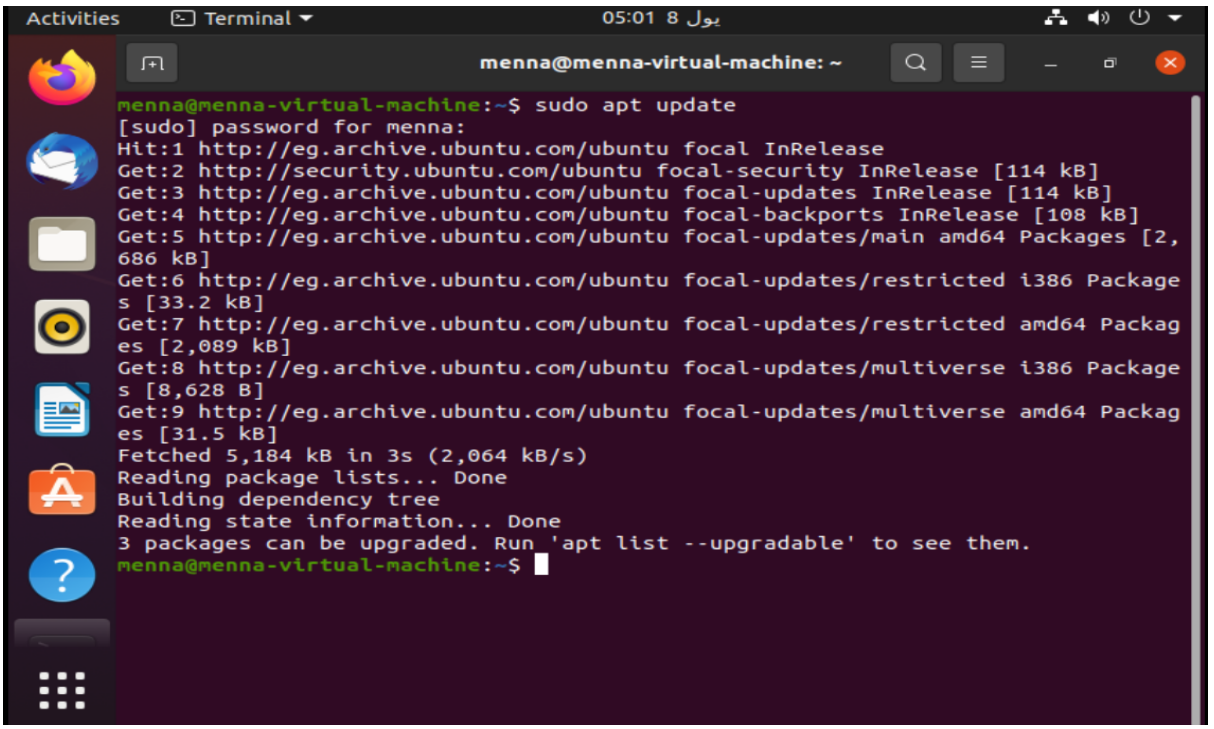
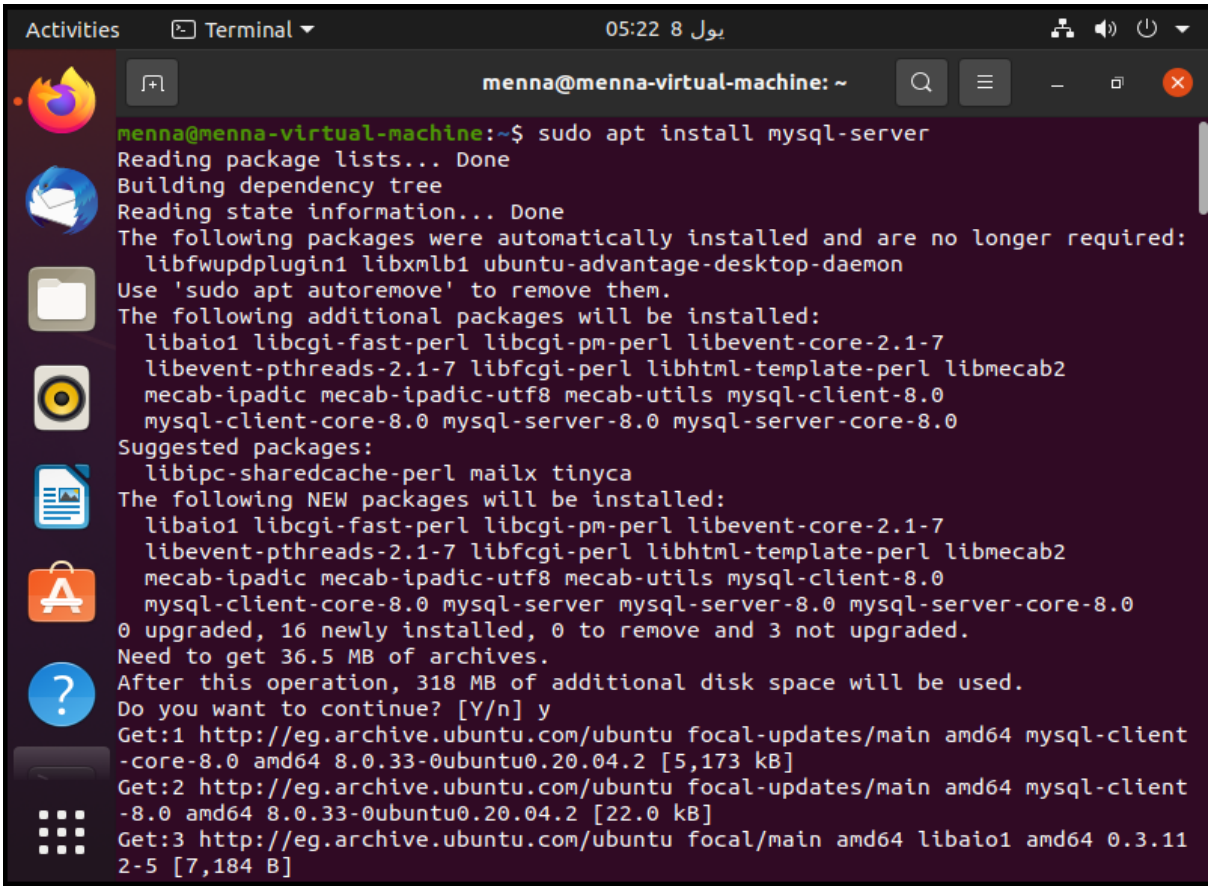
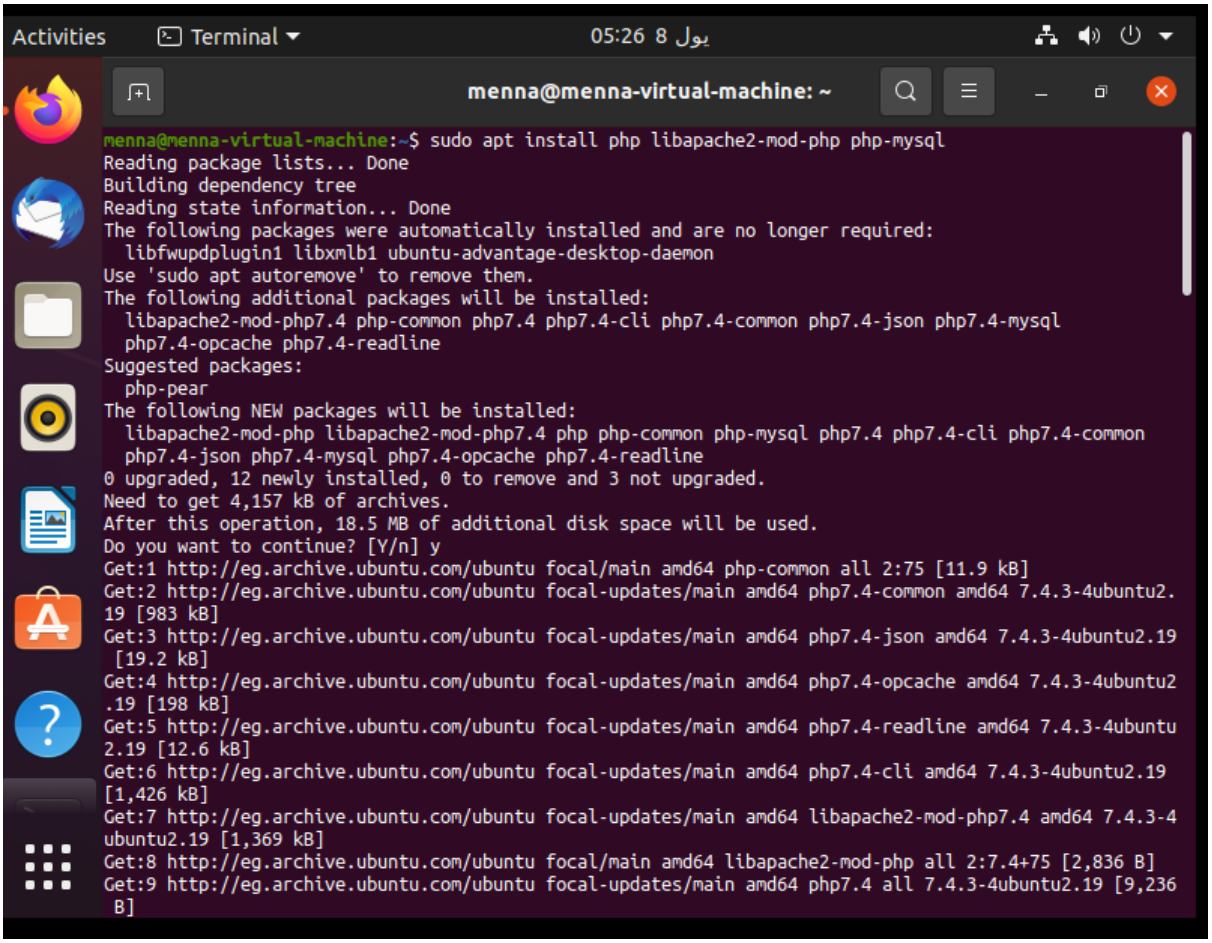
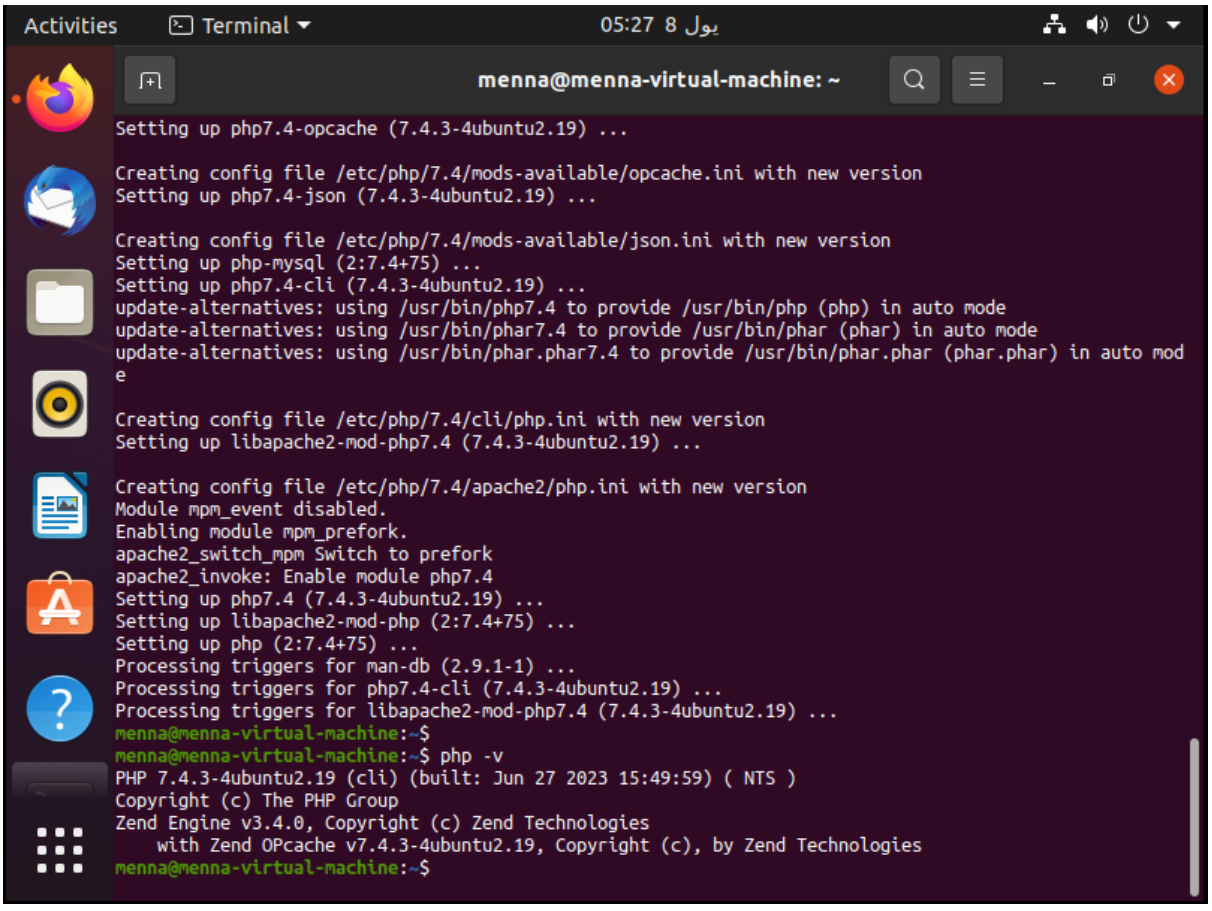
