

## **Course: Linux Training**

### **Linux Project – Installing WordPress on Centos7**

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Problem Statement: 1. First, you need a CentOS 7 server installed and configured with a non-root user that has sudo privileges.

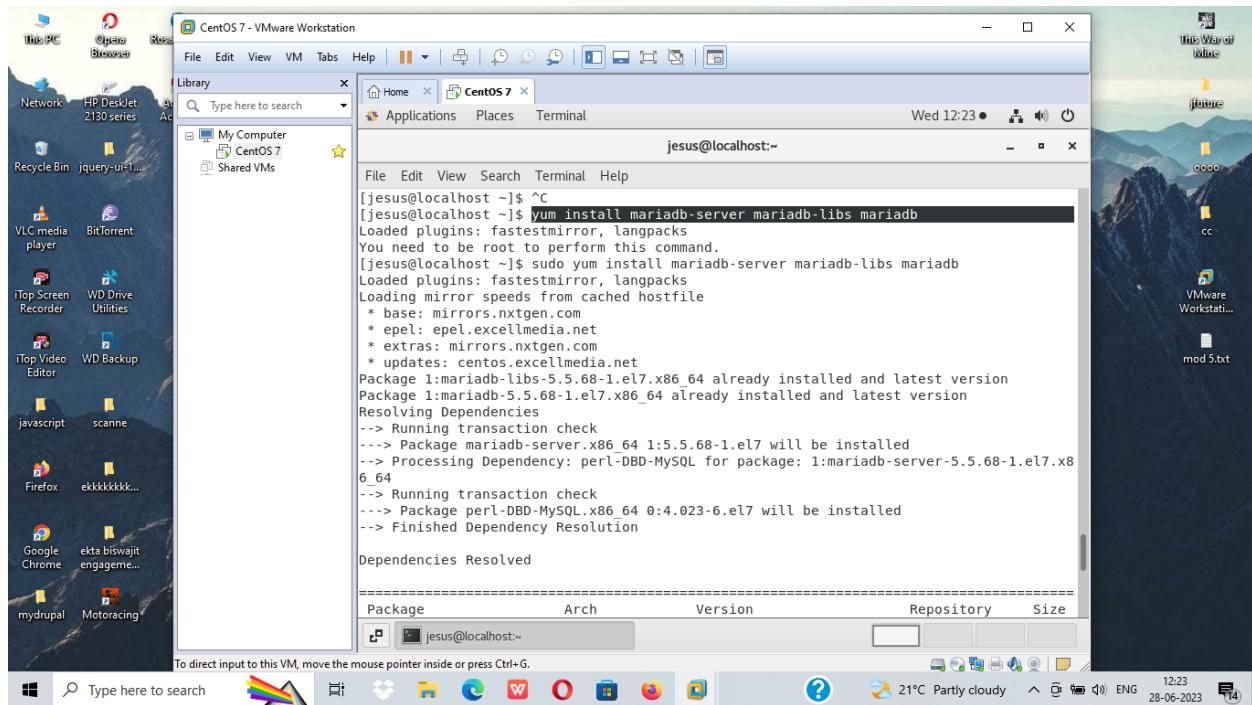
2. Install the LAMP Stack on your Centos7.
3. Create a MySQL Database for your WordPress, name it anything.

Next, you can proceed as following:

1. After creating your account on WordPress (with Database), then flush it using Flush Privileges and Install a PHP Module, without this module WordPress will not be able to resize images to create thumbnails. We can get that package directly from CentOS's default repositories using yum and also we will install and update the WordPress for the latest Template & Formats, we have to use these following commands to keep it updated:

```
sudo yum install php-gd  
sudo service httpd restart  
cd ~wgethttp://wordpress.org/latest.tar.gz  
tar xzvf latest.tar.gz  
sudorsync -avP ~/wordpress/ /var/www/html/  
mkdir /var/www/html/wp-content/uploads  
sudochown -R apache:apache /var/www/html/*  
2. Then configure your WordPress by using root directories  
3. Complete your WordPress Installation using the Web Interface by navigating to  
your servers domain name and public IP address and continue Login  
http://server\_domain\_name\_or\_ip.
```

## 1. We install maria database on our centos7 as shown below



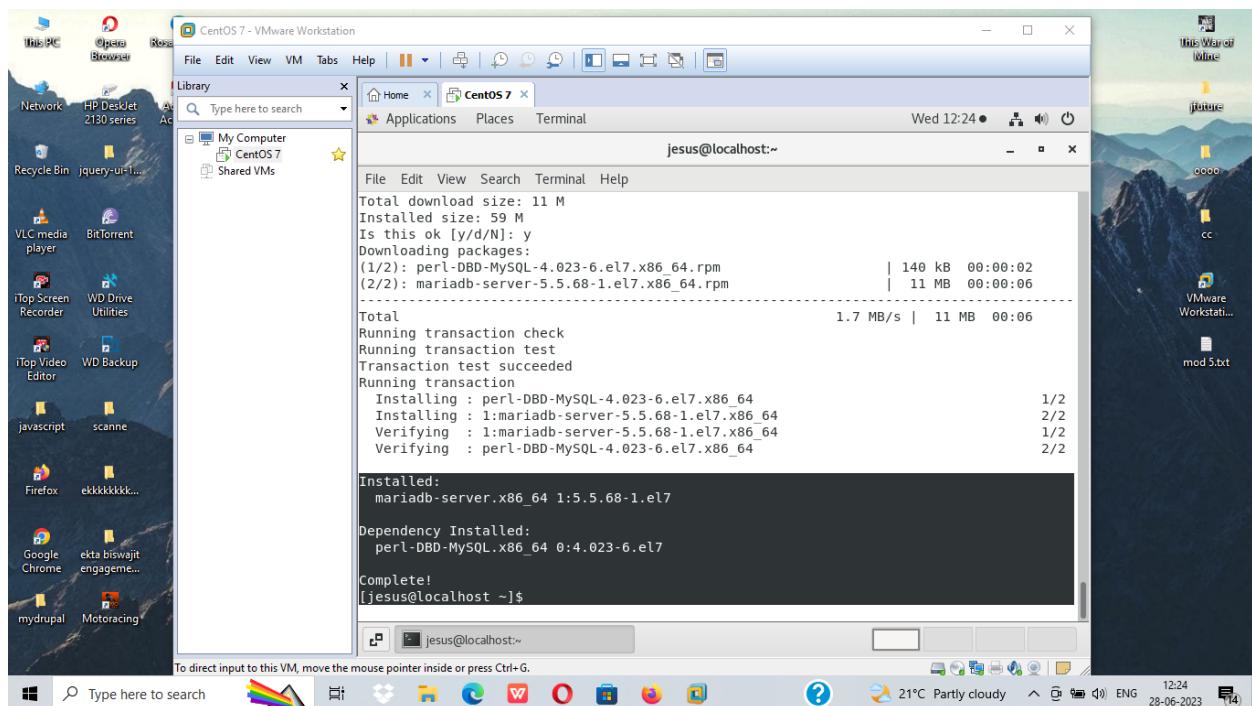
The screenshot shows a CentOS 7 desktop environment within a VMware Workstation window. The desktop has a dark blue theme with various icons for applications like VLC media player, BitTorrent, and Google Chrome. A terminal window titled 'CentOS 7' is open, showing the command line output of a yum installation process. The terminal window has a light gray background and black text. The system tray at the bottom right shows the date as 28-06-2023 and the time as 12:23.

```
[jesus@localhost ~]$ ^C
[jesus@localhost ~]$ yum install mariadb-server mariadb-libs mariadb
Loaded plugins: fastestmirror, langpacks
You need to be root to perform this command.
[jesus@localhost ~]$ sudo yum install mariadb-server mariadb-libs mariadb
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
 * base: mirrors.nxtgen.com
 * epel: epel.excellmedia.net
 * extras: mirrors.nxtgen.com
 * updates: centos.excellmedia.net
Package 1:mariadb-libs-5.5.68-1.el7.x86_64 already installed and latest version
Package 1:mariadb-5.5.68-1.el7.x86_64 already installed and latest version
Resolving Dependencies
--> Running transaction check
--> Package mariadb-server.x86_64 1:5.5.68-1.el7 will be installed
--> Processing Dependency: perl-DBD-MySQL for package: 1:mariadb-server-5.5.68-1.el7.x8
6_64
--> Running transaction check
--> Package perl-DBD-MySQL.x86_64 0:4.023-6.el7 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package           Arch      Version       Repository   Size
=====
[jesús@localhost ~] 21°C Partly cloudy 12:23 28-06-2023
```

