## **Deploy an Application Using Git**

Git is a popular distributed version control system. As you work with XAMPP, you might often find yourself needing to download and install applications or code libraries from a developer's public git repository.

This guide walks you through the process, showing you how to use a git client to transfer code from a public online git repository to your XAMPP server. As an example, this guide assumes that you wish to download the latest version of Slim, a popular PHP micro-framework for Web application development that also has its own Github repository.

**NOTE** This guide uses the command-line git client for Linux. If you don't already have this, you can install it easily by running the command *sudo apt-get install git* or *sudo yum install git* from your Linux terminal.

To download files with git, you must first ensure that you have privileges to write to the *htdocs*/subdirectory of the XAMPP installation directory (typically, */opt/lampp*). Follow these steps:

- 1. Open a new Linux terminal and ensure you are logged in as root.
- 2. Create a new group named *gitusers*. This group will contain those user accounts allowed to download files via git.

😣 🗐 🗊 root @	kampp: ~			
root@xampp:~# root@xampp:~#	groupadd	gitusers		

aroupadd aitusers

3. Add your account (in this example, *susan*) to the new group. Add other users if needed.





4. Change the ownership and permissions of the *htdocs*/ subdirectory so that it is writable by the the new *gitusers* group.



TIP If you're using XAMPP in a single-user scenario and there will only be one user downloading files via git, you can skip creating a new group and instead simply transfer full ownership of the *htdocs*/ directory to that user. To do this, use a command like *chown susan.susan htdocs*.

To download Slim (or any other application) from its git repository, follow these steps:

- 1. Ensure that your Apache server is running and that you are logged in as a member of the *gitusers* group.
- 2. Obtain the repository's clone URL. On Github, this can be easily obtained by visiting the project's Github page and copying the clone URL from the right side of the page. For third-party or private git repositories, you can obtain the clone URL by asking the project team directly. Make a note of the clone URL, as you'll

## need it in subsequent steps.

GitHub This repos	sitory Search	Explore Features	Enterprise Blog	Sign up Sign in
Codeguy / Slim				★ Star 4,175 ¥ Fork 727
A PHP micro framework	http://www.slimframework.com			0.6-4-
31,352 commits	₽ 2 branches	℅ 54 releases	74 contributors	() Code
				Issues 37
👔 🕼 branch: master 🗸	Slim / +			1) Pull Requests 50
Merge pull request #897 from	m tuupola/896-windows-directory-separ	ator		EE Wiki
silentworks authored on	Sep 23	10	est conmit 52de96e428	8
🖿 Slim	Merge lost branch 'release-2.4.1' into	release-2.4.3	8 months ag	10 - Pulse
🖿 tests	Use DIRECTORY_SEPARATOR instead of / in test. Fixes codeguy/Slim/#096.		196. 2 months ag	Lis Granhe
📄 .gitignore	Ignore PHPStorm .idea config		7 months ag	10
.htaccess	Manually update htaccess and serve	r preperation docs in README	3 years ag	0 HTTPS clone URL
🖹 .travis.yml	Try running unit tests on HH∨M		11 months ag	10 :om/codeguy/Slim.git
	Add contributing file		a year ag	10 Subversion. ③
LICENSE	Bump copyright		2 years ag	Clone in Desktop
README.markdown	Clarify apache setup		7 months ag	Download ZIP
E composerison	Remove morvet dependency		11 months ar	

- 1. Open a new Linux terminal.
- 2. Change to the *htdocs/* subdirectory of your XAMPP installation directory (typically, */opt/lampp*). Use the following command to clone the remote repository, remembering to replace the clone URL in the example below with the URL you obtained in the first step.

git clone https://github.com/codeguy/Slim.git



The git client will begin downloading the code from the remote repository.

3. Once the process is complete, you should see a new directory containing the downloaded code, and you can now begin using it.

In this particular case, since the Slim framework includes a starter application, you can simply browse to the URL http://localhost/Slim and you should see the example application's welcome page, as shown below.

😣 🖨 💿 Slim Framework for PHP 5 - Mozilla Firefox								
🙁 Slim Framework for × 🕂								
♦ ● localhost/Slim/	- C ↓							
Slim								
Welcome to Slim!								
Congratulations! Your Slim application is running. If this time using Slim, start with this <u>"Hello World" Tutorial</u> .	is your first							
Get Started								
<ol> <li>The application code is in <u>index.php</u></li> <li>Read the <u>online documentation</u></li> <li>Follow <u>@slimphp</u> on Twitter</li> </ol>								

NOTE

You can use the git command-line client to create a new branch of the codebase should you wish to make any changes to it. If you have appropriate privileges, you can also commit your changes back to the remote repository. Learn more about the git command-line client.