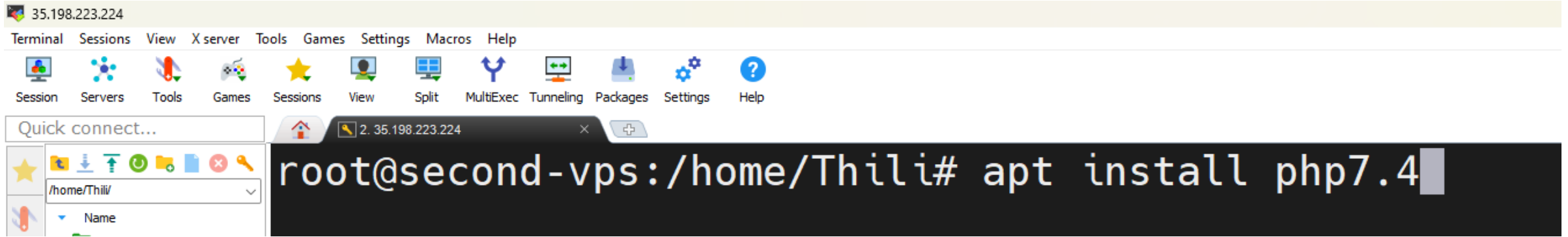


Computer Hardware & Networking & Server Configurations (H7E3 04)

UNIT 09 VPS Configuration

Run this command in MobaXterm.



35.198.223.224

TerminalSessionsViewX serverToolsGamesSettingsMacrosHelp

SessionServersToolsGamesSessionsViewSplitMultiExecTunnelingPackagesSettingsHelp

Quick connect...

/home/Thilv

Name

..

.cache

.ssh

.bash_logout

.bashrc

.profile

.Xauthority

Building dependency tree

Reading state information... Done

The following packages were automatically installed and are no longer required:

libatasmart4 libblockdev-fs2 libblockdev-loop2 libblockdev-part-err2

libblockdev-part2 libblockdev-swap2 libblockdev-utils2 libblockdev2

libmbim-glib4 libmbim-proxy libmm-glib0 libnspr4 libnss3 libnuma1

libparted-fs-resize0 libqmi-glib5 libqmi-proxy libudisks2-0 libxmlb2

usb-modeswitch usb-modeswitch-data

Use 'sudo apt autoremove' to remove them.

The following additional packages will be installed:

libapache2-mod-php7.4 php-common php7.4-cli php7.4-common php7.4-json

php7.4-opcache php7.4-readline

Suggested packages:

php-pear

The following NEW packages will be installed:

libapache2-mod-php7.4 php-common php7.4 php7.4-cli php7.4-common

php7.4-json php7.4-opcache php7.4-readline

0 upgraded, 8 newly installed, 0 to remove and 29 not upgraded.

Need to get 4030 kB of archives.

After this operation, 18.0 MB of additional disk space will be used.

Do you want to continue? [Y/n]

Remote monitoring

2. 35.198.223.224

Reading state **information**... Done

The following packages were automatically installed and are no longer required:

libatasmart4 libblockdev-fs2 libblockdev-loop2 libblockdev-part-err2
libblockdev-part2 libblockdev-swap2 libblockdev-utils2 libblockdev2
libmbim-glib4 libmbim-proxy libmm-glib0 libnspr4 libnss3 libnuma1
libparted-fs-resize0 libqmi-glib5 libqmi-proxy libudisks2-0 libxmlb2
usb-modeswitch usb-modeswitch-data

Use 'sudo apt autoremove' to remove them.

The following additional packages will be installed:

libapache2-mod-php7.4 php-common php7.4-cli php7.4-common php7.4-json
php7.4-opcache php7.4-readline

Suggested packages:

php-pear

The following NEW packages will be installed:

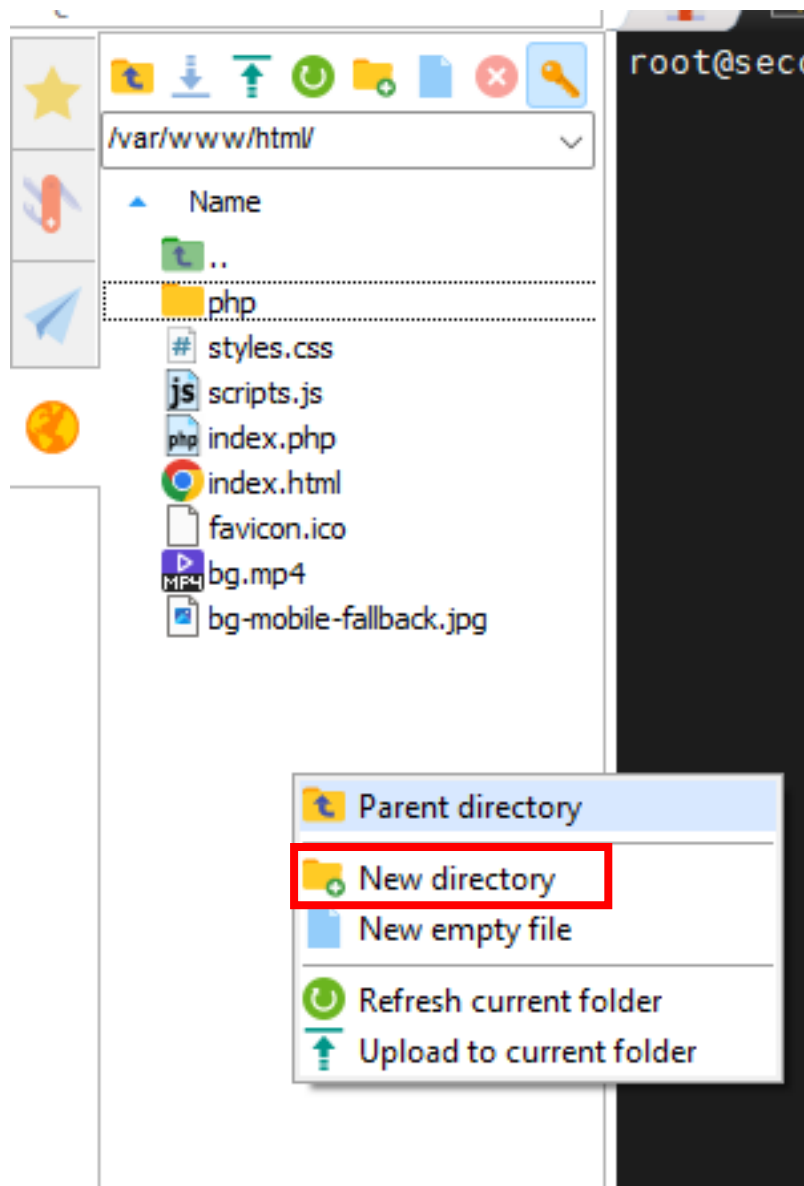
libapache2-mod-php7.4 php-common php7.4 php7.4-cli php7.4-common
php7.4-json php7.4-opcache php7.4-readline