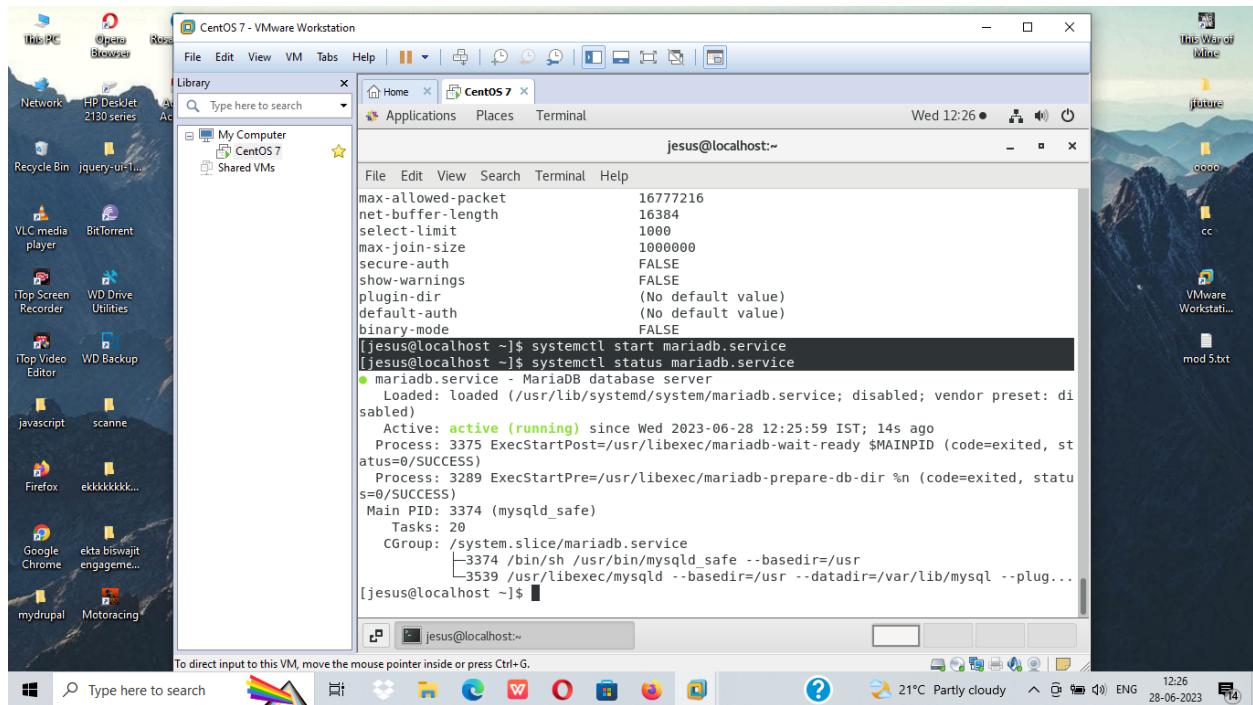
## 2.our database is installed



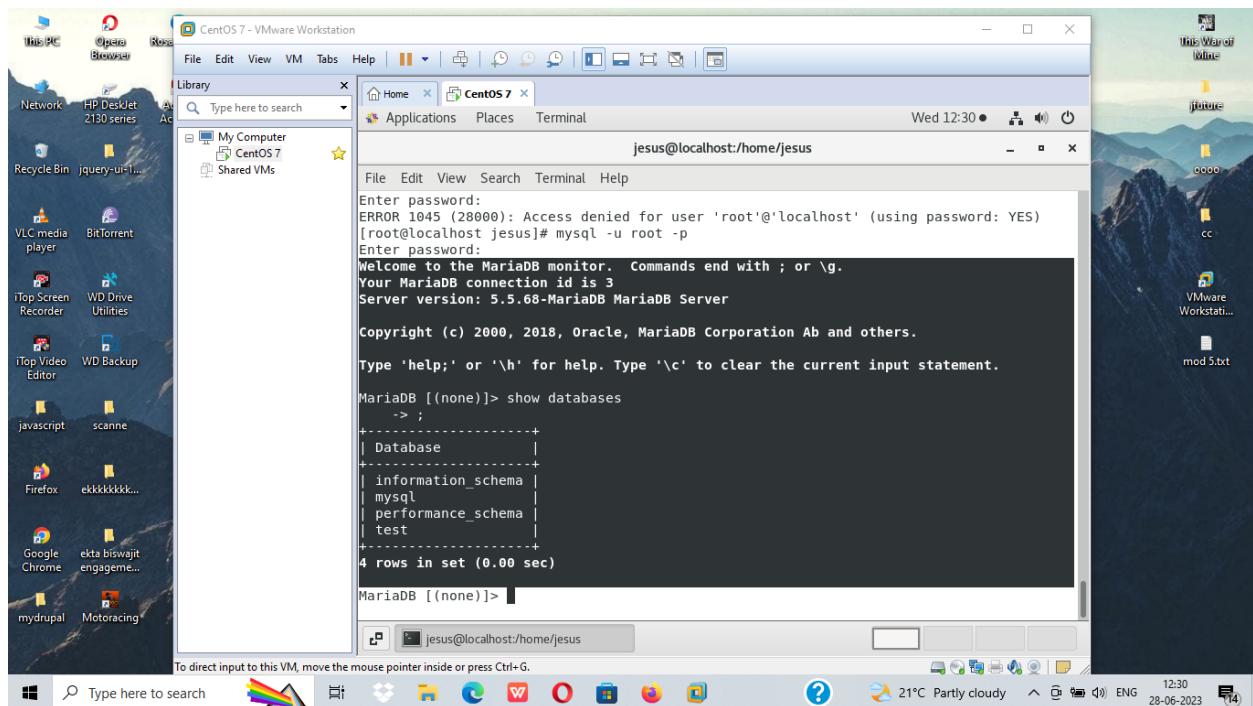
The screenshot shows a CentOS 7 desktop environment within a VMware Workstation window. The desktop has a dark blue theme with various icons for applications like VLC media player, BitTorrent, and Google Chrome. A terminal window titled 'CentOS 7' is open, showing the command line output of a yum installation process. The terminal window has a light gray background and black text. The system tray at the bottom right shows the date as 28-06-2023 and the time as 12:24.

```
Total download size: 11 M
Installed size: 59 M
Is this ok [y/d/N]: y
Downloading packages:
(1/2): perl-DBD-MySQL-4.023-6.el7.x86_64.rpm | 140 KB 00:00:02
(2/2): mariadb-server-5.5.68-1.el7.x86_64.rpm | 11 MB 00:00:06
Total                                         1.7 MB/s | 11 MB 00:06
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : perl-DBD-MySQL-4.023-6.el7.x86_64          1/2
  Installing : 1:mariadb-server-5.5.68-1.el7.x86_64          2/2
  Verifying  : 1:mariadb-server-5.5.68-1.el7.x86_64          1/2
  Verifying  : perl-DBD-MySQL-4.023-6.el7.x86_64          2/2
Installed:
  mariadb-server.x86_64 1:5.5.68-1.el7
Dependency Installed:
  perl-DBD-MySQL.x86_64 0:4.023-6.el7
Complete!
[jesus@localhost ~]
```

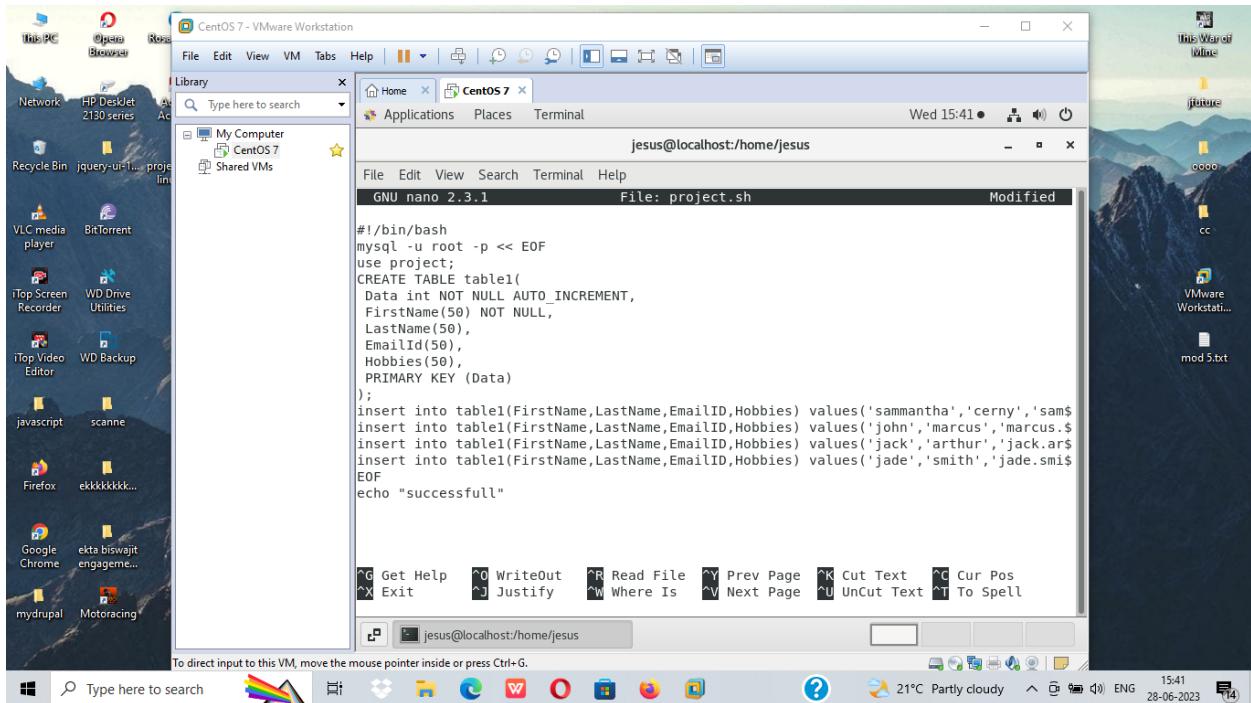
### 3 We start mariadb service and check the status



### 4. as shown we will be creating a database for our project

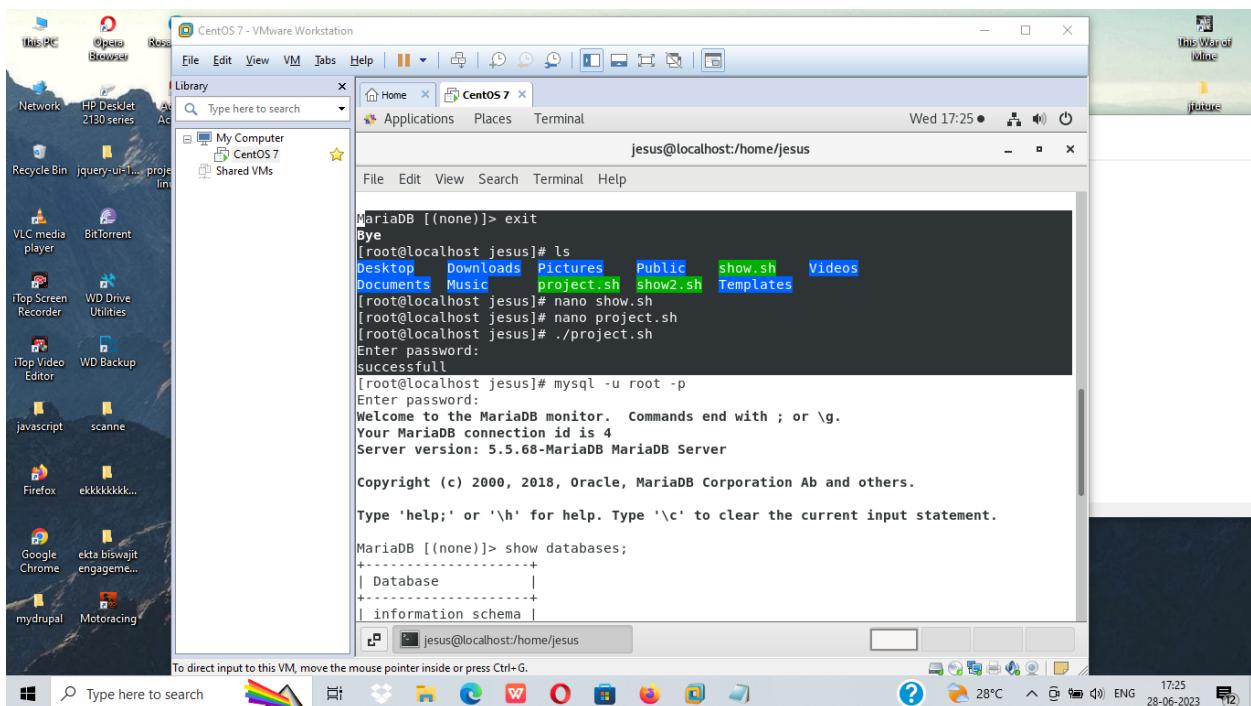


5. this is the code which will create our database and will create our database data which we have entered



```
#!/bin/bash
mysql -u root -p << EOF
use project;
CREATE TABLE table1(
Data int NOT NULL AUTO_INCREMENT,
FirstName(50) NOT NULL,
LastName(50),
EmailId(50),
Hobbies(50),
PRIMARY KEY (Data)
);
insert into table1(FirstName,LastName,EmailId,Hobbies) values('samantha','cerny','sam$'
insert into table1(FirstName,LastName,EmailId,Hobbies) values('john','marcus','marcus.$'
insert into table1(FirstName,LastName,EmailId,Hobbies) values('jack','arthur','jack.ar$'
insert into table1(FirstName,LastName,EmailId,Hobbies) values('jade','smith','jade.smi$'
EOF
echo "successfull"
```

