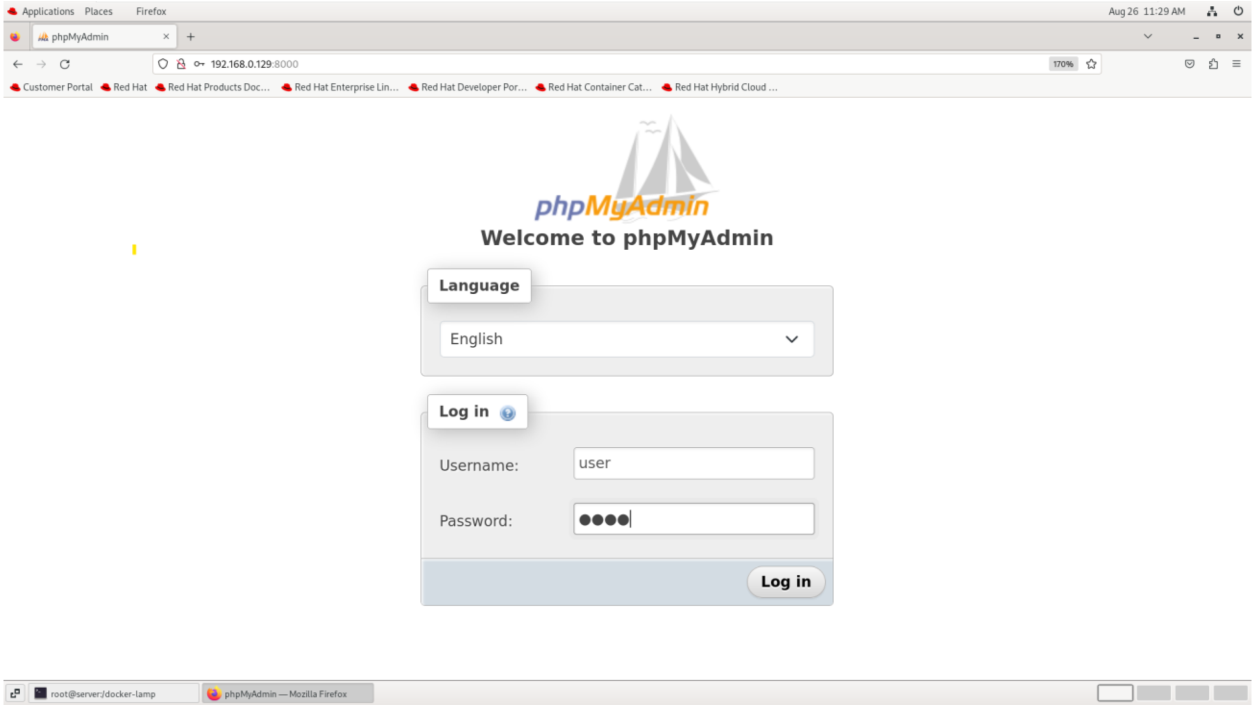
- **phpmyadmin: 8000**
- **Apache: 8001**
- **mysql: 3306**

