# Construct a simple 3-tier website



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## 提纲

## 1. 前言

- 2. LAMP简介
- 3. XAMPP安装
- 4. XAMPP测试与管理
- 5. Hello World!演示



## 网页展示层

业务逻辑层

数据存储层

操作系统

Apache/Nginx/Lighttpd/Tomcat..

PHP/Java/Perl/Python ..

MySQL/Oracle/SQLite ..

Linux/Windows ..



- Linux + Apache + MySQL + PHP 组合名称
- •一组常用来搭建动态网站或者服务器的开源软件
- •软件开发的项目在软件方面的投资成本较低
- •70%以上的访问流量是LAMP来提供的,是最强大的网站解决方案
- •开放源代码的LAMP已经与J2EE和.Net商业软件形成三 足鼎立之势



## 3. XAMPP安装

从零开始安装Apache 服务器,并添加MySQL、PHP 和Perl模块,会比较麻烦,并且存在apache和模块之间的兼容性问题。

- •XAMPP是一个易于安装的LAMP 软件集合的集成包
- •可以在Windows、Linux、Solaris三种操作系统下安装使用
- •支持多语言:英文、简体中文、繁体中文、韩文、俄文、 日文等

 Windows版的安装包包括: Apache、MySQL、PHP + PEAR、 Perl、mod\_php、mod\_perl、mod\_ssl、OpenSSL、 phpMyAdmin、Webalizer、Mercury Mail Transport System for Win32 and NetWare Systems v3.32、Ming、FileZilla FTP Server、mcrypt、eAccelerator、SQLite、and WEB-DAV + mod\_auth\_mysql

• 主页: http://www.apachefriends.org/en/xamppwindows.html





### •下载windows安装包

http://www.apachefriends.org/en/xampp-windows.html



### •双击xampp.exe开始安装

Instal]	er Language 🛛 👔	<
ස	Please select a language.	
	English	
	OK Cancel	)

#### 🔀 XAMPP 1.7.7 vin32



#### Welcome to the XAMPP 1.7.7 Setup Wizard

This wizard will guide you through the installation of XAMPP 1.7.7.

It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.

Next >

Click Next to continue.

Cancel

## •选择要安装的目录(建议使用默认值)

🔀 XAMPP 1.7.7 win32	
Choose Install Location Choose the folder in which to install XAMPP 1.7.	7.
Setup will install XAMPP 1.7.7 in the following fol Browse and select another folder. Click Next to	der. To install in a different folder, click continue.
Destination Folder	
c: wampp	Browse
Space required: 485, 5MB	
Space available: 42.6GB	
Taunourt unordit oyotetti vz.30.	< <u>B</u> ack Next > Cancel

•选项设置(勾上Install Apache as Server 和 Install MySQL as Service)

😂 XAMPP 1.7.7 win32	
XAMPP Options Install options on NT/2000/XP Professional systems.	ස
XAMPP DESKTOP	
Create a XAMPP desktop icon	
XAMPP START MENU	
Create an Apache Friends XAMPP folder in the start menu	
SERVICE SECTION	
Install Filezilla as service	
See also the XAMPP for Windows FAQ Page	
Nullsoft Install System v2.35	
< <u>B</u> ack Install	Cancel

### •正在安装



## • 安装结束

🔀 XAMPP 1.7.7 vin3	2	
	Completing the XAMPP 1.7.7 Setup Wizard	
C C	C:\VINDOWS\system32\cmd.exe	
"Che	cking necessary ports! Please wait"	
	🔀 XAMPP 1.7.7 win32	
	Service installation finished! Hint: Use also the XAMPP Control Panel to mana, 确定	ge services.

## 4. XAMPP测试与管理

### **PHP Info**

- 在Control Pannel中点击Apache右边的Admin..按钮
- •或者在浏览器中输入 http://localhost/xampp/
- •右下图所示页面显示的是php和apache 安装成功后正确显示信息
- •该页面显示了所有的apache php 模块 配置



## MySql

- 在Control Pannel中点击MySql右边的 Admin..按钮
- •或者在浏览器中输入 http://localhost/phpmyadmin/
- •右下图所示页面显示的是mysql和 apache安装成功后的正确显示信息
- •该页面提供了基于Web的数据库管理 功能





# 5.Hello World!演示

## •在xampp的安装目录下,生成如下图 所示的目录和文件

•编辑index.php



```
<?php
```

//connect

```
$con = mysql connect('localhost', 'root', '123456');
if (!$con){
```

die('Could not connect: '. mysql\_error());

}

//create database

\$res = mysql query("CREATE DATABASE IF NOT EXISTS helloworld default charset utf8 COLLATE utf8 general ci",\$con); //create table

```
$res = mysql guery("CREATE TABLE IF NOT EXISTS helloworld.user (
```

id BIGINT(20) NOT NULL PRIMARY KEY AUTO INCREMENT,

```
username VARCHAR(128) NOT NULL,
```

```
password VARCHAR(128) NOT NULL,
```

create at TIMESTAMP DEFAULT CURRENT TIMESTAMP

)ENGINE InnoDB, default charset=utf8", \$con);

#### //insert

}

#### if(isset(\$\_GET['username']) && isset(\$\_GET['password'])){

\$res = mysql guery("INSERT INTO `helloworld`.`user` (`username`,`password`) values('".\$\_GET['username']."','".\$\_GET['password']."')",\$con);

```
?>
```

```
<div>
```

```
<h3>Insert into MySQL:</h3>
<form name="input" action="index.php" method="get">
       Username:<input type="text" name="username" />
       Password:<input type="text" name="password" />
       <input type="submit" value="Submit" />
```

</form>

</div>

<div>-----</div><br>

<div>

```
<h3>Get from MySQL:</h3>
```

#### <?php

#### //select

```
$res = mysql query("SELECT * FROM helloworld.user",$con);
```

```
while ($row = mysql_fetch_assoc($res)) {
```

echo "Username: ". \$row['username']. " Password: ".\$row['password']."</br>

#### }

#### //close

mysql close(\$con);

#### ?> </div>

• 在浏览器中输入 http://localhost/helloworld/

- 输入buaa01和123456
- •点击submit提交

🕹 Lozilla Firefox					
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp					
📑 🗍 http://localhost…oworld/index.php 🗙 🎎 localhost / localhost / hellowor… 🗙 🕂					
Calhost/helloworld/index.php C 🕆 V C Socgle					
Insert into MySQL:					
Username: buaa01 Password 123456 Submit					
Get from MySQL:					



•右图是提交后的结果

🕹 Lozilla Firefox					
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp					
👫 🗌 http://localhost&password=123456 🗙 🎎 localhost / localhost / hellowor 🗙	+				
🗲 🔲 localhost/helloworld/index.php?username=buaaO1&password=123456 🛛 🖓 🔻 C	8				
Insert into MySQL:					
Username: Password: Submit					
Get from MySQL:					
Username: buaa01 Password: 123456					

