Setting up WEB Server from Raspberry Pi

อัพเดทแพคเกจ

sudo apt-get update

sudo apt-get upgrade

ทำการติดตั้ง Apache, MySQL , PHP , phpMyAdmin

sudo apt-get install apache2

sudo apt-get install php5

sudo apt-get install mysql-server

sudo apt-get install phpmyadmin

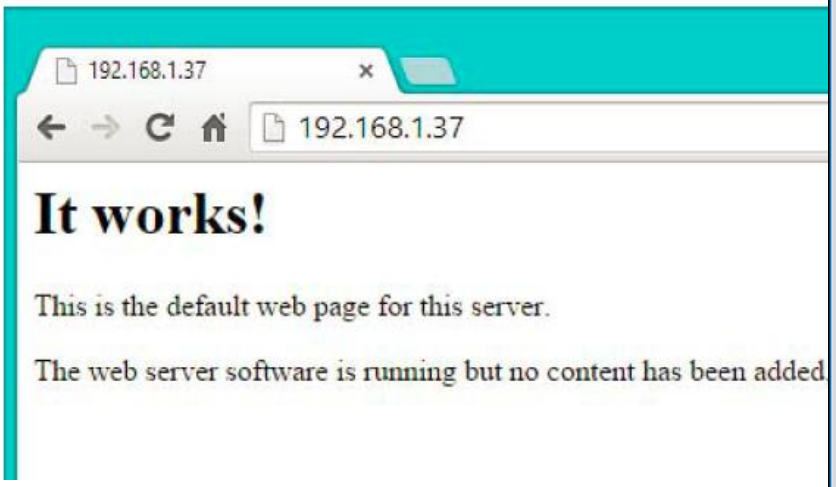
```
sudo apt-get install phpmyadmin
sudo apt-get purge phpmyadmin
sudo apt-get autoremove phpmyadmin
```

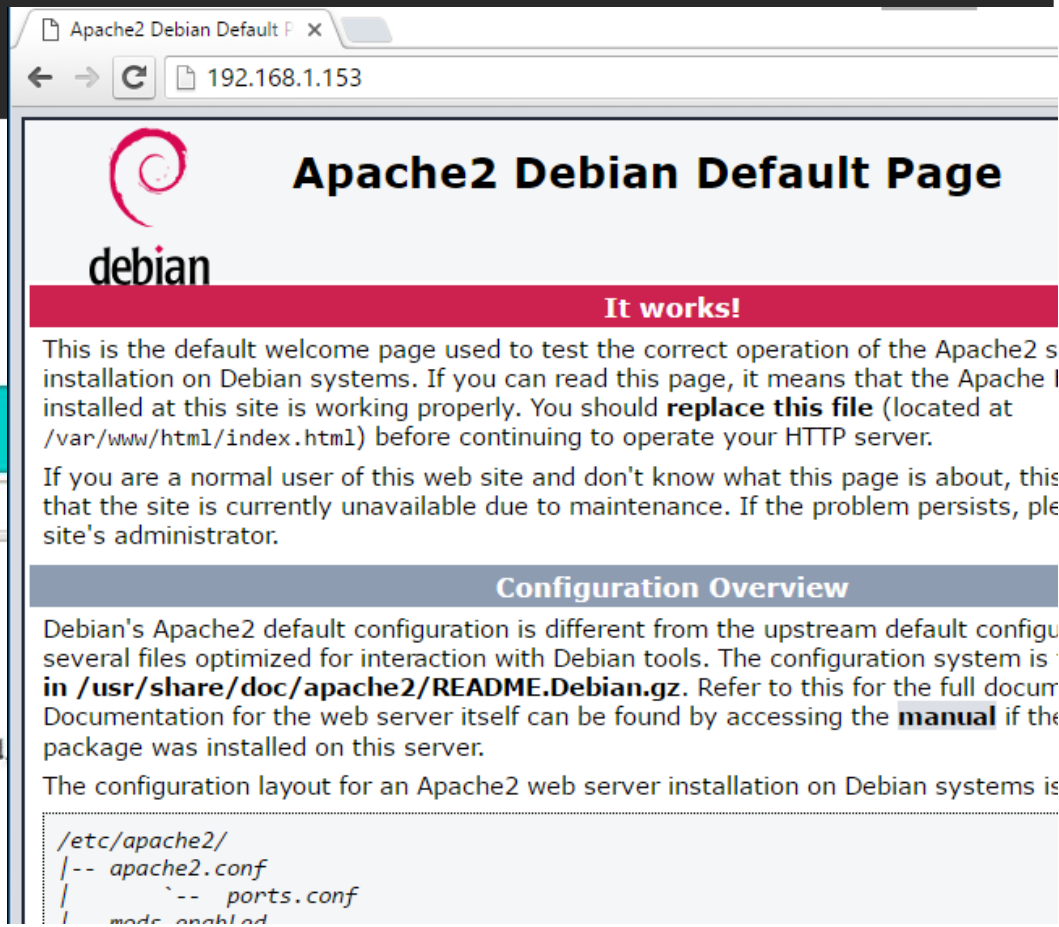
ติดตั้ง Apache

sudo apt-get install apache2 -y

```
pi@raspberrypi ~ $ sudo apt-get install apache2 -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

ทดสอบ Apache





sudo apt-get install php5

sudo apt-get install php5 libapache2-mod-php5 –y

```
pi@raspberrypi ~ $ sudo apt-get install php5 libapache2-mod-php5 -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  apache2-mpm-prefork libonig2 libqdbm14 lsof php5-cli php5-common
```

```
pi@raspberrypi ~ $ cd /var/www
```

```
pi@raspberrypi /var/www $ ls
index.html
```

```
pi@raspberrypi /var/www $ sudo mv index.html index.php
```

ใช้ nano เพื่อเปิดไฟล์ index.php

โดยใช้คำสั่ง sudo nano index.php

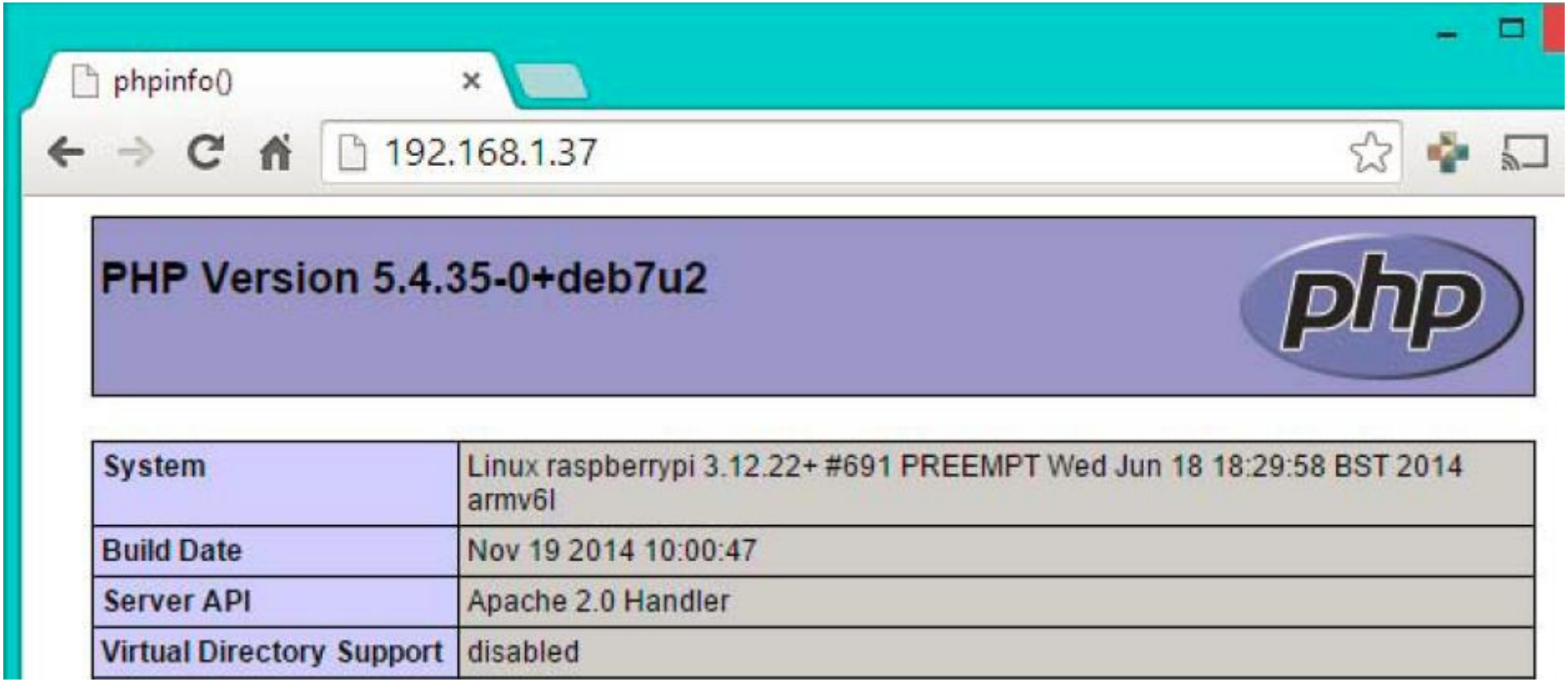
```
pi@raspberrypi /var/www $ sudo nano index.php
```

```
<html><body><h1>It works!</h1>
<p>This is the default web page for this server.</p>
<p>The web server software is running but no content has been added, yet.</p>
</body></html>
```

