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1750562 - 张博-1341155235@qq.com
搭建LAMP环境
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```

# 1750562 - 张博-<u>1341155235@qq.com</u>

## 搭建LAMP环境

### 简介

lamp环境 (web组合应用)

LAMP是指一组通常一起使用来运行动态网站或者服务器的自由软件名称首字母缩写:

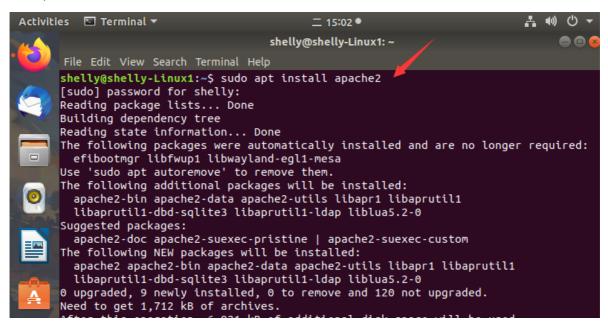
- Linux, 操作系统
- Apache, 网页服务器
- MariaDB或MySQL,数据库管理系统(或者数据库服务器)
- <u>PHP</u>、<u>Perl</u>或<u>Python</u>, <u>脚本语言</u>

### 流程

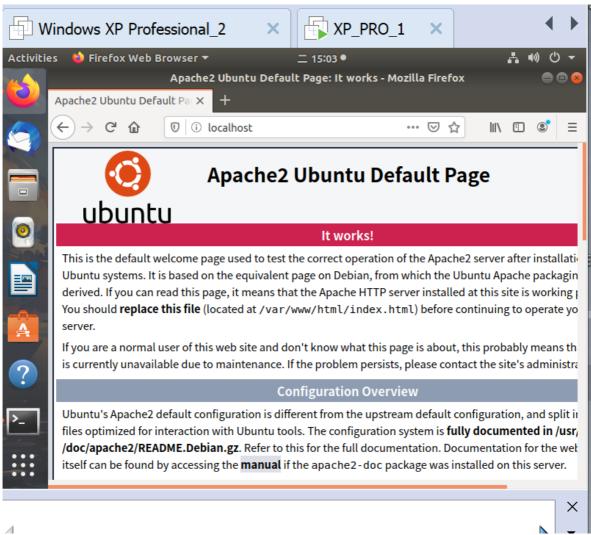
本文打算在ubuntu系统进行搭建,选择Ubuntu版本为18.04

## 安装apache

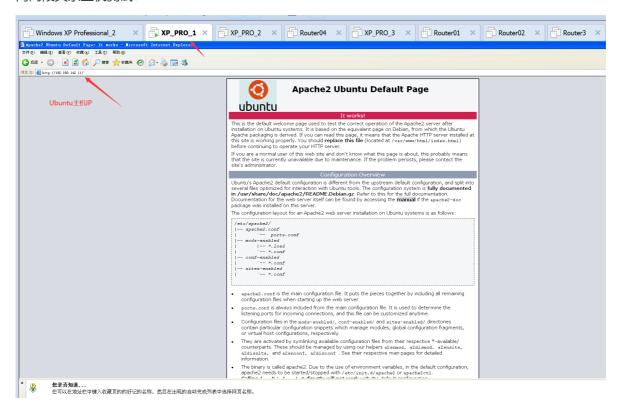
安装apache



#### 本地测试:



#### 同网段其余主机测试:



```
### File Edit View Search Terminal Help

### shelly@shelly-Linux1:-$

### shelly@shelly-Linux1:-$

### shelly@shelly-Linux1:-$

### shelly@shelly-Linux1:-$

### shelly@shelly-Linux1:-$

### shelly@shelly-Linux1:-$

### sudo apt install php7.0

### Reading package lists... Done

### Building dependency tree

### Reading state information... Done

### Note, selecting 'php7.0-remctl' for regex 'php7.0'

### Note, selecting 'php7.0-remctl' instead of 'php7.0-remctl'

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

### efibouring libfwujnd-eql1-mesa

### Use 'sudo apt autoremove' to remove them.

### following additional packages will be installed:

### following new packages

### following new packages

### following new packages

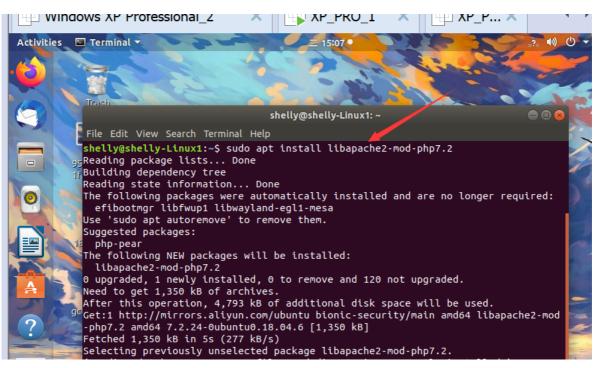
### following new packages

### 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                shelly@shelly-Linux1: ~
                 \overline{?}
```

