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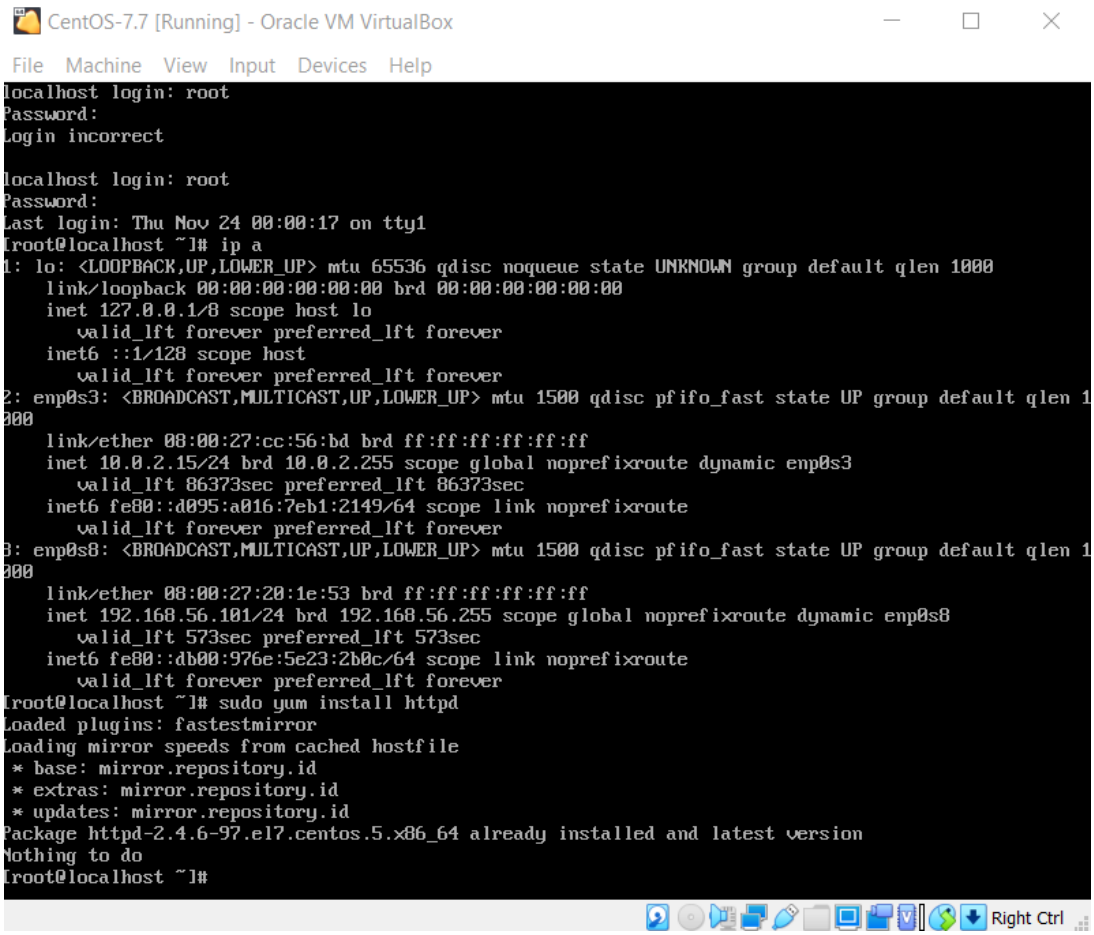
Praktikum 11 Install Linux, Apache, MySQL, PHP (LAMP) stack On CentOS 7