0 upgraded, 8 newly installed, 0 to remove and 29 not upgraded.

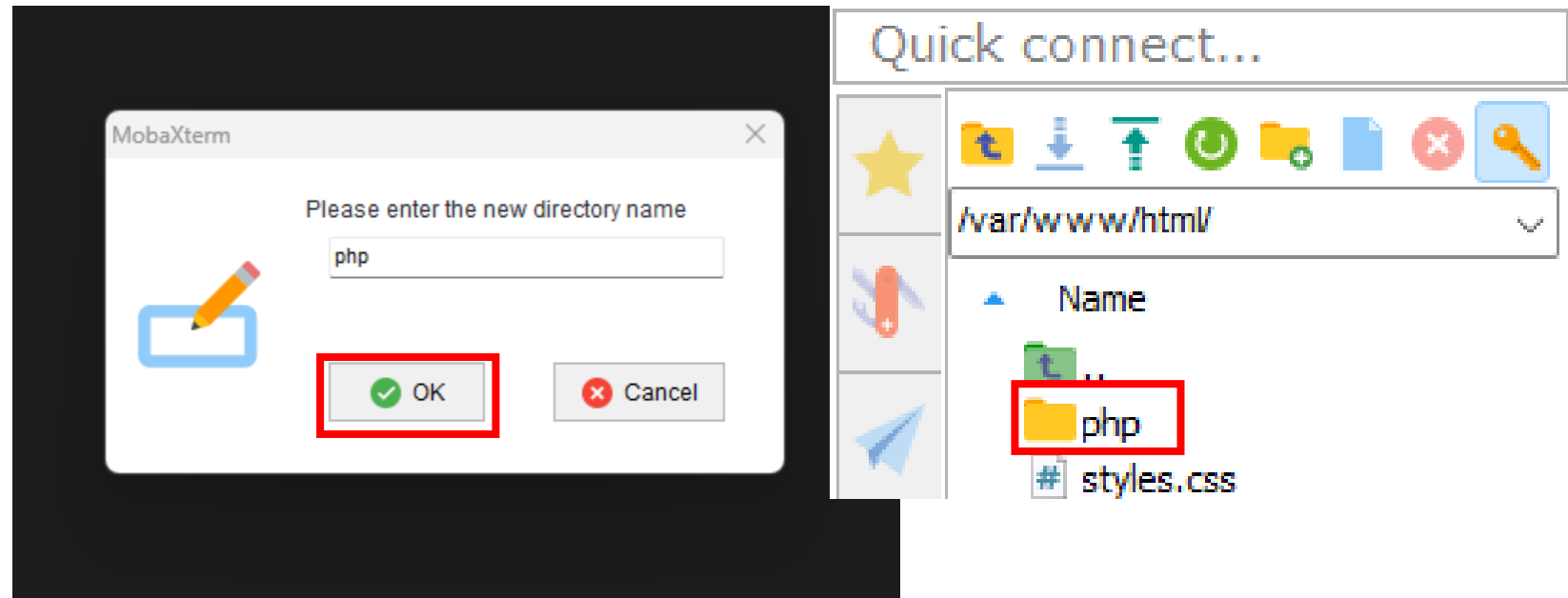
Need to get 4030 kB of archives.

After this operation, 18.0 MB of additional disk space will be used.

