

## XAMPP and MediaWiki Installation Guide

**This installation documentation is only a reference. Some information might be different for different OS and versions. Please follow the installation guidelines during the installation.**

A first Note: You installed Apache server for homework1. This XAMPP installation also has Apache included. It means that you will have two Apache server on your computer after the XAMPP installation. So there will be a port number conflict. You can do one of the following to solve the conflict.

1. Edit ...\\xampp\\apache\\conf\\httpd.conf file and change the "Listen 80" to "Listen 81. So the previous installed Apache uses 80, and the new Apache under XAMPP uses 81.
2. Or you can uninstall Apache you installed for HW1 but copy your web site content to the corresponding htdoc directory under ...\\xampp\\...
3. You might want use approach 1 first. It requires less work and is less destructive. You can take approach 2 later when you have more time, or when you encounter any problem by taking approach 1.

### Steps to Install XAMPP

Go to <https://www.apachefriends.org/index.html> and download XAMP. Select a correct version for your computer. You can click the video play button below to watch the brief introduction to XAMPP



# XAMPP Apache + MariaDB + PHP + Perl

## What is XAMPP?

XAMPP is the most popular PHP development environment

XAMPP is a completely free, easy to install Apache distribution containing MariaDB, PHP, and Perl. The XAMPP open source package has been set up to be incredibly easy to install and to use.

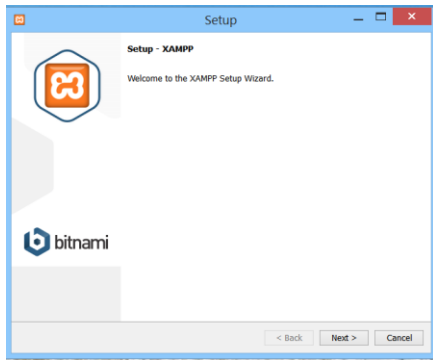


**Download**  
Click here for other versions

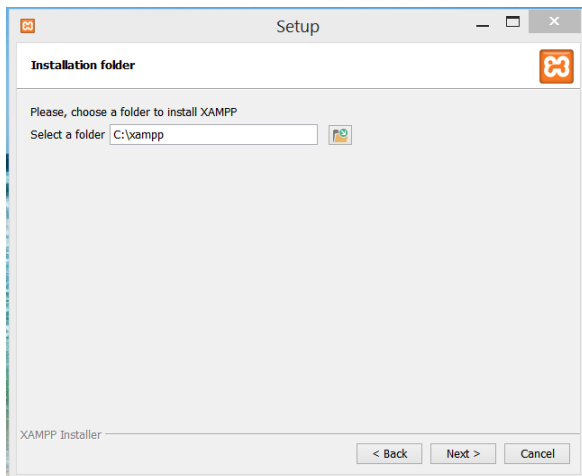
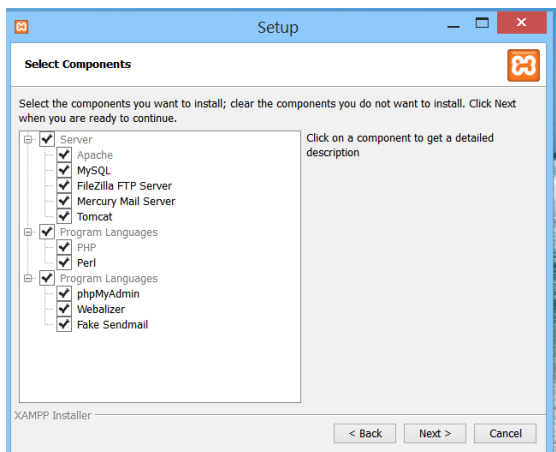
 XAMPP for Windows  
v5.6.30 (PHP 5.6.30)