#### 安装php版本为7.2

```
shelly@shelly-Linux1:~$ php7.2 -v
PHP 7.2.24-0ubuntu0.18.04.6 (cli) (built: May 26 2020 13:09:11) ( NTS ) Copyright (c) 1997-2018 The PHP Group
Zend Engine v3.2.0, Copyright (c) 1998-2018 Zend Technologies
with Zend OPcache v7.2.24-0ubuntu0.18.04.6, Copyright (c) 1999-2018, by Zend Technologies
shelly@shelly-Linux1:~$ a
```

### 将php和apache整合



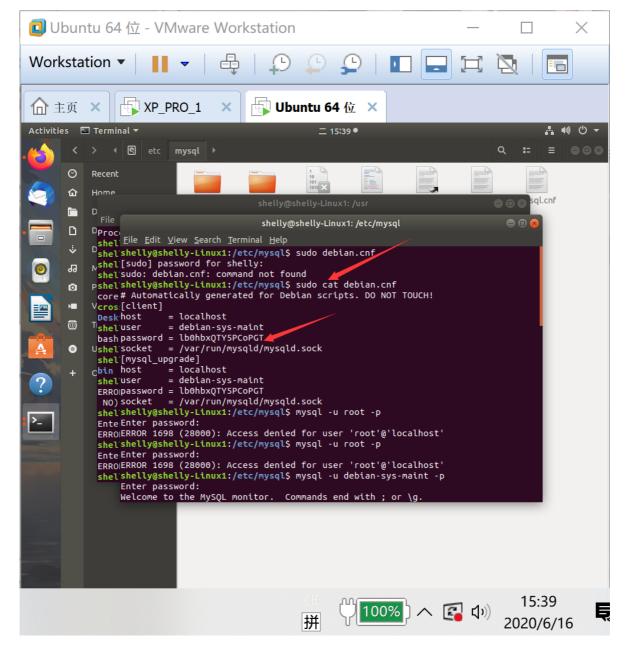
```
shelly@shelly-Linux1: ~
  File Edit View Search Terminal Help
  Module mpm_event disabled.
 Enabling module mpm_prefork.
 apache2_switch_mpm Switch to prefork
  apache2_invoke: Enable module php7.2
  shelly@shelly-Linux1:~$ sudo apt install mysql-server
  Reading package lists... Done
 Building dependency tree
  Reading state information... Done
 The following packages were automatically installed and are no longer required:
   efibootmgr libfwup1 libwayland-egl1-mesa
 Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
    libaio1 libevent-core-2.1-6 libhtml-template-perl mysql-client-5.7
    mysql-client-core-5.7 mysql-common mysql-server-5.7 mysql-server-core-5.7
Suggested packages:
    libipc-sharedcache-perl mailx tinyca
 The following NEW packages will be installed:
    libaio1 libevent-core-2.1-6 libhtml-template-perl mysql-client-5.7
    mysql-client-core-5.7 mysql-common mysql-server mysql-server-5.7
    mysql-server-core-5.7
0 upgraded, 9 newly installed, 0 to remove and 120 not upgraded.
Need to get 19.1 MB of archives.
  After this operation, 155 MB of additional disk space will be used.
  Do you want to continue? [Y/n] Y
```