6. we will execute our code by giving executing command



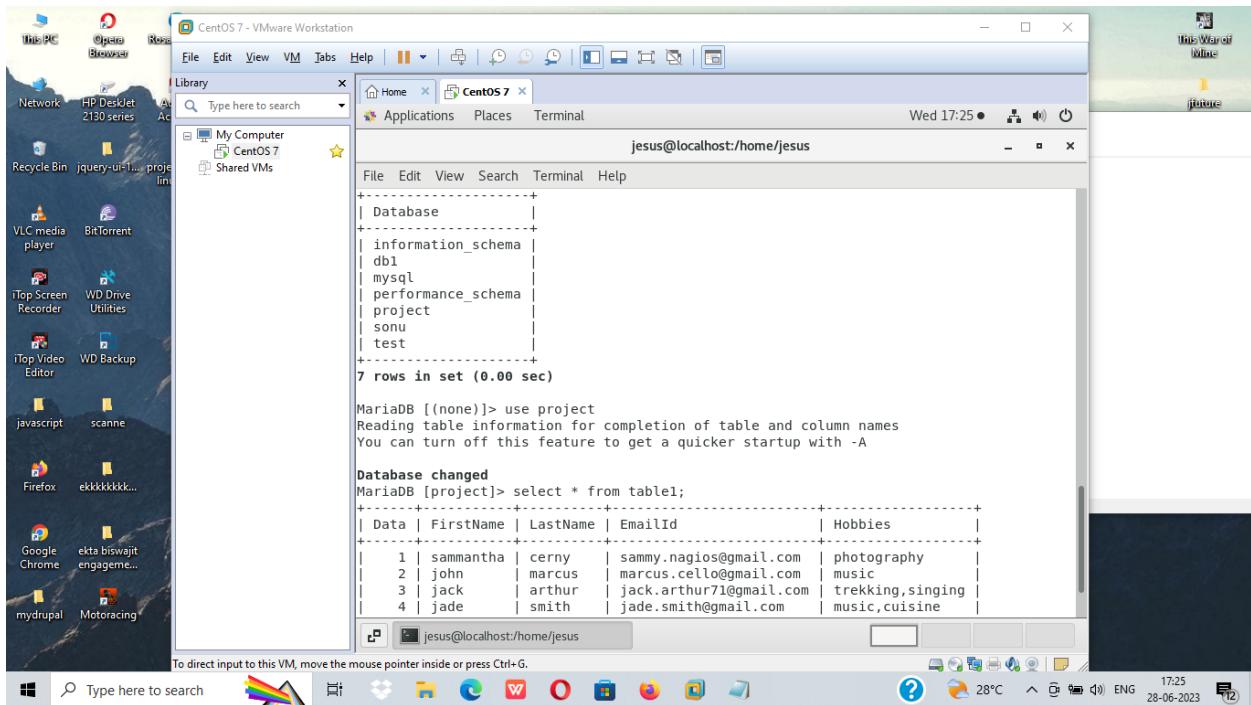
```
MariaDB [(none)]> exit
Bye
[root@localhost jesus]# ls
Desktop Downloads Pictures Public show.sh Videos
Documents Music project.sh show2.sh Templates
[root@localhost jesus]# nano show.sh
[root@localhost jesus]# nano project.sh
[root@localhost jesus]# ./project.sh
Enter password:
successful
[root@localhost jesus]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 4
Server version: 5.5.68-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
```

## 7. our database is created and our data is visible as per question



The screenshot shows a CentOS 7 desktop environment within a VMware Workstation window. The desktop has various icons for applications like VLC media player, BitTorrent, and Google Chrome. A terminal window titled 'CentOS 7' is open, showing the following MySQL query results:

```
jesus@localhost:~$ use project
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

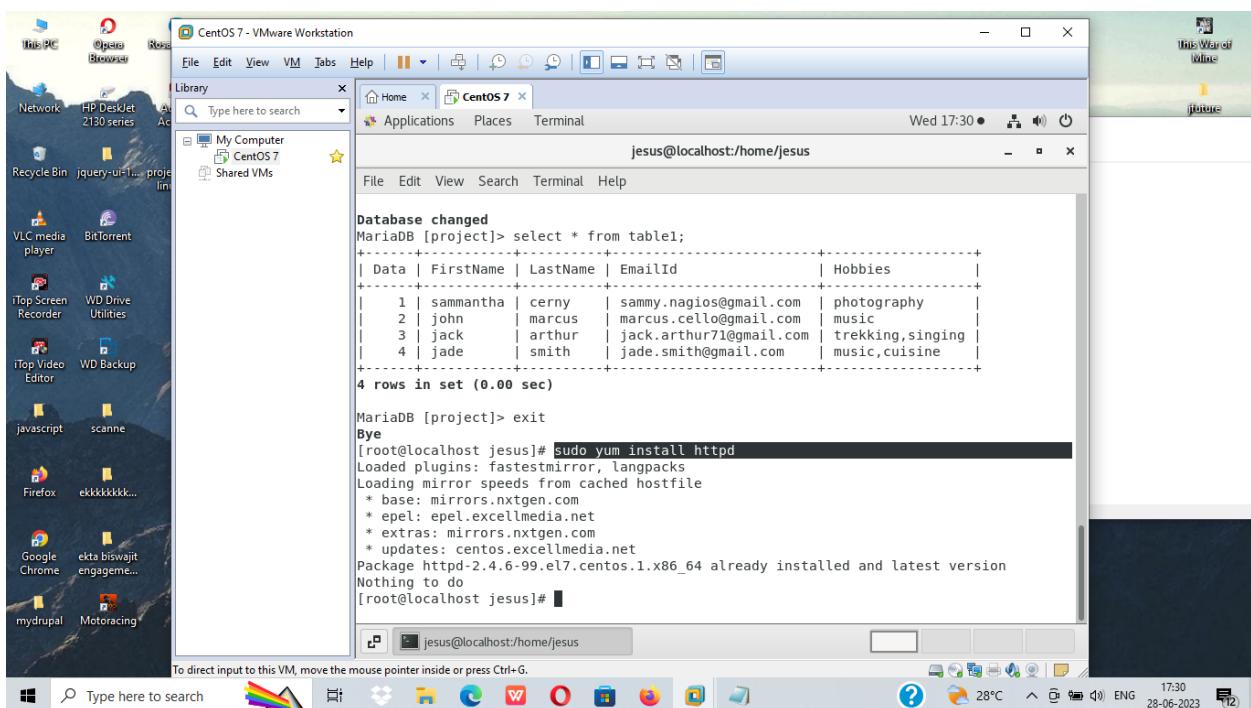
Database changed
MariaDB [project]> select * from table1;
+-----+-----+-----+-----+
| Data | FirstName | LastName | EmailId | Hobbies |
+-----+-----+-----+-----+
| 1 | samantha | cerny | sammy.nagios@gmail.com | photography |
| 2 | john | marcus | marcus.cello@gmail.com | music |
| 3 | jack | arthur | jack.arthur71@gmail.com | trekking,singing |
| 4 | jade | smith | jade.smith@gmail.com | music,cuisine |
+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

jesus@localhost:~\$

At the bottom, the system tray shows the date as 28-06-2023 and the time as 17:25.

## 8. we now install httpd web server and open port 80 on terminal and check the ip address of the os and browse



The screenshot shows a CentOS 7 desktop environment within a VMware Workstation window. The desktop has various icons for applications like VLC media player, BitTorrent, and Google Chrome. A terminal window titled 'CentOS 7' is open, showing the following MySQL query results and a command to install the httpd web server:

```
jesus@localhost:~$ use project
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [project]> select * from table1;
+-----+-----+-----+-----+
| Data | FirstName | LastName | EmailId | Hobbies |
+-----+-----+-----+-----+
| 1 | samantha | cerny | sammy.nagios@gmail.com | photography |
| 2 | john | marcus | marcus.cello@gmail.com | music |
| 3 | jack | arthur | jack.arthur71@gmail.com | trekking,singing |
| 4 | jade | smith | jade.smith@gmail.com | music,cuisine |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