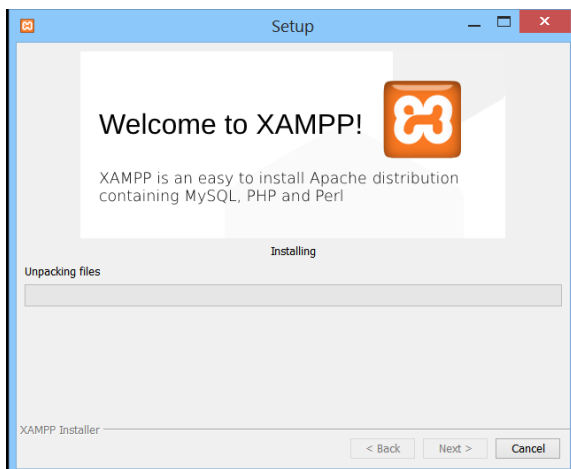
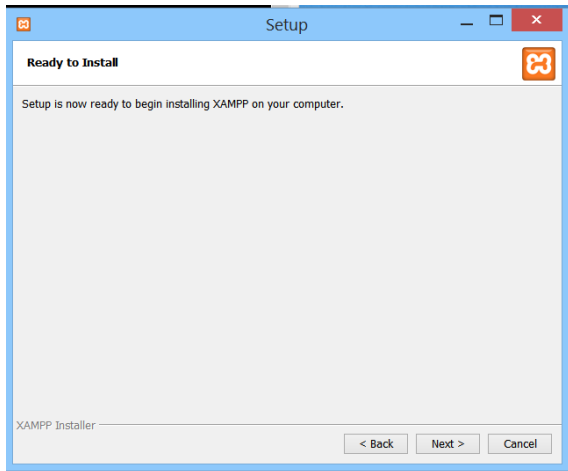
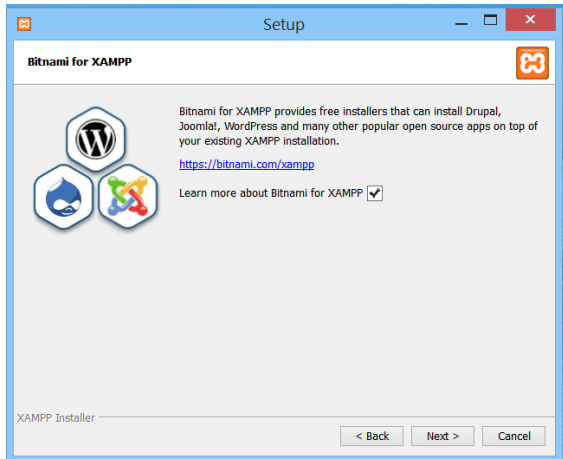
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v5.6.30 (PHP 5.6.30)

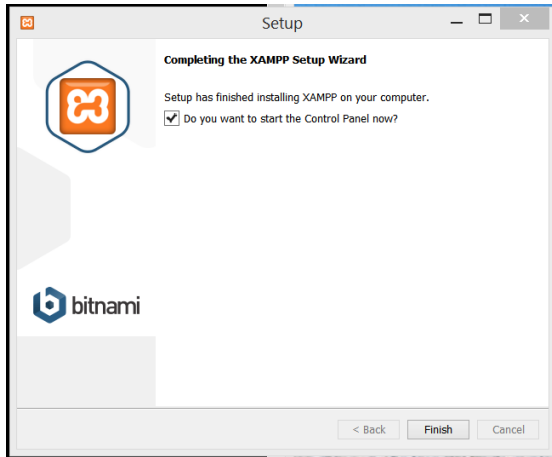
 XAMPP for OS X  
v5.6.30 (PHP 5.6.30)



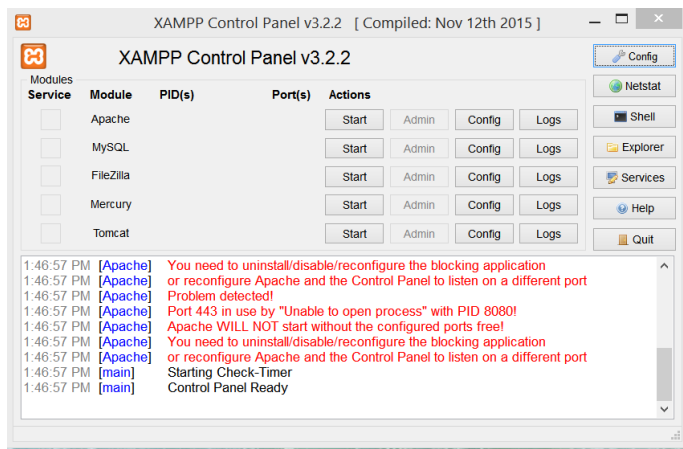
Just keep the default. It should be fine.