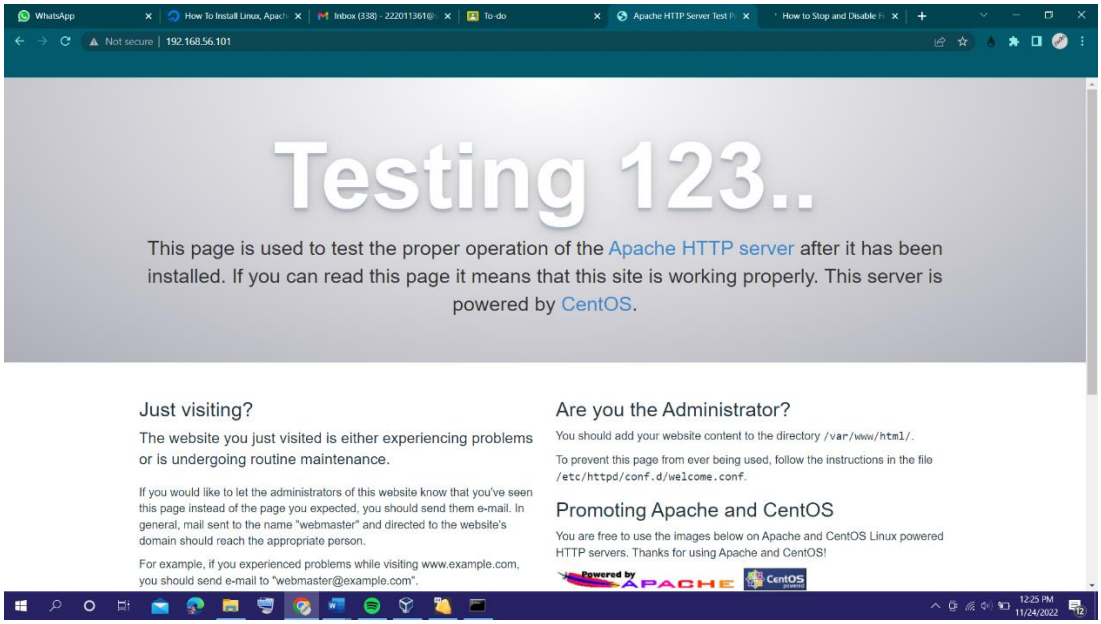
1. Installing the Apache Web Server
   - Install httpd Apache Package