```
                        [ Read 4 lines ]
^G Get Help  ^O WriteOut  ^R Read File ^Y Prev Page ^K Cut Text  ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is  ^V Next Page ^U UnCut Text^T To Spell
```

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

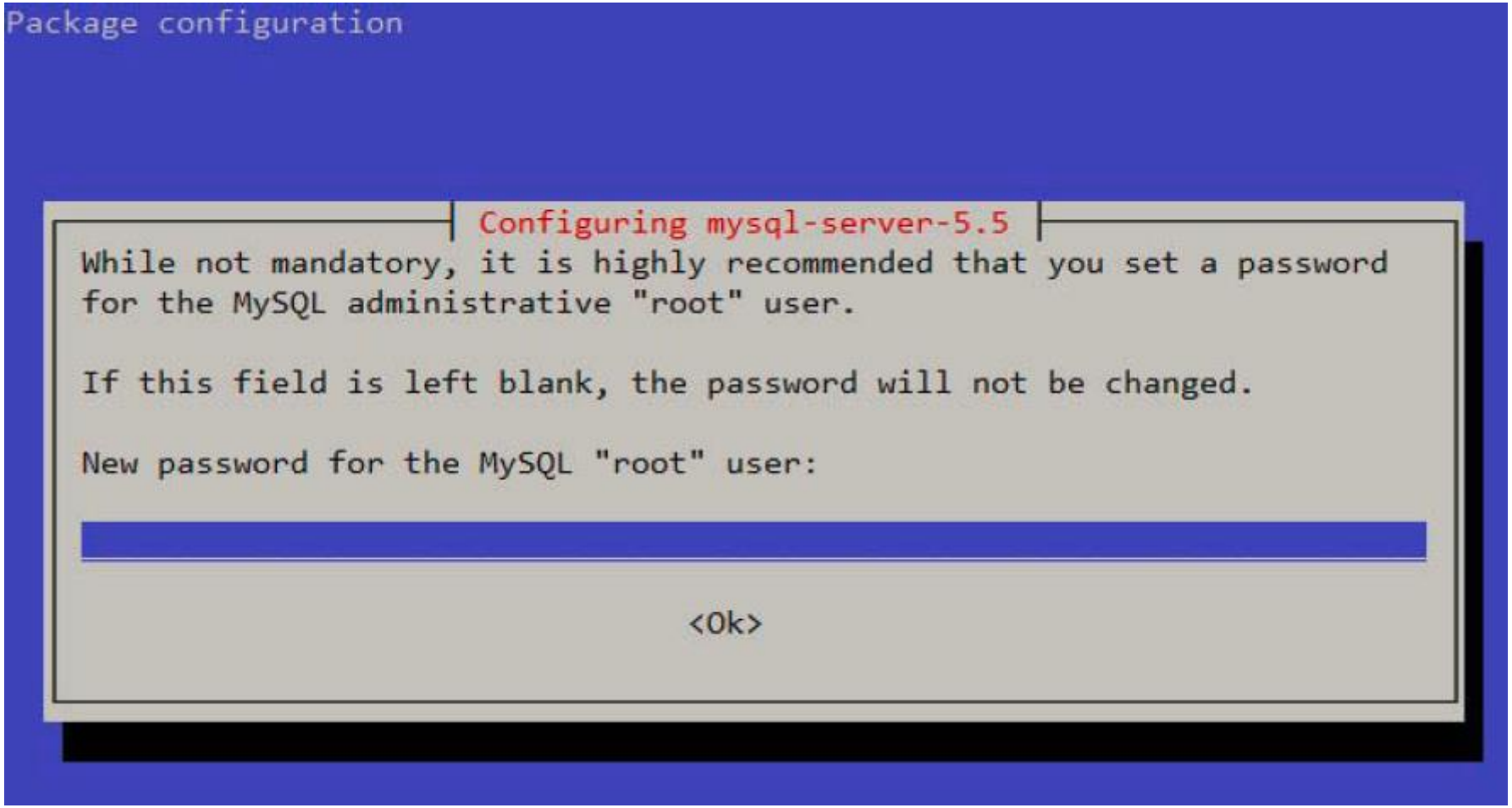
```
^G Get Help  ^O WriteOut  ^R Read File ^Y Prev Page ^K Cut Text  ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is  ^V Next Page ^U UnCut Text^T To Spell
```

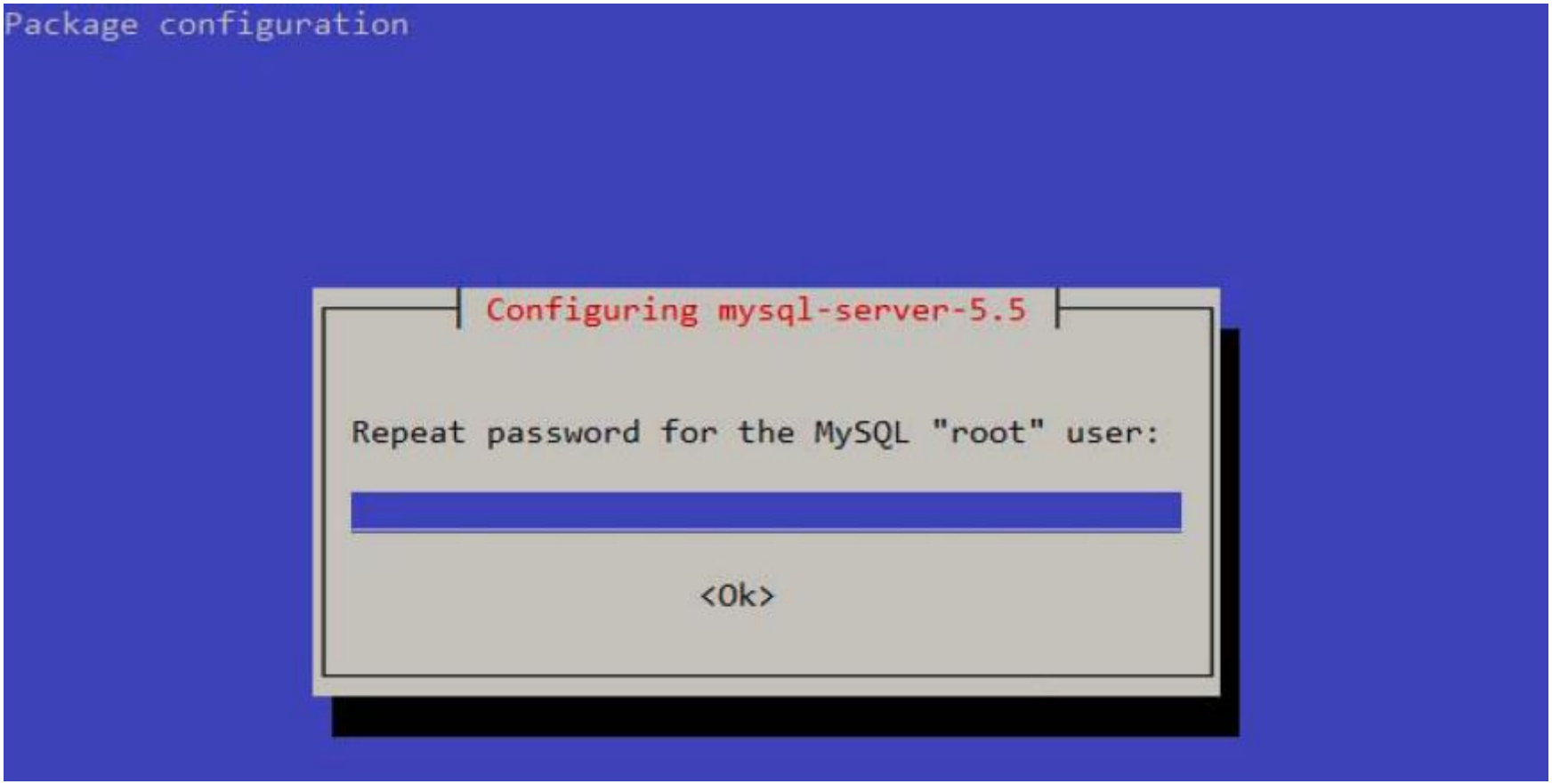

phpinfo()
192.168.1.37
PHP Version 5.4.35-0+deb7u2
php
System
Linux raspberrypi 3.12.22+ #691 PREEMPT Wed Jun 18 18:29:58 BST 2014 armv6l
Build Date
Nov 19 2014 10:00:47
Server API
Apache 2.0 Handler
Virtual Directory Support
disabled

sudo apt-get install mysql-server

sudo apt-get install mysql-server php5-mysql -y

```
pi@raspberrypi /var/www $ sudo apt-get install mysql-server php5-mysql -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  heirloom-mailx libaio1 libdbd-mysql-perl libdbi-perl libhtml-template-perl
  libmysqlclient16 libmysqlclient18 mysql-client-5.5 mysql-common
  mysql-server-5.5 mysql-server-core-5.5
Suggested packages:
  exim4 mail-transport-agent libipc-sharedcache-perl libterm-readkey-perl
  tinyca
```


Package configuration
Configuring mysql-server-5.5
While not mandatory, it is highly recommended that you set a password
for the MySQL administrative "root" user.
If this field is left blank, the password will not be changed.
New password for the MySQL "root" user:
<Ok>


Package configuration
Configuring mysql-server-5.5
Repeat password for the MySQL "root" user:
<Ok>

ทดสอบ mysql

mysql --user=root --password=1234

```
pi@JohnnyWorkerRedPixel:~ $ mysql --user=root --password=1234
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 40
Server version: 5.5.54-0+deb8u1 (Raspbian)