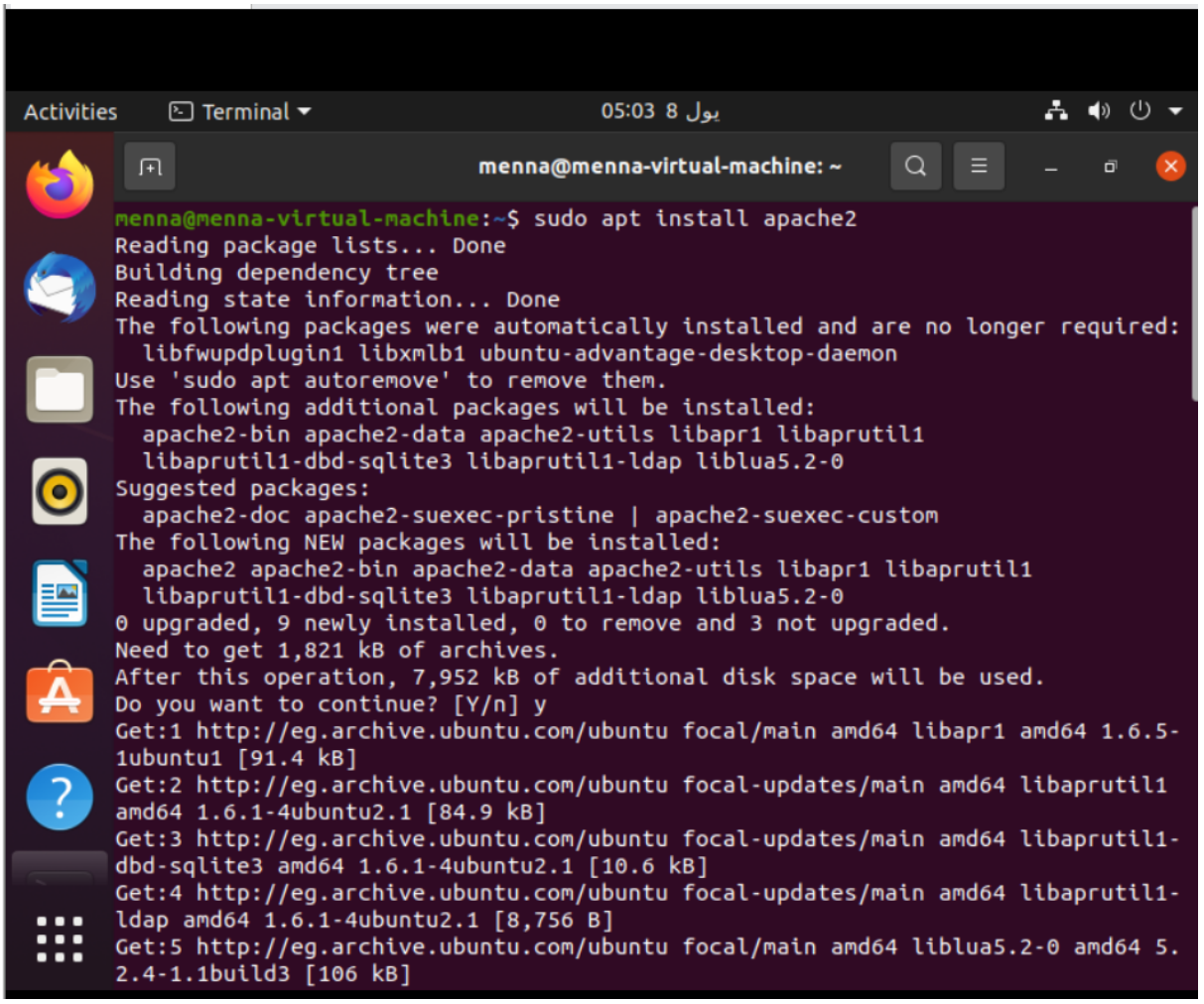
Install Apache, MySQL and PHP on the Linux machine using apt-get or another package manager