   - Start httpd

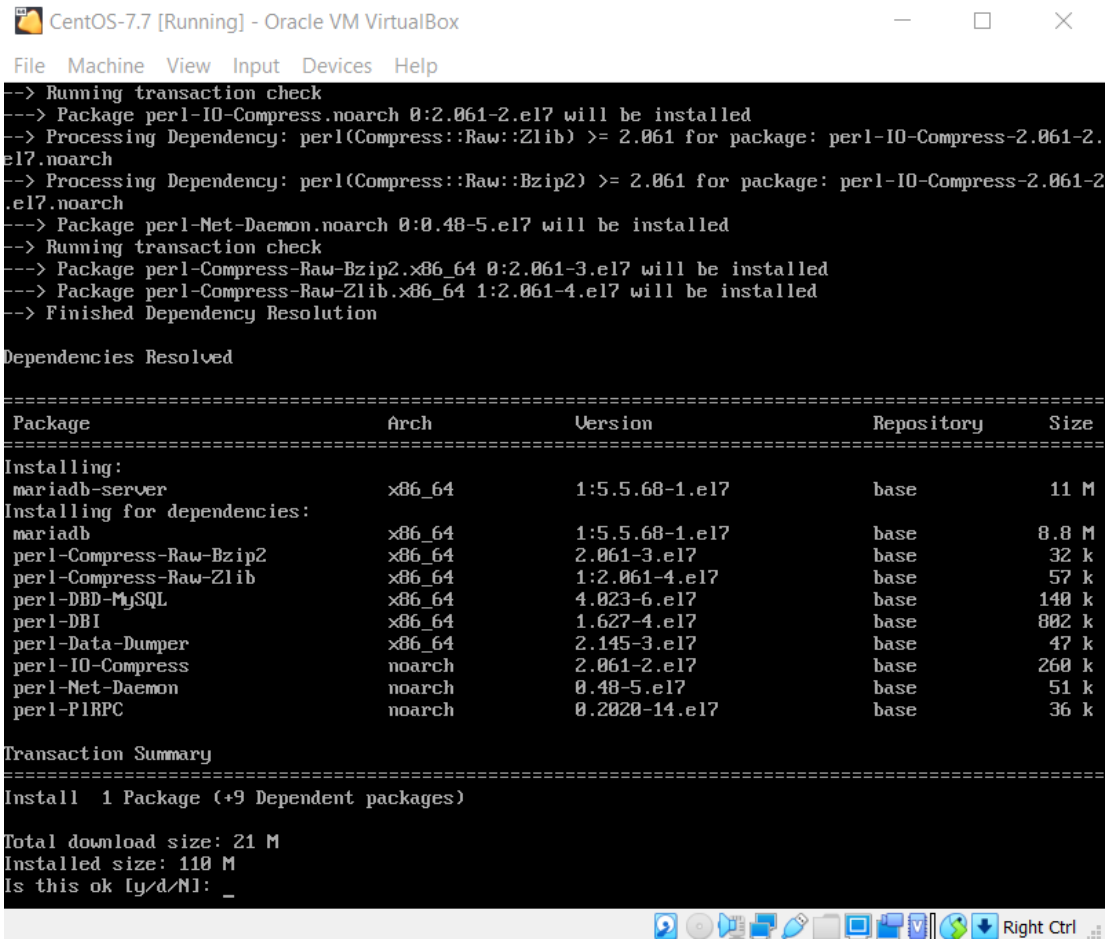
   - Mematikan Firewall

- Default CentOS 7 landing page



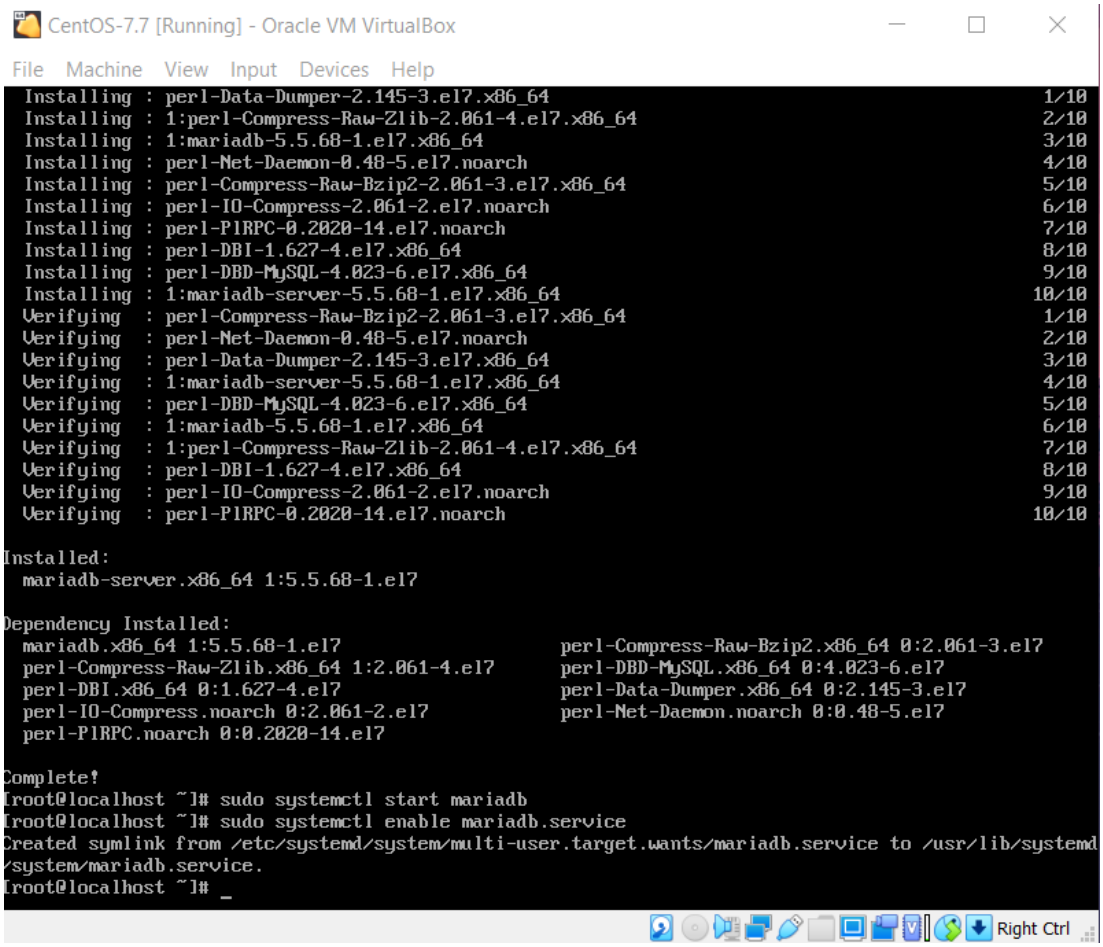
- Enable Apache to start in boot

2. Installing MySQL (MariaDB)
    - Install MariaDB