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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> exit
Bye
pi@JohnnyWorkerRedPixel:~ $
```
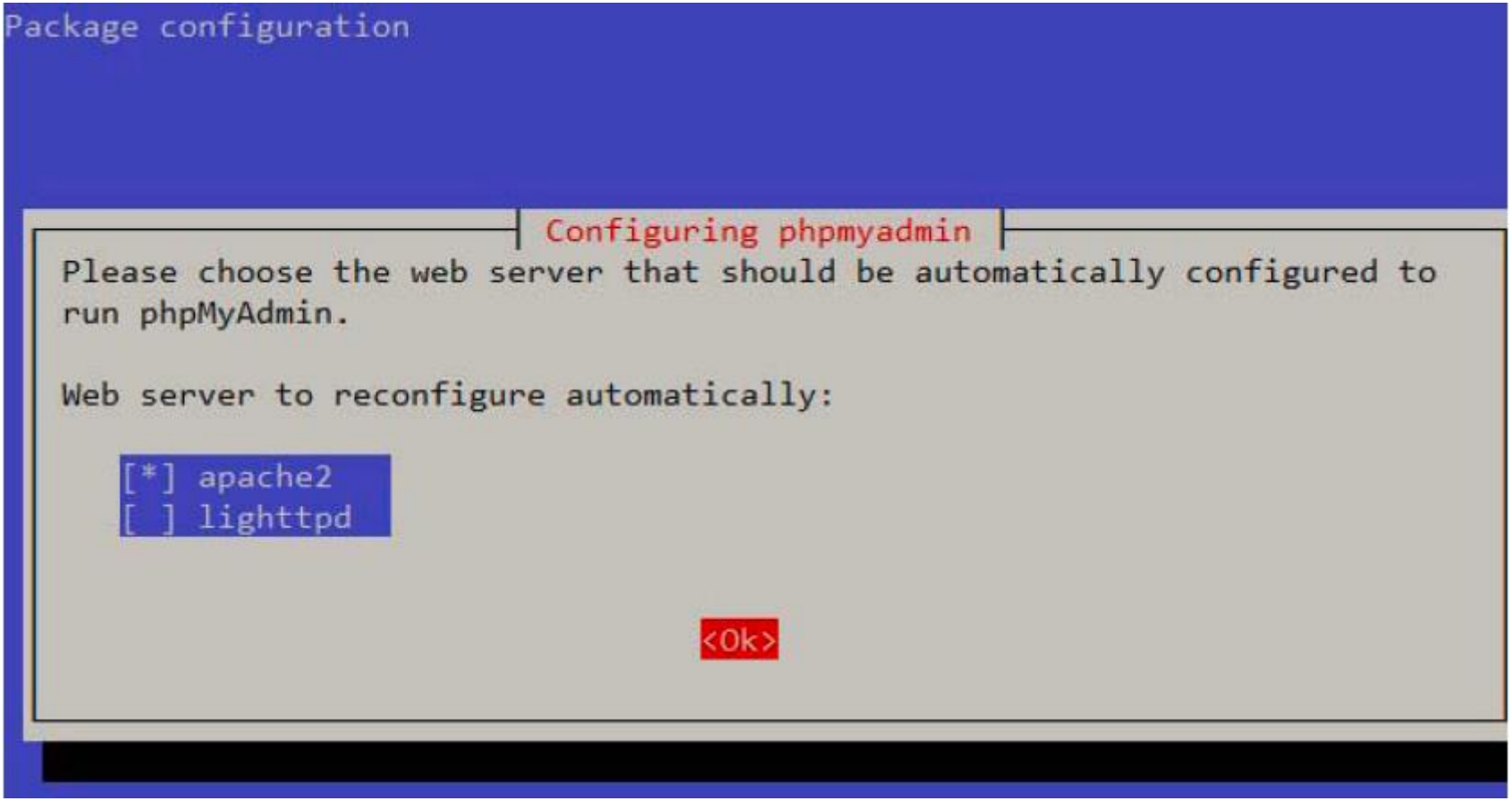
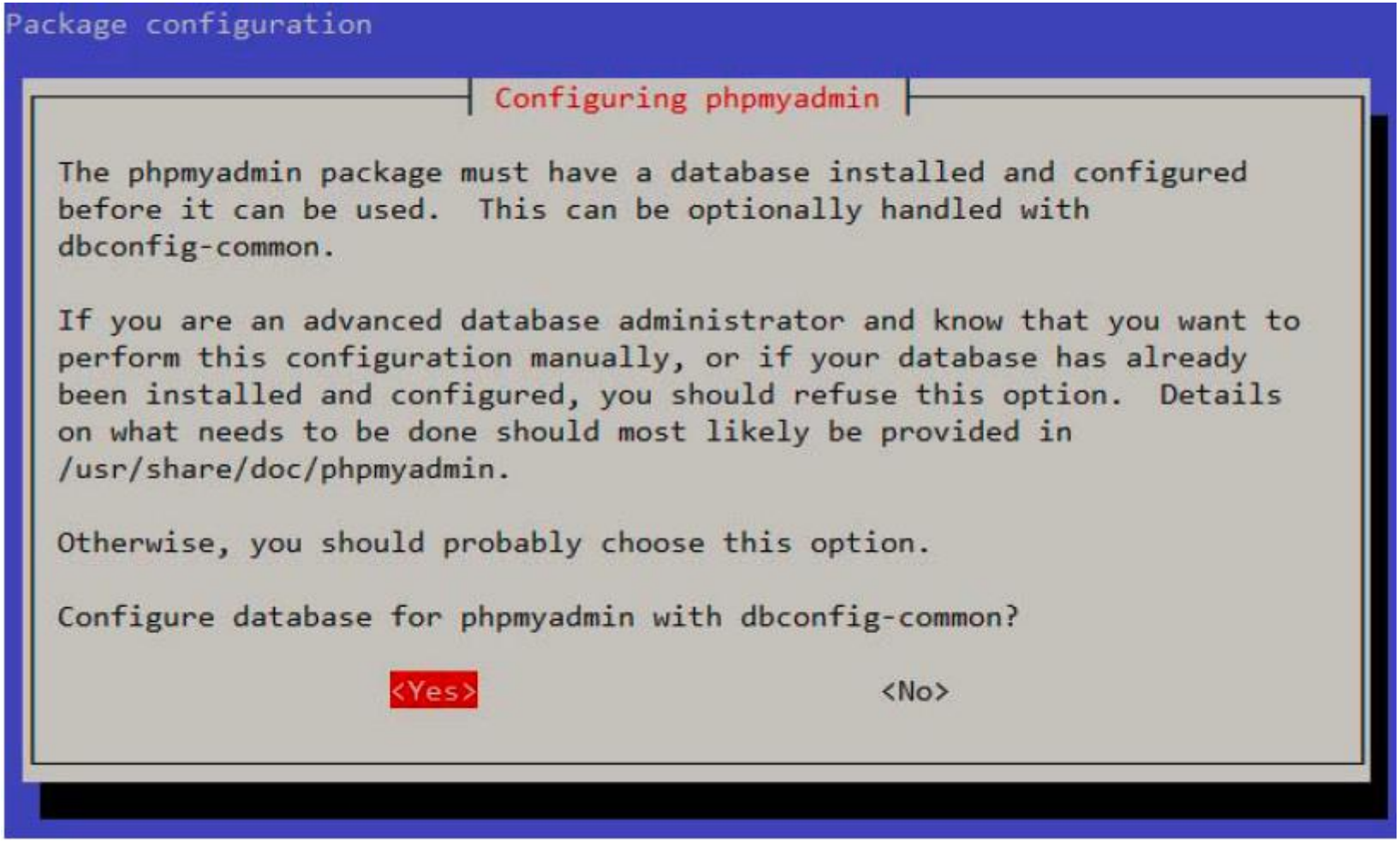
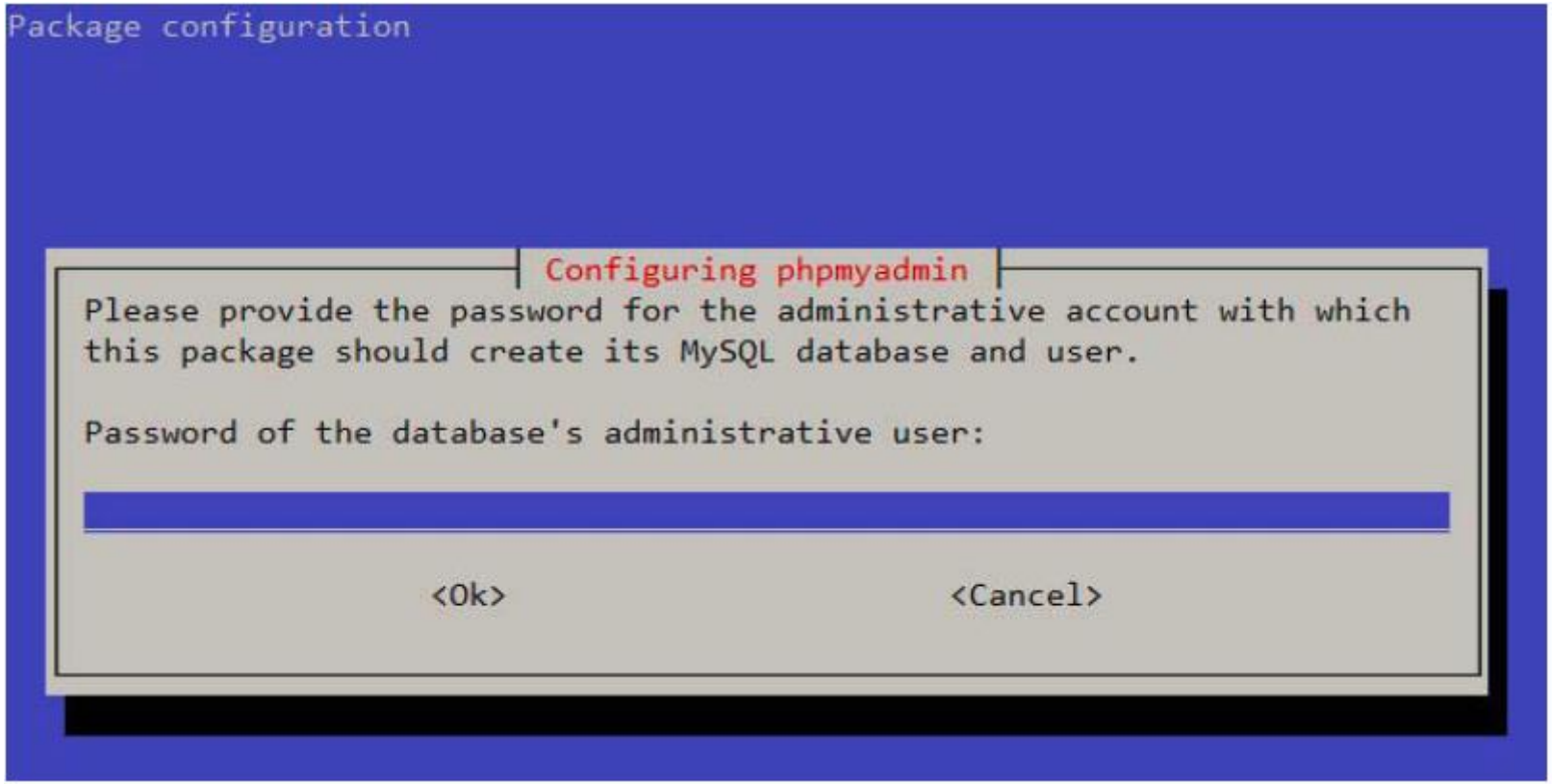

sudo apt-get install phpmyadmin –y

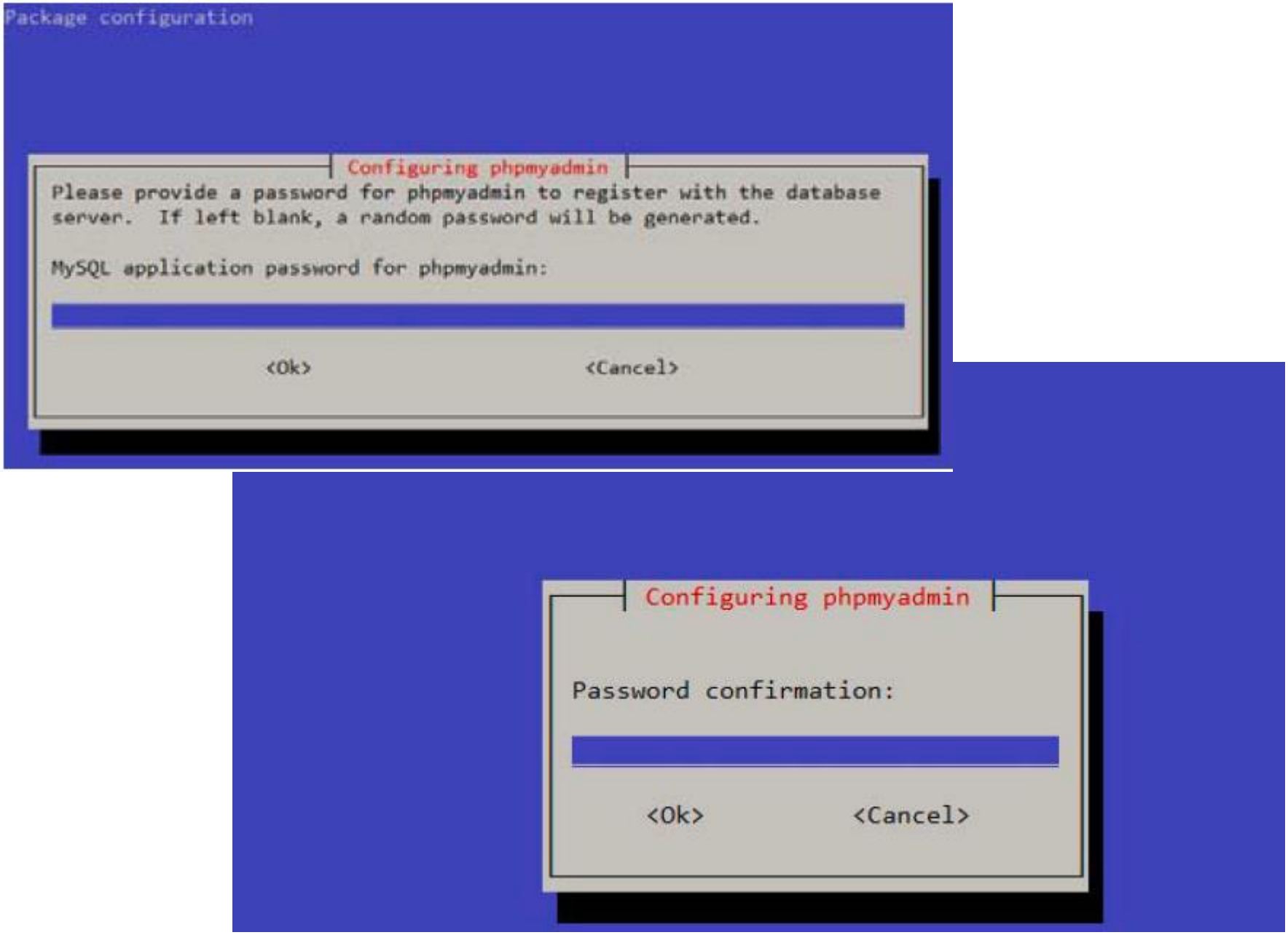
```
pi@raspberrypi /var/www $ sudo apt-get install phpmyadmin -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  dbconfig-common libmcrypt4 php5-gd php5-mcrypt
Suggested packages:
  libmcrypt-dev mcrypt
```

Web Server Apache2

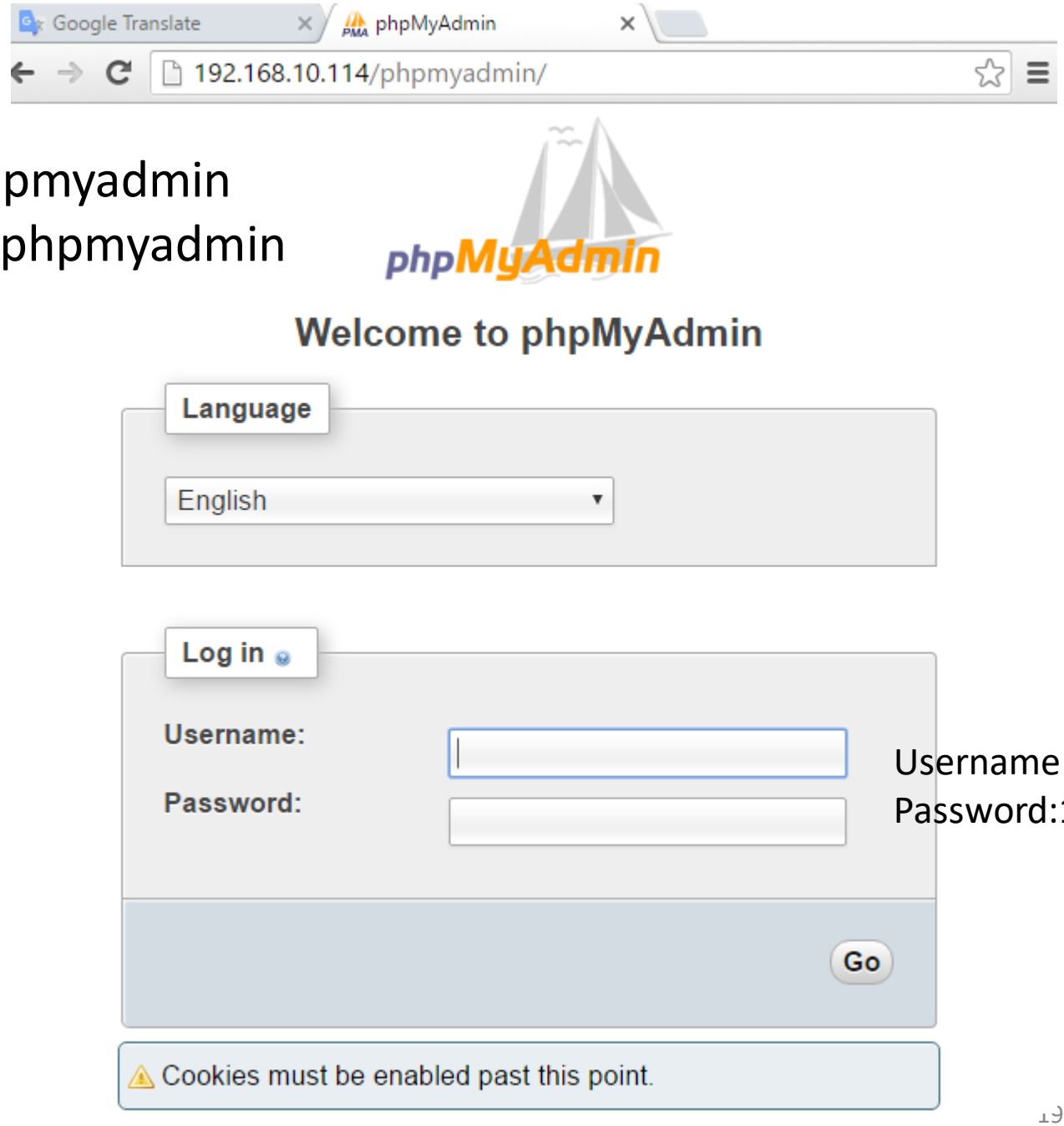



Package configuration
Configuring phpmyadmin
The phpmyadmin package must have a database installed and configured before it can be used. This can be optionally handled with dbconfig-common.
If you are an advanced database administrator and know that you want to perform this configuration manually, or 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>

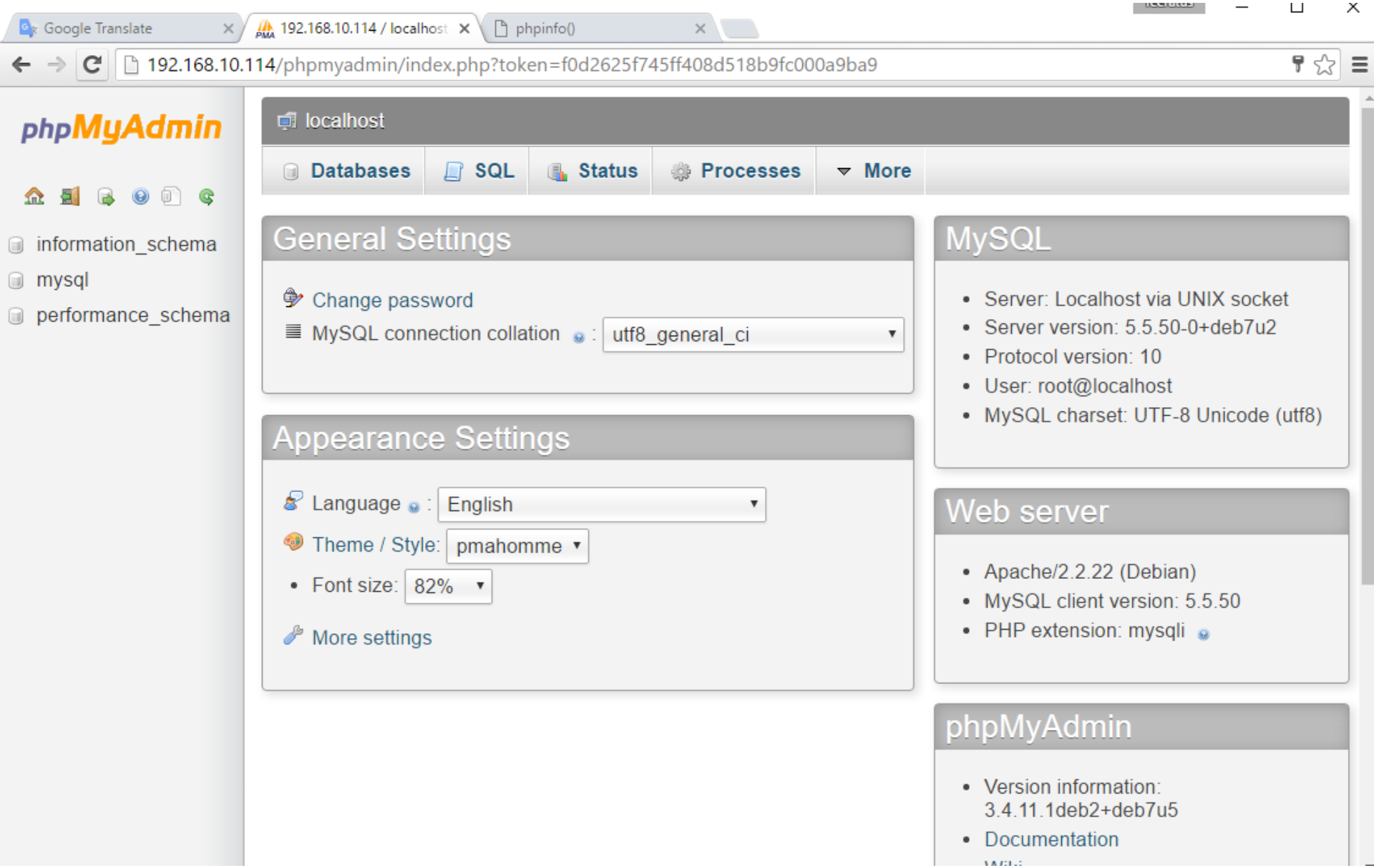

Package configuration
Configuring phpmyadmin
Please provide the password for the administrative account with which this package should create its MySQL database and user.
Password of the database's administrative user:
<Ok>
<Cancel>

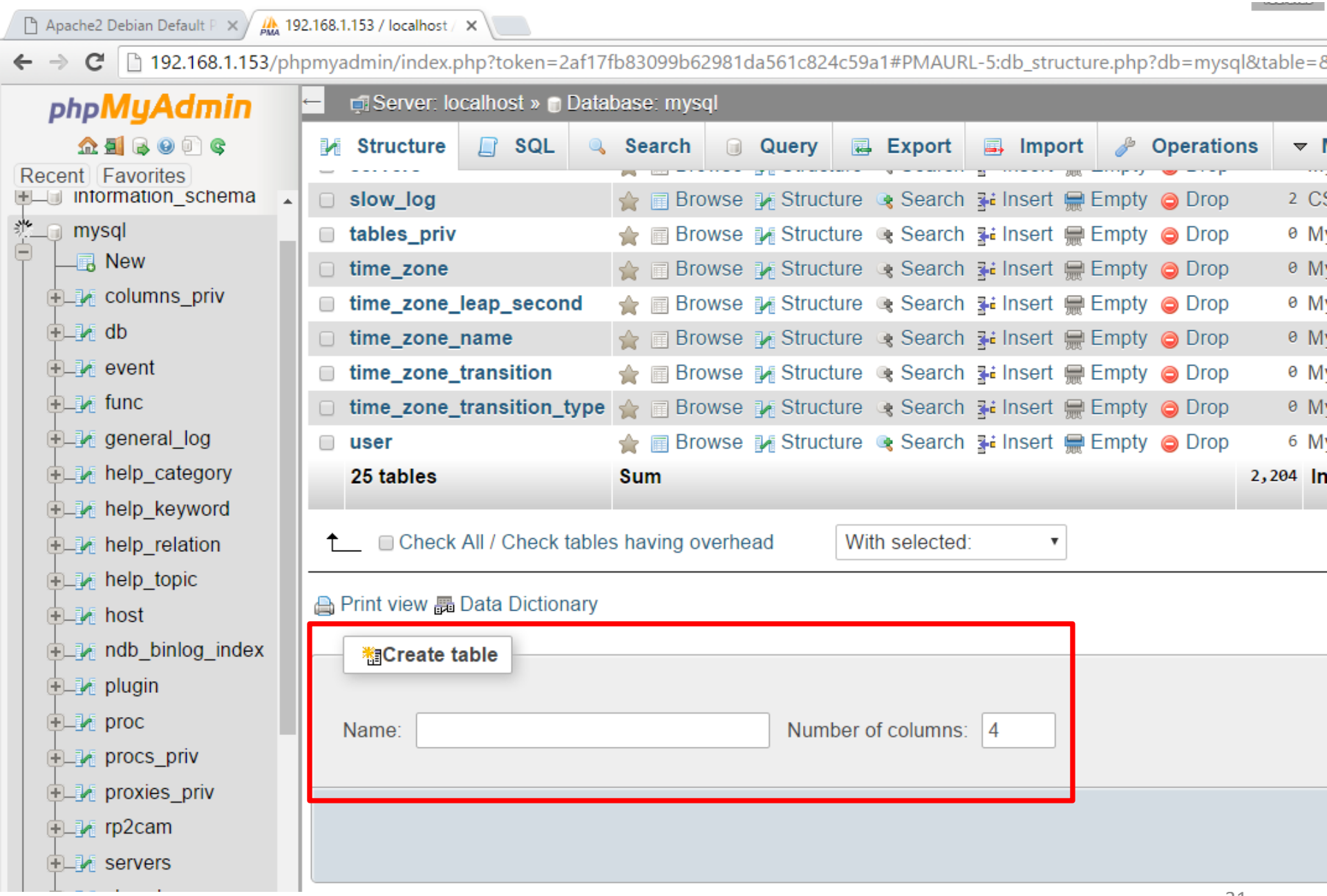

Package configuration
Configuring phpmyadmin
Please provide a password for phpmyadmin to register with the database server. If left blank, a random password will be generated.
MySQL application password for phpmyadmin:
<Ok>
<Cancel>
Configuring phpmyadmin
Password confirmation:
<Ok>
<Cancel>

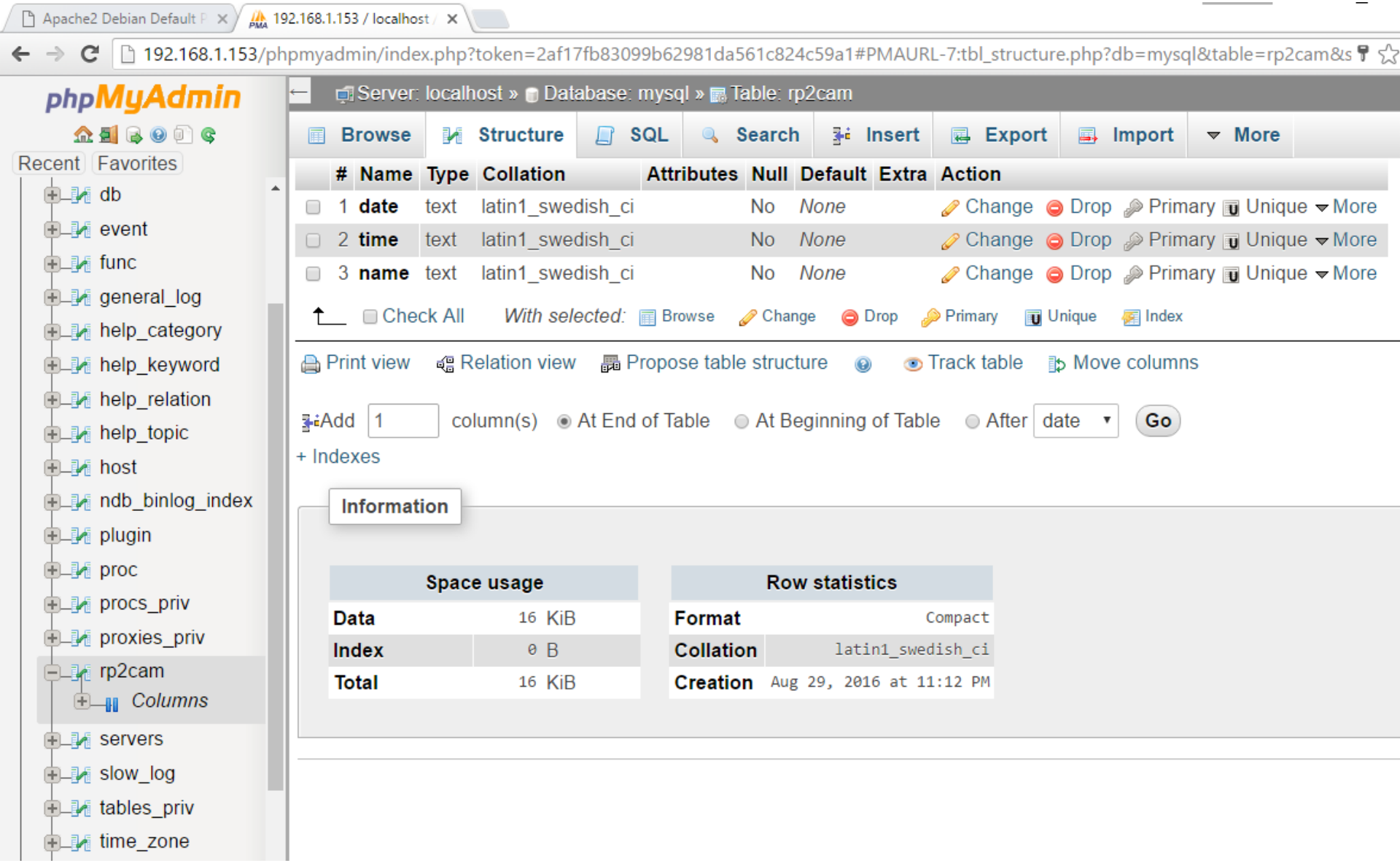
192.168.1.37/phpmyadmin
http://localhost/phpmyadmin

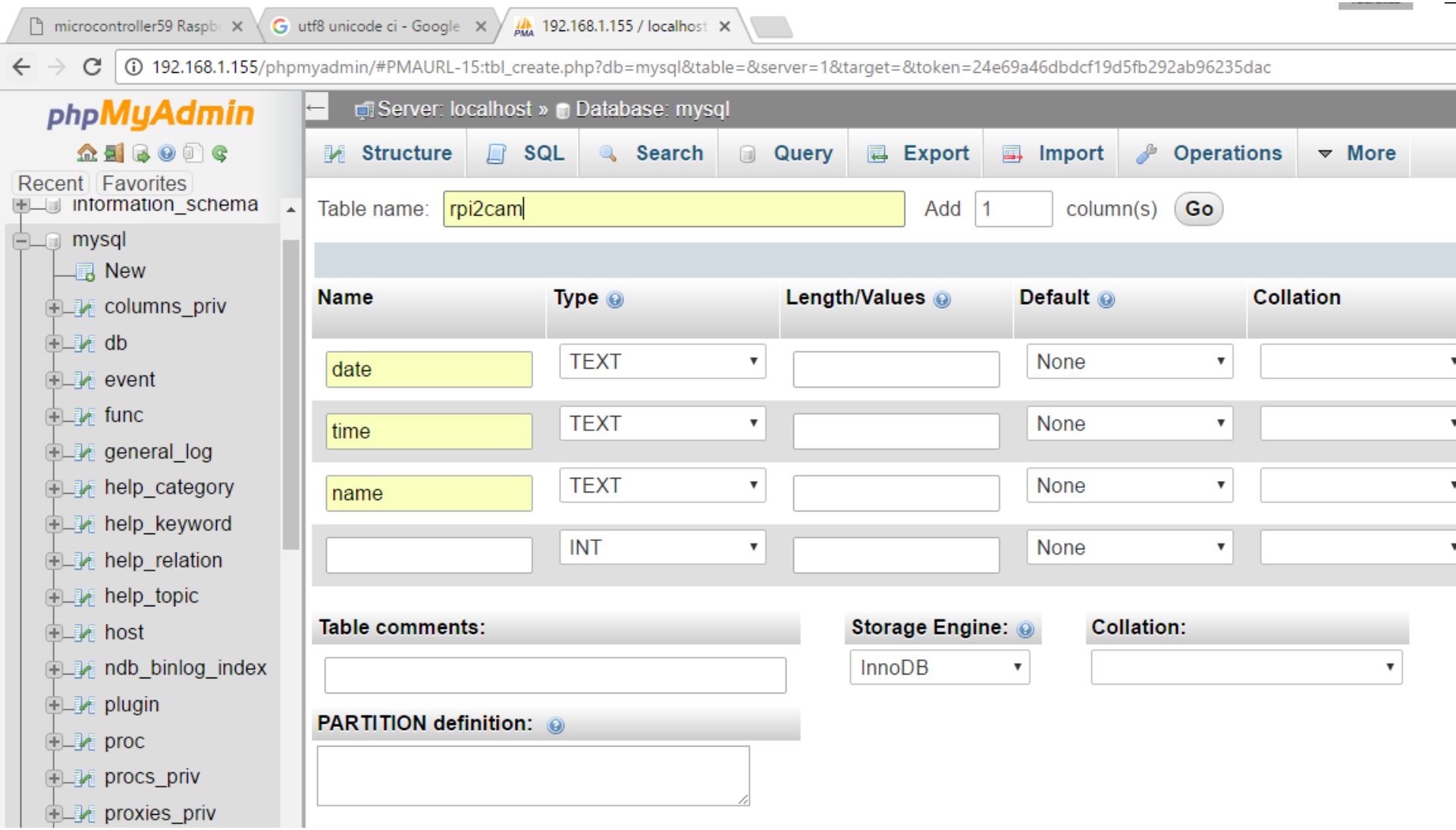


Username:root
Password:1234


Google Translate
192.168.10.114 / localhost
phpinfo()
192.168.10.114/phpmyadmin/index.php?token=f0d2625f745ff408d518b9fc000a9ba9
phpMyAdmin
information_schema
mysql
performance_schema
localhost
Databases
SQL
Status
Processes
More
General Settings
Change password
MySQL connection collation :
utf8_general_ci
Appearance Settings
Language :
English
Theme / Style:
pmahomme
Font size:
82%
More settings
MySQL
Server: Localhost via UNIX socket
Server version: 5.5.50-0+deb7u2
Protocol version: 10
User: root@localhost
MySQL charset: UTF-8 Unicode (utf8)
Web server
Apache/2.2.22 (Debian)
MySQL client version: 5.5.50
PHP extension: mysqli
phpMyAdmin
Version information: 3.4.11.1deb2+deb7u5
Documentation


Apache2 Debian Default
192.168.1.153 / localhost
192.168.1.153/phpmyadmin/index.php?token=2af17fb83099b62981da561c824c59a1#PMAURL-5:db_structure.php?db=mysql&table=
phpMyAdmin
Recent
Favorites
information_schema
mysql
New
columns_priv
db
event
func
general_log
help_category
help_keyword
help_relation
help_topic
host
ndb_binlog_index
plugin
proc
procs_priv
proxies_priv
rp2cam
servers
Server: localhost » Database: mysql
Structure
SQL
Search
Query
Export
Import
Operations
slow_log Browse Structure Search Insert Empty Drop 2
tables_priv Browse Structure Search Insert Empty Drop 0
time_zone Browse Structure Search Insert Empty Drop 0
time_zone_leap_second Browse Structure Search Insert Empty Drop 0
time_zone_name Browse Structure Search Insert Empty Drop 0
time_zone_transition Browse Structure Search Insert Empty Drop 0
time_zone_transition_type Browse Structure Search Insert Empty Drop 0
user Browse Structure Search Insert Empty Drop 6
25 tables Sum 2,204
Check All / Check tables having overhead
With selected:
Print view Data Dictionary
Create table
Name:
Number of columns: 4


Apache2 Debian Default
192.168.1.153 / localhost
192.168.1.153/phpmyadmin/index.php?token=2af17fb83099b62981da561c824c59a1#PMAURL-7:tbl_structure.php?db=mysql&table=rp2cam&s
phpMyAdmin
Recent
Favorites
db
event
func
general_log
help_category
help_keyword
help_relation
help_topic
host
ndb_binlog_index
plugin
proc
procs_priv
proxies_priv
rp2cam
Columns
servers
slow_log
tables_priv
time_zone
Server: localhost » Database: mysql » Table: rp2cam
Browse
Structure
SQL
Search
Insert
Export
Import
More
Name Type Collation Attributes Null Default Extra Action
1 date text latin1_swedish_ci No None Change Drop Primary Unique More
2 time text latin1_swedish_ci No None Change Drop Primary Unique More
3 name text latin1_swedish_ci No None Change Drop Primary Unique More
Check All With selected: Browse Change Drop Primary Unique Index
Print view
Relation view
Propose table structure
Track table
Move columns
Add 1 column(s) At End of Table At Beginning of Table After date Go
+ Indexes
Information
Space usage
Data 16 KiB
Index 0 B
Total 16 KiB
Row statistics
Format Compact
Collation latin1_swedish_ci
Creation Aug 29, 2016 at 11:12 PM


microcontroller59 Raspb
utf8 unicode ci - Google
192.168.1.155 / localhost
192.168.1.155/phpmyadmin/#PMAURL-15:tbl_create.php?db=mysql&table=&server=1&target=&token=24e69a46dbdcf19d5fb292ab96235dac
phpMyAdmin
Recent
Favorites
information_schema
mysql
New
columns_priv
db
event
func
general_log
help_category
help_keyword
help_relation
help_topic
host
ndb_binlog_index
plugin
proc
procs_priv
proxies_priv
Server: localhost » Database: mysql
Structure
SQL
Search
Query
Export
Import
Operations
More
Table name: rpi2cam
Add 1 column(s)
Go
Name
Type
Length/Values
Default
Collation
date
TEXT
None
time
TEXT
None
name
TEXT
None
INT
None
Table comments:
Storage Engine:
InnoDB
Collation:
PARTITION definition:

sudo chmod -R 777 /var/www

sudo chmod -R777 /var/www

test.py index_lab10_pass.php