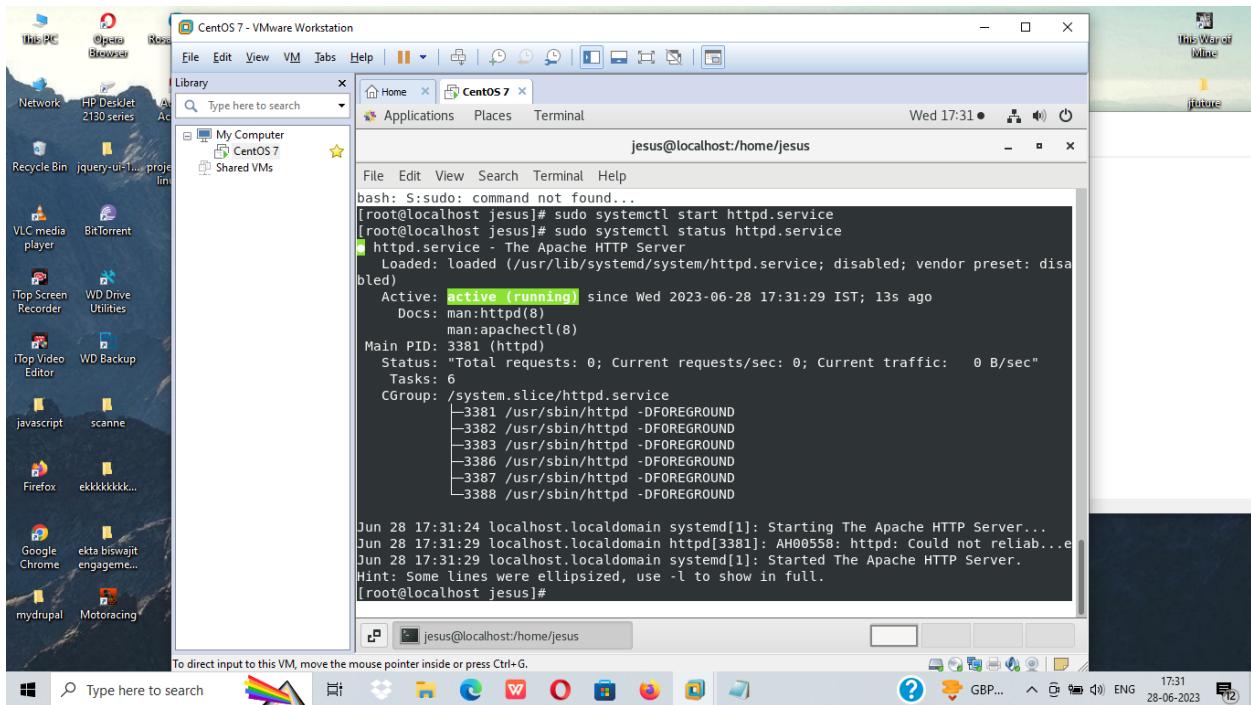
MariaDB [project]> exit
Bye
[root@localhost jesus]# sudo yum install httpd
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
* base: mirrors.nxtgen.com
* epel: epel.excellmedia.net
* extras: mirrors.nxtgen.com
* updates: centos.excellmedia.net
Package httpd-2.4.6-99.el7.centos.1.x86_64 already installed and latest version
Nothing to do
[root@localhost jesus]#
```

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

