

Task 7:

Config LAMP

Create instance in Digital Ocean & configure LAMP (Using yum or rpm)

- Add index.html page to home directory
- Access web site by
 - <http://ip-address>
 - <http://sappio4.tk>
- Create a DB
 - DB name: MyDB
 - Table name: EMPDetails
 - Field: EMPID, FirstName, LastName, Email, Phone
 - Add Few Entries
 - Create a php page called mydisplay.php to display content from the table
 - Access the page:
 - <http://ip-address/display.php>
 - <http://sappio4.tk/display.php>

Note: ip-address will be the public ip of the instance/server launched in the cloud

Packages installed

Apache

Yum install httpd

Mariadb

Yum install mariadb-server mariadb

Php (version 7.2.24)

#Yum install php

Port added

80/tcp

Services started

Httpd

Mysql

Mariadb

Services added to firewall

http

mysql

mariadb database creating

yum install mariadb-server mariadb

systemctl start mariadb

systemctl enable mariadb

mysql_secure_installation

mysql -u root -p

≥ create database MyDB;

≥ use MyDB;

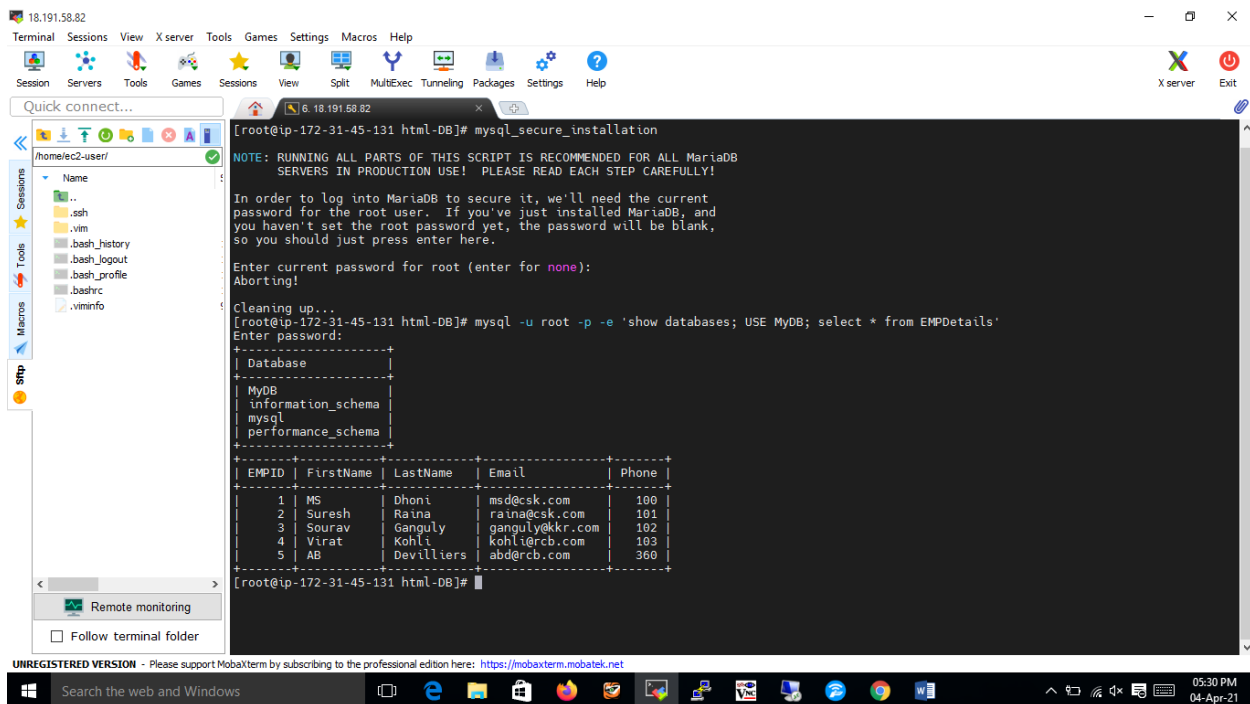
≥ GRANT ALL ON *.* TO 'root'@'localhost' IDENTIFIED BY 'redhat' WITH GRANT OPTION;

```
≥ create table EMPDetails (EMPID INT NOT NULL AUTO_INCREMENT
  FirstName VARCHAR(100) NOT NULL
  LastName VARCHAR(40) NOT NULL
  Email VARCHAR(40) NOT NULL
  Phone INT NOT NULL

  PRIMARY KEY (EMPID));
```

```
≥ insert into EMPDetails values(1,"MS", "Dhoni", "msd@csk.com", 100);
```

```
≥ select * from EMPDetails;
```



The screenshot shows a terminal window titled "18.191.58.82" with a menu bar (Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, Help) and a toolbar. On the left, there is a "Quick connect..." sidebar with a tree view of files and folders under "/home/ec2-user/". The main terminal area shows the following commands and output:

```
[root@ip-172-31-45-131 html-DB]# mysql_secure_installation
```

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current
password for the root user. If you've just installed MariaDB, and
you haven't set the root password yet, the password will be blank,
so you should just press enter here.