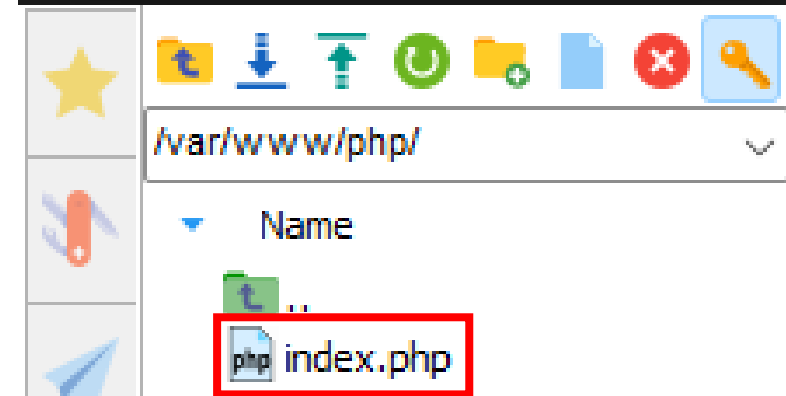
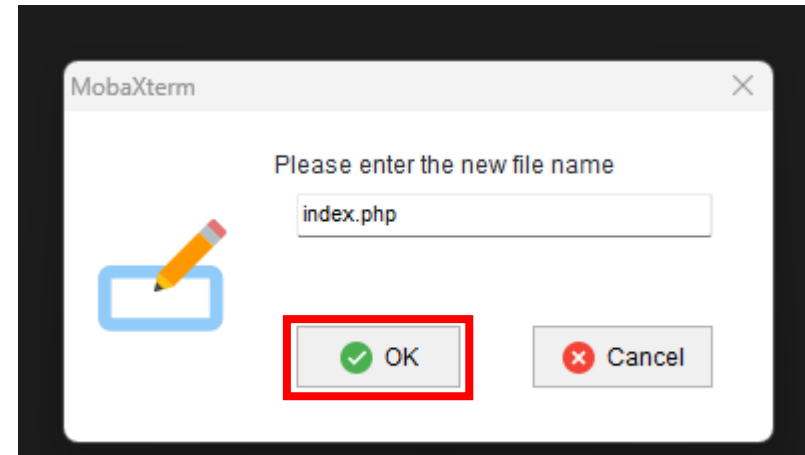
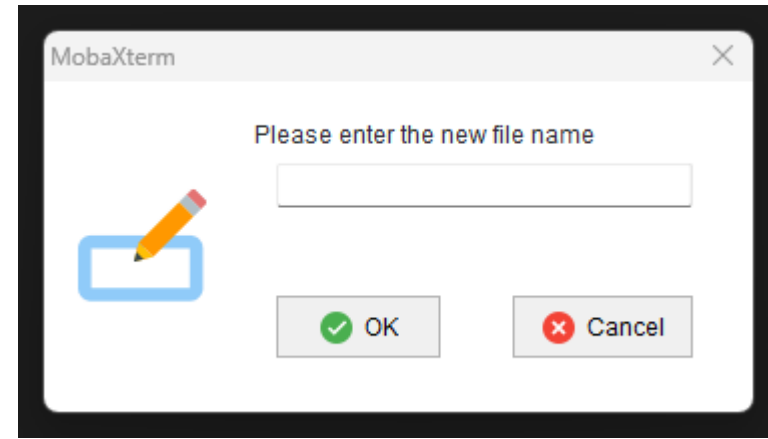
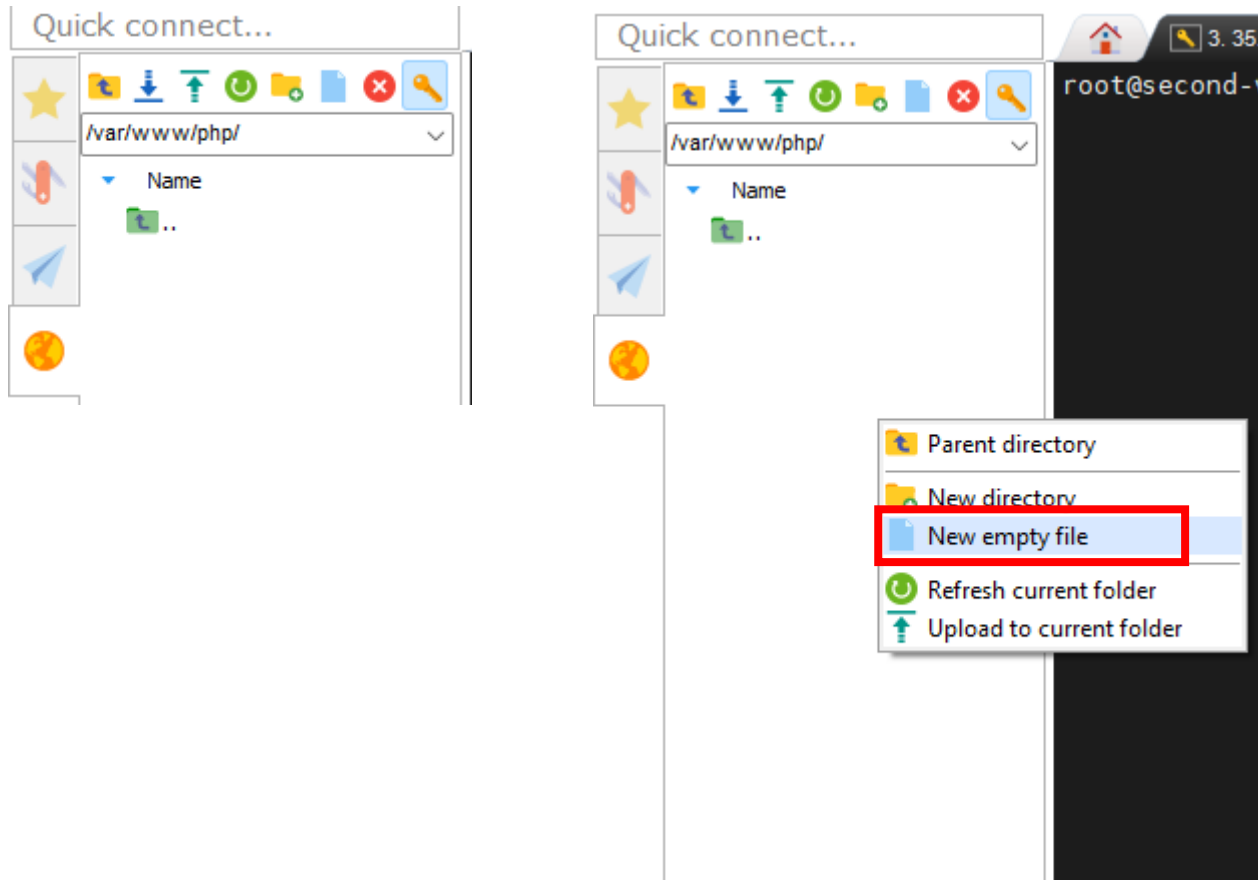
Do you want to continue? [Y/n] Y