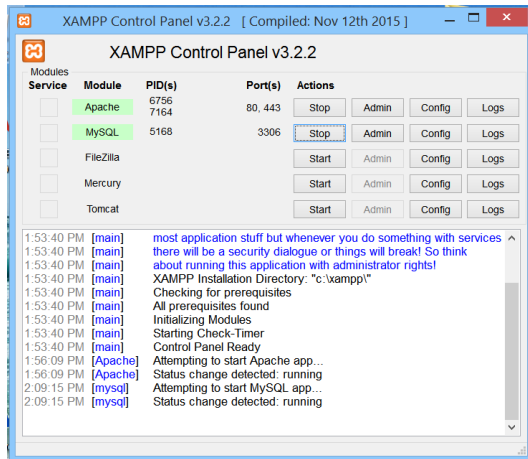




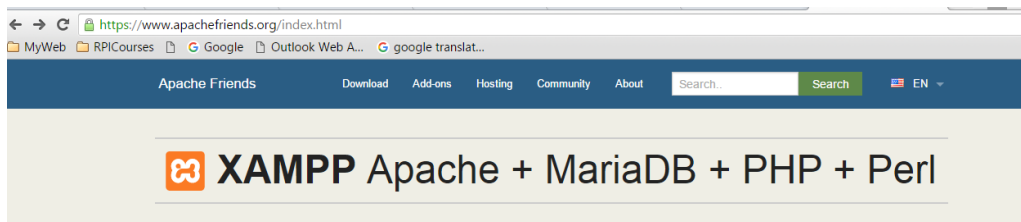
If you click the Finish button with the box checked in the above window, you then should see the following XAMPP control panel. You may or may not see the same message as shown in the panel. If you see the message, you have a previous installed Apache server running. You need to open the Task Manager or the window's Service Manager to kill the running Apache process. Then restart the Apache from the XAMPP control panel by clicking the Start button. You want to use the Apache server installed with the XAMPP to support MediaWiki to keep the integrity of the file directory structure. You can click Stop button to stop programs. (XAMPP's Quit button only quits the controller panel but not the server running.) To use MediaWiki, you must start both Apache and MySQL.



From XAMPP control panel, click on the "Start" Apache button and the "Start" MySQL button.



Now, you can open your browser and type “localhost” on your browser. The following webpage should display.



## Install MediaWiki

There are two approaches to do this. (Note: a different approach will possibly install the MediaWiki at different directory location.)

### **Approach 1: Use bitnami installer to install MediaWiki.**

It will also create the database to use for the MediaWiki

Go to the website: <https://www.apachefriends.org/index.html>

Then click on the Add-ons icon on the top of the menu bar and popup the following add-ons application page. Click on the MediaWiki icon, select the installer for your operating system. For example, bitnami-mediawiki-1.28.0-0-module-windows-installer (for windows).



MediaWiki  
Wiki

https://bitnami.com/stack/xampp#mediawiki

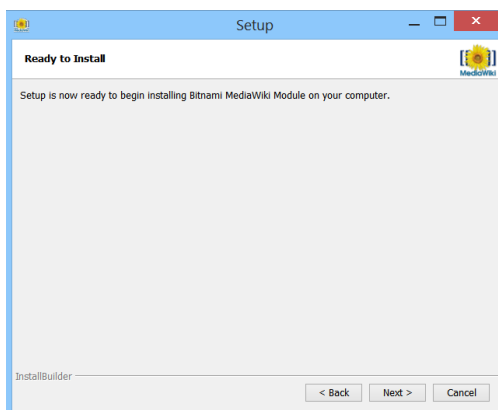
bitnami applications cloud enterprise support what is bitnami? Log in Create Free Account