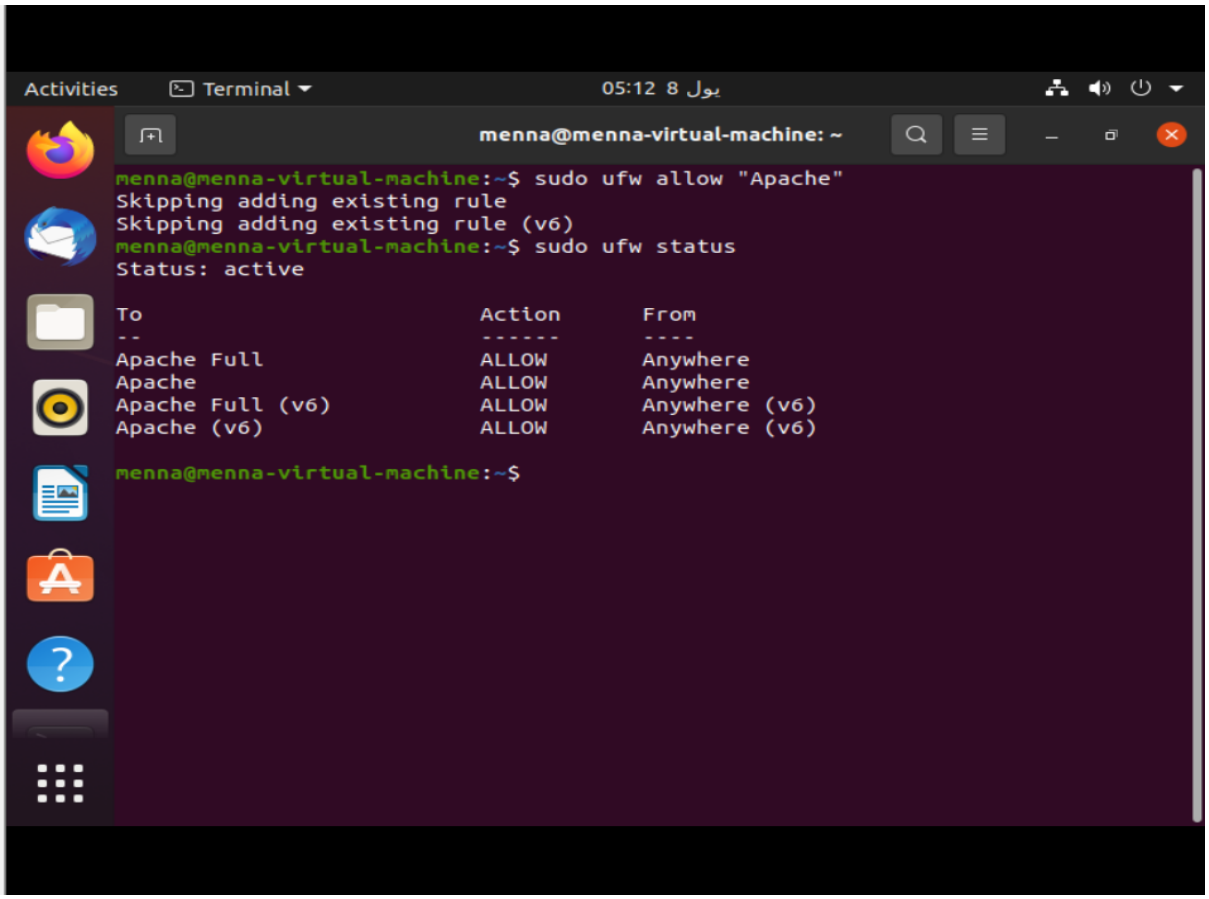


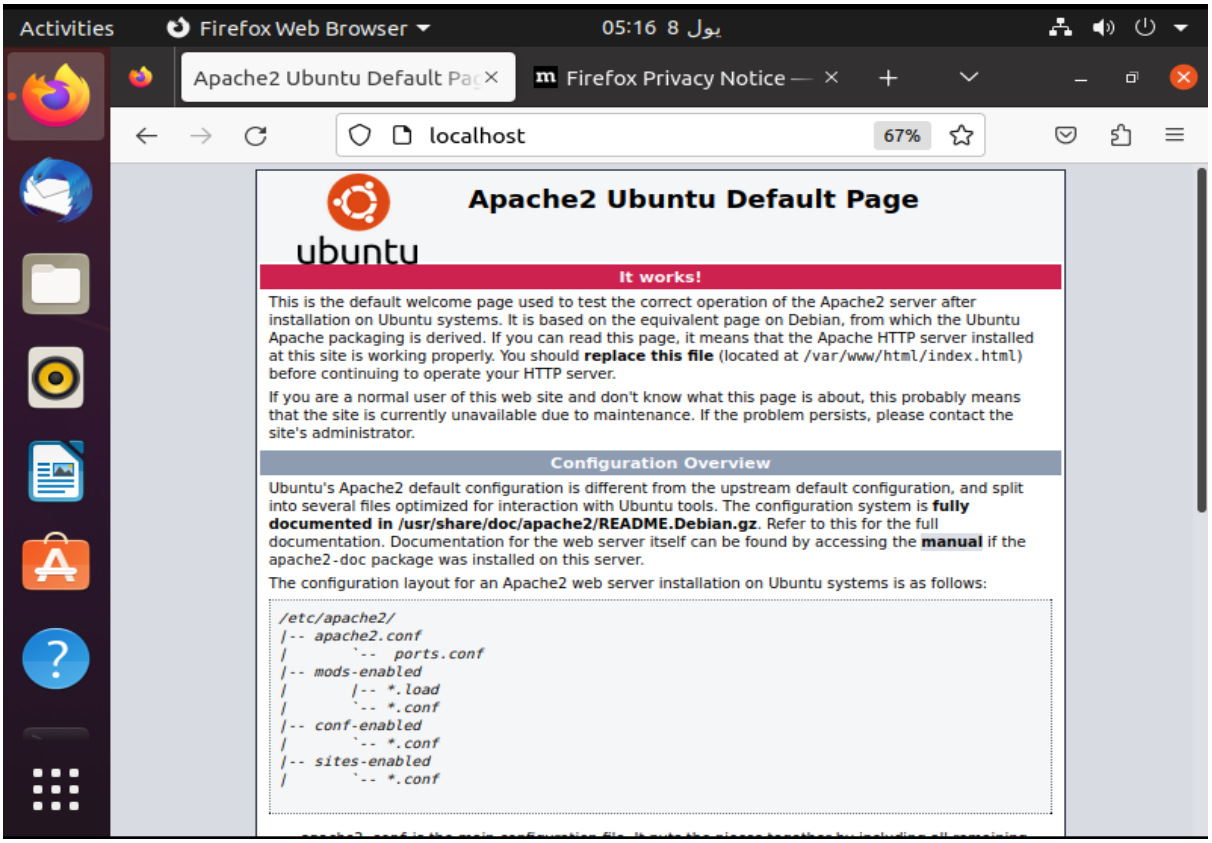

Activities
Terminal
05:26 8 يول
menna@menna-virtual-machine: ~
menna@menna-virtual-machine:~$ sudo apt install php libapache2-mod-php php-mysql
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
libfwupdplugin1 libxmlb1 ubuntu-advantage-desktop-daemon
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
libapache2-mod-php7.4 php-common php7.4 php7.4-cli php7.4-common php7.4-json php7.4-mysql
php7.4-opcache php7.4-readline
Suggested packages:
php-pear
The following NEW packages will be installed:
libapache2-mod-php libapache2-mod-php7.4 php php-common php-mysql php7.4 php7.4-cli php7.4-common
php7.4-json php7.4-mysql php7.4-opcache php7.4-readline
0 upgraded, 12 newly installed, 0 to remove and 3 not upgraded.
Need to get 4,157 kB of archives.
After this operation, 18.5 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://eg.archive.ubuntu.com/ubuntu focal/main amd64 php-common all 2:75 [11.9 kB]
Get:2 http://eg.archive.ubuntu.com/ubuntu focal-updates/main amd64 php7.4-common amd64 7.4.3-4ubuntu2.
19 [983 kB]
Get:3 http://eg.archive.ubuntu.com/ubuntu focal-updates/main amd64 php7.4-json amd64 7.4.3-4ubuntu2.19
[19.2 kB]
Get:4 http://eg.archive.ubuntu.com/ubuntu focal-updates/main amd64 php7.4-opcache amd64 7.4.3-4ubuntu2
.19 [198 kB]
Get:5 http://eg.archive.ubuntu.com/ubuntu focal-updates/main amd64 php7.4-readline amd64 7.4.3-4ubuntu
2.19 [12.6 kB]
Get:6 http://eg.archive.ubuntu.com/ubuntu focal-updates/main amd64 php7.4-cli amd64 7.4.3-4ubuntu2.19
[1,426 kB]
Get:7 http://eg.archive.ubuntu.com/ubuntu focal-updates/main amd64 libapache2-mod-php7.4 amd64 7.4.3-4
ubuntu2.19 [1,369 kB]
Get:8 http://eg.archive.ubuntu.com/ubuntu focal/main amd64 libapache2-mod-php all 2:7.4+75 [2,836 B]
Get:9 http://eg.archive.ubuntu.com/ubuntu focal-updates/main amd64 php7.4 all 7.4.3-4ubuntu2.19 [9,236
B]