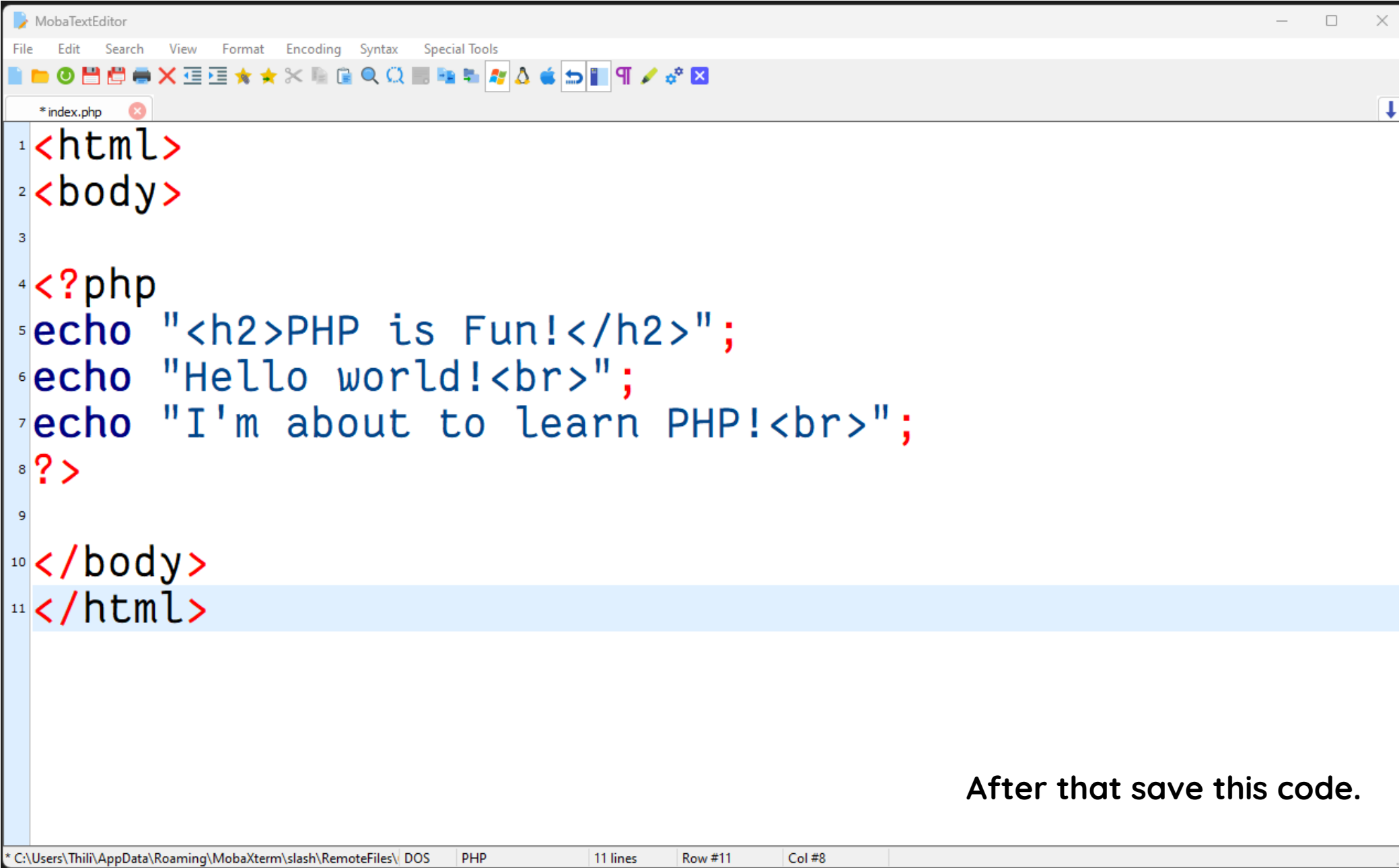
Go to the www inside the var folder and create a file called php inside the html folder inside the www folder



Create index.php file inside php.



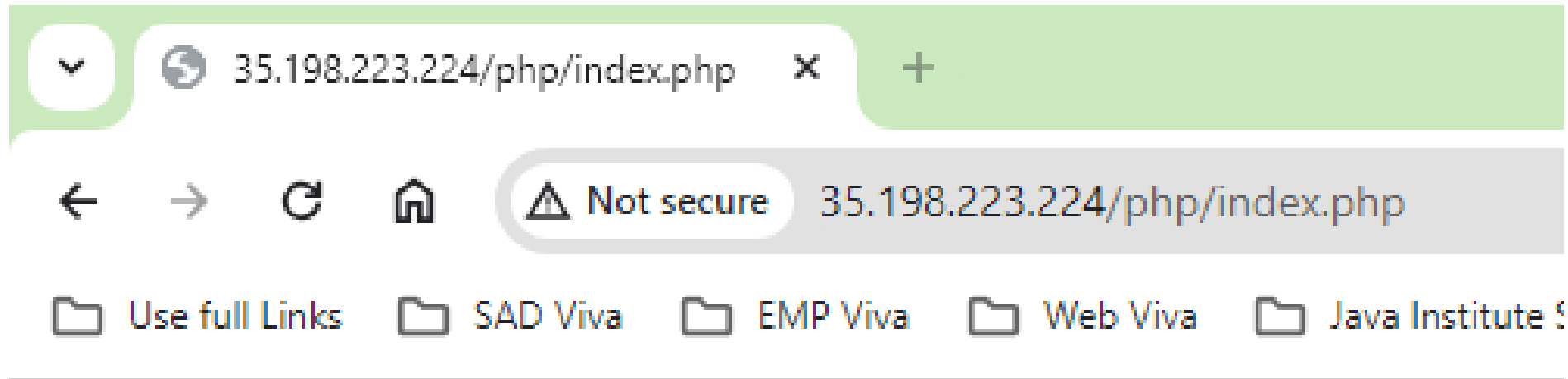
Open the index.php file with mobaTextEditor. After that type this code.

A screenshot of the MobaTextEditor application window. The title bar says 'MobaTextEditor'. The menu bar includes 'File', 'Edit', 'Search', 'View', 'Format', 'Encoding', 'Syntax', and 'Special Tools'. The toolbar contains various icons for file operations, editing, and development. The active tab is '*index.php'. The code editor shows 11 lines of code: 1: <html>, 2: <body>, 3: (empty), 4: <?php, 5: echo "<h2>PHP is Fun!</h2>";, 6: echo "Hello world!
";, 7: echo "I'm about to learn PHP!
";, 8: ?>, 9: (empty), 10: </body>, 11: </html>. The 11th line is highlighted in light blue. The status bar at the bottom shows the file path, file type (PHP), and statistics (11 lines, Row #11, Col #8).

```
1 <html>
2 <body>
3
4 <?php
5 echo "<h2>PHP is Fun!</h2>";
6 echo "Hello world!<br>";
7 echo "I'm about to learn PHP!<br>";
8 ?>
9
10 </body>
11 </html>
```

After that save this code.