Enter current password for root (enter for none):
Aborting!

Cleaning up...

```
[root@ip-172-31-45-131 html-DB]# mysql -u root -p -e 'show databases; USE MyDB; select * from EMPDetails'
```

Enter password:

```
+-----+
| Database |
+-----+
| MyDB     |
| information_schema |
| mysql    |
| performance_schema |
+-----+
```

```
+-----+-----+-----+-----+
| EMPID | FirstName | LastName | Email | Phone |
+-----+-----+-----+-----+
| 1 | MS | Dhoni | msd@csk.com | 100 |
| 2 | Suresh | Raina | raina@csk.com | 101 |
| 3 | Sourav | Ganguly | ganguly@kkr.com | 102 |
| 4 | Virat | Kohli | kohli@rcb.com | 103 |
| 5 | AB | Devilliers | abdercb.com | 360 |
+-----+-----+-----+-----+
```

[root@ip-172-31-45-131 html-DB]#

At the bottom, there is a status bar that says "UNREGISTERED VERSION - Please support Mobaxterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>" and a Windows taskbar with the date "05:30 PM 04-Apr-21".

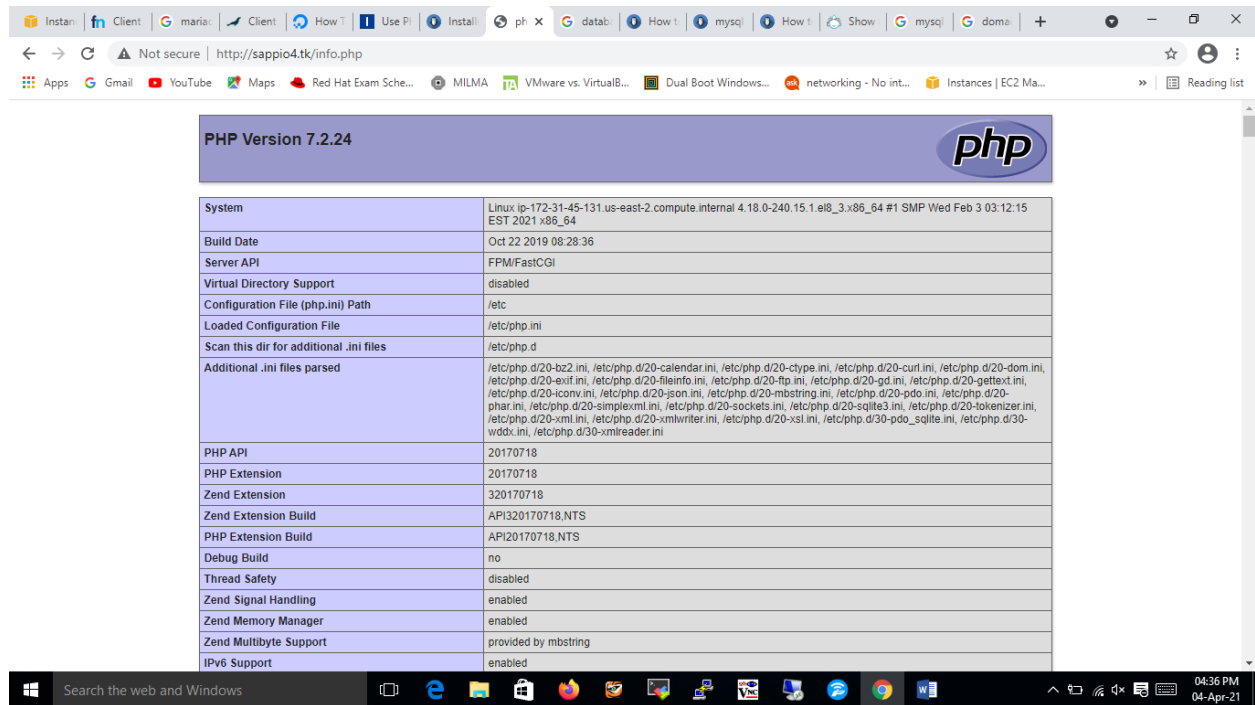
Create a php file for display the version for current php.

```
# vim /var/www/html-DB/info.php
```

```
<?php  
phpinfo();  
?>
```