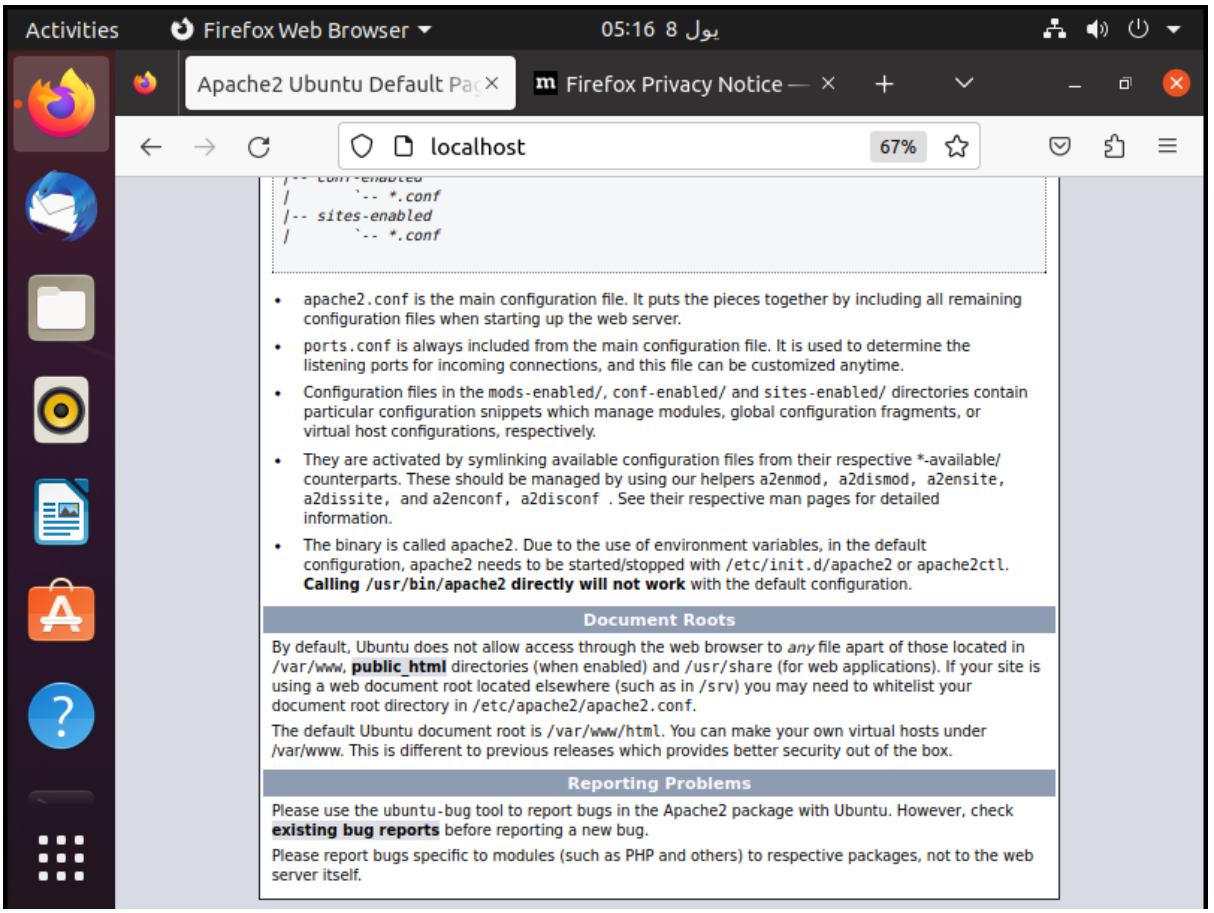

Activities
Terminal
05:27 8 يول
menna@menna-virtual-machine: ~
Setting up php7.4-opcache (7.4.3-4ubuntu2.19) ...
Creating config file /etc/php/7.4/mods-available/opcache.ini with new version
Setting up php7.4-json (7.4.3-4ubuntu2.19) ...
Creating config file /etc/php/7.4/mods-available/json.ini with new version
Setting up php-mysql (2:7.4+75) ...
Setting up php7.4-cli (7.4.3-4ubuntu2.19) ...
update-alternatives: using /usr/bin/php7.4 to provide /usr/bin/php (php) in auto mode
update-alternatives: using /usr/bin/phar7.4 to provide /usr/bin/phar (phar) in auto mode
update-alternatives: using /usr/bin/phar.phar7.4 to provide /usr/bin/phar.phar (phar.phar) in auto mod
e
Creating config file /etc/php/7.4/cli/php.ini with new version
Setting up libapache2-mod-php7.4 (7.4.3-4ubuntu2.19) ...
Creating config file /etc/php/7.4/apache2/php.ini with new version
Module mpm_event disabled.
Enabling module mpm_prefork.
apache2_switch_mpm Switch to prefork
apache2_invoke: Enable module php7.4
Setting up php7.4 (7.4.3-4ubuntu2.19) ...
Setting up libapache2-mod-php (2:7.4+75) ...
Setting up php (2:7.4+75) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for php7.4-cli (7.4.3-4ubuntu2.19) ...
Processing triggers for libapache2-mod-php7.4 (7.4.3-4ubuntu2.19) ...
menna@menna-virtual-machine:~$
menna@menna-virtual-machine:~$ php -v
PHP 7.4.3-4ubuntu2.19 (cli) (built: Jun 27 2023 15:49:59) (NTS)
Copyright (c) The PHP Group
Zend Engine v3.4.0, Copyright (c) Zend Technologies
with Zend OPcache v7.4.3-4ubuntu2.19, Copyright (c), by Zend Technologies
menna@menna-virtual-machine:~$


Activities
Terminal
05:03 8 يول
menna@menna-virtual-machine: ~
menna@menna-virtual-machine:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
libfwupdplugin1 libxmlb1 ubuntu-advantage-desktop-daemon
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
apache2-bin apache2-data apache2-utils libapr1 libaprutil1
libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0
Suggested packages:
apache2-doc apache2-suexec-pristine | apache2-suexec-custom
The following NEW packages will be installed:
apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1
libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0
0 upgraded, 9 newly installed, 0 to remove and 3 not upgraded.
Need to get 1,821 kB of archives.
After this operation, 7,952 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://eg.archive.ubuntu.com/ubuntu focal/main amd64 libapr1 amd64 1.6.5-1ubuntu1 [91.4 kB]
Get:2 http://eg.archive.ubuntu.com/ubuntu focal-updates/main amd64 libaprutil1 amd64 1.6.1-4ubuntu2.1 [84.9 kB]
Get:3 http://eg.archive.ubuntu.com/ubuntu focal-updates/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.1-4ubuntu2.1 [10.6 kB]
Get:4 http://eg.archive.ubuntu.com/ubuntu focal-updates/main amd64 libaprutil1-ldap amd64 1.6.1-4ubuntu2.1 [8,756 B]
Get:5 http://eg.archive.ubuntu.com/ubuntu focal/main amd64 liblua5.2-0 amd64 5.2.4-1.1build3 [106 kB]

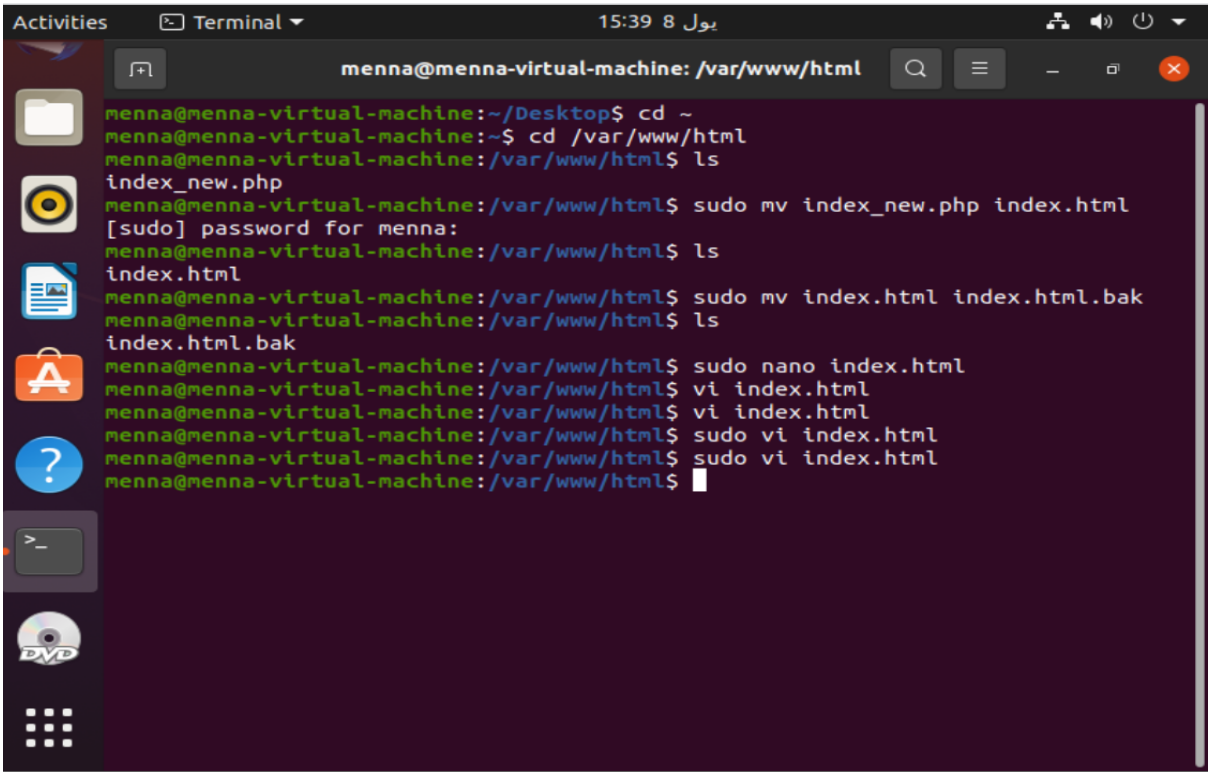
2. Configure Apache to serve the website from the /var/www/html/ directory.