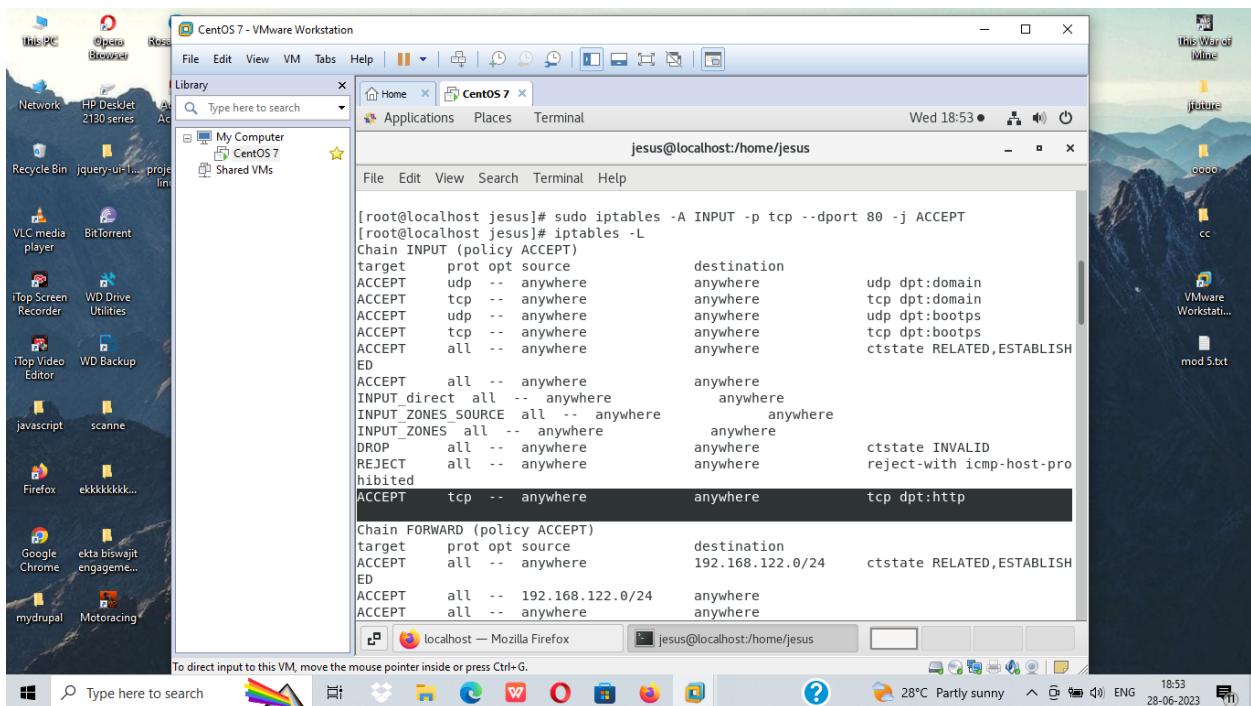
jesus@localhost:~\$

At the bottom, the system tray shows the date as 28-06-2023 and the time as 17:30.

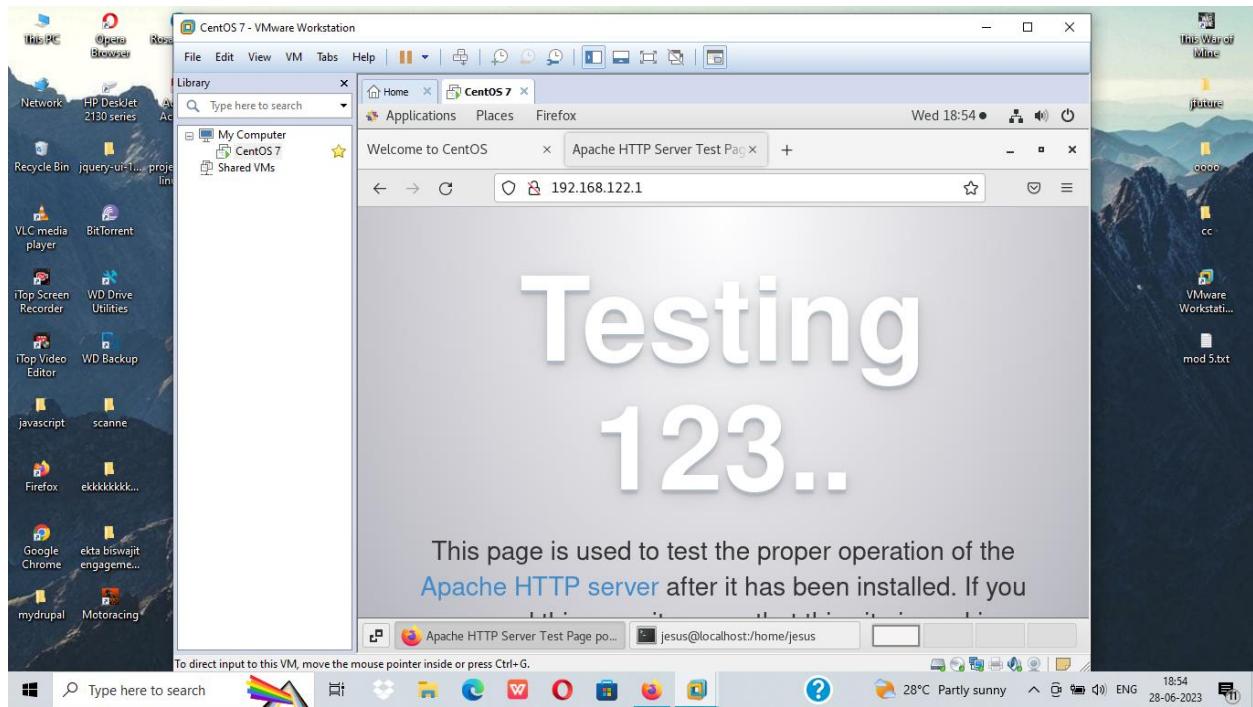
## 9. we will check httpd status if not active we will start



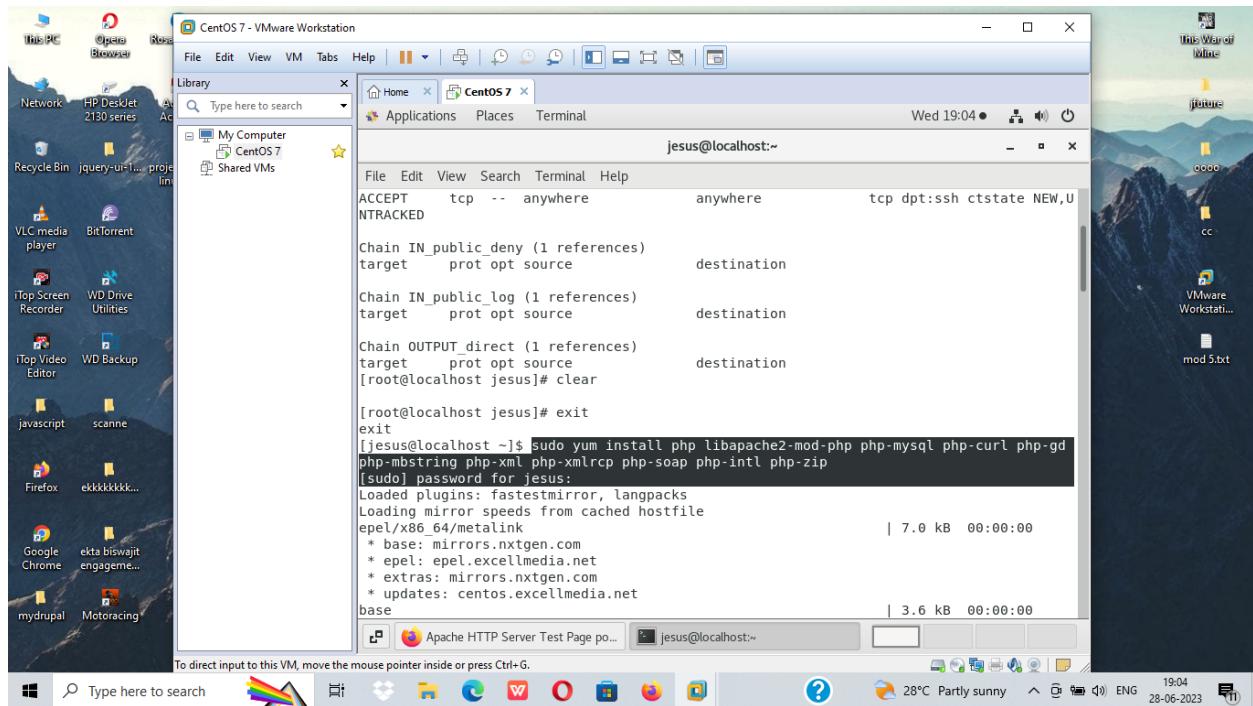
## 10. we open port 80



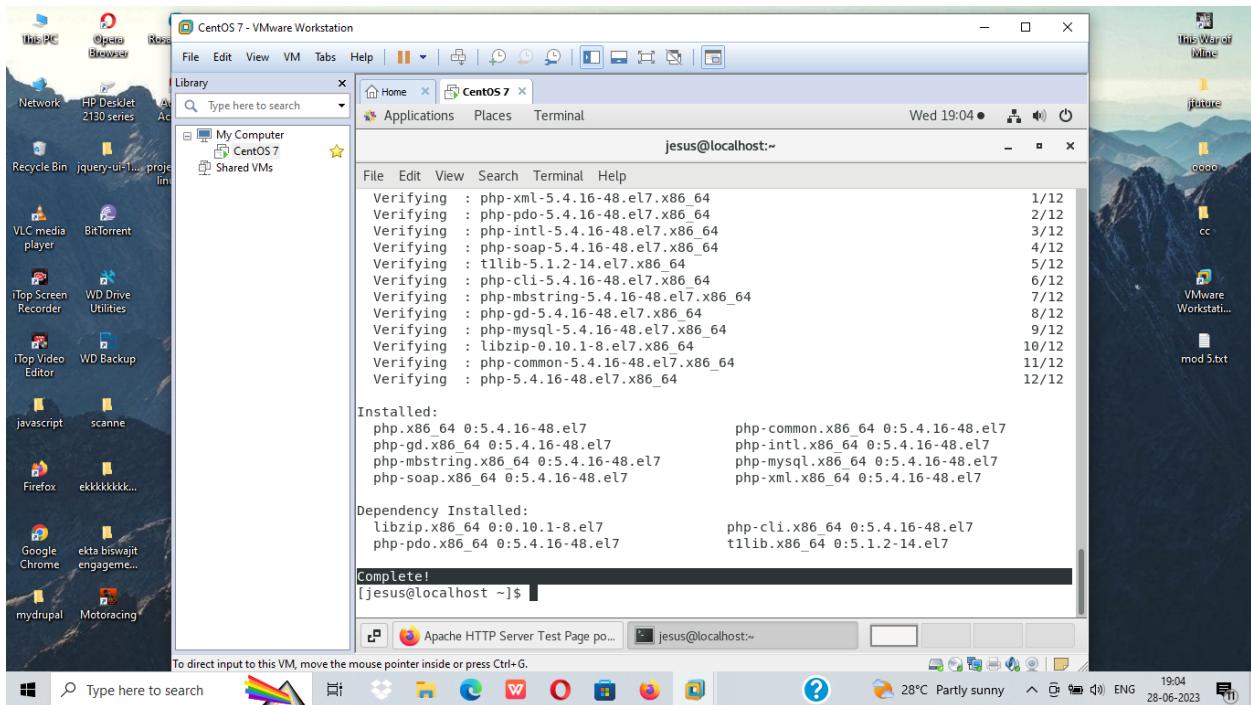
## 11. we browse ip on the browser and it works



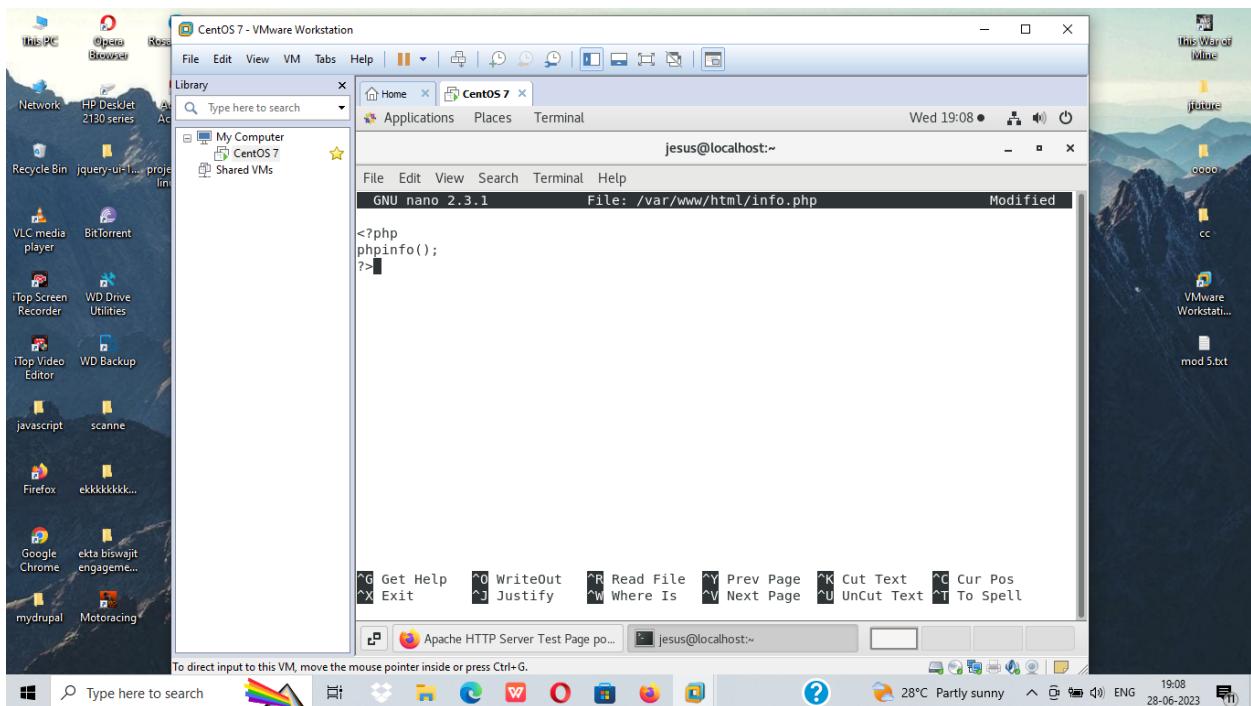
