



Installing CakePHP

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Installing CakePHP

- **CakePHP Can Be Run on Any OS**

- I will cover installation on the following machines
 - Linux command line
 - Linux with NetBeans IDE
 - Window using XAMPP
 - Windows with NetBeans IDE
 - Windows with IIS

- **URL Alteration**

- In each OS installation scenario I will also cover how to make a pretty URL
- `http://catalog`
 - (instead of using <http://localhost/catalog>)

CakePHP Requirements

- **PHP Version**
 - 5.2.8 or Higher
- **Database**
 - MySQL, PostgreSQL, Microsoft SQL Server, SQLite
 - MySQL with phpMyAdmin
- **Web Server**
 - Apache, IIS

Installing CakePHP on Linux

- **Command Line for Our Installation**
 - For this course I will be using the Ubuntu OS, but the process is similar on other flavors of Linux.

Initial Setup Environment

- **Building on the LAMP Stack –
Linux, Apache, MySQL, PHP**
 - Linux
 - Apache Web Server
 - MySQL
 - Make sure you have your username/password handy
 - Create a database for our course
 - Catalog
 - PHP
 - Version 5.2.8 or higher
- **Additionally**
 - Download CakePHP
 - `git://github.com/cakephp/cakephp.git`
 - <https://github.com/cakephp/cakephp/zipball/2.3.6>



Configure CakePHP

- **Create a Folder for Our New CakePHP Site**
 - Move the CakePHP you downloaded into this folder
 - I like to keep my individual web sites under a WebSites folder
 - etc. /home/<username>/WebSites/Catalog
- **Change the Permissions on the CakePHP app/tmp Folder**
 - `chmod 777 -R tmp`
- **Alter Two Files in the CakePHP app/config Folder**
 - `database.php.default`
 - `core.php`

Configure Apache Web Server

- **Alter the 'etc/hosts' File**
 - Add Catalog after 'localhost'
 - Make sure there is a space between the two
- **Create a New VirtualHost File**
 - Located inside the /etc/apache2/sites-available
 - Hint: Copy the default file and rename that to be Catalog
- **Enable the New Site**
 - a2ensite Catalog
- **Reload Apache**
 - This allows Apache to recognize the changes we just made to the configuration

Install CakePHP with NetBeans

- **Installation of CakePHP with the NetBeans IDE**
 - Most IDEs will work for development, but NetBeans has a nice CakePHP plugin that helps with installation and setup of CakePHP.
 - As a bonus it also has code completion.

Initial Setup Environment

- **Building on the LAMP Stack –
Linux, Apache, MySQL, PHP**

- Linux
- Apache Web Server
- MySQL
 - Make sure you have your username/password handy
 - Create a database for our course
 - Catalog
- PHP
 - Version 5.2.8 or higher

- **Additionally**

- Download and Install NetBeans IDE
 - <http://www.netbeans.org>



NetBeans Magic

- **CakePHP Plugin**
 - Using NetBeans plugin manager, select and install the CakePHP plugin
- **Create a New Project**
 - Using the new framework template, create a new CakePHP Project
 - CatalogTest

Configure Apache Web Server

- **Alter the 'etc/hosts' File**
 - Add CatalogTest
- **Create a New VirtualHost File**
 - Located inside the /etc/apache2/sites-available
- **Enable the New Site**
 - a2ensite CatalogTest
- **Reload Apache**
 - This will get apache to recognize the changes we have made to the VirtualHosts folder

Installing CakePHP on Windows Using XAMPP

- **Install the XAMPP Application**
 - Includes
 - Apache Web Server
 - MySQL
 - PHP
- **Install CakePHP in Our New XAMPP Environment on Windows**

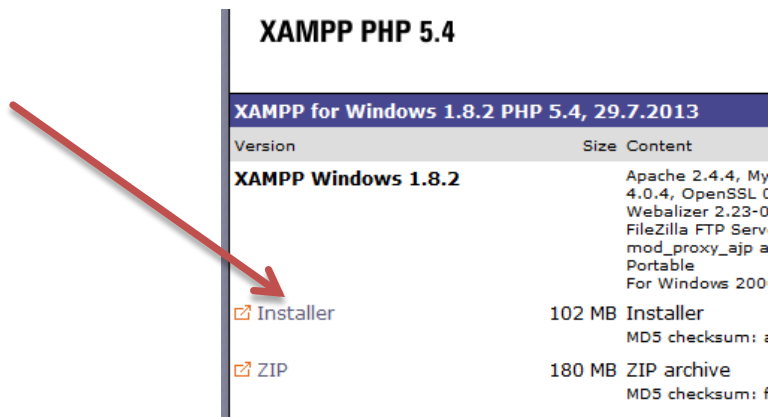
Initial Setup Environment

- **Windows OS**

- I will be using Windows 7

- **Download XAMPP Installer Version**

- You can find the latest from
 - <http://www.apachefriends.org/en/xampp.html>
 - Download the version with the Windows Installer