### 整合MySQL和php

```
🖹 File Edit View Search Terminal Help
 Processing triggers for systemd (237-3ubuntu10.39) ...
 Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
 Processing triggers for ureadahead (0.100.0-21) ...
 shelly@shelly-Linux1:~$ sudo apt install php7.2-mysql
 Reading package lists... Done
 Building dependency tree
 Reading state information... Done
 The following packages were automatically installed and are no longer required:
  efibootmgr libfwup1 libwayland-egl1-mesa
 Use 'sudo apt autoremove' to remove them.
 The following NEW packages will be installed:
   php7.2-mysql
 0 upgraded, 1 newly installed, 0 to remove and 120 not upgraded.
 Need to get 117 kB of archives.
 After this operation, 449 kB of additional disk space will be used.
Get:1 http://mirrors.aliyun.com/ubuntu bionic-security/main amd64 php7.2-mysql
 md64 7.2.24-0ubuntu0.18.04.6 [117 kB]
 Fetched 117 kB in 0s (782 kB/s)
 Selecting previously unselected package php7.2-mysql.
 (Reading database ... 90% (Reading database ... 172659 files and directories currently installed.)
 Preparing to unpack .../php7.2-mysql_7.2.24-0ubuntu0.18.04.6_amd64.deb ...
Unpacking php7.2-mysql (7.2.24-0ubuntu0.18.04.6) ...
 Setting up php7.2-mysql (7.2.24-0ubuntu0.18.04.6) ...
```

### MySQL密码设置:

进入/etc/mysql 目录下, 找出初始密码:



#### 使用该用户名和密码登录后进行密码重置:

#### 1: use mysql;

```
shelly@shelly-Linux1: /etc/mysql
<u>File Edit View Search Terminal Help</u>
shelly@shelly-Linux1:/etc/mysql$ mysql -u debian-sys-maint -p
Enter password:
Welcome to the MySQL monitor.
                               Commands end with ; or \g.
Your MySQL connection id is 7
Server version: 5.7.30-Oubuntu0.18.04.1 (Ubuntu)
Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.
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> use mysql;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
```

此处设计自己密码') where user = 'root' and Host = 'localhost';

```
mysql> update mysql.user set authentication_string=password('596512') where us
er = 'root' and Host = 'localhost';
'Query OK, 1 row affected, 1 warning (0.00 sec)
|Rows matched: 1 Changed: 1 Warnings: 1
```

#### 3:刷新权限

```
'mysql> update user set plugin='mysql_native_password';
Query OK, 1 row affected (0.00 sec)
IRows matched: 4 Changed: 1 Warnings: 0

mysql> flush privileges;
IQuery OK, 0 rows affected (0.00 sec)
```

4.quit后即可使用设置的root账户登录

至此安装完毕,下测试PHP环境

#### 测试

进入var/www/html 新建test.php文件,选择root用户权限

```
root@shelly-Linux1: /var/www/html

File Edit View Search Terminal Help

shelly@shelly-Linux1:/var/www/html$ vi test.php

[1]+ Stopped vi test.php

95;shelly@shelly-Linux1:/var/www/html$ sudo su

1ff.[sudo] password for shelly:
    Sorry, try again.
    [sudo] password for shelly:
    root@shelly-Linux1:/var/www/html#
    root@shelly-Linux1:/var/www/html#

root@shelly-Linux1:/var/www/html# vi test.php

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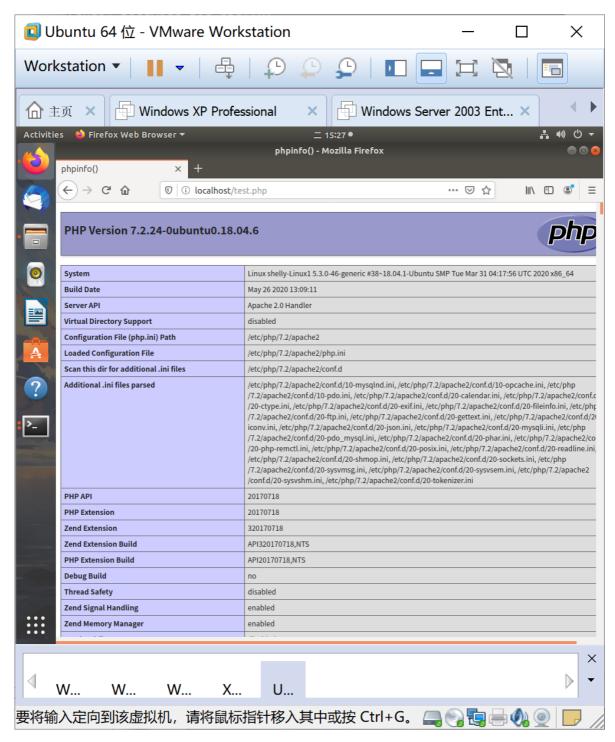
root@shelly-Linux1:/var/www/html#
```

