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.

groupadd gituser	S	
<mark>⊗</mark> ⊜© root@xampp root@xampp:~# <u>g</u> rou		
root@xampp:~#	Jee Jeeser J	

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

😣 🖨 🗉 root@>	(ampp: ~			
root@xampp:~# root@xampp:~#	usermod -	a -G gitusers	susan	

usermod -a -G gitusers susan

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	Itory Search Explore Features	Enterprise Blog	Sign up Sign in	
codeguy / Slim			★ Star 4,175 ¥ Fork 727	
PHP micro framework	http://www.slimframework.com		⇔ Code	
I,352 commits	₽ 2 branches 📎 54 releases	74 contributors	() Issues 37	
🗘 🖗 branch: master 🕶	Slim /+		E 11 Pull Requests 50	
Merge pull request #897 from	n tuupola/896-windows-directory-separator		III Wiki	
silentworks authored on	Sep 23 Lat	test commit 52de96e428	3	
Slim	Merge lost branch 'release-2.4.1' into release-2.4.3	8 months ag	• A Pulse	
tests	Use DIRECTORY_SEPARATOR instead of / in test. Fixes codeguy/Slim/#996. 2 months ago		0 Lt. Conto	
gitignore	Ignore PHPStorm .idea config	7 months ag	di Graphs	
.htaccess	Manually update htaccess and server preperation docs in README	3 years ag	0 HTTPS clone URL	
.travis.yml	Try running unit tests on HHVM	11 months ag	0 :om/codeguy/Slim.git	
CONTRIBUTING.md	Add contributing file	a year ag	0 Subversion. 3	
LICENSE	Bump copyright	2 years ag	Clone in Desktop	
README markdown	Clarify apache setup	7 months ag	 Ownload ZIP 	
Composer ison	Remove movint dependency	11 months an	•	

- 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	
Susan@xampp:/opt/lampp/htdocs susan@xampp:~\$ cd /opt/lampp/htdocs/	
susan@xampp:/opt/lampp/htdocs\$ git clone https://github.com/codeguy/Slim. Cloning into 'Slim' remote: Counting objects: 8866, done.	git
Receiving objects: 81% (7182/8866), 2.20 MiB 206.00 KiB/s	

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.

	Framework for PHP 5 - Mozilla Firefox		
Slim Fram	ework for × 🕂		
🗲 🛞 localhos	t/Slim/	▼ Cª	+
	Slim		
	Welcome to Slim!		
	Congratulations! Your Slim application is running. If this is your first time using Slim, start with this <u>"Hello World" Tutorial</u> .		
	Get Started		
	1. The application code is in index.php		
	2. Read the <u>online documentation</u>		
	3. Follow <u>@slimphp</u> on Twitter		

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.