# 任务1: 安装httpd+php+mysql

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在 PCDuino 上安装 httpd+php+mysql 环境。

#### 实现目的

- 1 熟悉pcDuino在linux下软件的安装;
- 2 掌握httpd、php、mysql的安装与配置。

#### 硬件

- pcDuino v2板一块;
- 5V/1A电源一个;
- microUSB线一根;
- USB-TTL串口线一根(FT232RL芯片或PL2303芯片)。

#### 以下为自备(可选)器材:

- PC (Windows/Mac OS/Linux) 一台;
- 以太网线一根(可能还需要路由器等)。

#### 软件

- PC上的USB-TTL串口线配套的驱动程序;
- PC上的串口终端软件,如minicom、picocom、putty等;
- PC上的SSH软件,如putty等。

# 实验步骤

1 在pcDuino上安装并配置apache;

升级apt-get源

```
root@Acadia:~# sudo apt-get update

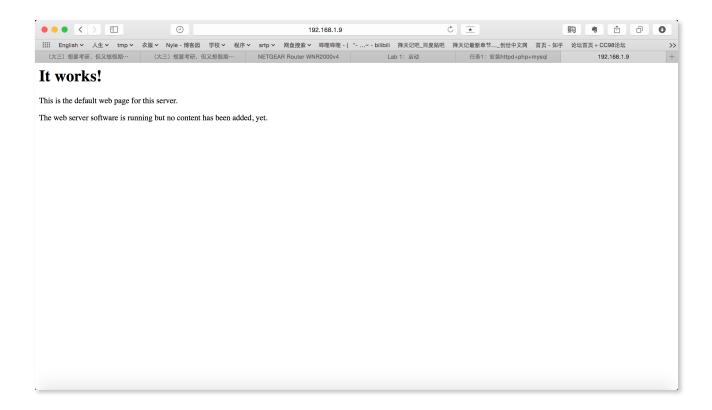
Ign http://ports.ubuntu.com precise InRelease
Hit http://ports.ubuntu.com precise Release.gpg

Ign http://ppa.launchpad.net precise InRelease
Hit http://ports.ubuntu.com precise Release
Hit http://ppa.launchpad.net precise Release.gpg
Hit http://ports.ubuntu.com precise/main Sources
Hit http://ppa.launchpad.net precise Release
Hit http://ports.ubuntu.com precise/universe Sources
Hit http://ports.ubuntu.com precise/main armhf Packages
Hit http://ports.ubuntu.com precise/universe armhf Packages
```

## 安装apache,下图为安装完成图

```
Enabling module negotiation.
Enabling module setenvif.
Enabling module status.
Enabling module auth_basic.
Enabling module deflate.
Enabling module authz_default.
Enabling module authz_user.
Enabling module authz_groupfile.
Enabling module authn_file.
Enabling module authz_host.
Enabling module reqtimeout.
Setting up apache2-mpm-worker (2.2.22-1ubuntu1) ...
* Starting web server apache2
                                  apache2: Could not reliably determine the server's fully qualified dome
Setting up apache2 (2.2.22-1ubuntu1) ...
Processing triggers for libc-bin ...
ldconfig deferred processing now taking place
^[[Broot@Acadia:~#
```

2 验证apache已经安装并能成功访问;



3 在pcDuino上安装并配置php;

sudo apt-get install php5

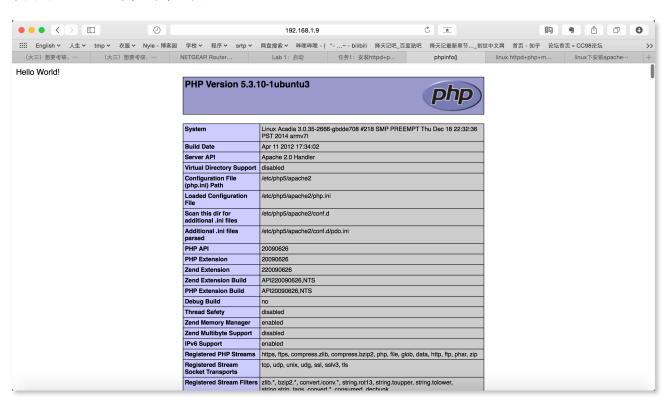
```
^[[Broot@Acadia:~# sudo apt-get install php5
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
 apache2-mpm-prefork libapache2-mod-php5 php5-common
Suggested packages:
  php-pear php5-suhosin
Recommended packages:
 php5-cli
The following packages will be REMOVED:
 apache2-mpm-worker
The following NEW packages will be installed:
 apache2-mpm-prefork libapache2-mod-php5 php5-common
0 upgraded, 4 newly installed, 1 to remove and 0 not upgraded.
Need to get 3227 kB of archives.
After this operation, 7433 kB of additional disk space will be used.
Do you want to continue [Y/n]?
```