```
<?php
$str_server = "localhost";
$str_username = "root";
$str_password = "1234";
$str_dbname = "mysql";
$obj_con = mysql_connect($str_server,$str_username,$str_password);
mysql_select_db($str_dbname,$obj_con);
mysql_query("SET NAMES UTF8");
$str_sql = "Select * From rp2cam ";
$rs_rp2cam = mysql_query($str_sql,$obj_con);
?>
<html xmlns="192.168.43.77/PRi">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>microcontroller59 Raspberrypi</title>
</head>
<body bgcolor= #eeffff>
<center>
<table cellspacing="10">
<tr>
<td bgcolor="blue"><center><font color= white >[illegible]</font></center></td>
<td bgcolor="blue"><center><font color= white >[illegible]</font></center></td>
<td bgcolor="blue"><center><font color= white >[illegible]</font></center></td>
</tr>
<?php while($row_rp2cam = mysql_fetch_array($rs_rp2cam)) { ?>
<tr>
<td ><?php echo $row_rp2cam['date']?></td>
<td><?php echo $row_rp2cam['time']?></td>
<td><a href="pic<?php echo $row_rp2cam['name']?>.jpg" target="_blank">
<?php echo $row_rp2cam['name']?>
</a></td>
</tr>
<?php } ?>
</table>
</center>
</body>
```