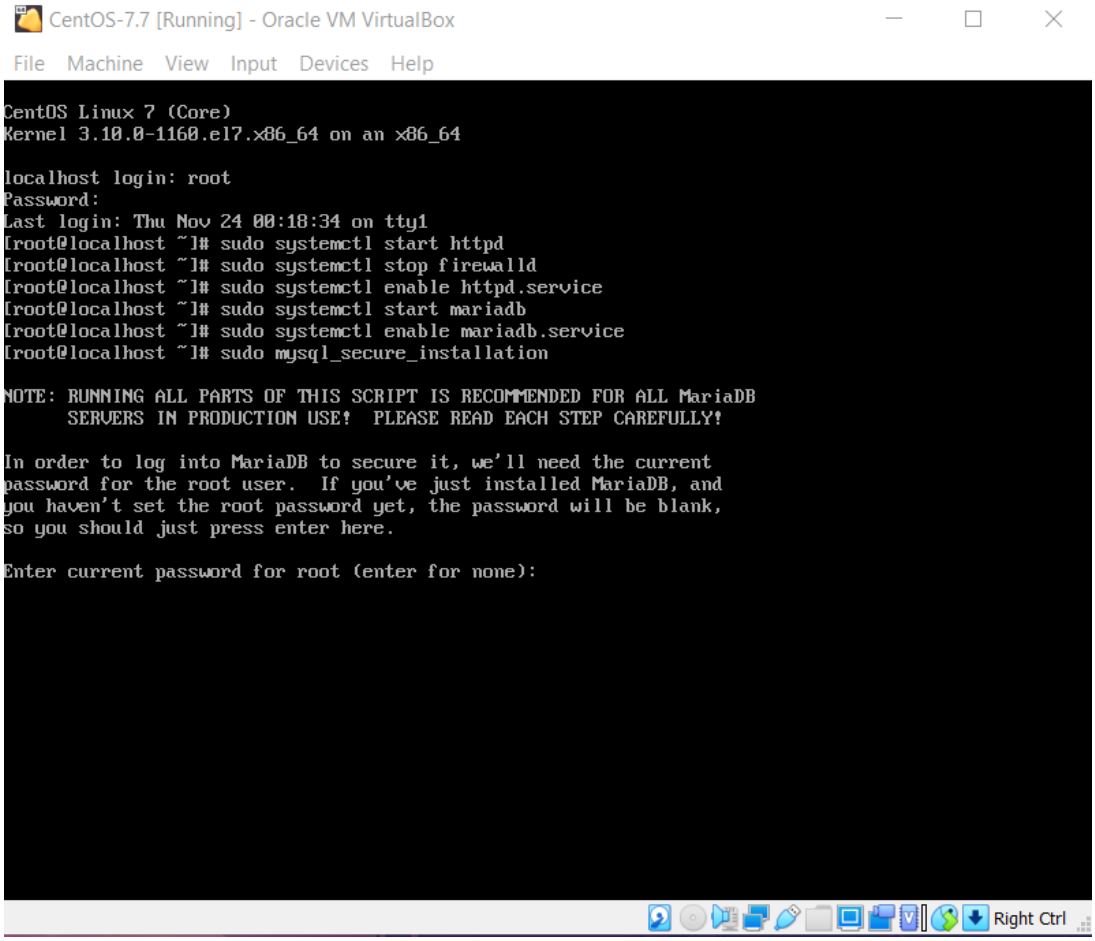


- Start MariaDB

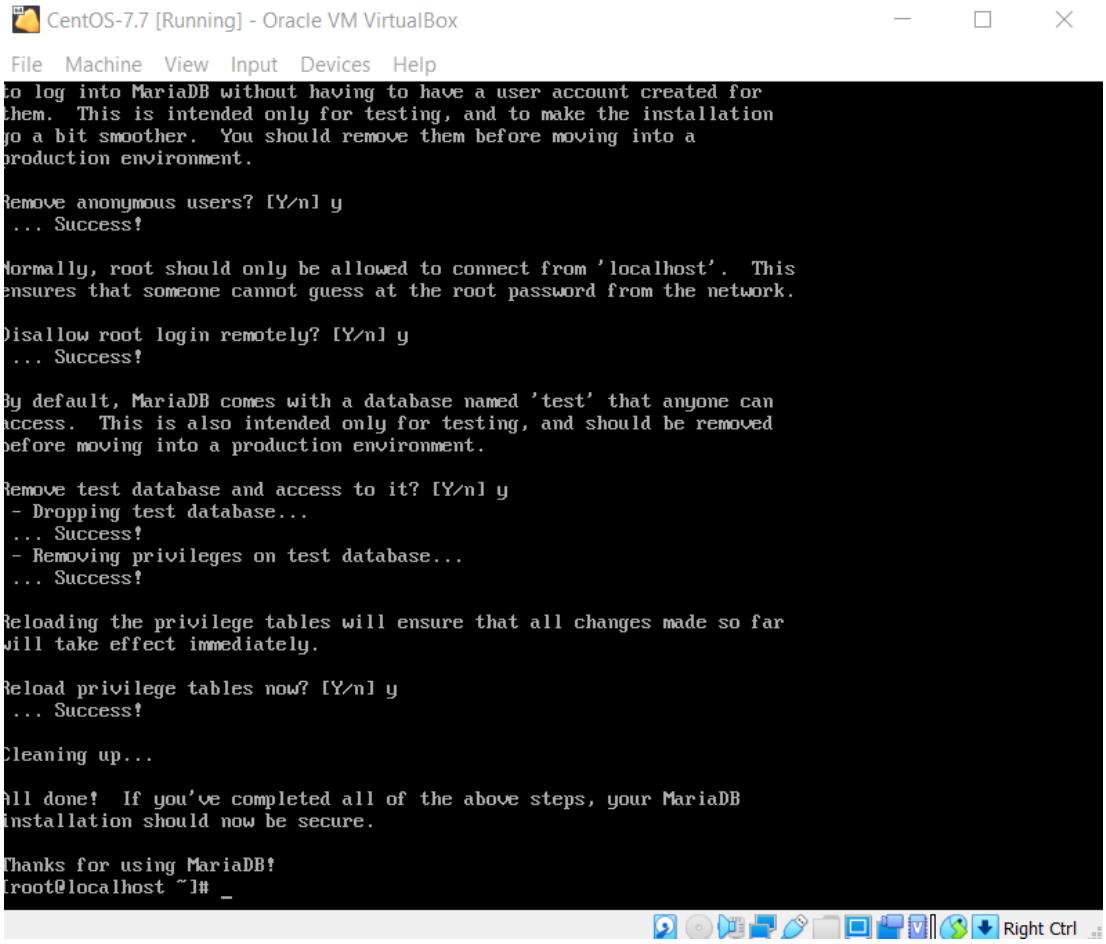
- Enable MariaDB to start on boot

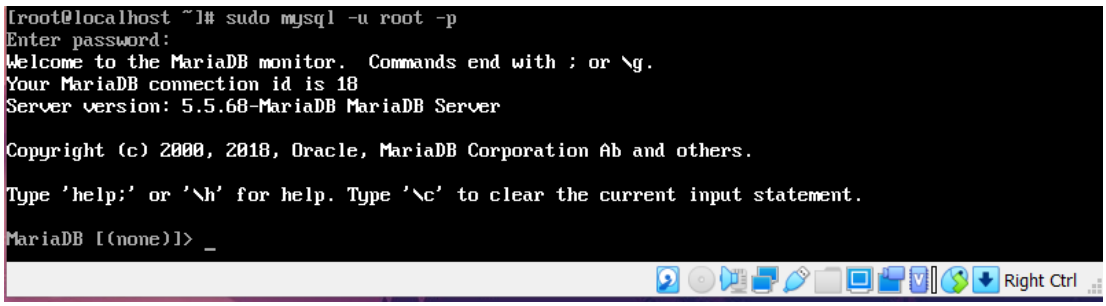


- Improve the security of database server



- Login ke MariaDB





- Create database

- Membuat grant ke sebuah user

```
MariaDB [(none)]> GRANT ALL ON example_database .* TO 'example_user'@'localhost' IDENTIFIED BY 'passw
ord' WITH GRANT OPTION
    -> ;
Query OK, 0 rows affected (0.00 sec)

MariaDB [(none)]> _
```