Open the web browser and type the following URL.

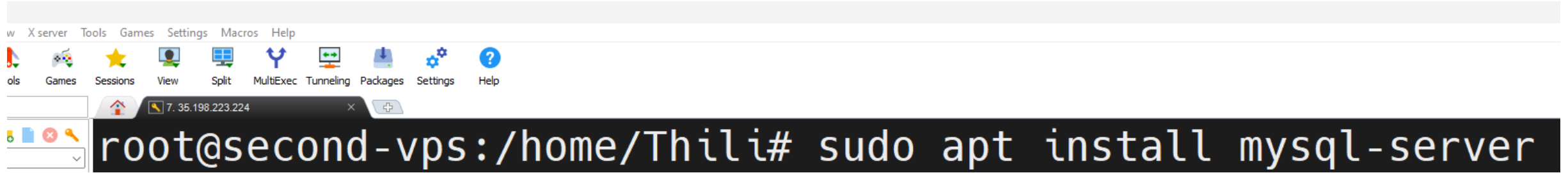


PHP is Fun!

Hello world!

I'm about to learn PHP!

Run this command in MobaXterm.



```
libtimedate-perl liburi-perl mecab-ipadic mecab-ipadic-utf8 me
mysql-client-8.0 mysql-client-core-8.0 mysql-common mysql-serv
mysql-server-core-8.0
Suggested packages:
libdata-dump-perl libipc-sharedcache-perl libwww-perl mailx ti
The following NEW packages will be installed:
libcgi-fast-perl libcgi-pm-perl libencode-locale-perl libevent
libevent-pthreads-2.1-7 libfcgi-perl libhtml-parser-perl
libhtml-tagset-perl libhtml-template-perl libhttp-date-perl
libhttp-message-perl libio-html-perl liblwp-mediatypes-perl li
libtimedate-perl liburi-perl mecab-ipadic mecab-ipadic-utf8 me
mysql-client-8.0 mysql-client-core-8.0 mysql-common mysql-serv
mysql-server-8.0 mysql-server-core-8.0
0 upgraded, 25 newly installed, 0 to remove and 29 not upgraded.
Need to get 36.8 MB of archives.
After this operation, 318 MB of additional disk space will be us
Do you want to continue? [Y/n] Y
```

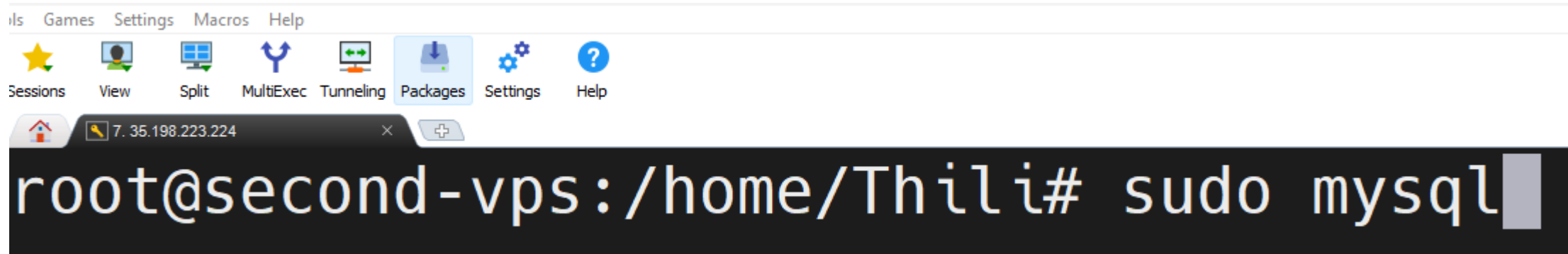
Run this command in MobaXterm.

```
root@second-vps:/home/Thili# sudo systemctl status mysql.service
```

```
root@second-vps:/home/Thili# sudo systemctl status mysql.service
● mysql.service - MySQL Community Server
   Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2024-04-03 16:02:12 UTC; 3min 45s ago
     Main PID: 4241 (mysqld)
        Status: "Server is operational"
         Tasks: 37 (limit: 4680)
        Memory: 364.7M
         CGroup: /system.slice/mysql.service
                 └─4241 /usr/sbin/mysqld

Apr 03 16:02:11 second-vps systemd[1]: Starting MySQL Community Server...
Apr 03 16:02:12 second-vps systemd[1]: Started MySQL Community Server.
root@second-vps:/home/Thili#
```

Run this command in MobaXterm.



```
root@second-vps:/home/Thili# sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.36-0ubuntu0.20.04.1 (Ubuntu)

Copyright (c) 2000, 2024, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql>
```

Run this command in MobaXterm.

```
mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Thilina@1234';
```

```
mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'Thilina@1234';  
Query OK, 0 rows affected (0.01 sec)
```

```
mysql>
```

```
mysql> exit
```

```
Bye
```

```
root@second-vps:/home/Thili#
```

Run this command in MobaXterm.

```
root@second-vps:/home/Thili# sudo mysql
```

```
root@second-vps:/home/Thili# sudo mysql
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: NO)
root@second-vps:/home/Thili#
```

```
root@second-vps:/home/Thili# mysql -uroot -p
```

Type this command and press Enter key.

```
root@second-vps:/home/Thili# mysql -uroot -p
Enter password:
```