# 4 写一个php脚本验证php已经安装成功;

#### 脚本如下:

```
root@Acadia:/var/www# cat try.php
<?php
echo "Hello World!";
phpinfo()
?>
root@Acadia:/var/www#
```

# 访问页面后得到效果图:



# 5 在pcDuino上安装并配置mysql; sudo apt-get install mysql-server

```
root@Acadia:/var/www# sudo apt-get install mysql-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  libdbd-mysql-perl libdbi-perl libmysqlclient18 libnet-daemon-perl
 libplrpc-perl mysql-client-5.5 mysql-client-core-5.5 mysql-common
 mysql-server-5.5 mysql-server-core-5.5
Suggested packages:
 libterm-readkey-perl tinyca mailx
Recommended packages:
 libhtml-template-perl
The following NEW packages will be installed:
 libdbd-mysql-perl libdbi-perl libmysqlclient18 libnet-daemon-perl
 libplrpc-perl mysql-client-5.5 mysql-client-core-5.5 mysql-common
 mysql-server mysql-server-5.5 mysql-server-core-5.5
0 upgraded, 11 newly installed, 0 to remove and 0 not upgraded.
Need to get 25.3 MB of archives.
After this operation, 85.6 MB of additional disk space will be used.
Do you want to continue [Y/n]?
```

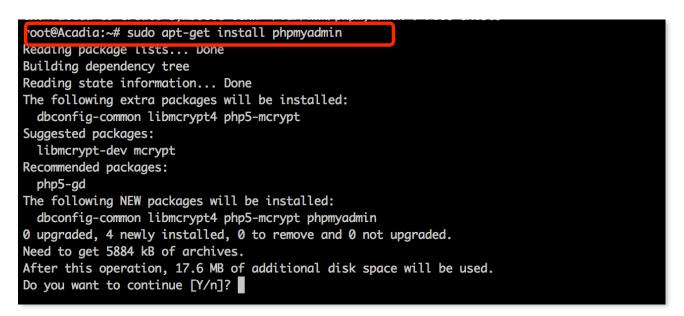
sudo apt-get install libapache2-mod-auth-mysql 安装apache 相关 mysql

```
root@Acadia:~# sudo apt-get install libapache2-mod-auth-mysql
```

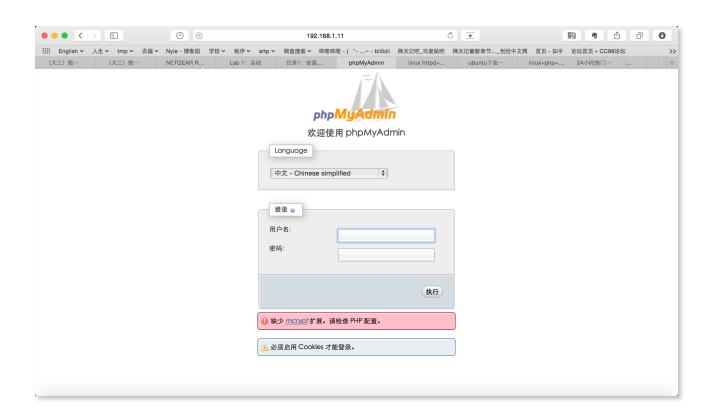
sudo apt-get install php5-mysql 安装php相关mysql

```
Selecting previously unselected package php5-mysql.
(Reading database ... 73482 files and directories currently installed.)
Unpacking php5-mysql (from .../php5-mysql_5.3.10-1ubuntu3_armhf.deb) ...
Processing triggers for libapache2-mod-php5 ...
* Reloading web server config apache2 apache2: Could not reliably determine the sere
[ OK ]
Setting up php5-mysql (5.3.10-1ubuntu3) ...
```

#### 然后还安装了phpmyadmin



6 写一个php脚本访问mysql,验证mysql安装成功。



测试php脚本

#### 数据库如下图



## 得到结果如下

```
hello
value:1
value:2
value:1
value:2
```

# 感想:

学习了一下apache+mysql+php的搭建,方便了以后网络服务器的搭建。而且深一步了解了嵌入式设备。