- Reload and save privileges

```
MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.00 sec)

MariaDB [(none)]> _
```

- Show database

```
[root@localhost ~]# mysql -u taufiq -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 24
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 DATABASE
    -> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your
MariaDB server version for the right syntax to use near 'DATABASE' at line 1
MariaDB [(none)]> SHOW DATABASES;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| example_database   |
+--------------------+
2 rows in set (0.00 sec)

MariaDB [(none)]>
```

3. Installing PHP

- Install PHP

```
[root@localhost ~]# sudo yum install php php-mysql
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: mirror.repository.id
 * extras: mirror.repository.id
 * updates: mirror.repository.id
_
```

- Restart the Apache web server to enable the PHP module

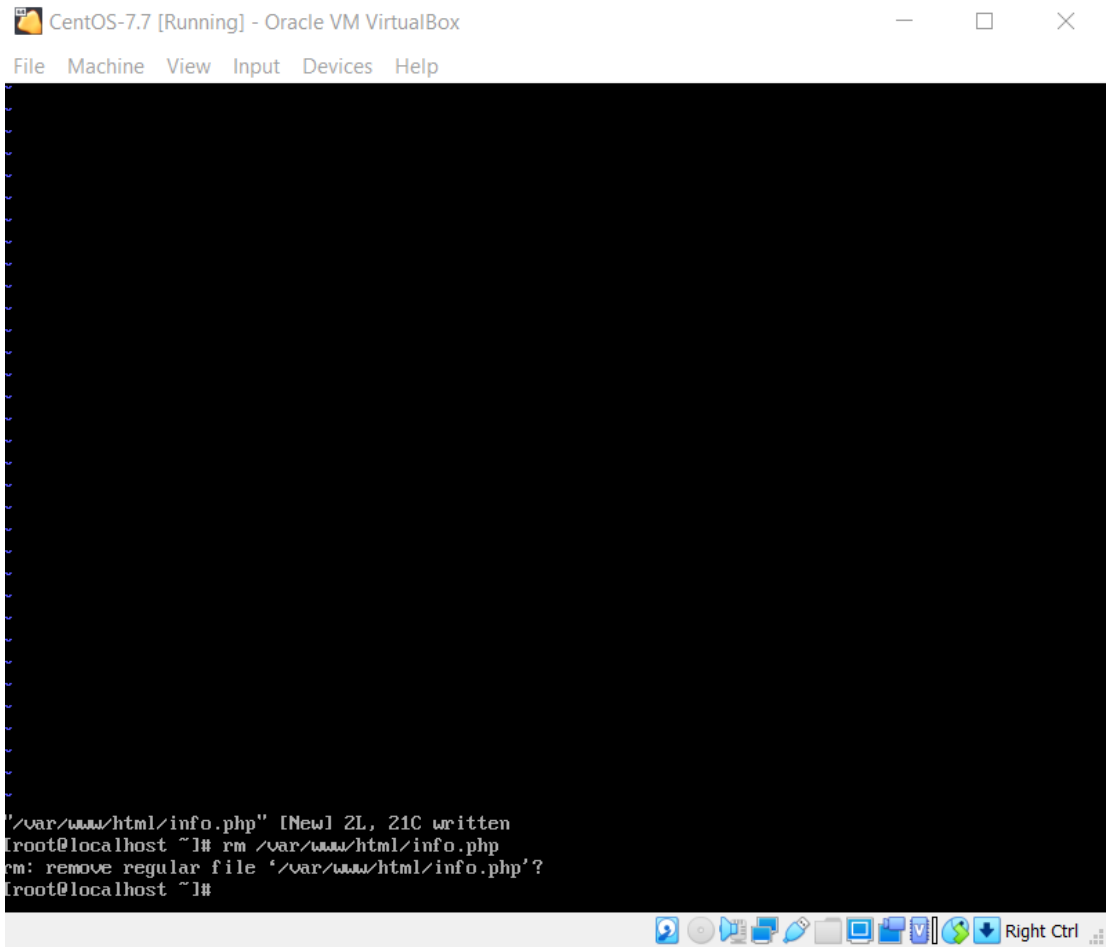
```
[root@localhost ~]# sudo systemctl restart httpd.service
[root@localhost ~]# _
```