### MediaWiki

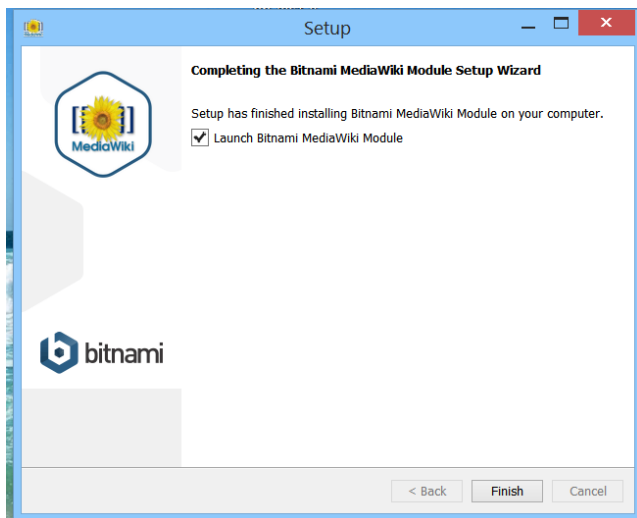
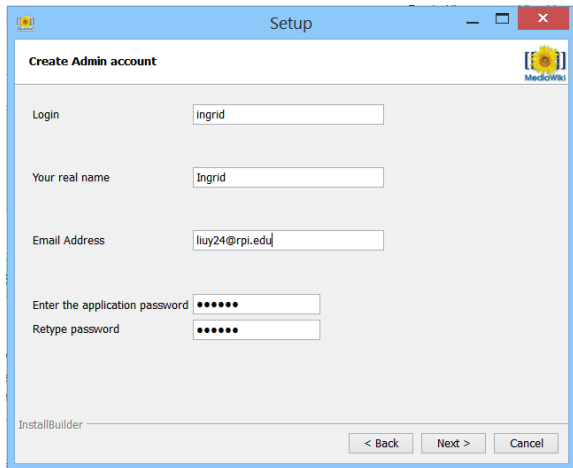
MediaWiki is a wiki package originally written for Wikipedia. MediaWiki is an extremely powerful, scalable software and a feature-rich wiki implementation.

Version	Platform	Size	Checksum	
MediaWiki Module 1.26.2-1	Windows	32 MB	show	<a href="#">Download</a> Recommended
MediaWiki Module 1.26.2-1	Linux 64-bit	31 MB	show	<a href="#">Download</a>
MediaWiki Module 1.26.2-1	Linux	29 MB	show	<a href="#">Download</a>
MediaWiki Module 1.26.2-1	OS X 64-bit	33 MB	show	<a href="#">Download</a>

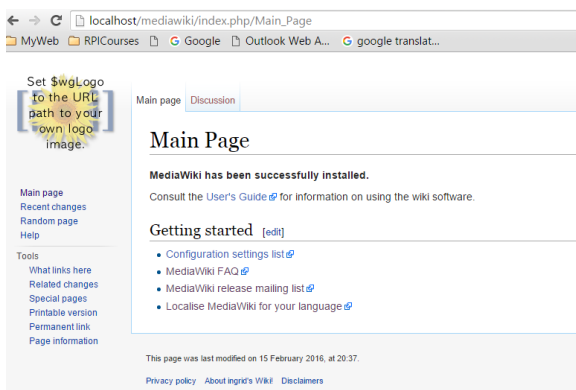
The installer installs and sets up the MediaWiki, and create a bitname\_mediawiki database on your computer.



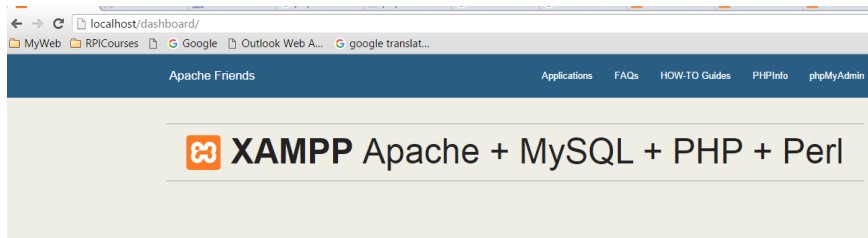
During the install and setup, you need to create a login for the wiki's admin account. A screenshot is shown below:



After the successful installation, you will be able to see the <http://localhost/mediawiki/> as the follows:



You can also click **phpMyAdmin** icon on the top-right to check the database installed. Bitnami\_mediawiki is installed for the MediaWiki. (The MySQL database management system is installed with the XAMPP.)