test.php内容为:

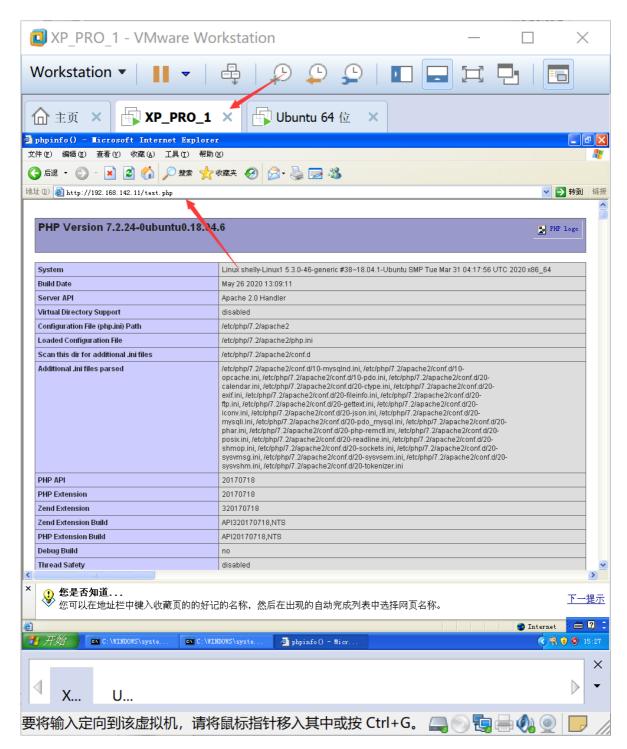
```
<?php
phpinfo();
?>
```

保存后可访问:

本机:



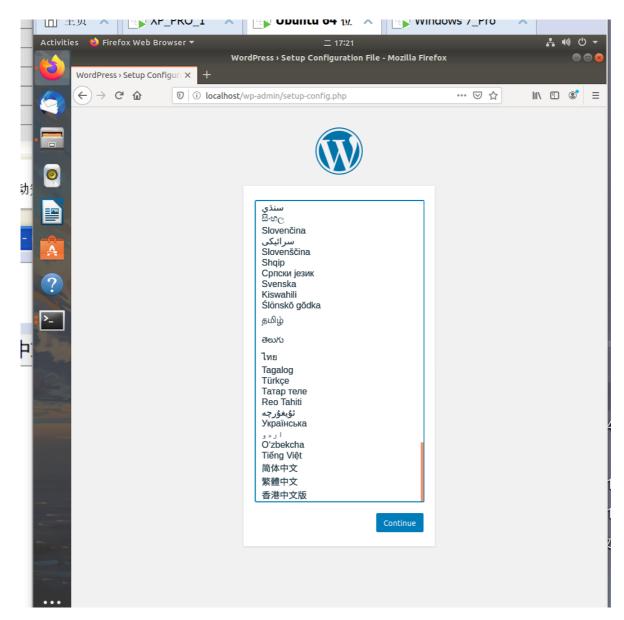
其他主机:



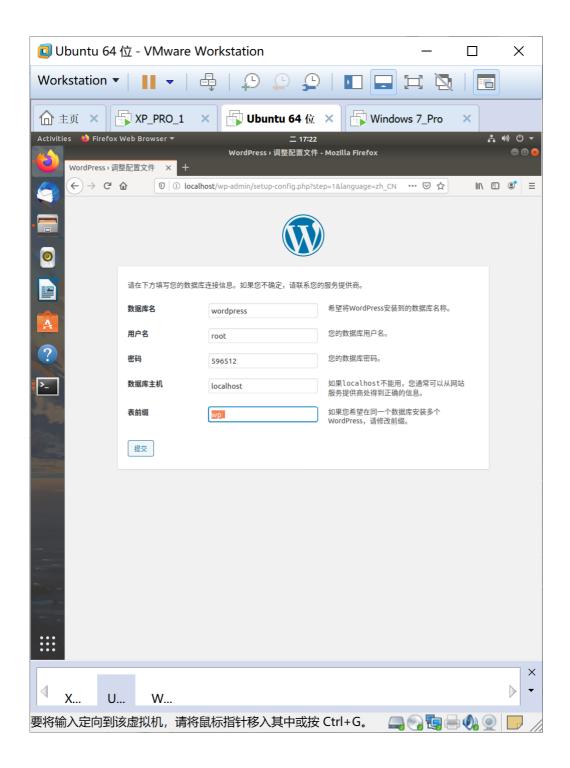
### 部署wordpress服务:

下载和解压以及数据库配置略去

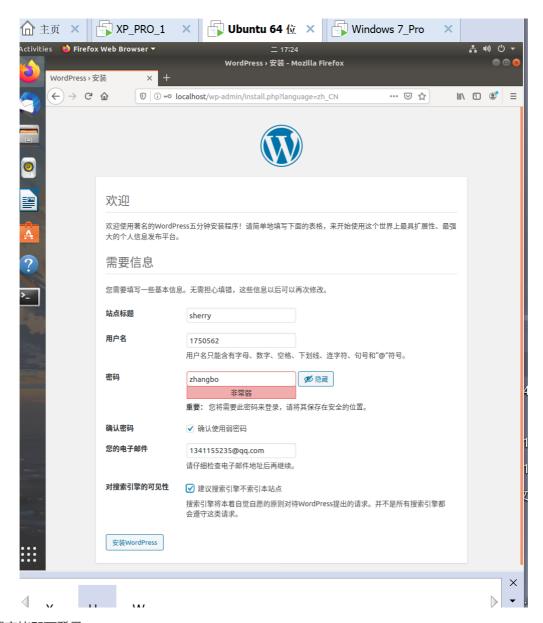
直接访问本地IP:



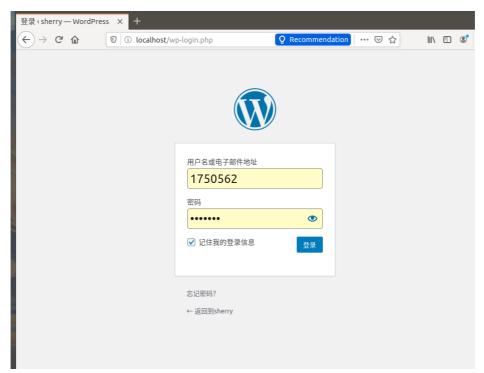
配置参数:

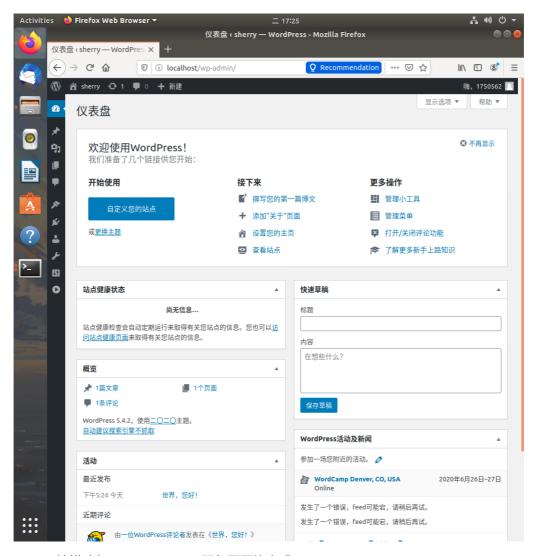


设置站点信息:



#### 配置完毕即可登录:





至此, lamp环境搭建与wordpress web服务配置均完成。