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GUIDE #RASPISERIE_05 - LAMP_WEBSITE
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Raspberry Pi - LAMP !!! - Linux, Apache, Mysql and Python - #raspiSerie 05
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L is for Linux:

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1 - python --version

Python 2.7.9

- 2 sudo rm /usr/bin/python
- 3 sudo ln -s /usr/bin/python3 /usr/bin/python
   python --version
- 4 sudo apt-get update
- 5 sudo apt-get install python3-pip

A is for Apache

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- 6 sudo apt-get install apache2
- 7 sudo mkdir /var/www/test
- 8 sudo a2dismod mpm\_event
  Module mpm\_event disable.
  To activate the new configuration, you need to run:
  service apache2 restart
  clear
- 9 sudo a2enmod mpm\_prefork cgi
- 10 sudo nano /etc/apache2/sites-enabled/000-default.conf
- 11 Right after the 1<sup>a</sup> line (inside sudo/<VirtualHost>):

<Directory /var/www/test>
 Options +ExecCGI
 DirectoryIndex index.py
</Directory>
AddHandler cgi-script .py

12 - sudo service apache2 restart

M is for MySQL

- 13 sudo apt-get install mysql-server
  root pwd: raspberry
- 14 mysql\_secure\_installation

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P is for Python
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15 - sudo pip3 install pymysql
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Maintain a Website
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16 - mysql -uroot -p
raspberry
17 - mysql> create database pi;
    use pi;
18 - Db script:
create table forecast (
    idnumber INT PRIMARY KEY NOT NULL AUTO_INCREMENT,
               VARCHAR(10),
    location
                TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    read at
    temperature VARCHAR(6),
    humidity
               VARCHAR(6),
    pressure VARCHAR(6)
   );
try this:
drop database pi;
drop table forecast;
show DATABASES;
show tables;
use pi;
describe forecast;
system clear;
19 - sudo nano /var/www/test/index.py
20 - index.py file script:
#!/usr/bin/python
# Turn on debug mode.
import cgitb
cgitb.enable()
# Print necessary headers.
print("Content-Type: text/html")
print()
# Connect to the database.
import pymysql
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Guide_raspiSerie_05_LAMP
conn = pymysql.connect(
   db='pi',
    user='root',
    passwd='raspberry',
    host='localhost')
c = conn.cursor()
# Insert some example data.
c.execute("INSERT INTO forecast(location, temperature, humidity, pressure) VALUES ('Room
- 01', 28, 65, 10)")
c.execute("INSERT INTO forecast(location, temperature, humidity, pressure) VALUES ('Room
- 02', 29, 66, 11)")
c.execute("INSERT INTO forecast(location, temperature, humidity, pressure) VALUES ('Room
- 03', 30, 67, 12)")
conn.commit()
# Print the contents of the database.
c.execute("SELECT * FROM forecast")
print([(r[0], r[1], r[2], r[3], r[4], r[5]) for r in c.fetchall()])
21 - Save and exit: crtl + X ; Y; Hit Enter.
22 - sudo chmod 755 /var/www/test/index.py
23 - Browse:
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[(1, 'Room - 01', datetime.datetime(2016,8,29,0,22,49), '28', '65', '10'), (2, 'Room - 02', datetime.datetime(2016,8,29,0,22,49), '29', '66', '11'), (3, 'Room - 03', datetime.datetime(2016,8,29,0,22,49), '30', '67', '12') ]

http://192.168.1.7