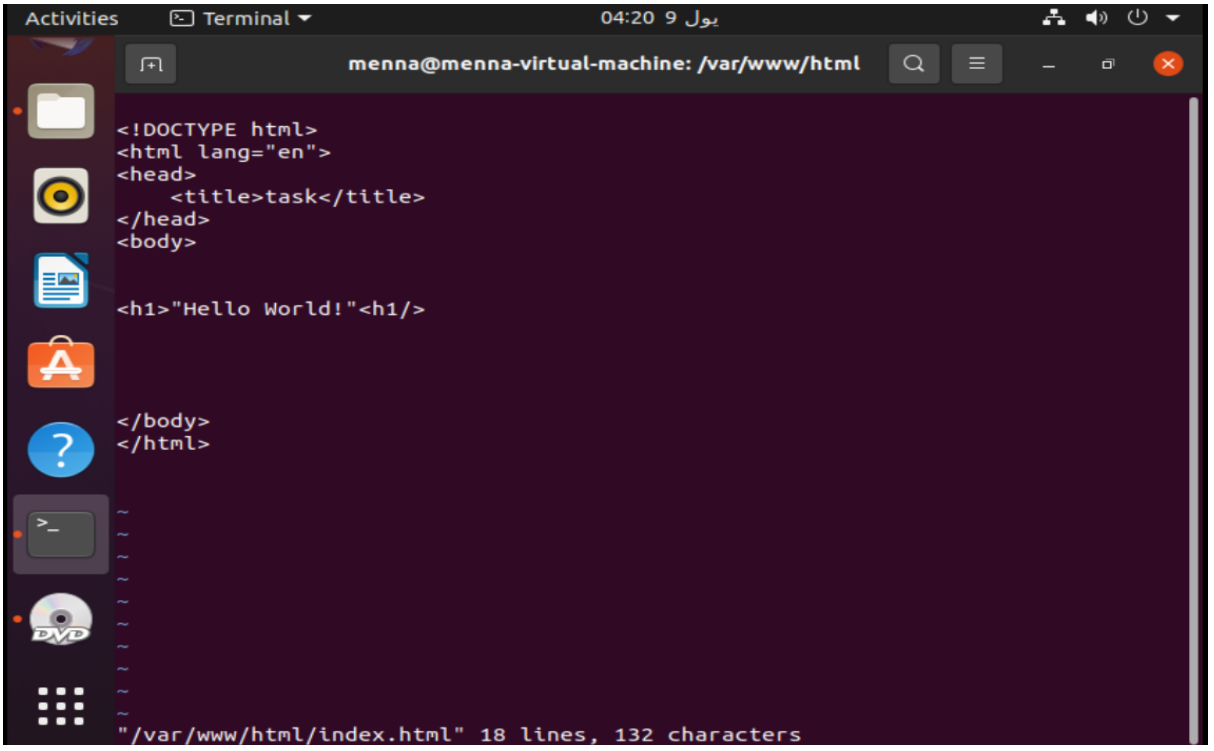


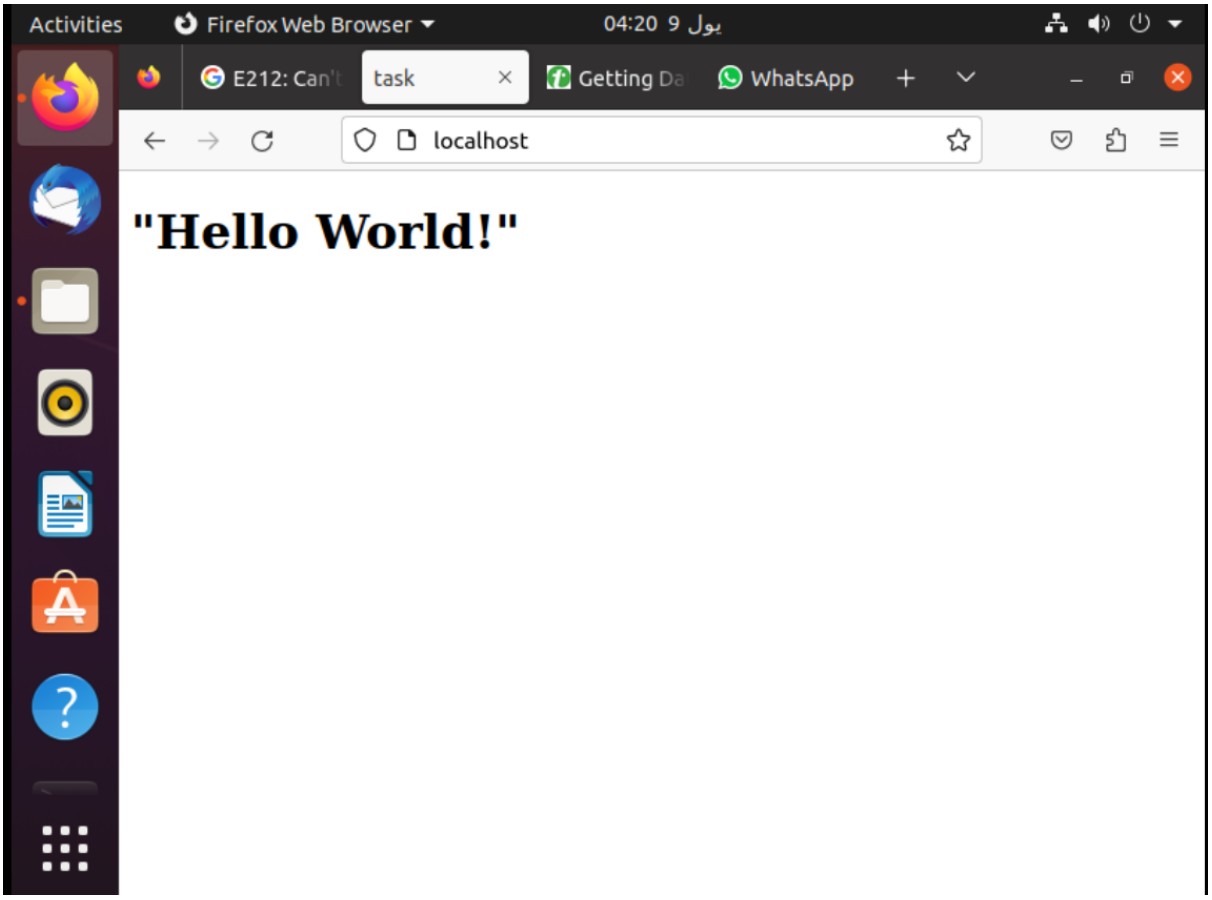



Activities
Firefox Web Browser
05:16 8 يول
Apache2 Ubuntu Default Pa
Firefox Privacy Notice —
localhost
67%
|-- conf-enabled
| `-- *.conf
|-- sites-enabled
| `-- *.conf
apache2.conf is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
ports.conf is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
Configuration files in the mods-enabled/, conf-enabled/ and sites-enabled/ directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.
They are activated by symlinking available configuration files from their respective *-available/ counterparts. These should be managed by using our helpers a2enmod, a2dismod, a2ensite, a2dissite, and a2enconf, a2disconf . See their respective man pages for detailed information.
The binary is called apache2. Due to the use of environment variables, in the default configuration, apache2 needs to be started/stopped with /etc/init.d/apache2 or apache2ctl. Calling /usr/bin/apache2 directly will not work with the default configuration.
Document Roots
By default, Ubuntu does not allow access through the web browser to any file apart of those located in /var/www, public_html directories (when enabled) and /usr/share (for web applications). If your site is using a web document root located elsewhere (such as in /srv) you may need to whitelist your document root directory in /etc/apache2/apache2.conf.
The default Ubuntu document root is /var/www/html. You can make your own virtual hosts under /var/www. This is different to previous releases which provides better security out of the box.
Reporting Problems
Please use the ubuntu-bug tool to report bugs in the Apache2 package with Ubuntu. However, check existing bug reports before reporting a new bug.
Please report bugs specific to modules (such as PHP and others) to respective packages, not to the web server itself.

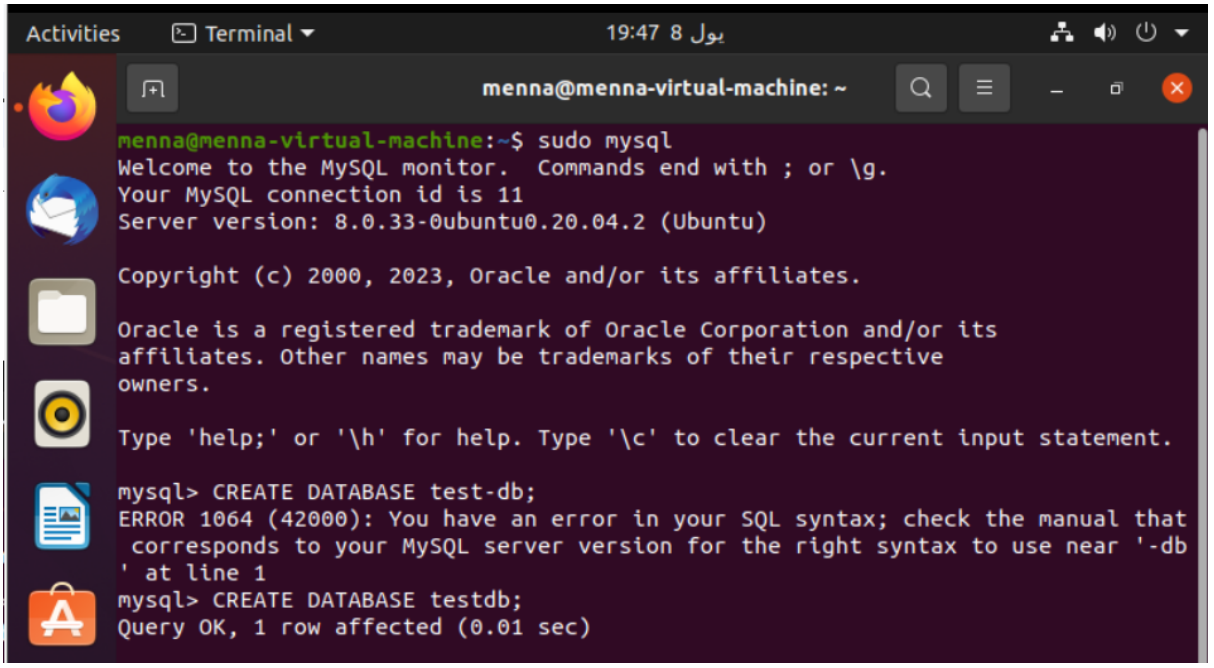
Create a simple website that displays the message "Hello World!" when accessed through a web
.browser