4. Testing PHP on your Apache Web Server

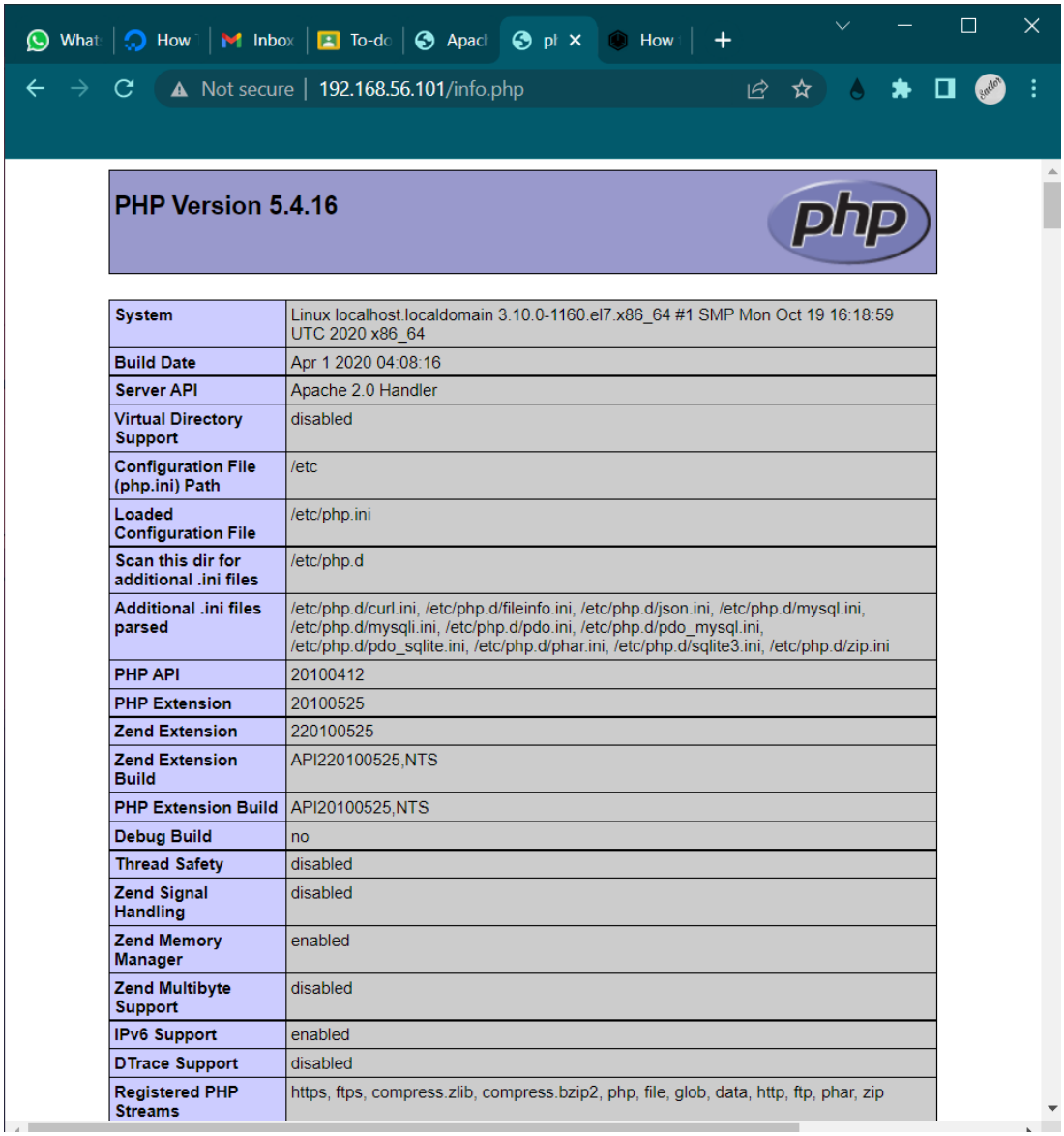
- Change the ownership of the default Apache document root

```
[root@localhost ~]# sudo chown -R taufiq.taufiq /var/www/html/
[root@localhost ~]# _
```