http://<IP Address>:8000

in phpmyAdmin

username:-user

password:-test



Welcome to phpMyAdmin

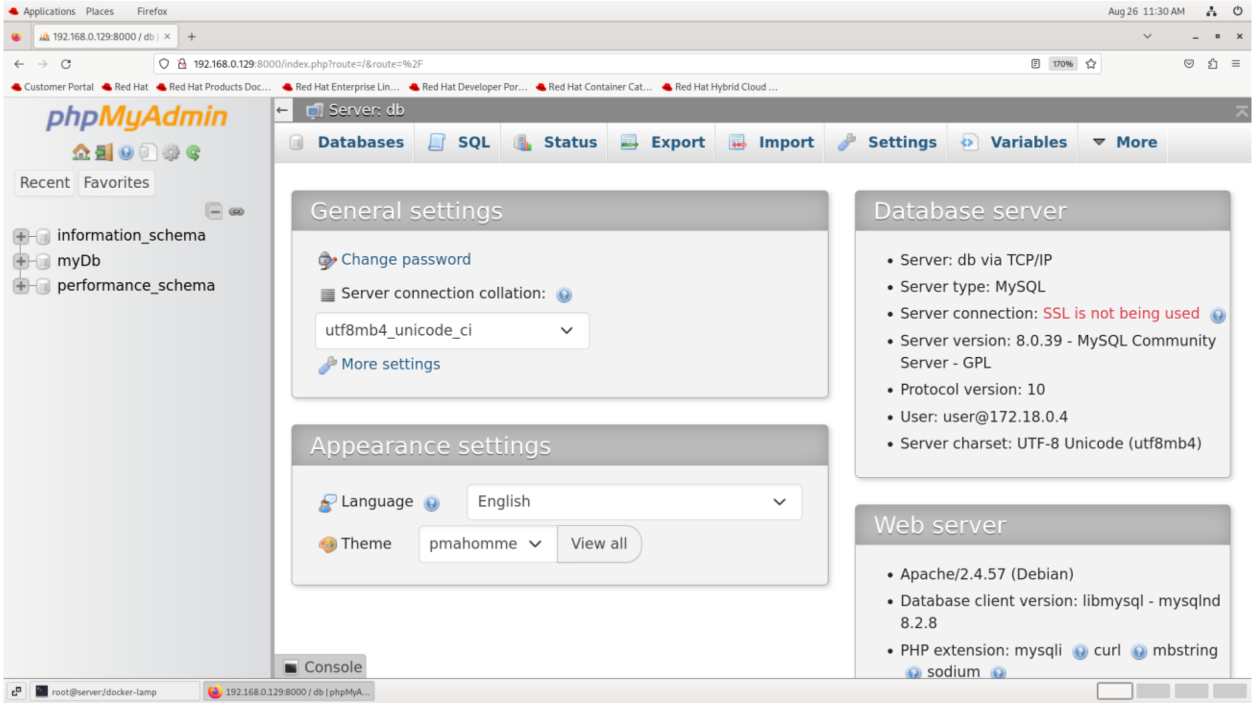
Language

English

Log in

Username: user

Password: ●●●●


Applications Places Firefox
Aug 26 11:30 AM
192.168.0.129:8000 / db |
192.168.0.129:8000/index.php?route=/&route=%2F
170%
Customer Portal Red Hat Red Hat Products Doc... Red Hat Enterprise Lin... Red Hat Developer Por... Red Hat Container Cat... Red Hat Hybrid Cloud ...
phpMyAdmin
Recent Favorites
information_schema
myDb
performance_schema
Server: db
Databases SQL Status Export Import Settings Variables More
Console
root@server:/docker-lamp
192.168.0.129:8000 / db | phpMyA...

General settings

Change password

Server connection collation: utf8mb4_unicode_ci

More settings

Appearance settings

Language: English

Theme: pmahomme View all

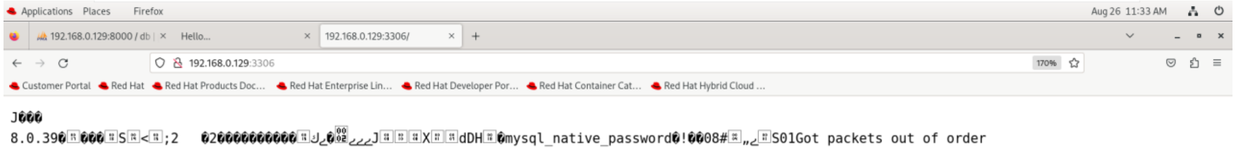
Database server

- Server: db via TCP/IP
- Server type: MySQL
- Server connection: SSL is not being used
- Server version: 8.0.39 - MySQL Community Server - GPL
- Protocol version: 10
- User: user@172.18.0.4
- Server charset: UTF-8 Unicode (utf8mb4)