Type the password given by MySQL root user and press Enter key.

```
root@second-vps:/home/Thili# mysql -uroot -p
```

```
Enter password:
```

```
Welcome to the MySQL monitor.  Commands end with ; or \g.
```

```
Your MySQL connection id is 10
```

```
Server version: 8.0.36-0ubuntu0.20.04.1 (Ubuntu)
```

```
Copyright (c) 2000, 2024, Oracle and/or its affiliates.
```

```
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.
```

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

```
mysql> █
```

Run this command in MobaXterm.

```
mysql> CREATE USER 'thilina'@'localhost' IDENTIFIED BY '12345678';
```

```
mysql> CREATE USER 'thilina'@'localhost' IDENTIFIED BY '12345678';  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> █
```

```
mysql> exit
```

Bye

```
root@second-vps:/home/Thili# █
```

```
root@second-vps:/home/Thili# mysql -u thilina -p
```

```
root@second-vps:/home/Thili# mysql -u thilina -p
```

```
Enter password:
```

```
Welcome to the MySQL monitor.  Commands end with ; or \g.
```

```
Your MySQL connection id is 11
```

```
Server version: 8.0.36-0ubuntu0.20.04.1 (Ubuntu)
```

```
Copyright (c) 2000, 2024, Oracle and/or its affiliates.
```

```
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.
```

```
Type 'help;' or '\h' for help. Type '\c' to clear the current input stateme  
nt.
```

```
mysql> █
```


Run this command in MobaXterm.

```
mysql> show databases;
```

```
mysql> show databases;
```

+

```
| Database |
```

+

```
| information_schema |
```

```
| performance_schema |
```

+

```
2 rows in set (0.00 sec)
```

Run this command in MobaXterm.

```
root@second-vps:/home/Thili# mysql -uroot -p
```

```
root@second-vps:/home/Thili# mysql -uroot -p
```

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 13

Server version: 8.0.36-0ubuntu0.20.04.1 (Ubuntu)

Copyright (c) 2000, 2024, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

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

```
mysql> GRANT ALL PRIVILEGES ON *.* TO 'thilina'@'localhost' WITH GRANT OPTION;
```

```
mysql> GRANT ALL PRIVILEGES ON *.* TO 'thilina'@'localhost' WITH GRANT OPTION;  
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> 
```

Run this command in MobaXterm.

Sessions View Split MultiExec Tunneling Packages Settings Help

7. 35.198.223.224
root@second-vps:/home/Thili# mysql -u thilina -p

mysql> show databases;

```
mysql> show databases;
+-----+
| Database                |
+-----+
| information_schema      |
| mysql                   |
| performance_schema      |
| sys                     |
+-----+
4 rows in set (0.00 sec)
```

```
mysql> Create Database TestDB;
Query OK, 1 row affected (0.00 sec)
```

Run this command in MobaXterm.

```
mysql> show databases;
+-----+
| Database |
+-----+
| TestDB   |
| information_schema |
| mysql    |
| performance_schema |
| sys      |
+-----+
5 rows in set (0.00 sec)
```

```
mysql> Drop Database TestDB;
```

```
mysql> Drop Database TestDB;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> show databases;
```

Run this command in MobaXterm.

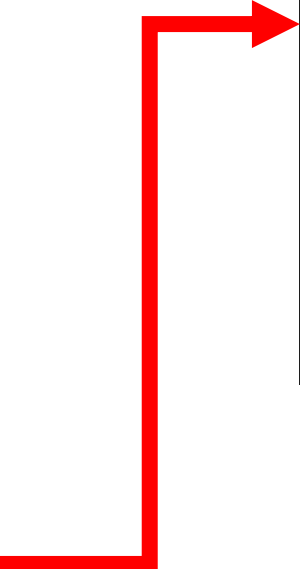
```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql      |
| performance_schema |
| sys        |
+-----+
4 rows in set (0.00 sec)
```

```
mysql> Create Database Test_Database;
```

```
mysql> Create Database Test_Database;
Query OK, 1 row affected (0.02 sec)
```

```
mysql> █
```

```
mysql> show databases;
+-----+
| Database |
+-----+
| Test_Database |
| information_schema |
| mysql      |
| performance_schema |
| sys        |
+-----+
5 rows in set (0.00 sec)
```



Open the index.php file with mobaTextEditor. After that type this code.

```
<?php

error_reporting(E_ALL);
ini_set('display_errors', 'On');

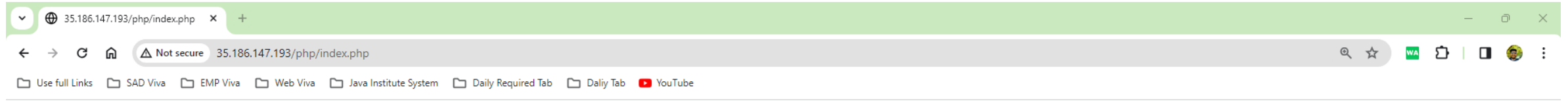
$servername = "localhost";
$username = "thilina";
$password = "12345678";

// Create connection
$conn = new mysqli($servername, $username,
$password);

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
echo "Connected successfully";
?>
```

After that save this code.

Open the web browser and type the following URL.



Fatal error: Uncaught Error: Class 'mysqli' not found in
/var/www/html/php/index.php:10 Stack trace: #0 {main} thrown in
/var/www/html/php/index.php on line **10**

Run this command in MobaXterm.

```
root@second-vps:/home/Thili# php --modules
```

```
root@second-vps:/home/Thili# php --modules
```

```
[PHP Modules]
```

```
calendar
```

```
Core
```

```
ctype
```

```
date
```

```
exif
```

```
FFI
```

```
fileinfo
```

```
filter
```

```
ftp
```

```
gettext
```

```
hash
```

```
iconv
```

```
json
```

```
libxml
```

```
openssl
```

```
pcntl
```

```
pcre
```

```
PDO
```

```
Phar
```

```
posix
```

```
readline
```

```
Reflection
```

```
session
```

```
shmop
```

```
sockets
```

```
sodium
```

```
SPL
```

```
standard
```

```
sysvmsg
```

```
sysvsem
```

```
sysvshm
```

```
tokenizer
```

```
Zend OPcache
```

```
zlib
```

```
[Zend Modules]
```

```
Zend OPcache
```

```
root@second-vps:/home/Thili#
```