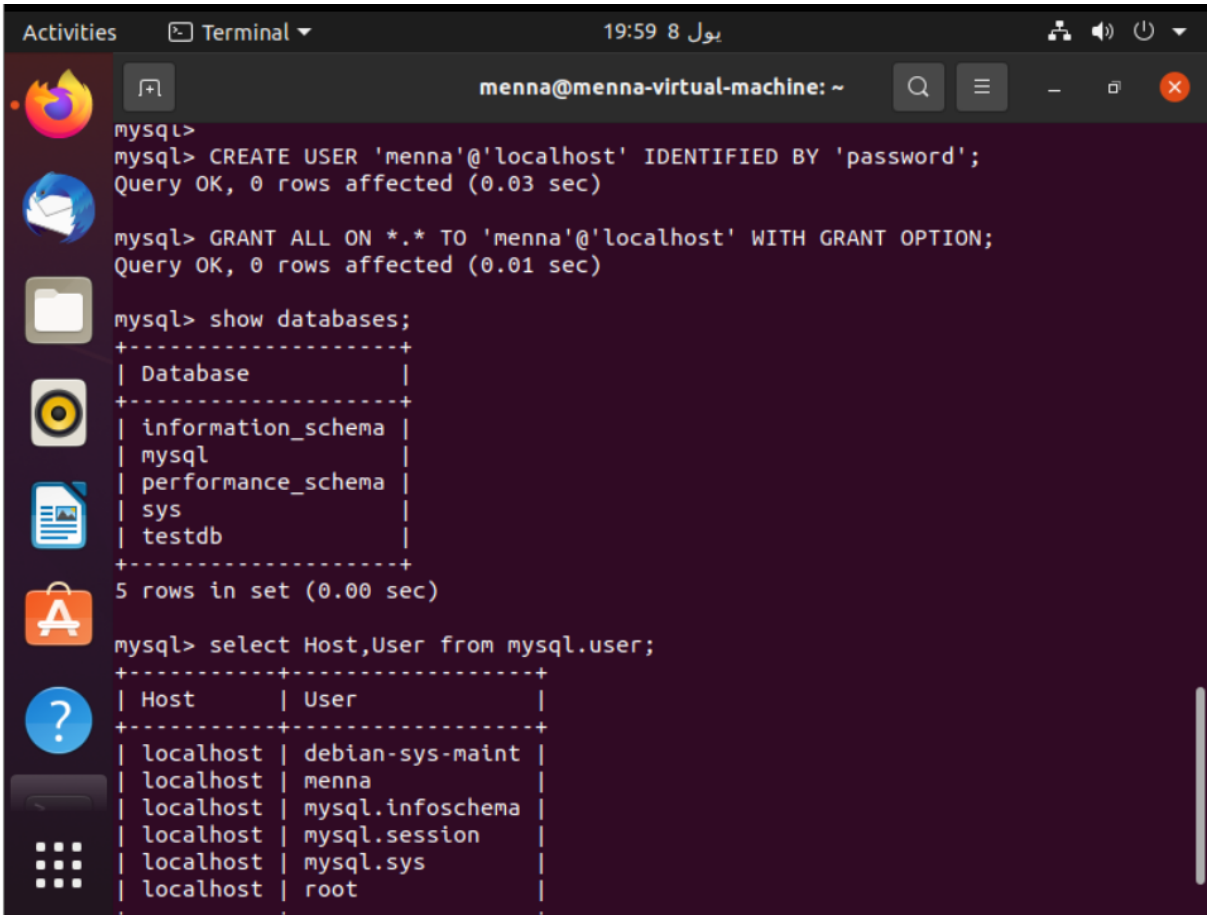





Activities
Firefox Web Browser
04:20 9 يول
E212: Can't
task
Getting Da
WhatsApp
localhost
"Hello World!"

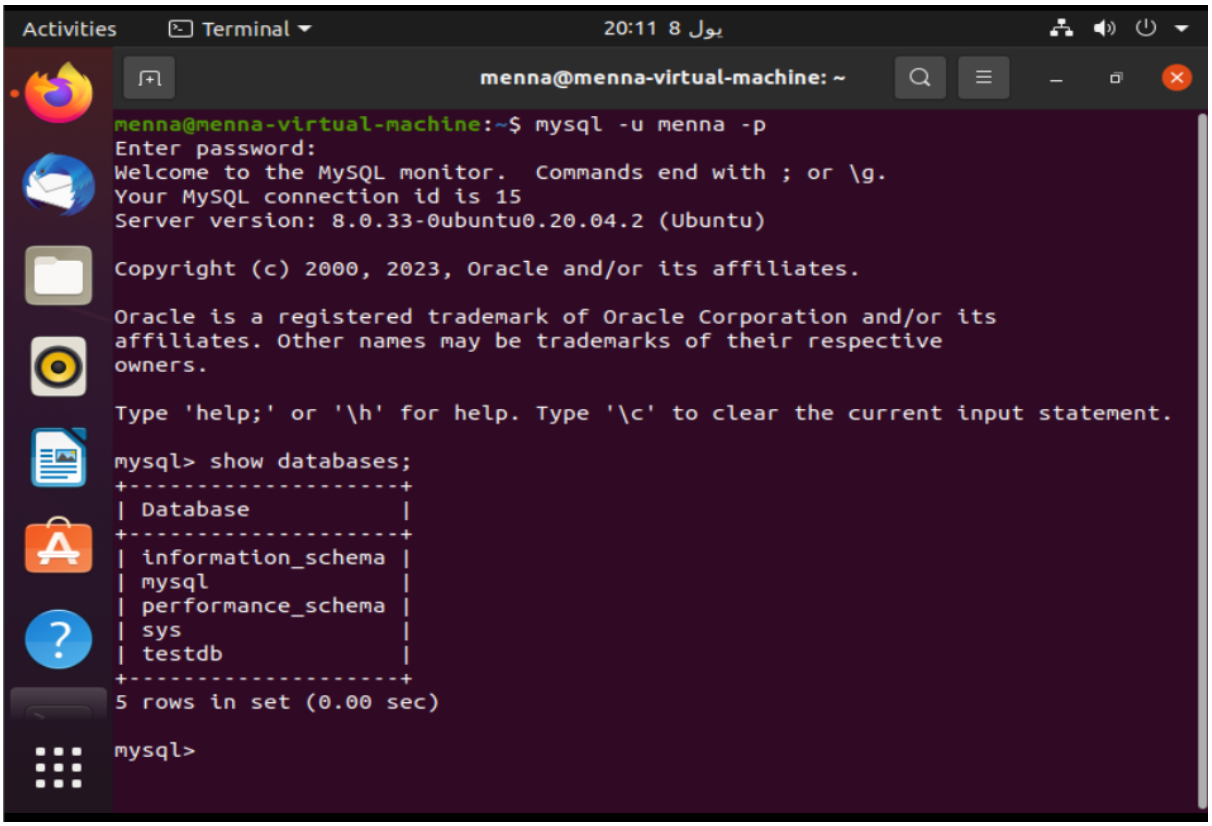
Configure MySQL to create a new database, user, and password for the website.