## 12. we install other tools as shown



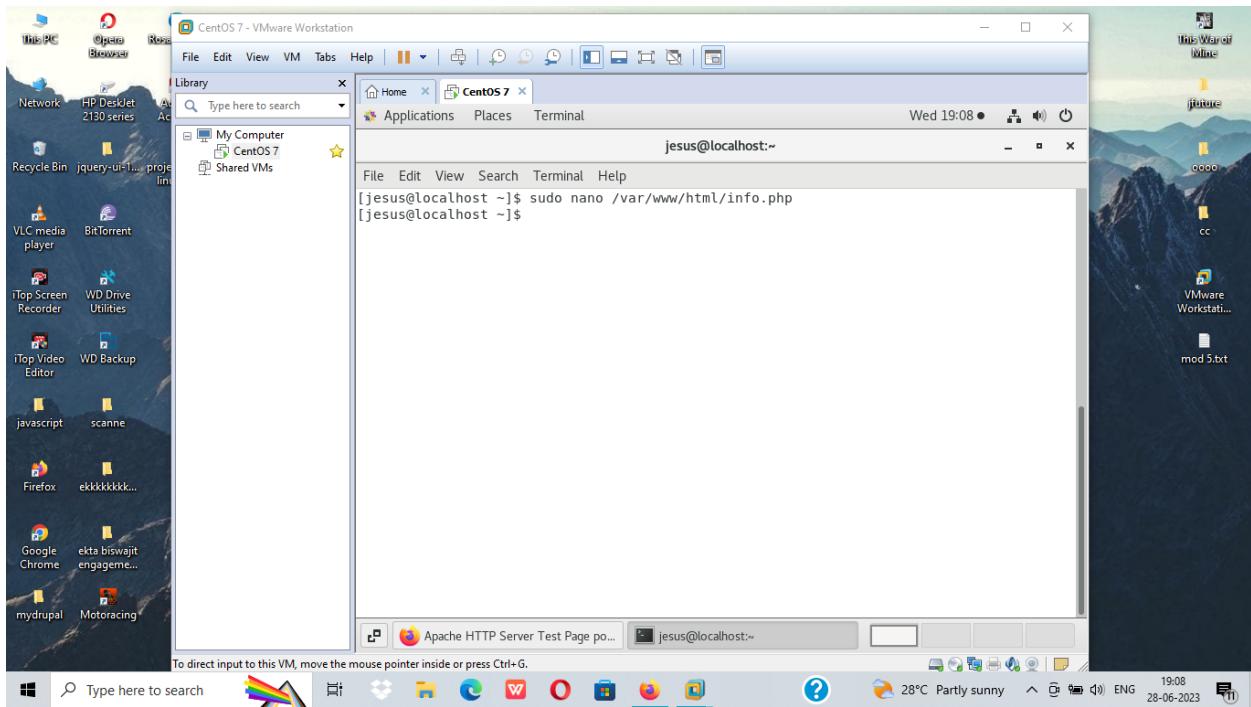
13.



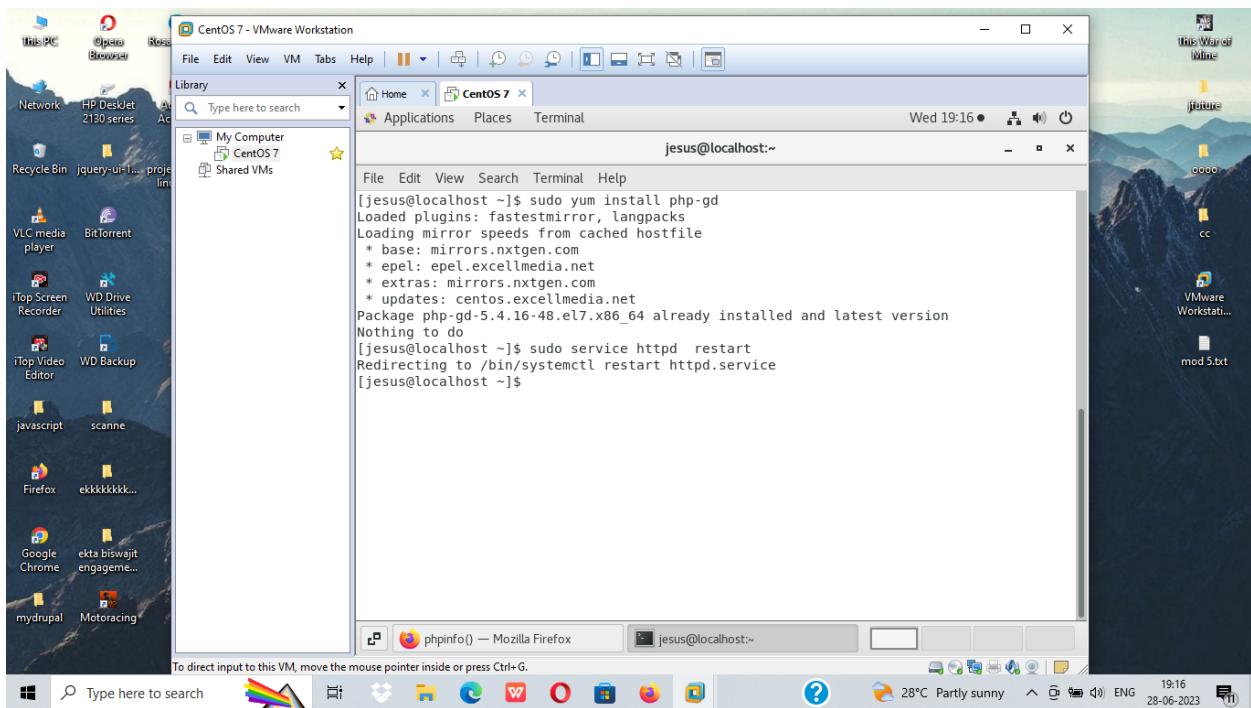
14. we will run this code and check our php page



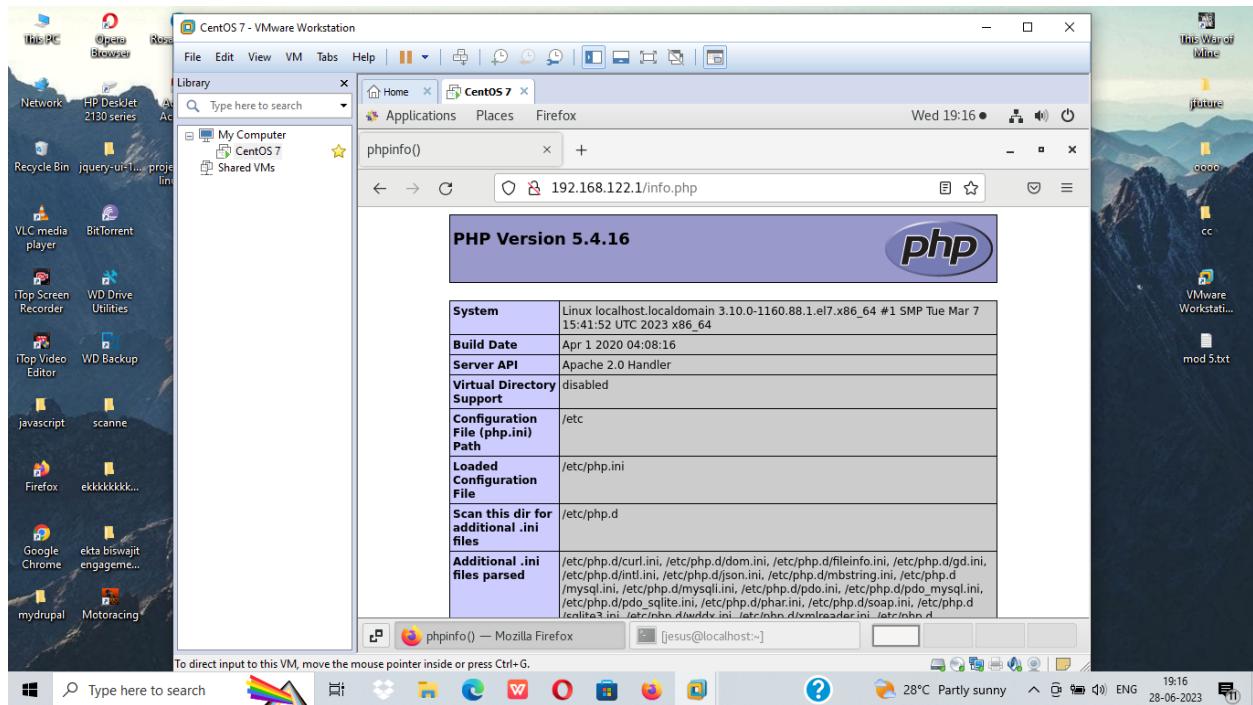
15.



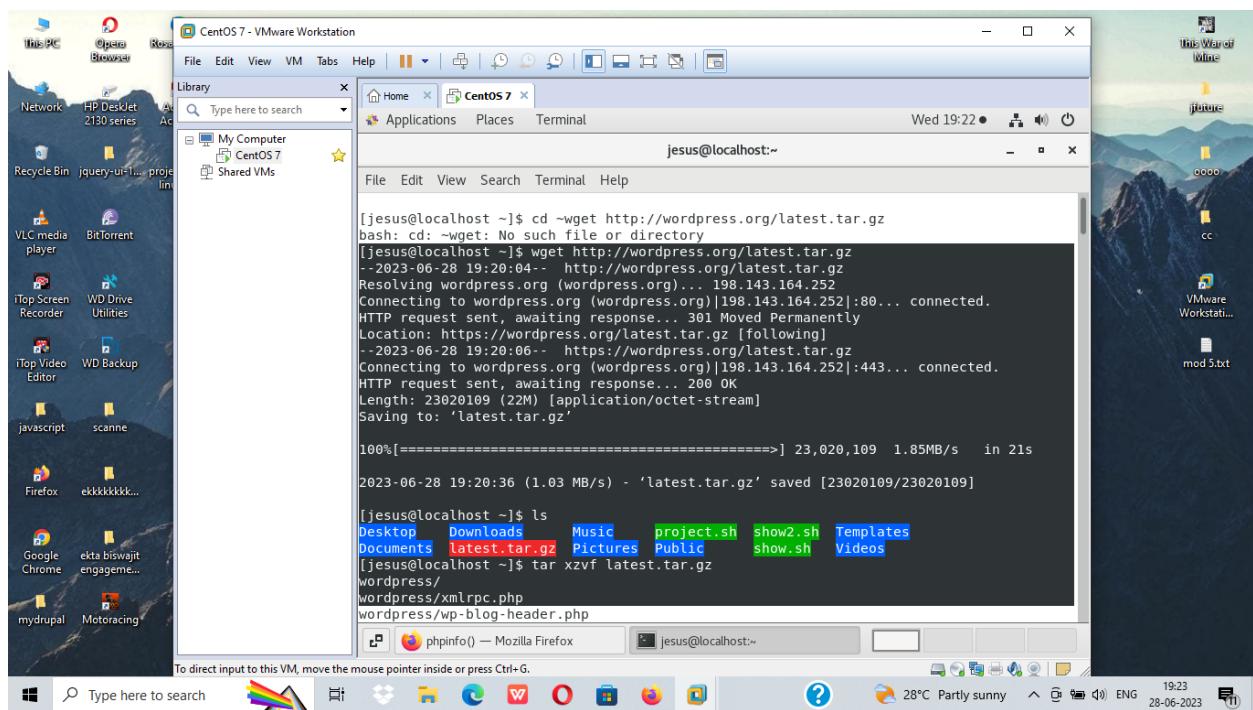
16. we restart our httpd service



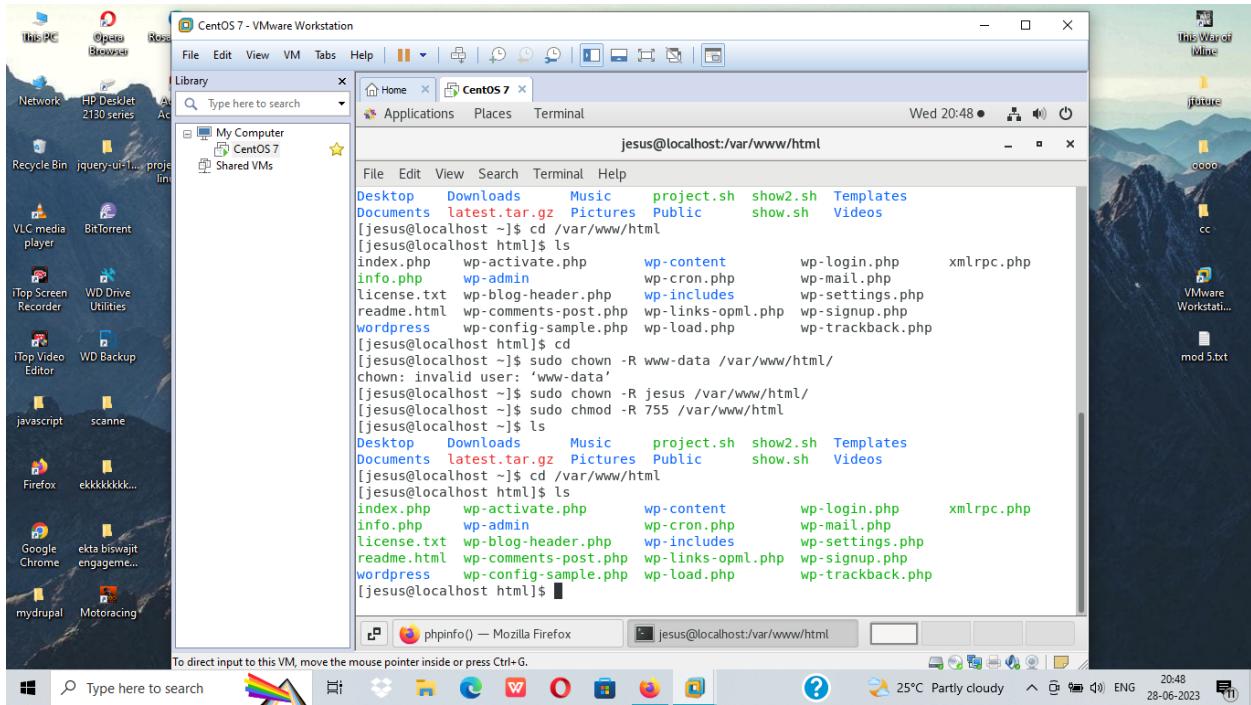
## 17. we check verify our php page



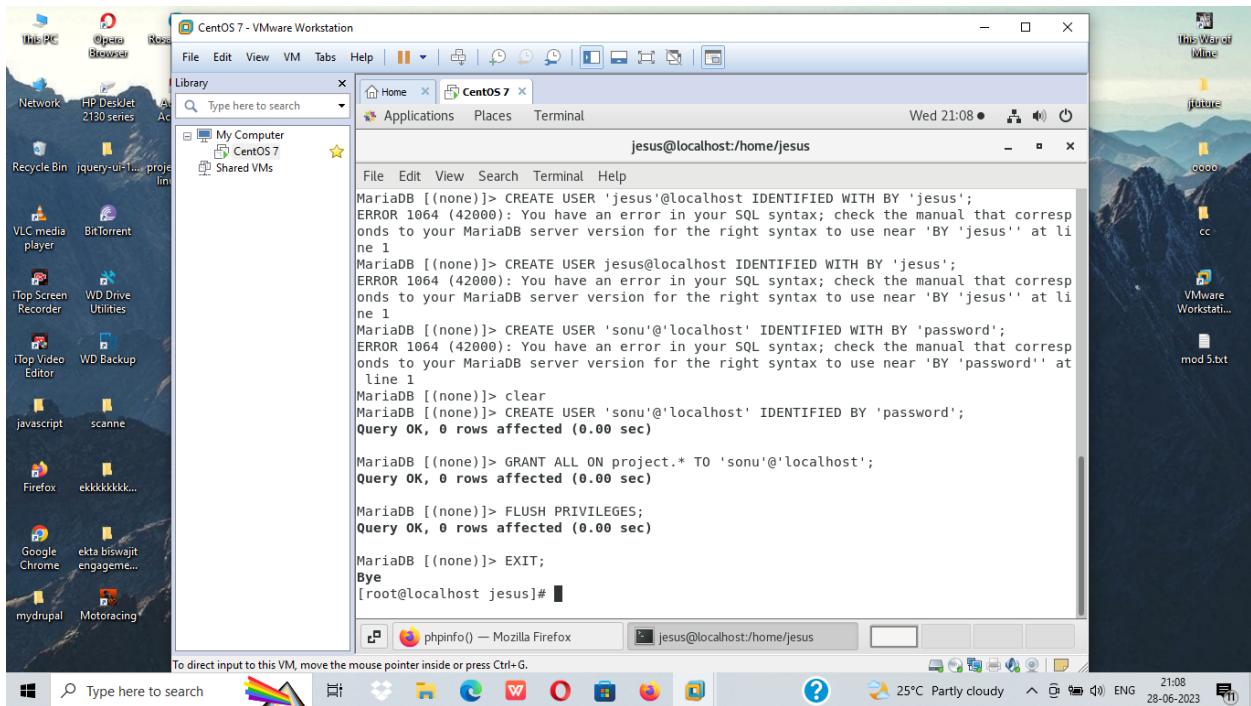