- Create a PHP file called info.php at the var/www/html directory

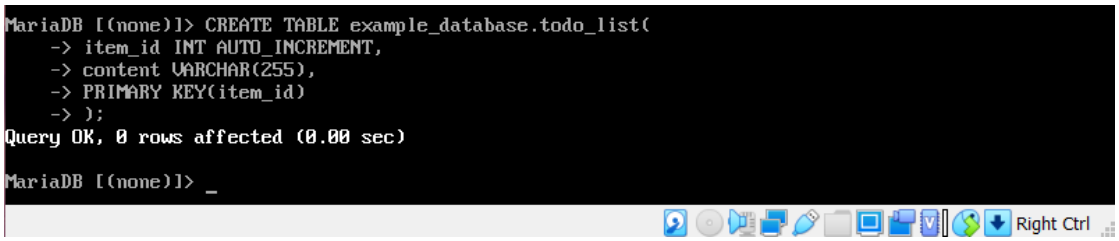


- Melakukan test info.php



System	Linux localhost.localdomain 3.10.0-1160.el7.x86_64 #1 SMP Mon Oct 19 16:18:59 UTC 2020 x86_64
Build Date	Apr 1 2020 04:08:16
Server API	Apache 2.0 Handler
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/curl.ini, /etc/php.d/fileinfo.ini, /etc/php.d/json.ini, /etc/php.d/mysql.ini, /etc/php.d/mysqli.ini, /etc/php.d/pdo.ini, /etc/php.d/pdo_mysql.ini, /etc/php.d/pdo_sqlite.ini, /etc/php.d/phar.ini, /etc/php.d/sqlite3.ini, /etc/php.d/zip.ini
PHP API	20100412
PHP Extension	20100525
Zend Extension	220100525
Zend Extension Build	API220100525,NTS
PHP Extension Build	API20100525,NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	disabled
Zend Memory Manager	enabled
Zend Multibyte Support	disabled
IPv6 Support	enabled
DTrace Support	disabled
Registered PHP Streams	https, ftps, compress.zlib, compress.bzip2, php, file, glob, data, http, ftp, phar, zip

5. Testing Database Connection eith PHP (Optional)
   - Create tabel todo_list



   - Melakukan insert data ke tabel todo_list

```
MariaDB [(none)]> INSERT INTO example_database.todo_list (content) VALUES ("My first item");
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]>
```


- Menampilkan tabel todo_list

```
MariaDB [(none)]> SELECT * FROM example_database.todo_list;
+---------+---------------+
| item_id | content       |
+---------+---------------+
|       1 | My first item |
+---------+---------------+
1 row in set (0.00 sec)

MariaDB [(none)]> _
```


- Membuat file todo_list.php dan mengisi file todo_list.php


```
<?php
$user = "taufiq";
$password = "123456";
$database = "example_database";
$table = "todo_list";

try {
  $db = PDO("mysql:host=localhost;dbname=$database", $user, $password);
  echo "<h2>TODO</h2><ol>";
  foreach($db->query("SELECT content FROM $table") as $row){
    echo "<li>" . $row['content'] . "</li>";
  }
  echo "</ol>";
} catch (PDOException $e) {
    print "Error!: " . $e->getMessage() . "<br/>";
    die();
}
~
~
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~
~
-- INSERT --
```
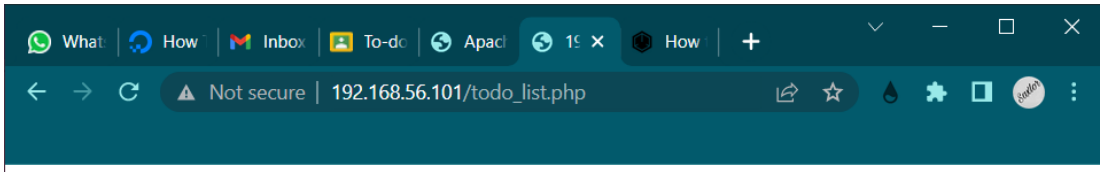


- Melakukan test_info.php



TODO

1. My first item
2. My second important item
3. My third important item
4. and this one more thing