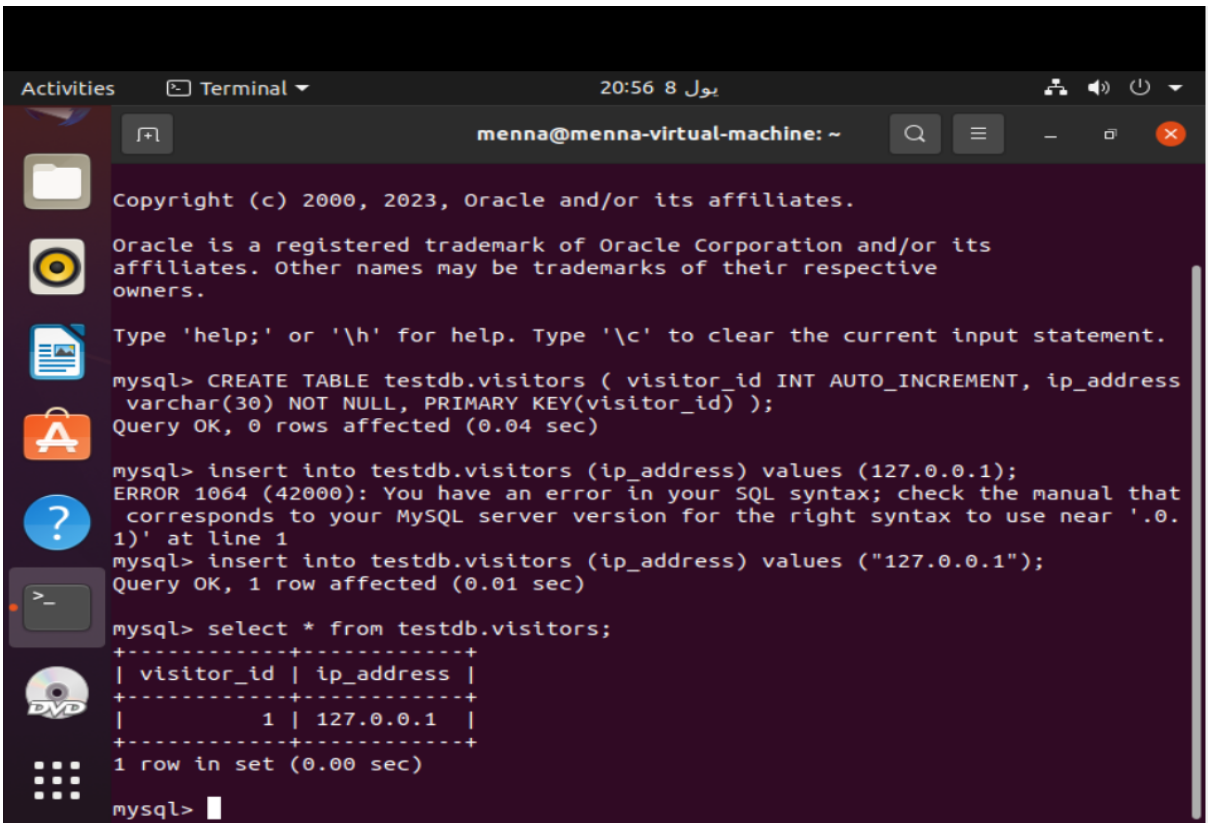


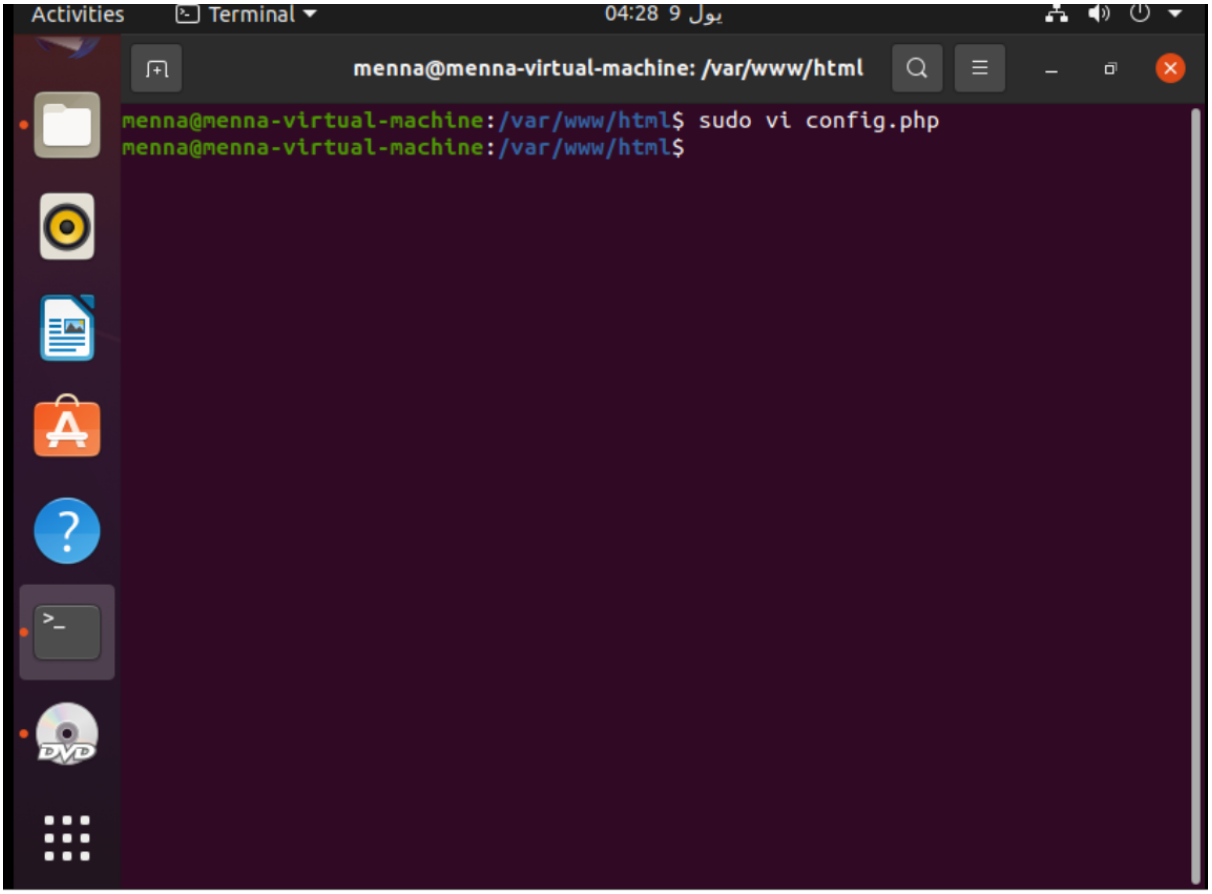


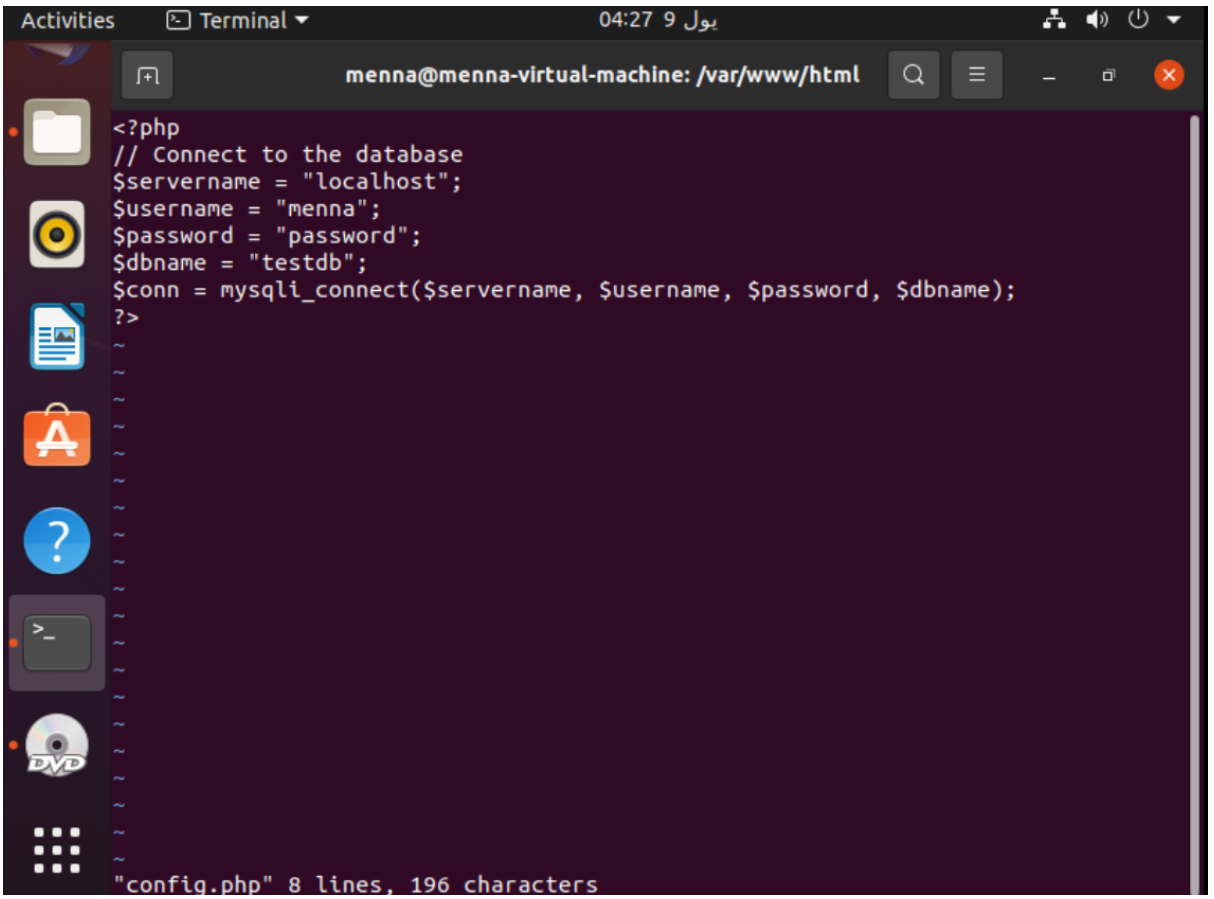
Modify the website to use the newly created database to display a message that includes the visitor's
IP address and the current time

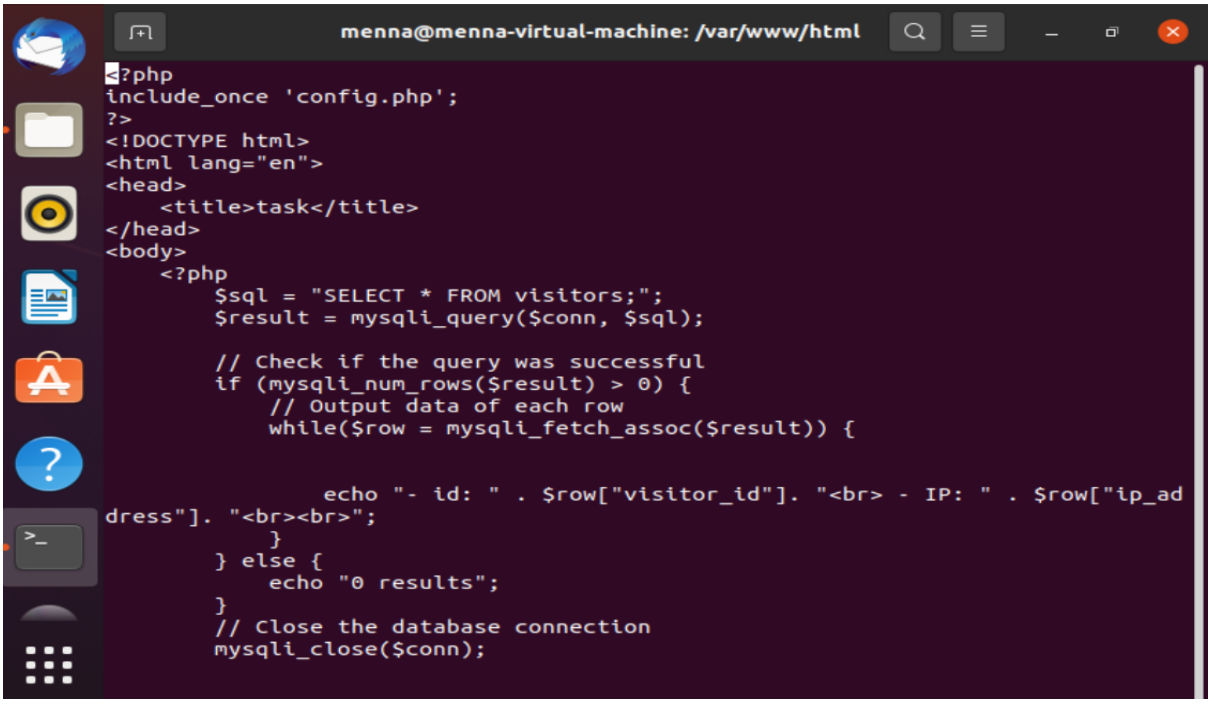
--first i created a database and table to store the visitor_id and ip address