```
<?php
$str_server = "localhost";
$str_username = "root";
$str_password = "1234";
$str_dbname = "mysql";
$obj_con = mysql_connect($str_server,$str_username,$str_password);
mysql_select_db($str_dbname,$obj_con);
mysql_query("SET NAMES UTF8");
$str_sql = "Select * From rp2cam ";
$rs_rp2cam = mysql_query($str_sql,$obj_con);
?>
<html xmlns="192.168.43.77/PRi">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>microcontroller59 Raspberrypi</title>
</head>
<body bgcolor= #eeffff>
<center>
<table cellspacing="10">
<tr>
<td bgcolor="blue"><center><font color= white >วันที่</font></center></td>
<td bgcolor="blue"><center><font color= white >เวลา</font></center></td>
<td bgcolor="blue"><center><font color= white >ชื่อภาพ</font></center></td>
</tr>
<?php while($row_rp2cam = mysql_fetch_array($rs_rp2cam)) { ?>
<tr>
<td ><?php echo $row_rp2cam['date']?></td>
<td><?php echo $row_rp2cam['time']?></td>
<td><a href="pic<?php echo $row_rp2cam['name']?>.jpg" target="_blank">
<?php echo $row_rp2cam['name']?>
</a></td>
</tr>
<?php } ?>
</table>
</center>
</body>
```

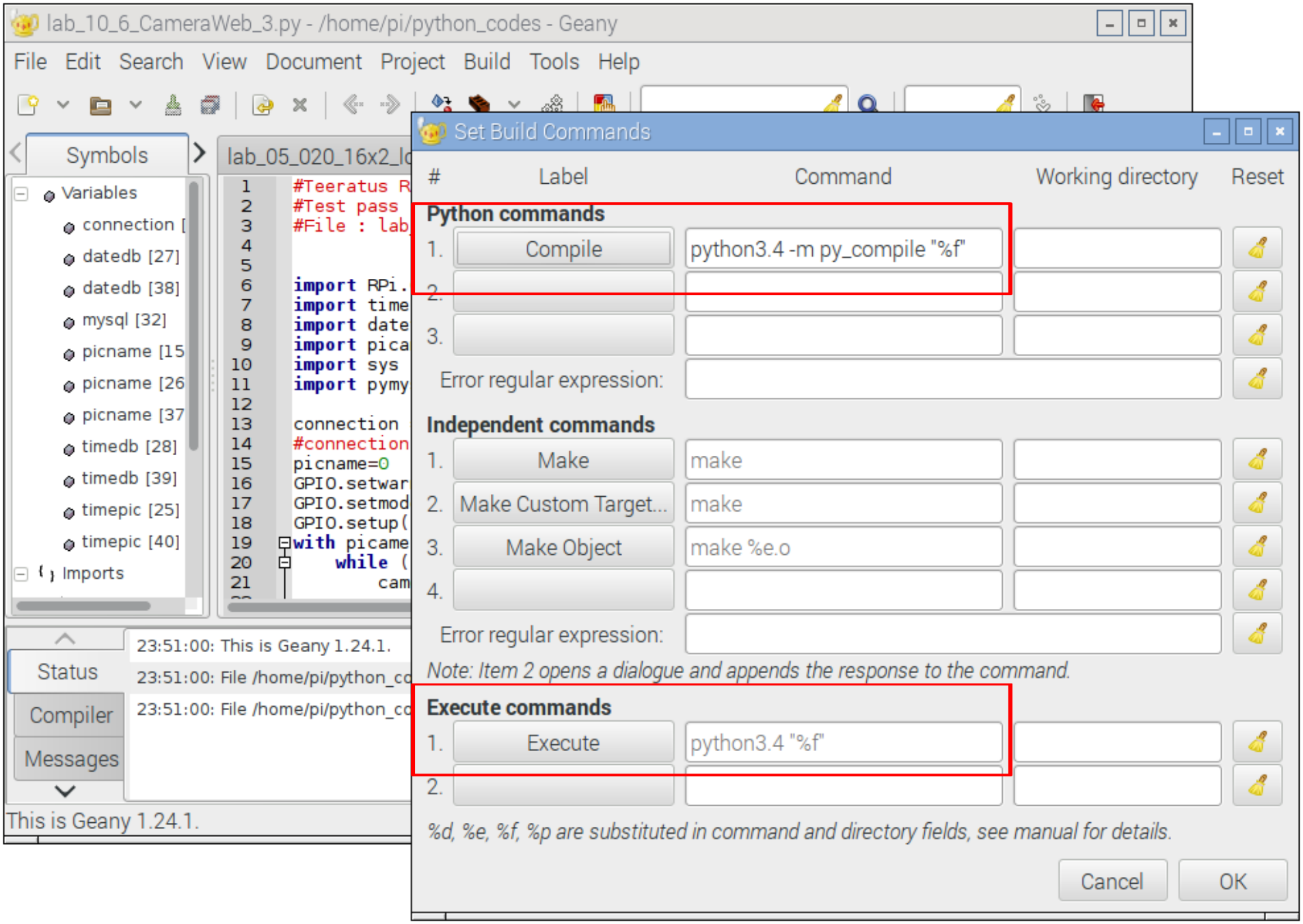
Import error :No module named pymysql

sudo apt-get install python-pip

sudo pip3 install pymysql

sudo pip install pymysql