## 18. we now download our latest wordpress application by wget command



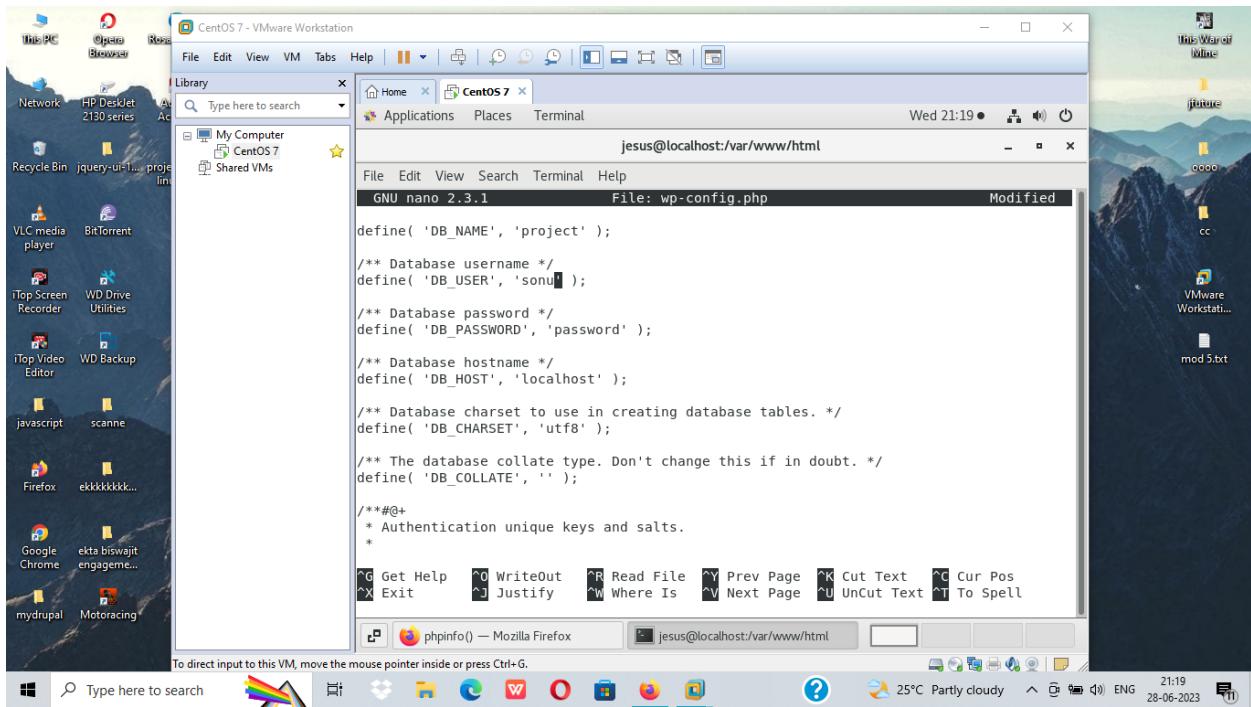
## 19. we unzip our file



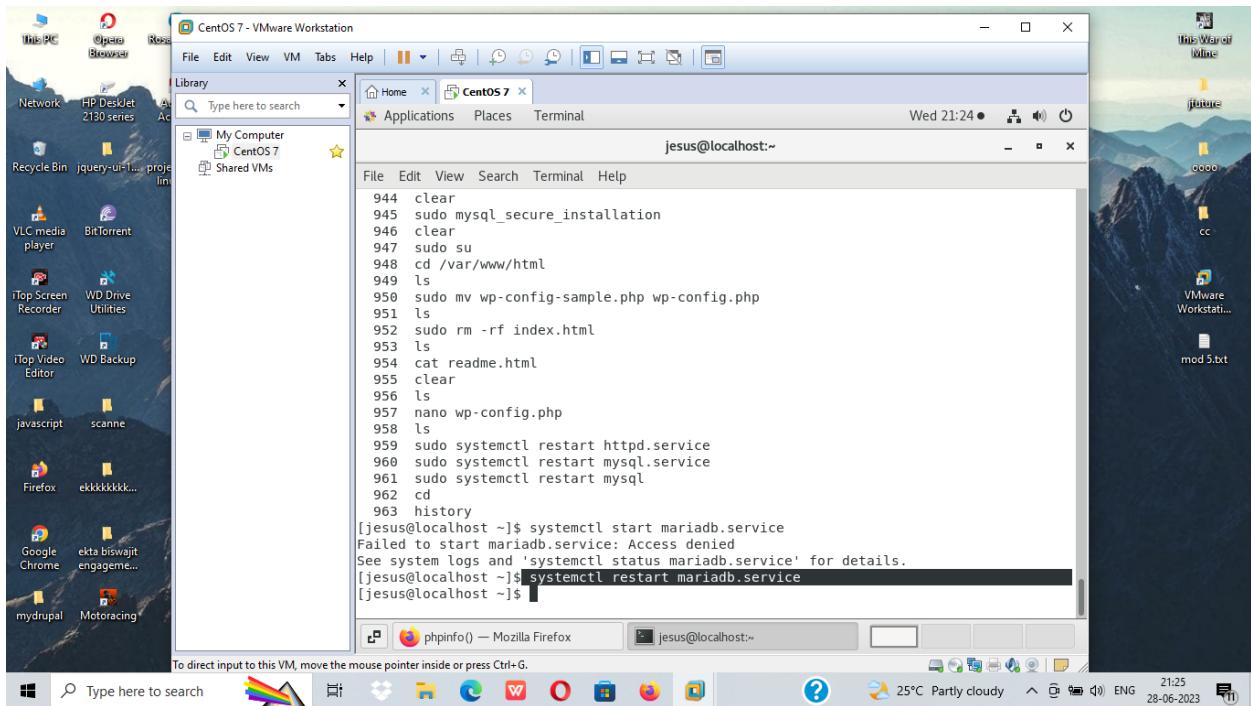
## 20. we connect our database to wordpress in config.php file



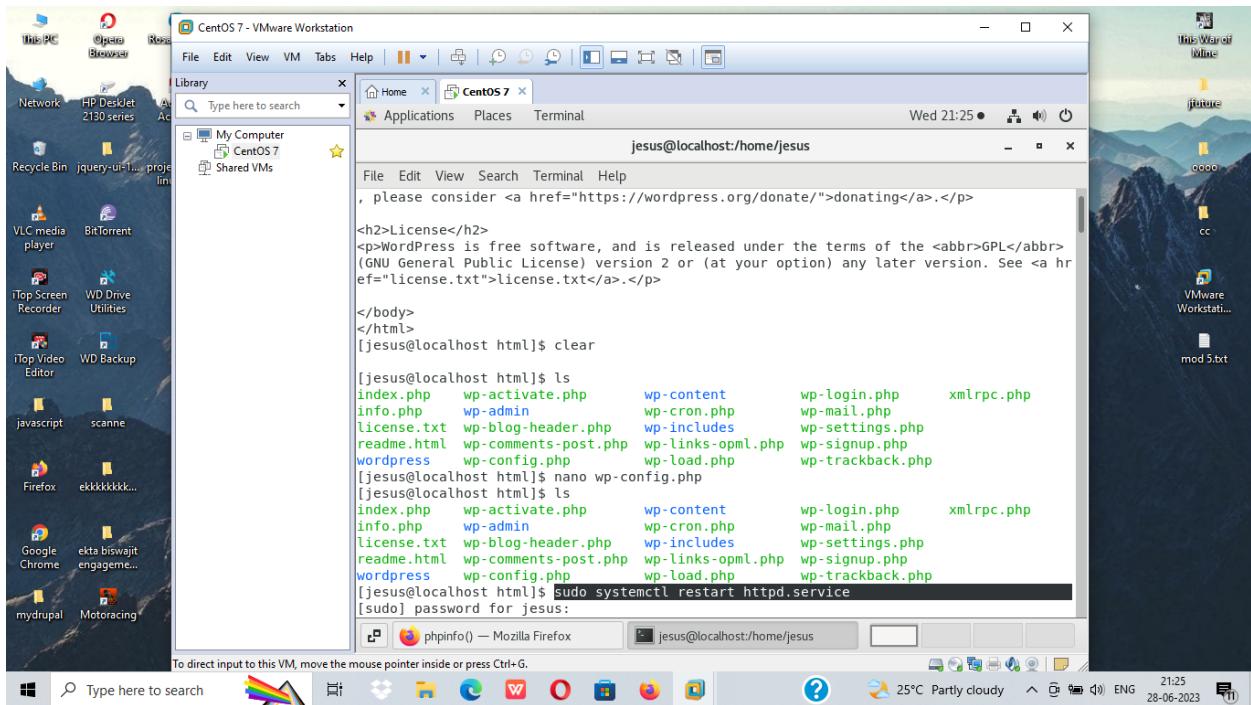
21.



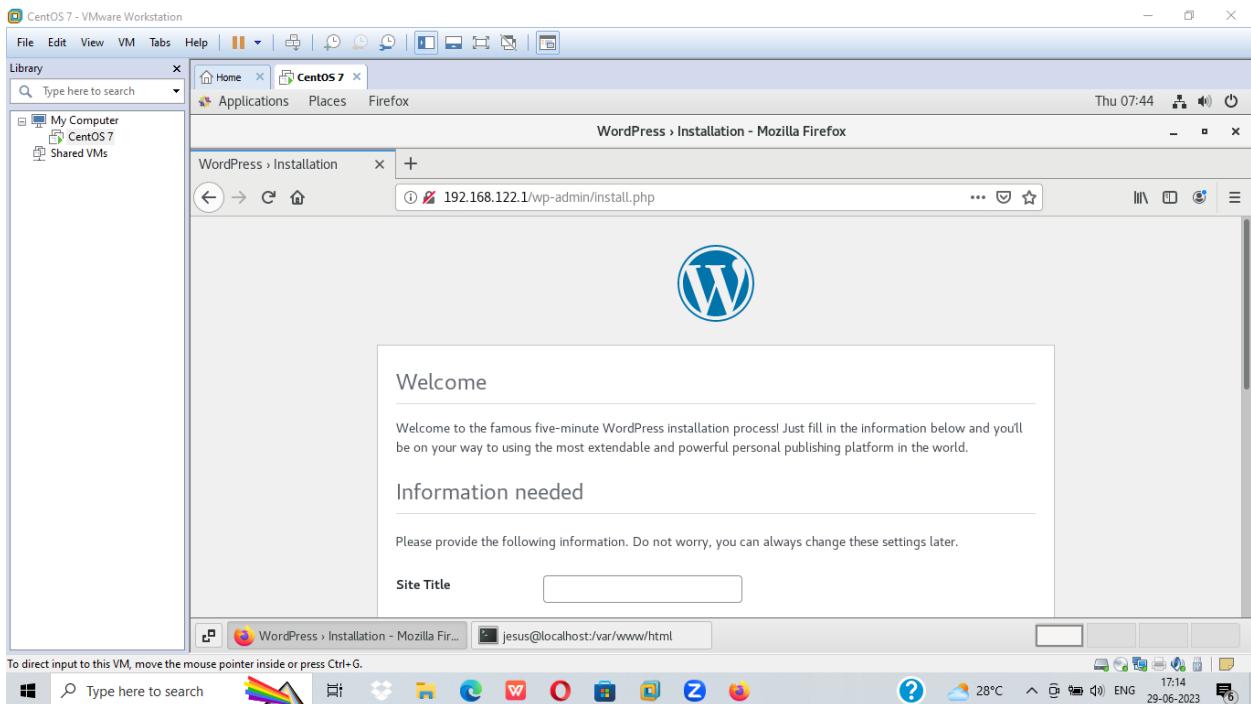
22. we restart our httpd service and mariadb



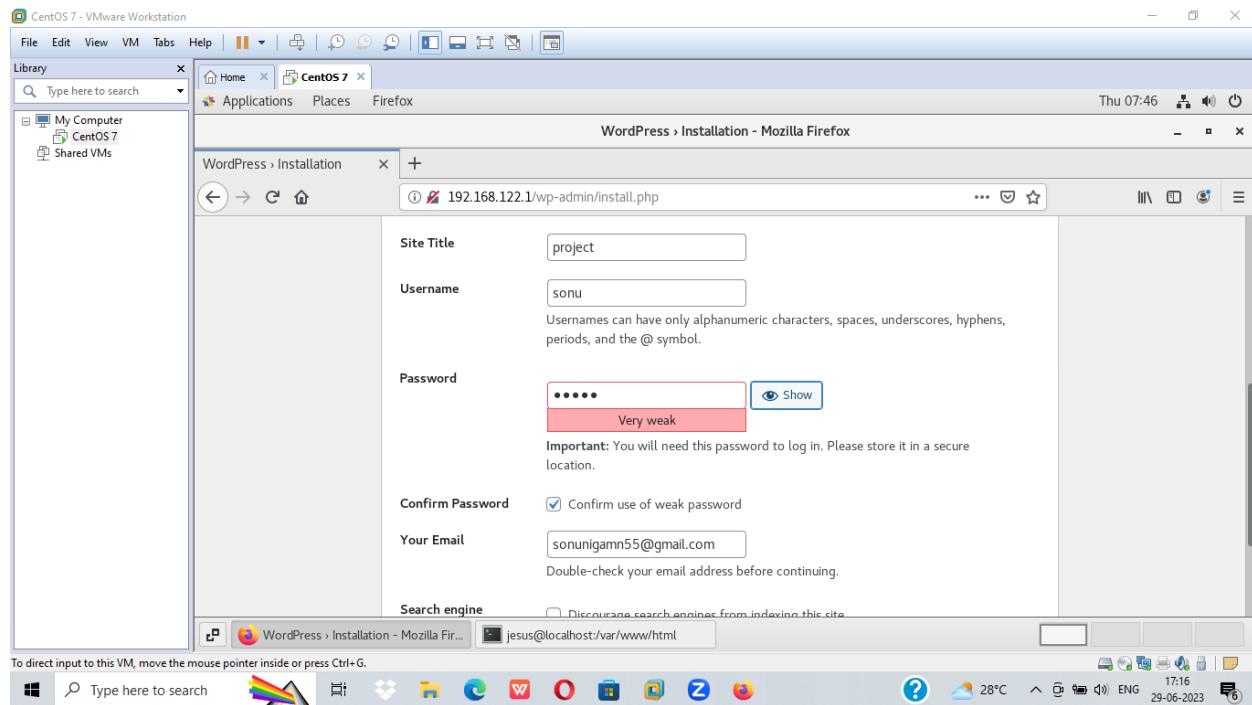