Open **google chrome** > <http://sappio4.tk/info.php>

Displaying the php info page



PHP Version 7.2.24

System	Linux ip-172-31-45-131.us-east-2.compute.internal 4.18.0-240.15.1.el8_3.x86_64 #1 SMP Wed Feb 3 03:12:15 EST 2021 x86_64
Build Date	Oct 22 2019 08:28:36
Server API	FPM/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc
Loaded Configuration File	/etc/php.ini
Scan this dir for additional .ini files	/etc/php.d
Additional .ini files parsed	/etc/php.d/20-bc2.ini, /etc/php.d/20-calendar.ini, /etc/php.d/20-ctype.ini, /etc/php.d/20-curl.ini, /etc/php.d/20-dom.ini, /etc/php.d/20-exif.ini, /etc/php.d/20-fileinfo.ini, /etc/php.d/20-ftp.ini, /etc/php.d/20-gd.ini, /etc/php.d/20-gettext.ini, /etc/php.d/20-iconv.ini, /etc/php.d/20-json.ini, /etc/php.d/20-mbstring.ini, /etc/php.d/20-pdo.ini, /etc/php.d/20-phar.ini, /etc/php.d/20-simplexml.ini, /etc/php.d/20-sockets.ini, /etc/php.d/20-sqlite3.ini, /etc/php.d/20-tokenizer.ini, /etc/php.d/20-xml.ini, /etc/php.d/20-xmlwriter.ini, /etc/php.d/20-xsl.ini, /etc/php.d/30-pdo_sqlite.ini, /etc/php.d/30-wddx.ini, /etc/php.d/30-xmlreader.ini
PHP API	20170718
PHP Extension	20170718
Zend Extension	320170718
Zend Extension Build	API320170718.NTS
PHP Extension Build	API20170718.NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	enabled
Zend Memory Manager	enabled
Zend Multibyte Support	provided by mbstring
IPv6 Support	enabled

Creating a php file for displaying database

```
# vim /var/www/html-DB/display1.php
```

18.218.186.247

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

/home/ec2-user/

Sessions

Tools

Macros

Sftp

Remote monitoring

Follow terminal folder

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<body>
<?php

$hostname = "localhost";
$username = "root";
$password = "redhat";
$db = "MyDB";

$dbconnect=mysqli_connect($hostname,$username,$password,$db);

if ($dbconnect->connect_error) {
die("Database connection failed: " . $dbconnect->connect_error);
}

?>

<table border="1" align="center">
<tr>
<td>EMPID</td>
<td>FirstName</td>
<td>LastName</td>
<td>Email</td>
<td>Phone</td>
</tr>
</table>
<?php

$query = mysqli_query($dbconnect, "SELECT * FROM EMPDetails")
or die (mysqli_error($dbconnect));

while ($row = mysqli_fetch_array($query)) {
echo
"<tr>
<td>{$row['EMPID']}</td>
<td>{$row['FirstName']}</td>
```

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Search the web and Windows

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18.218.186.247

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Quick connect...

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or die (mysqli_error($dbconnect));

while ($row = mysqli_fetch_array($query)) {
echo
"<tr>
<td>{$row['EMPID']}</td>
<td>{$row['FirstName']}</td>
<td>{$row['LastName']}</td>
<td>{$row['Email']}</td>
<td>{$row['Phone']}</td>
</tr>\n";
}

?>
</table>
</body>
</html>
[root@ip-172-31-45-131 ~]#
```

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Accessing the database

Instances | EC2 Mana... x | PHP Connection to M... x | PHP MySQL Connect... x | sappio4.tk/display1.ph... x | Python MySQL Datab... x | (no subject) - vishnug... x | +

Not secure | http://sappio4.tk/display1.php/

Apps | Gmail | YouTube | Maps | Red Hat Exam Sche... | MILMA | VMware vs. VirtualB... | Dual Boot Windows... | networking - No int... | Instances | EC2 Ma... | Reading list

EMPID	FirstName	LastName	Email	Phone
1	MS	Dhoni	msd@csk.com	100
2	Suresh	Raina	raina@csk.com	101
3	Sourav	Ganguly	ganguly@kkr.com	102
4	Virat	Kohli	kohli@rcb.com	103
5	AB	De Villiers	abd@rcb.com	360

Search the web and Windows

01:51 PM
05-Apr-21