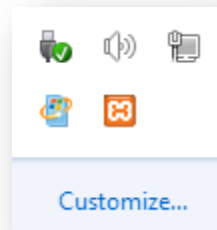
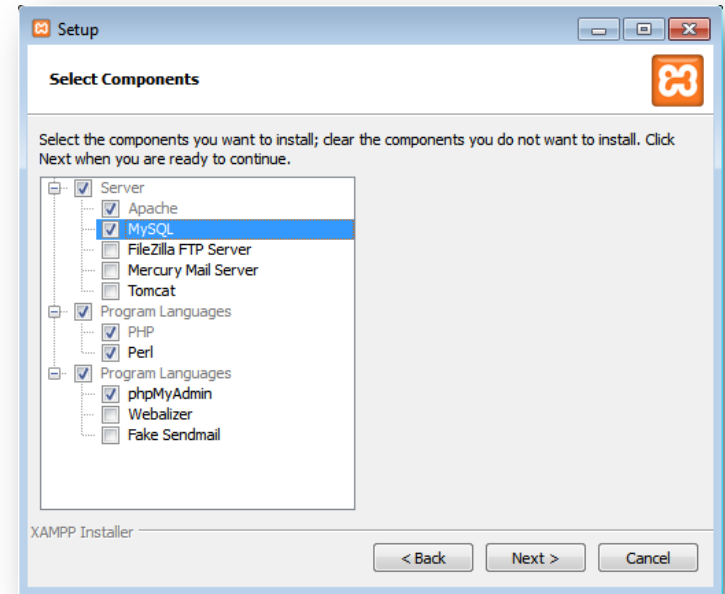
- **Download CakePHP**

- <https://github.com/cakephp/cakephp/zipball/2.3.6>



Installing XAMPP

- **Default Program Options**
 - You can uncheck any programs you don't want to install.
 - Make sure that you leave phpMyAdmin, and MySQL checked.
- **Install off of the C: Drive**
 - C:\xampp
- **Start Apache and MySQL**
 - You can minimize the control panel and it will still run in the background.



Configure CakePHP

- **Create a folder for our new CakePHP site**
 - Move the CakePHP you downloaded into this folder
 - I like to keep my individual web sites under a WebSites folder
 - etc. C:\Pluralsight\WebSites\Catalog
- **Alter two files in the CakePHP app/config folder**
 - database.php.default
 - core.php

Configure XAMPP

- **Alter the 'C:\Windows\System32\drivers\etc\hosts' file**
 - Add Catalog and localhost entries
 - http://Catalog
- **Add a VirtualHost Entry**
 - Located inside the **C:\xampp\apache\conf\extra\httpd-vhosts.conf**
- **Restart Apache**
 - Open up the XAMPP control panel and stop and then start Apache

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 - As a bonus it also has code completion.

Initial Setup Environment

- **Windows OS**
 - I will be using Windows 7
- **XAMPP**
 - Downloaded and installed
- **NetBeans**
 - Downloaded and installed



NetBeans Magic

- **CakePHP Plugin**
 - Using NetBeans plugin manager, select and install the CakePHP plugin
- **Create a New Project**
 - Using the new framework template, create a new CakePHP Project
 - CatalogTest

Configure XAMPP

- **Alter the 'C:\Windows\System32\drivers\etc\hosts' file**
 - Add CatalogTest
- **Add a VirtualHost Entry**
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CakePHP with Windows IIS Server

- **No More Software, please**
 - For those that want to stick with the IIS server and not have to install XAMPP this section is for you.

Initial Setup

■ Web Platform Installer

- Below is a list of items you will need in order to run CakePHP on your IIS system
 - IIS (Express)
 - IIS Manager
 - PHP (latest version 5.4 <)
 - PHP Manager for IIS
 - MySQL Server 5.1 (or most recent)
 - URL Rewrite 2.0 (this is to handle the rewrite rules that CakePHP utilizes)

IIS Configuration

- **Create New Site**
 - Catalog (choose the correct local path)
- **Add a New Default Document**
 - index.php
- **PHP Manager**
 - Make sure that the suggested optimizations are in place.
 - Check the latest version that it is greater than 5.2.8
 - Check to make sure the phpinfo() file runs
 - This means that php was installed succesfully

URL Rewrite

- **URL Rewrite Not Natively Handled**
 - IIS does not handle the rewriting of rules as found in the Apache web server.
- **Create a web.config**
 - This file should reside in the base folder
 - Catalog/web.config
- **Copy and Paste**
 - Copy and past the necessary rules for the CakePHP site into the web.config.
 - <http://alturl.com/to9z4> (CakePHP's URL Rewrite Page)

Common Issues & Mistakes

■ Below is List of Common Installation Problems

- Database won't connect
 - Did you create the database?
 - Did you create new user?
 - Did you give that user permissions for the new database?
 - Did you type the user name and password correctly?
 - Use the root/password to see if that will connect properly. If it does then there is something wrong with your username
- My styles are not showing
 - IIS Server
 - Did you install the web.config with the xml rules?
 - Did you install URL Rewrite for your IIS server?
 - Apache
 - Did you set the "AllowOverride" to be "All" in your VirtualHost?

Summary

- **Installed CakePHP on...**
 - Linux
 - Linux with NetBeans
 - Windows
 - Windows with NetBeans
 - Windows with IIS Server
- **URL/Virtual Host**
 - Set up on each Install for pretty URLs