Run this command in MobaXterm.

```
root@second-vps:/home/Thili# sudo apt-get install php7.4-mysql;
```

```
root@second-vps:/home/Thili# php --modules
```

```
[PHP Modules]
```

```
calendar
```

```
Core
```

```
ctype
```

```
date
```

```
exif
```

```
FFI
```

```
fileinfo
```

```
filter
```

```
ftp
```

```
gettext
```

```
hash
```

```
iconv
```

```
json
```

```
libxml
```

```
mysqli
```

```
mysqlnd
```

```
openssl
```

```
pcntl
```

```
pcre
```

```
PDO
```

```
pdo_mysql
```

```
Phar
```

```
posix
```

```
readline
```

```
Reflection
```

```
session
```

```
shmop
```

```
sockets
```

```
sodium
```

```
SPL
```

```
standard
```

```
sysvmsg
```

```
sysvsem
```

```
sysvshm
```

```
tokenizer
```

```
Zend OPcache
```

```
zlib
```

```
[Zend Modules]
```

```
Zend OPcache
```

```
root@second-vps:/home/Thili#
```

Run this command in MobaXterm.

Restart the apache2 server and refresh the web browser again.

```
root@second-vps:/home/Thili# systemctl restart apache2;
```

← → ↻ 🏠 ⚠ Not secure 35.186.147.193/php/index.php

📁 Use full Links 📁 SAD Viva 📁 EMP Viva 📁 Web Viva 📁 Java Institute System 📁 Daily Required Tab 📁 Daliy Tab 📁 YouTube

Connected successfully

Run this command in MobaXterm.

```
root@second-vps:/home/Thili# sudo apt install phpmyadmin
```

```
root@second-vps:/home/Thili# sudo apt install phpmyadmin
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libatasmart4 libblockdev-fs2 libblockdev-loop2 libblockdev-part-err2
  libblockdev-part2 libblockdev-swap2 libblockdev-utils2 libblockdev2 libmbim-glib4
  libmbim-proxy libmm-glib0 libnsspr4 libnss3 libparted-fs-resize0 libqmi-glib5
  libqmi-proxy libudisks2-0 libxmlb2 usb-modeswitch usb-modeswitch-data
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  dbconfig-common dbconfig-mysql fontconfig-config fonts-dejavu-core
  icc-profiles-free javascript-common libfontconfig1 libgd3 libjpeg-turbo8
  libjpeg8 libjs-jquery libjs-openlayers libjs-sphinxdoc libjs-underscore libonig5
  libtiff5 libwebp6 libxpm4 libzip5 php-bz2 php-curl php-gd php-google-recaptcha
  php-mbstring php-mysql php-phpmyadmin-motranslator php-phpmyadmin-shapefile
  php-phpmyadmin-sql-parser php-phpseclib php-psr-cache php-psr-container php-psr-log
  php-symfony-cache php-symfony-cache-contracts php-symfony-expression-language
  php-symfony-service-contracts php-symfony-var-exporter php-tcpdf php-twig
  php-twig-extensions php-xml php-zip php7.4-bz2 php7.4-curl php7.4-gd
  php7.4-mbstring php7.4-xml php7.4-zip
Suggested packages:
  libgd-tools php-dbase php-libsodium php-mcrypt php-gmp
  php-symfony-service-implementation php-imagick php-twig-doc php-symfony-translation
  www-browser php-recode php-gd2 php-pragmarx-google2fa php-bacon-qr-code
  php-samyoul-u2f-php-server
Recommended packages:
  php-mcrypt
The following NEW packages will be installed:
  dbconfig-common dbconfig-mysql fontconfig-config fonts-dejavu-core
  icc-profiles-free javascript-common libfontconfig1 libgd3 libjpeg-turbo8
  libjpeg8 libjs-jquery libjs-openlayers libjs-sphinxdoc libjs-underscore libonig5
  libtiff5 libwebp6 libxpm4 libzip5 php-bz2 php-curl php-gd php-google-recaptcha
  php-mbstring php-mysql php-phpmyadmin-motranslator php-phpmyadmin-shapefile
  php-phpmyadmin-sql-parser php-phpseclib php-psr-cache php-psr-container php-psr-log
  php-symfony-cache php-symfony-cache-contracts php-symfony-expression-language
  php-symfony-service-contracts php-symfony-var-exporter php-tcpdf php-twig
  php-twig-extensions php-xml php-zip php7.4-bz2 php7.4-curl php7.4-gd
  php7.4-mbstring php7.4-xml php7.4-zip phpmyadmin
0 upgraded, 50 newly installed, 0 to remove and 29 not upgraded.
Need to get 17.7 MB of archives.
After this operation, 77.1 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
```

Configuring phpmyadmin

Please choose the web server that should be automatically configured to run phpMyAdmin.

Web server to reconfigure automatically:

- ☐ apache2
- ☒ lighttpd

<Ok>

Configuring phpmyadmin

The phpmyadmin package must have a database installed and configured before it can be used. This can be optionally handled with dbconfig-common.

If you are an advanced database administrator and know that you want to perform this configuration manually, or if your database has already been installed and configured, you should refuse this option. Details on what needs to be done should most likely be provided in /usr/share/doc/phpmyadmin.

Otherwise, you should probably choose this option.

Configure database for phpmyadmin with dbconfig-common?