Web server

- Apache/2.4.57 (Debian)
- Database client version: libmysql - mysqlnd 8.2.8
- PHP extension: mysqli curl mbstring sodium

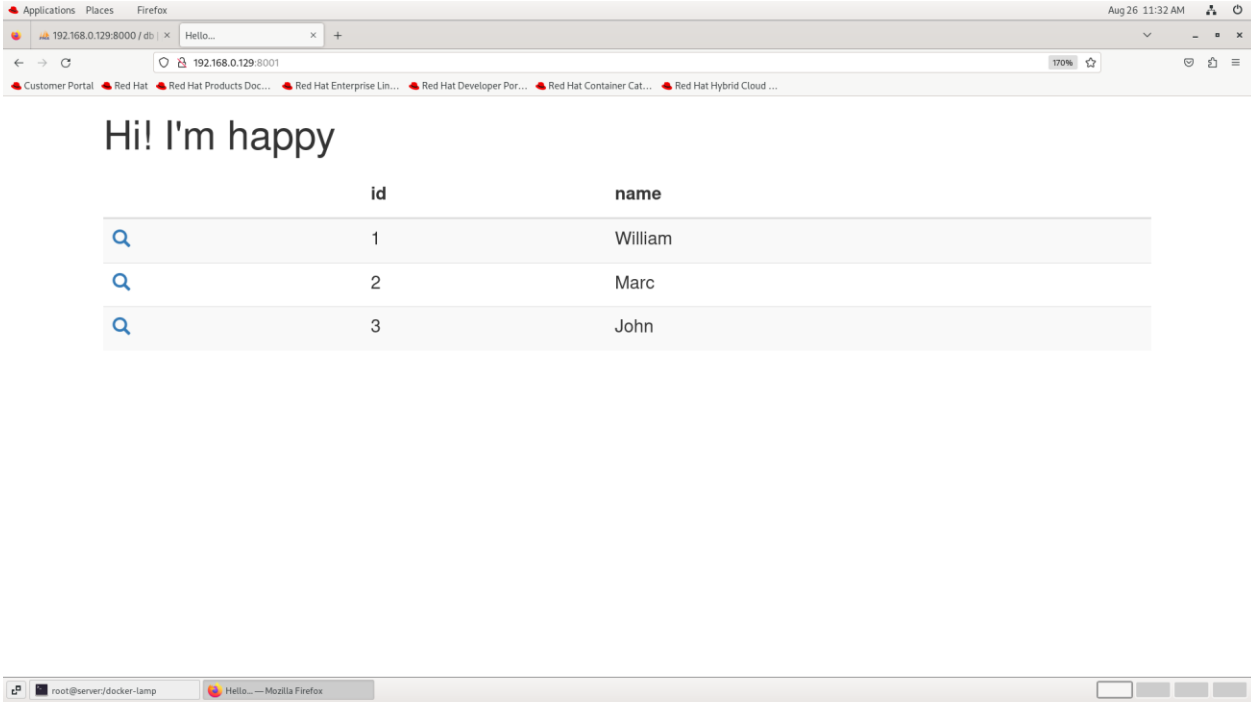
http://<IP Address>:3306


Applications Places Firefox
Aug 26 11:33 AM
192.168.0.129:8000 / db | Hello... 192.168.0.129:3306/
192.168.0.129:3306
170%
Customer Portal Red Hat Red Hat Products Doc... Red Hat Enterprise Lin... Red Hat Developer Por... Red Hat Container Cat... Red Hat Hybrid Cloud ...

```
J���
8.0.39����S<;2   �2�����������ك�ےےےJXdDH�mysql_native_password�!��08#„ے S01Got packets out of order
```

Now,To Show Apache Page

http://<IP Address>:8001



Hi! I'm happy

	id	name
🔍	1	William
🔍	2	Marc
🔍	3	John

Note:-After Complete a Setup kindly Roll Back a Pratical

*****Thank You!*****