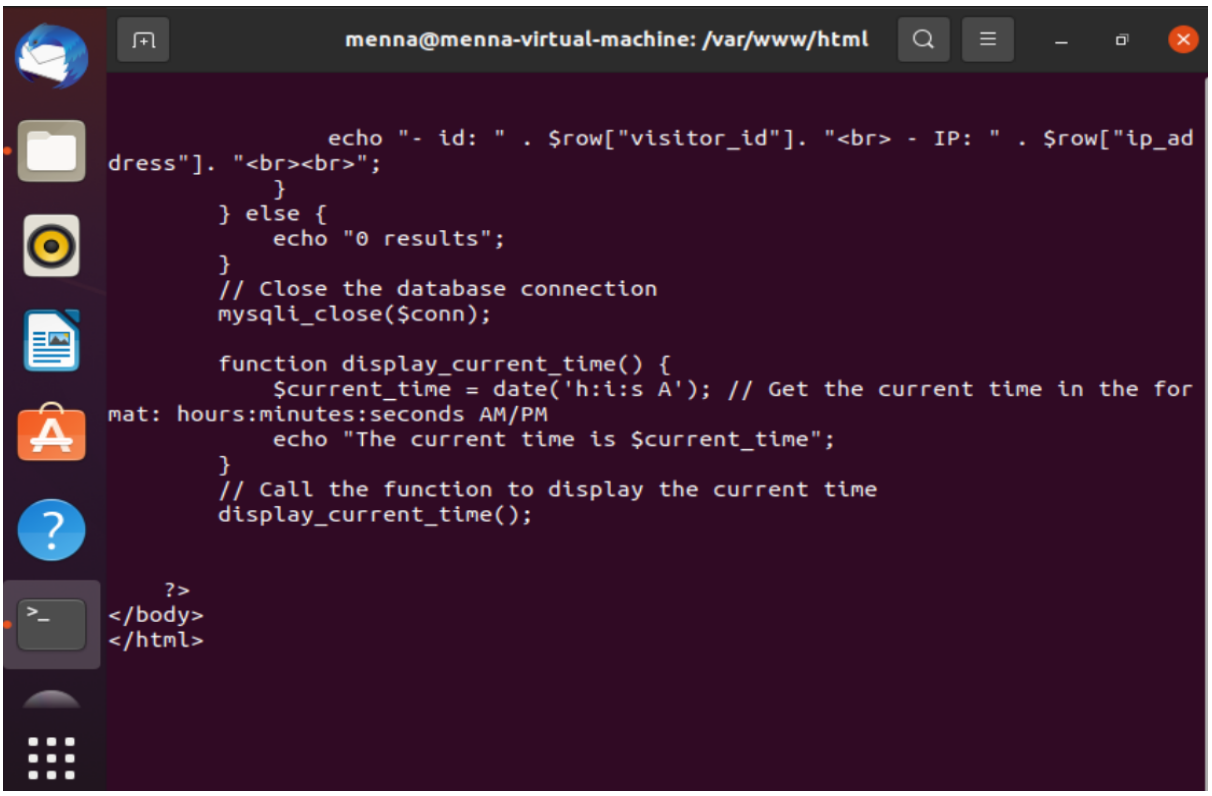

Activities
Terminal
20:56 8 يول
menna@menna-virtual-machine: ~
Copyright (c) 2000, 2023, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> CREATE TABLE testdb.visitors (visitor_id INT AUTO_INCREMENT, ip_address
varchar(30) NOT NULL, PRIMARY KEY(visitor_id));
Query OK, 0 rows affected (0.04 sec)
mysql> insert into testdb.visitors (ip_address) values (127.0.0.1);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near '.0.
1)' at line 1
mysql> insert into testdb.visitors (ip_address) values ("127.0.0.1");
Query OK, 1 row affected (0.01 sec)
mysql> select * from testdb.visitors;
+------------+------------+
| visitor_id | ip_address |
+------------+------------+
| 1 | 127.0.0.1 |
+------------+------------+
1 row in set (0.00 sec)
mysql>


Activities
Terminal
04:28 9 يول
menna@menna-virtual-machine: /var/www/html
menna@menna-virtual-machine:/var/www/html$ sudo vi config.php
menna@menna-virtual-machine:/var/www/html$

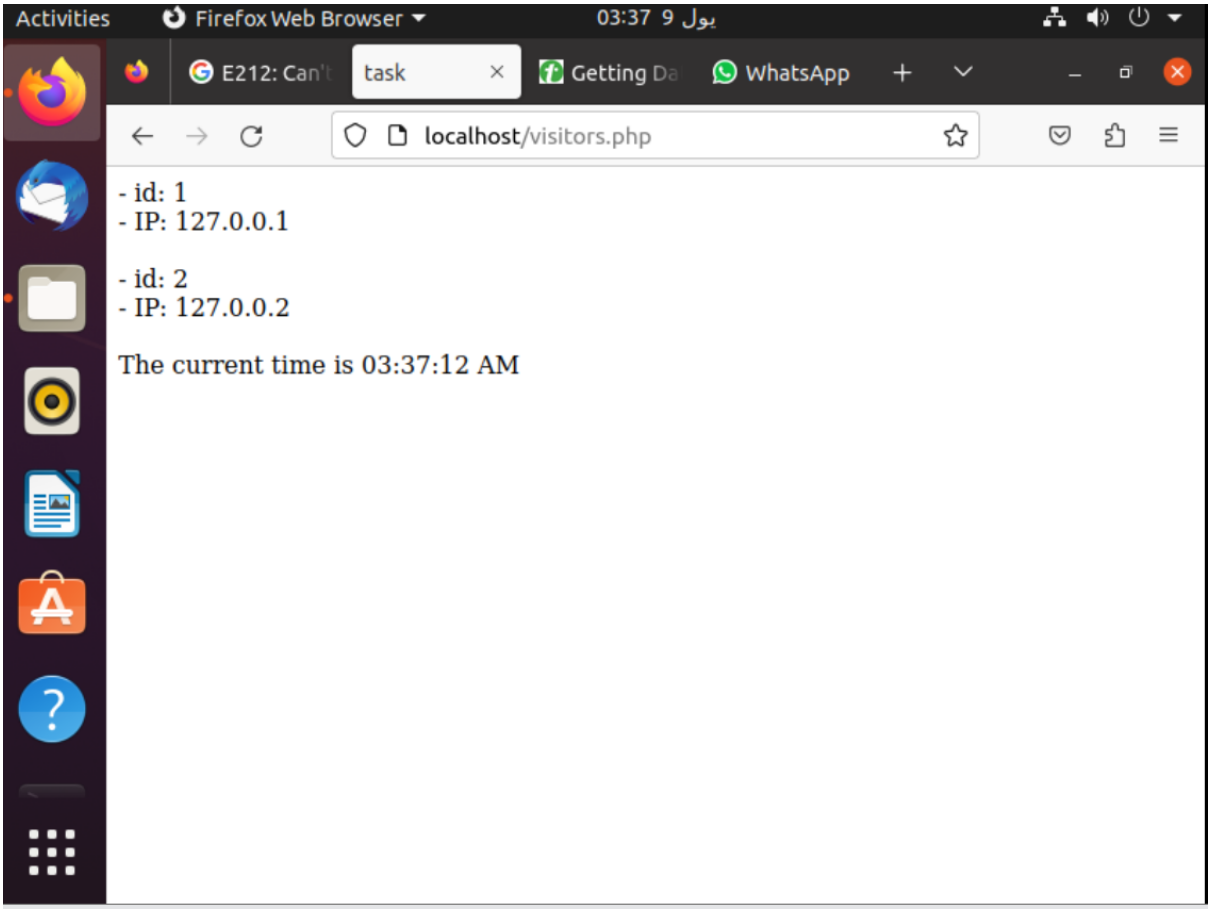

Activities
Terminal
04:27 9 يول
menna@menna-virtual-machine: /var/www/html
<?php
// Connect to the database
$servername = "localhost";
$username = "menna";
$password = "password";
$dbname = "testdb";
$conn = mysqli_connect($servername, $username, $password, $dbname);
?>
"config.php" 8 lines, 196 characters


menna@menna-virtual-machine: /var/www/html
<?php
include_once 'config.php';
?>
<!DOCTYPE html>
<html lang="en">
<head>
<title>task</title>
</head>
<body>
<?php
$sql = "SELECT * FROM visitors;";
$result = mysqli_query($conn, $sql);
// Check if the query was successful
if (mysqli_num_rows($result) > 0) {
// Output data of each row
while($row = mysqli_fetch_assoc($result)) {
echo "- id: " . $row["visitor_id"]. "
 - IP: " . $row["ip_address"]. "

";
}
} else {
echo "0 results";
}
// Close the database connection
mysqli_close($conn);



Test the website by accessing it through a web browser and verifying that it displays the expected
message


Activities
Firefox Web Browser
03:37 9 يول
E212: Can't
task
Getting Da
WhatsApp
localhost/visitors.php
- id: 1
- IP: 127.0.0.1
- id: 2
- IP: 127.0.0.2
The current time is 03:37:12 AM