<Yes>

<No>

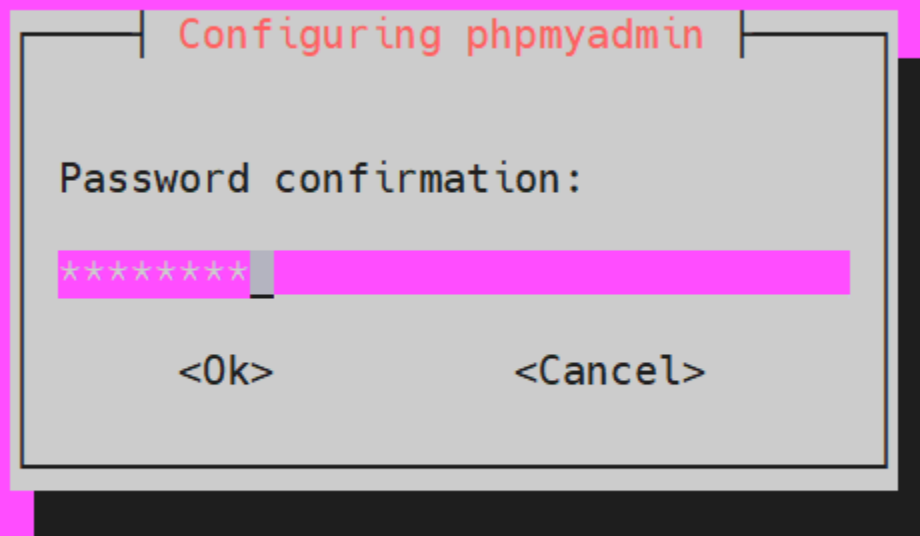
Configuring phpmyadmin

Please provide a password for phpmyadmin to register with the database server. If left blank, a random password will be generated.

MySQL application password for phpmyadmin:

<Ok>

<Cancel>



```
root@second-vps:/home/Thili# systemctl restart apache2;
```

Not Found

The requested URL was not found on this server.

Apache/2.4.41 (Ubuntu) Server at 35.186.147.193 Port 80

File manager sidebar showing system directories:

- var
- usr
- tmp
- sys
- srv
- snap
- run
- root
- proc
- opt
- mnt
- media
- lost+found
- home
- etc
- dev
- boot
- sbin
- libx32
- lib64
- lib32
- lib
- bin

File manager sidebar showing system files and directories:

- init
- gss
- grub.d
- groff
- fonts
- dpkg
- dhcp
- depmod.d
- default
- dconf
- dbus-1
- dbconfig-common
- cryptsetup-initramfs
- cron.weekly
- cron.monthly
- cron.hourly
- cron.daily
- cron.d
- console-setup
- cloud
- chrony
- calendar
- ca-certificates
- byobu
- binfmt.d
- bash_completion.d
- apt
- apport
- apparmor.d
- apparmor
- apache2
- alternatives
- zsh_command_not_found
- xattr.conf
- wgetrc
- vttrgb
- usb_modeswitch.conf
- ucf.conf
- timezone
- sysctl.conf
- sudoers
- subuid-
- subuid

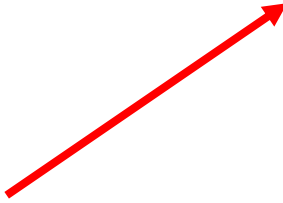
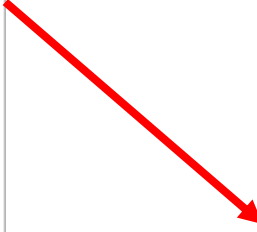
Quick connect... sidebar showing file explorer:

Star icon, Download icon, Upload icon, Power icon, Folder icon, File icon, Close icon, Key icon

/etc/apache2/

File explorer sidebar showing files and directories:

- ..
- sites-enabled
- sites-available
- mods-enabled
- mods-available
- conf-enabled
- conf-available
- ports.conf
- magic
- envvars
- apache2.conf



MobaTextEditor

File Edit Search View Format Encoding Syntax Special Tools

apache2.conf

```
1 # This is the main Apache server configuration file. It contains the
2 # configuration directives that give the server its instructions.
3 # See http://httpd.apache.org/docs/2.4/ for detailed information about
4 # the directives and /usr/share/doc/apache2/README.Debian about Debian specific
5 # hints.
6 #
7 #
8 # Summary of how the Apache 2 configuration works in Debian:
9 # The Apache 2 web server configuration in Debian is quite different to
10 # upstream's suggested way to configure the web server. This is because Debian's
11 # default Apache2 installation attempts to make adding and removing modules,
12 # virtual hosts, and extra configuration directives as flexible as possible, in
13 # order to make automating the changes and administering the server as easy as
14 # possible.
15
16 # It is split into several files forming the configuration hierarchy outlined
17 # below, all located in the /etc/apache2/ directory:
18 #
19 # /etc/apache2/
20 # |-- apache2.conf
21 # |  `-- ports.conf
22 # |-- mods-enabled
```

C:\Users\Thill\AppData\Roaming\MobaXterm\slash\RemoteFiles\66 UNIX INI 228 lines Row #1 Col #1



```
*apache2.conf
209 # Note that the use of %{X-Forwarded-For}i instead of %h is not recommended.
210 # Use mod_remoteip instead.
211 #
212 LogFormat "%v:%p %h %l %u %t \"%r\" %>s %O \"%{Referer}i\" \"%{User-Agent}i\""
  vhost_combined
213 LogFormat "%h %l %u %t \"%r\" %>s %O \"%{Referer}i\" \"%{User-Agent}i\"" combined
214 LogFormat "%h %l %u %t \"%r\" %>s %O" common
215 LogFormat "%{Referer}i -> %U" referer
216 LogFormat "%{User-agent}i" agent
217
218 # Include of directories ignores editors' and dpkg's backup files,
219 # see README.Debian for details.
220
221 # Include generic snippets of statements
222 IncludeOptional conf-enabled/*.conf
223
224 # Include the virtual host configurations:
225 IncludeOptional sites-enabled/*.conf
226
227 # vim: syntax=apache ts=4 sw=4 sts=4 sr noet
228 Include /etc/phpmyadmin/apache.conf
```

```
root@second-vps:/home/Thili# systemctl restart apache2;
```



Not secure 35.186.147.193/phpmyadmin/

SAD Viva EMP Viva Web Viva Java Institute System Daily Required Tab Daliy Tab YouTube



Welcome to phpMyAdmin

Language

English

Log in

Username:

Password:

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