```
pi@JohnnyWorkerRedPixel:~ $
pi@JohnnyWorkerRedPixel:~ $
pi@JohnnyWorkerRedPixel:~ $ sudo pip3 install pymysql
Downloading/unpacking pymysql
  Downloading PyMySQL-0.7.9-py3-none-any.whl (78kB): 78kB downloaded
Installing collected packages: pymysql
Successfully installed pymysql
Cleaning up...
pi@JohnnyWorkerRedPixel:~ $
```


lab_10_6_CameraWeb_3.py - /home/pi/python_codes - Geany
File Edit Search View Document Project Build Tools Help
Symbols
Variables
connection [
datedb [27]
datedb [38]
mysql [32]
picname [15
picname [26
picname [37
timedb [28]
timedb [39]
timepic [25]
timepic [40]
Imports
lab_05_020_16x2_lc
1 #Teeratus R
2 #Test pass
3 #File : lab
4
5
6 import RPi.
7 import time
8 import date
9 import pica
10 import sys
11 import pymy
12
13 connection
14 #connection
15 picname=0
16 GPIO.setwar
17 GPIO.setmod
18 GPIO.setup(
19 with picame
20 while (
21 cam
Status
Compiler
Messages
23:51:00: This is Geany 1.24.1.
23:51:00: File /home/pi/python_co
23:51:00: File /home/pi/python_co
This is Geany 1.24.1.
Set Build Commands
Label Command Working directory Reset
Python commands
1. Compile python3.4 -m py_compile "%f"
2.
3.
Error regular expression:
Independent commands
1. Make make
2. Make Custom Target... make
3. Make Object make %e.o
4.
Error regular expression:
Note: Item 2 opens a dialogue and appends the response to the command.
Execute commands
1. Execute python3.4 "%f"
2.
%d, %e, %f, %p are substituted in command and directory fields, see manual for details.
Cancel
OK

test.py | index_lab10_pass.php | lab_10_6_CameraWeb_3.py