23.



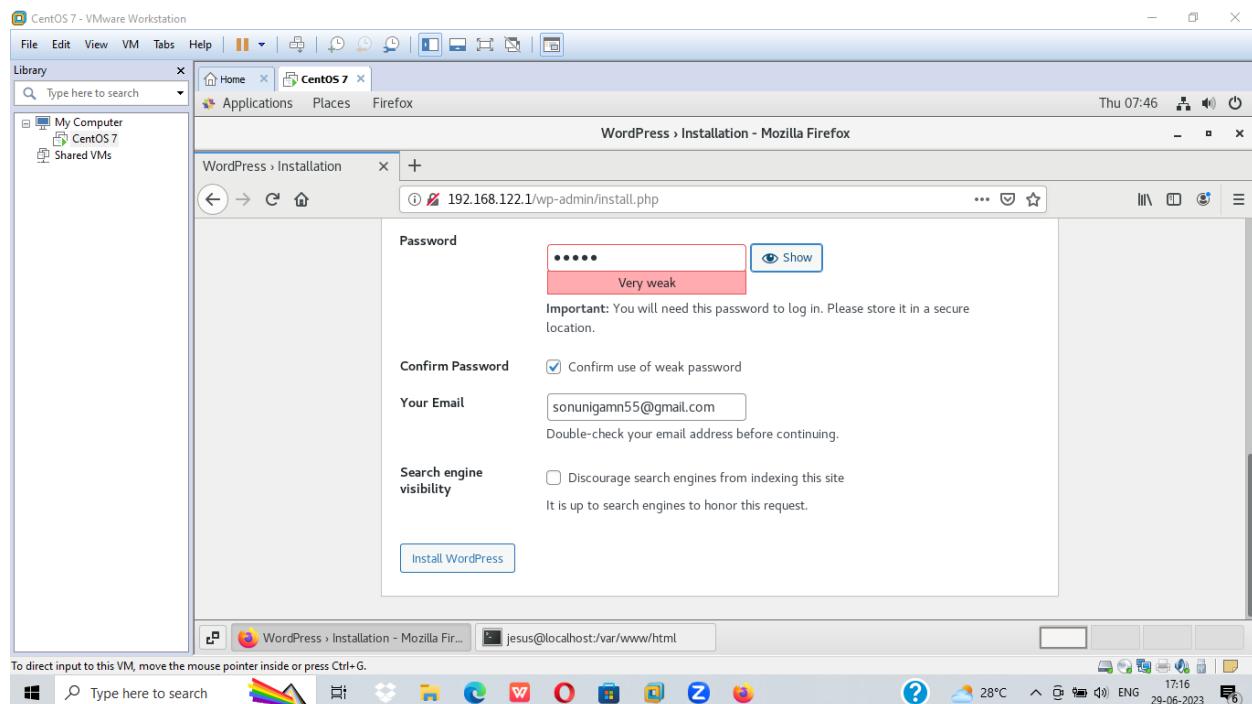
24. our wordpress application is visible as shown



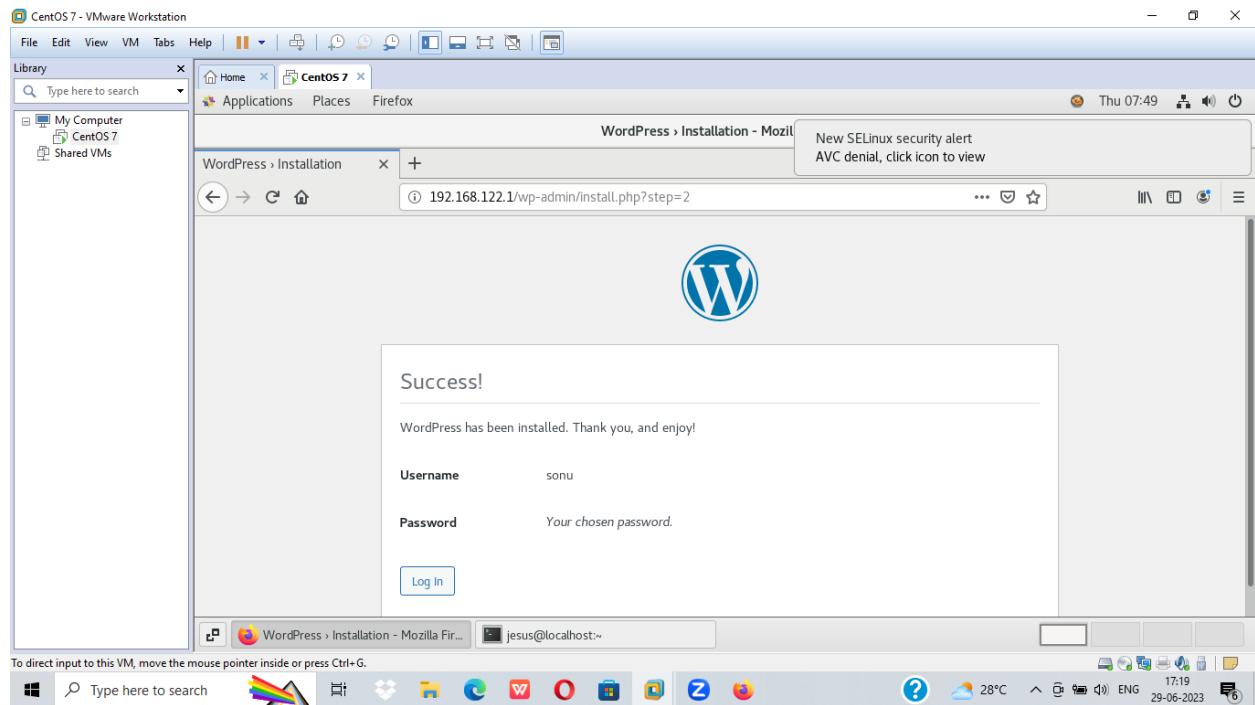
25. we add the following details



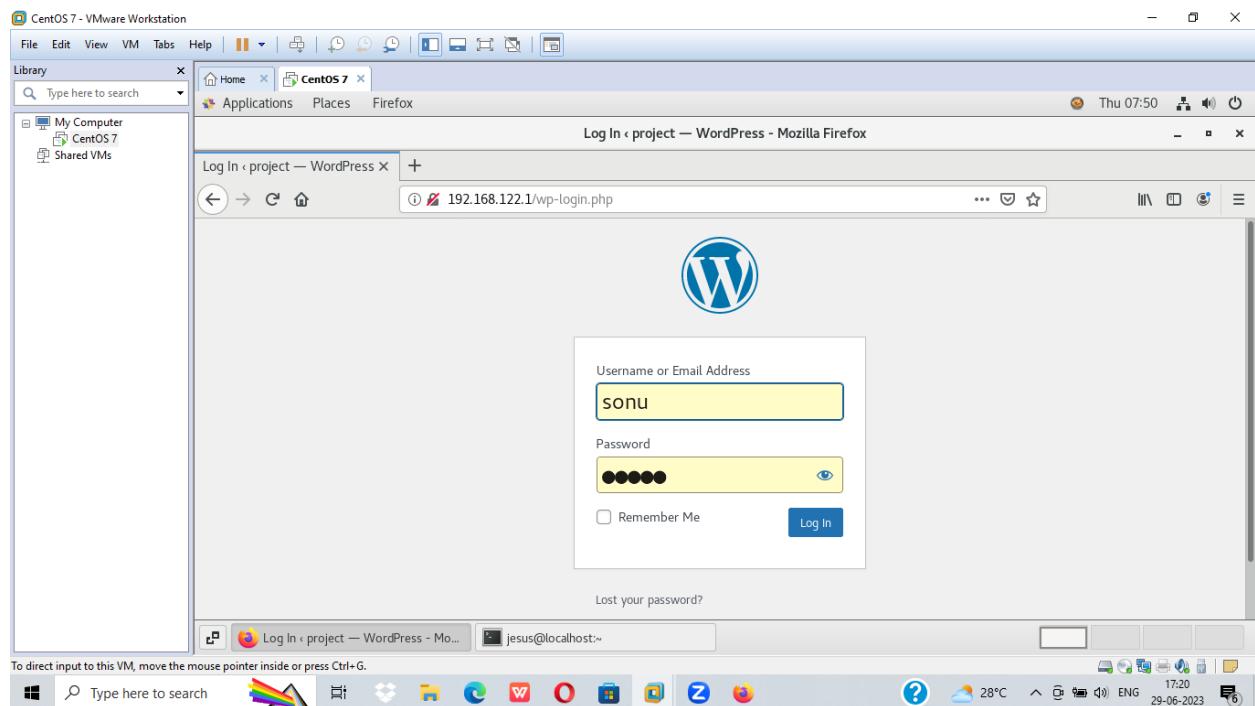
26. and click install wordpress



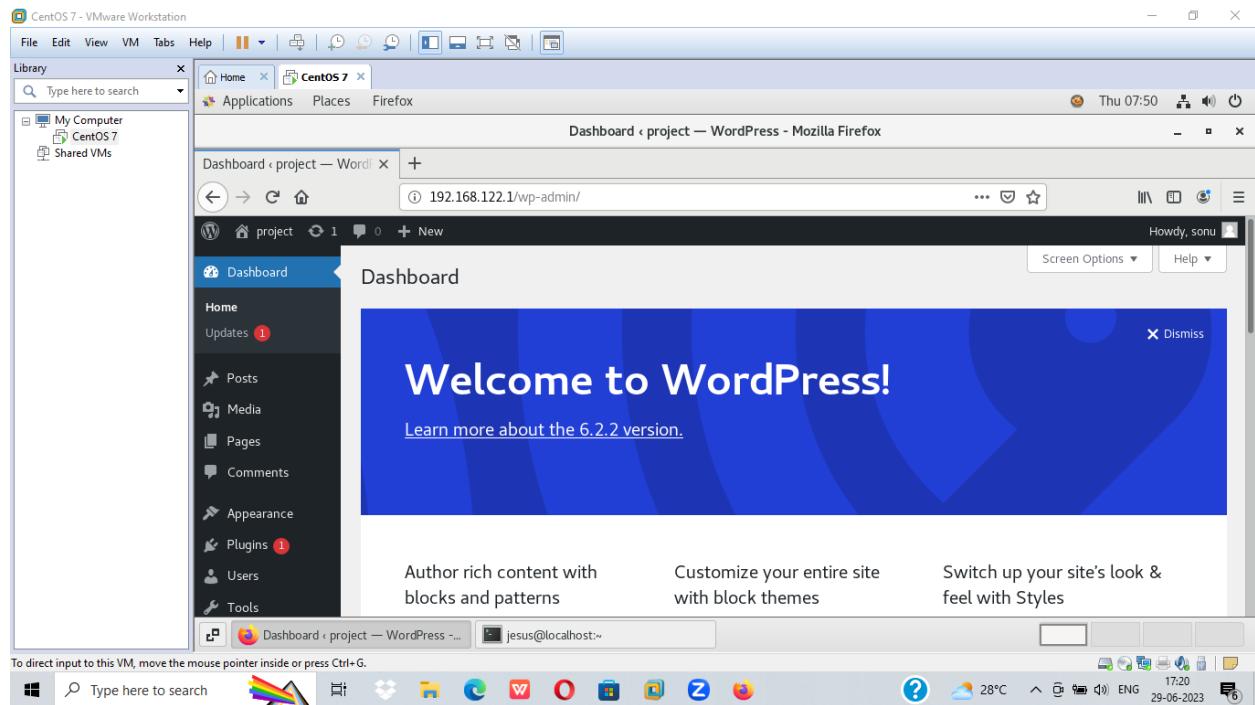
## 27. our wordpress is installed and we log in



## 28.



29.



30. our wordpress is installed on our localsystem centos7 sucessfully