```
#Teeratus R. 2016 Jul'20
#Test pass   2016 Aug'25
#File : lab_10_6_CameraWeb_3.py


import RPi.GPIO as GPIO
import time
import datetime
import picamera
import sys
import pymysql

connection = pymysql.connect('127.0.0.1','root','1234','mysql') #
#connection = pymysql.connect(host,user,password,msql_db)
picname=0
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BCM)
GPIO.setup(18,GPIO.IN,pull_up_down=GPIO.PUD_UP)
with picamera.PiCamera()as camera:
    while (1):
        camera.resolution=(1024,768)
        camera.resolution=(1024,768)
        camera.start_preview()
        GPIO.wait_for_edge(18,GPIO.FALLING)
        timepic= datetime.datetime.today()
        picname=str(timepic.year)+str(timepic.month)+ str(timepic.day)+str(timepic.hour)+str(timepic.minute)+str(timepic.second)
        datedb= str(timepic.day)+'-'+str(timepic.month)+'-'+ str(timepic.year)
        timedb= str(timepic.hour)+':'+str(timepic.minute)+':'+ str(timepic.second)
        camera.capture('/var/www/html/pic'+str(picname)+'.jpg')
        try:
            with connection.cursor() as cursor:
                mysql="insert into rp2cam (date,time,name)VALUES (%s ,%s,%s)"
                cursor.execute(mysql,(str(datedb),str(timedb),str(picname)))
                time.sleep=1
                connection.commit()
        finally:
            picname=''
            datedb=''
            timedb=''
            timepic=''
            #connection.close()
```

To close a terminal window

To close a terminal window you can use the exit command .
Alternatively you can use the shortcut

ctrl+shift+w

to close a terminal tab
and ctrl+shift+q to close the entire terminal including all tabs.

```
#Teeratus R. 2016 Jul'20
#Test pass  2016 Aug'25
#File : lab_10_6_CameraWeb_3.py



import RPi.GPIO as GPIO
import time
import datetime
import picamera
import sys
import pymysql

connection = pymysql.connect('127.0.0.1','root','1234','mysql') #
#connection = pymysql.connect(host,user,password,msql_db)
picname=0
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BCM)
GPIO.setup(18,GPIO.IN,pull_up_down=GPIO.PUD_UP)
with picamera.PiCamera()as camera:
                        while (1):
                                                camera.resolution=(1024,768)
                                                camera.resolution=(1024,768)
                                                camera.start_preview()
                                                GPIO.wait_for_edge(18,GPIO.FALLING)
                                                timepic= datetime.datetime.today()
                                                picname=str(timepic.year)+str(timepic.month)+
str(timepic.day)+str(timepic.hour)+str(timepic.minute)+str(timepic.second)
                                                datedb= str(timepic.day)+'-'+str(timepic.month)+'-'+
str(timepic.year)
                                                timedb= str(timepic.hour)+':'+str(timepic.minute)+':'+
str(timepic.second)
                                                camera.capture('/var/www/html/pic'+str(picname)+'.jpg')
                                                try:
                                                                        with connection.cursor() as cursor:
                                                                                                mysql="insert
into rp2cam (date,time,name)VALUES (%s ,%s,%s)"

                        cursor.execute(mysql,(str(datedb),str(timedb),str(picname)))
                                                                                                time.sleep=1

                        connection.commit()
                                                finally:
                                                                        picname=''
                                                                        datedb=''
                                                                        timedb=''
                                                                        timepic=''
                                                                        #connection.close()
```

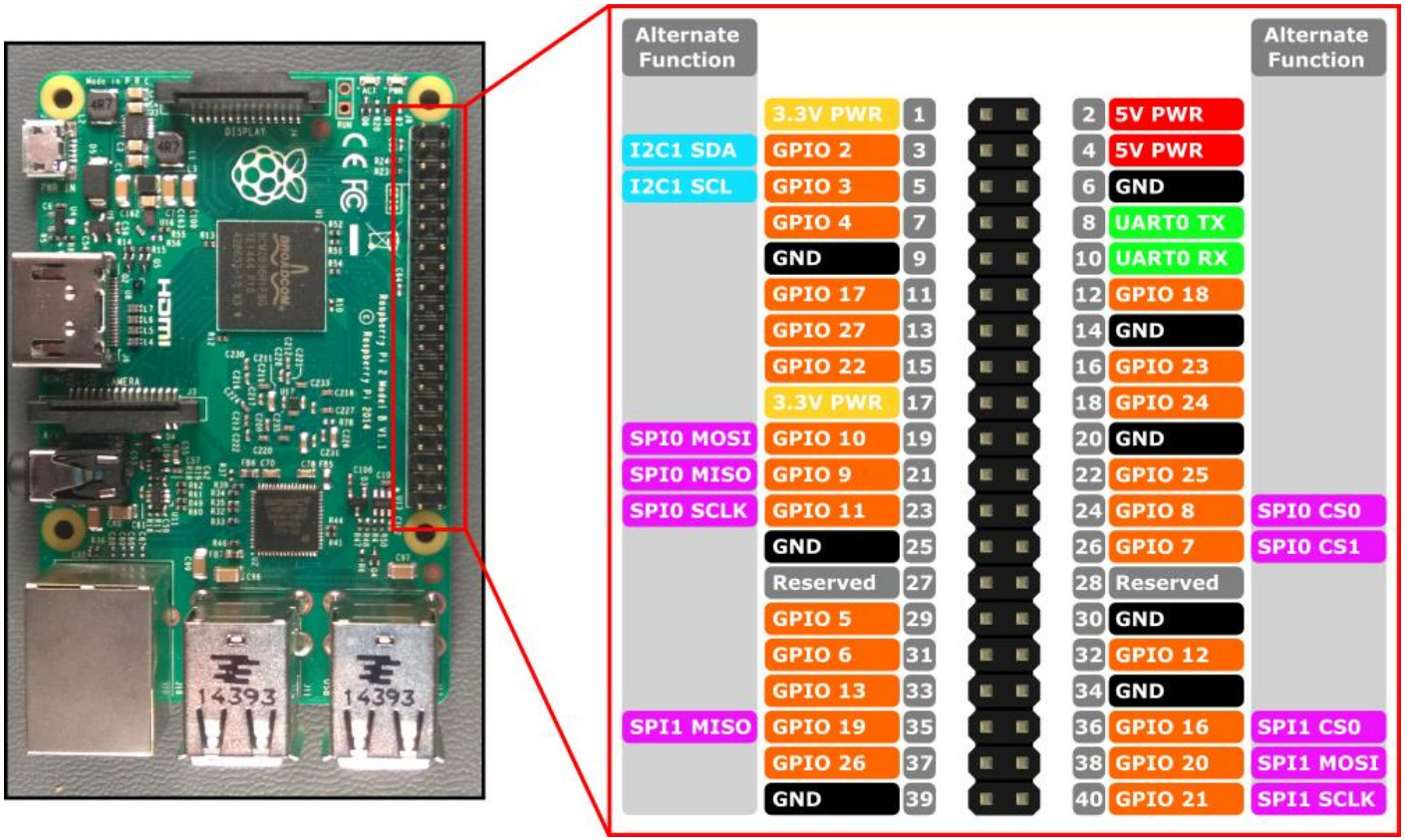

Setting
Untitle
micro
th.eler
New Tab
192.168.137.243/index_lab10_pass.php
วันที่ เวลา ชื่อภาพ
29-8-2016 23:40:5 201682923405
10-9-2016 14:59:10 2016910145910
10-9-2016 14:59:32 2016910145932
10-9-2016 15:19:14 2016910151914
10-9-2016 15:19:24 2016910151924
10-9-2016 15:19:35 2016910151935
10-9-2016 15:19:48 2016910151948
17-9-2016 15:4:33 201691715433
17-9-2016 15:4:45 201691715445
17-9-2016 15:5:9 20169171559
17-9-2016 16:36:32 2016917163632

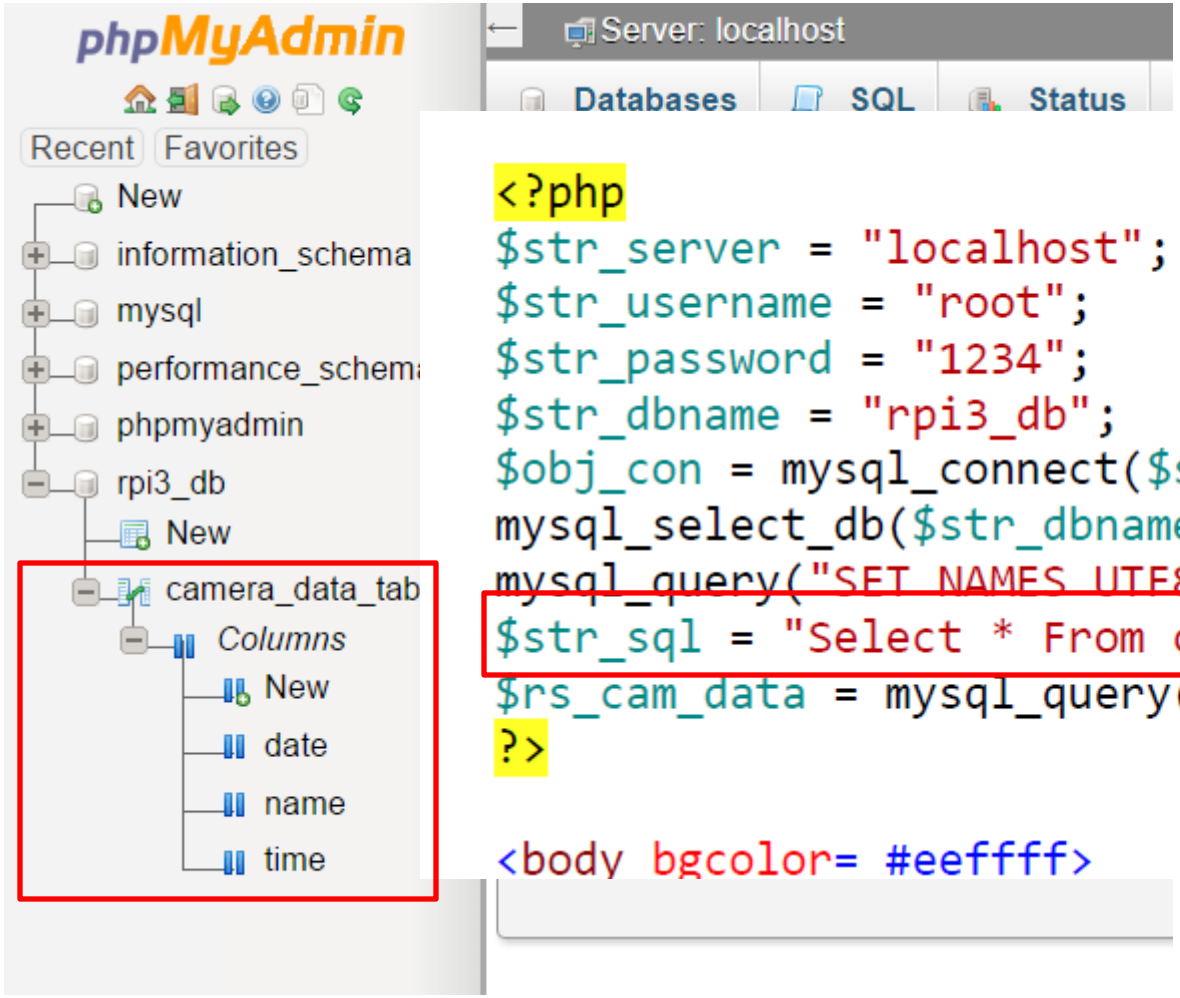
index_lab10_20170119.php | lab-10-6_CameraWeb_20170119.py

```php
<?php
$str_server = "localhost";
$str_username = "root";
$str_password = "1234";
$str_dbname = "mysql";
$obj_con = mysql_connect($str_server,$str_username,$str_password);
mysql_select_db($str_dbname,$obj_con);
mysql_query("SET NAMES UTF8");
$str_sql = "Select * From rpi2cam ";
$rs_rpi2cam = mysql_query($str_sql,$obj_con);
?>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>microcontroller20170119 Raspberrypi</title>
</head>
<body bgcolor= #eeffff>
<center>
<table cellspacing="10">
<tr>
<td bgcolor="blue"><center><font color= white >วันที่</font></center></td>
<td bgcolor="blue"><center><font color= white >เวลา</font></center></td>
<td bgcolor="blue"><center><font color= white >ชื่อภาพ</font></center></td>
</tr>
<?php while($row_rpi2cam = mysql_fetch_array($rs_rpi2cam)) { ?>
<tr>
<td ><?php echo $row_rpi2cam['date']?></td>
<td><?php echo $row_rpi2cam['time']?></td>
<td><a href="pic<?php echo $row_rpi2cam['name']?>.jpg" target="_blank">
<?php echo $row_rpi2cam['name']?>
</a></td>
</tr>
<?php } ?>
</table>
</center>
</body>
```

index_lab10_20170119.php | lab-10-6_CameraWeb_20170119.py

```
#File2: lab-10-6_CameraWeb_20170119.py

import pymysql
import RPi.GPIO as GPIO
import time
import datetime
import picamera
import sys
#connection = pymysql.connect('127.0.0.1','root','pathum2rp','mysql') #ที่ชิดเส้นใต้ต้องแก้ไข
#connection = mysql.connect(host,user,password,db)
connection = pymysql.connect('127.0.0.1','root','1234','mysql')
picname=0
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BCM)
GPIO.setup(18,GPIO.IN,pull_up_down=GPIO.PUD_UP)
with picamera.PiCamera()as camera:
    while (1):
        camera.resolution=(1024,768)
        camera.resolution=(1024,768)
        camera.start_preview()
        GPIO.wait_for_edge(18,GPIO.FALLING)
        timepic= datetime.datetime.today()
        picname=str(timepic.year)+str(timepic.month)+ str(timepic.day)+str(timepic.hour)+str(timepic.minute)+str(timepic.second)
        datedb= str(timepic.day)+'-'+str(timepic.month)+'-'+ str(timepic.year)
        timedb= str(timepic.hour)+':'+str(timepic.minute)+':'+ str(timepic.second)
        camera.capture('/var/www/html/pic'+str(picname)+'.jpg')
        try:
            with connection.cursor() as cursor:
                #mysql="insert into pathum2 (date,time,name)VALUES (%s ,%s,%s)"
                mysql = "insert into rpi2cam (date,time,name)VALUES (%s ,%s,%s)"
                #cursor.execute(mysql,(str(datedb),str(timedb),str(picname)))
                cursor.execute(mysql,(str(datedb),str(timedb),str(picname)))
                time.sleep=1
                connection.commit()
        finally:
            picname=''
            datedb=''
            timedb=''
            timepic=''
            #connection.close()
```


Alternate Function
3.3V PWR 1
2 5V PWR
I2C1 SDA GPIO 2 3
4 5V PWR
I2C1 SCL GPIO 3 5
6 GND
GPIO 4 7
8 UART0 TX
GND 9
10 UART0 RX
GPIO 17 11
12 GPIO 18
GPIO 27 13
14 GND
GPIO 22 15
16 GPIO 23
3.3V PWR 17
18 GPIO 24
SPI0 MOSI GPIO 10 19
20 GND
SPI0 MISO GPIO 9 21
22 GPIO 25
SPI0 SCLK GPIO 11 23
24 GPIO 8 SPI0 CS0
GND 25
26 GPIO 7 SPI0 CS1
Reserved 27
28 Reserved
GPIO 5 29
30 GND
GPIO 6 31
32 GPIO 12
GPIO 13 33
34 GND
SPI1 MISO GPIO 19 35
36 GPIO 16 SPI1 CS0
GPIO 26 37
38 GPIO 20 SPI1 MOSI
GND 39
40 GPIO 21 SPI1 SCLK
Alternate Function


phpMyAdmin
Server: localhost
Databases
SQL
Status
Recent
Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
rpi3_db
New
camera_data_tab
Columns
New
date
name
time
<?php
$str_server = "localhost";
$str_username = "root";
$str_password = "1234";
$str_dbname = "rpi3_db";   #DataBase Name
$obj_con = mysql_connect($str_server,$str_username,$
mysql_select_db($str_dbname,$obj_con);
mysql_query("SET NAMES UTF8");
$str_sql = "Select * From camera_data_table ";   #Tab
$rs_cam_data = mysql_query($str_sql,$obj_con);
?>
<body bgcolor= #eeffff>

```
import pymysql
import RPi.GPIO as GPIO
import time
import datetime
import picamera
import sys
#connection = pymysql.connect('127.0.0.1','root','pathum2rp','mysql')
  #ที่ขีดเส้นใต้ต้องแก้ไข
#connection = mysql.connect(host,user,password,db)
connection = pymysql.connect('127.0.0.1','root','1234','rpi3_db')
picname=0
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BCM)
GPIO.setup(18,GPIO.IN,pull_up_down=GPIO.PUD_UP)
with picamera.PiCamera()as camera:
    while (1):
        camera.resolution=(1024,768)
        camera.resolution=(1024,768)
        camera.start_preview()
        GPIO.wait_for_edge(18,GPIO.FALLING)
```

```
GPIO.wait_for_edge(18,GPIO.FALLING)
timepic= datetime.datetime.today()
picname=str(timepic.year)+str(timepic.month)+ str(timepic.day)+str
  (timepic.hour)+str(timepic.minute)+str(timepic.second)
datedb= str(timepic.day)+'-'+str(timepic.month)+'-'+ str(timepic.year)
timedb= str(timepic.hour)+':'+str(timepic.minute)+':'+ str(timepic.second)
camera.capture('/var/www/html/pic'+str(picname)+'.jpg')
try:
    with connection.cursor() as cursor:
        #mysql="insert into pathum2 (date,time,name)VALUES (%s ,%s,%s)"
        mysql = "insert into camera_data_table (date,time,name)VALUES (%s ,
          %s,%s)"
        #cursor.execute(mysql,(str(datedb),str(timedb),str(picname)))
        cursor.execute(mysql,(str(datedb),str(timedb),str(picname)))
        time.sleep=1
        connection.commit()
finally:
    picname=''
    datedb=''
    timedb=''
    timepic=''
    #connection.close()
```