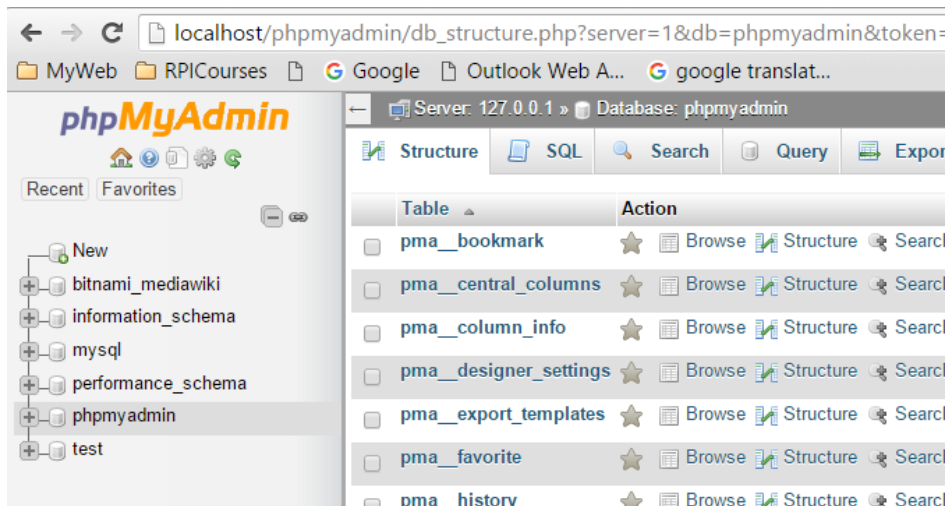


## Welcome to XAMPP for Windows 5.6.12

You have successfully installed XAMPP on this system! Now you can start using Apache, MySQL, PHP and other components. You can find more info in the FAQs section or check the HOW-TO Guides for getting started with PHP applications.

Start the XAMPP Control Panel to check the server status.

Community



The MediaWiki file system is installed into `C:\xampp\apps\mediawiki`, and the default wiki logo is stored as `"C:\xampp\apps\mediawiki\htdocs\skins\MonoBook\wiki.png"`

### **An alternative approach 2:**

In this approach, you will create/setup the wiki's database manually through the following steps after installing XAMPP on your computer.

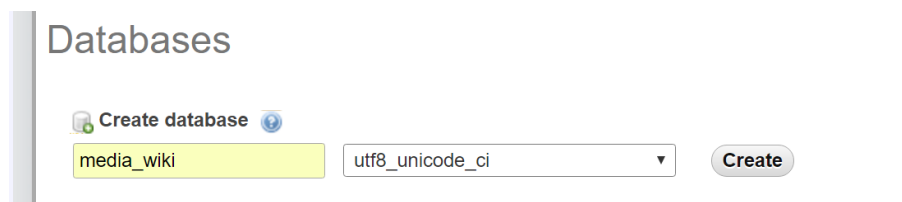
## 1. Creating your wiki database

- Start XAMPP if it is not running
- Start Apache and MySQL from XAMPP panel if they are not running
- Direct your browser to the XAMPP dashboard. The web address is depends on your setup, such as,

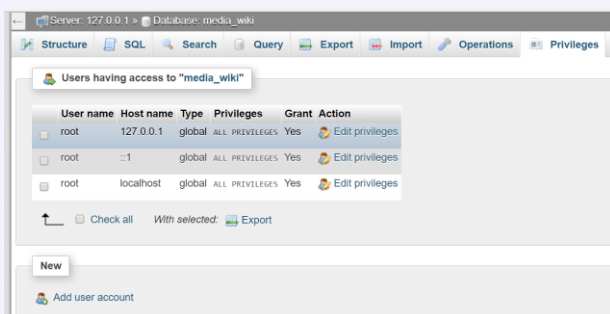
<http://localhost:80/dashboard>, <http://localhost/dashboard>, or <http://mywebsite/dashboard/>



- Click on the **phpMyAdmin** on the top menu
- Sign in if you are not running the XAMPP program as administrator
- Create a new database by clicking the “New” button at the left-side Navigation bar (Its screen layout could be different depending on your computer system and the XAMPP version.)
- Enter a database name e.g. mediawiki, select a collation e.g. if your wiki is using utf8 for its default charset then choose utf8\_unicode\_ci)
  - From MySQL docs: A character set is a set of symbols and encodings. A **collation** is a set of rules for comparing characters in a character set.

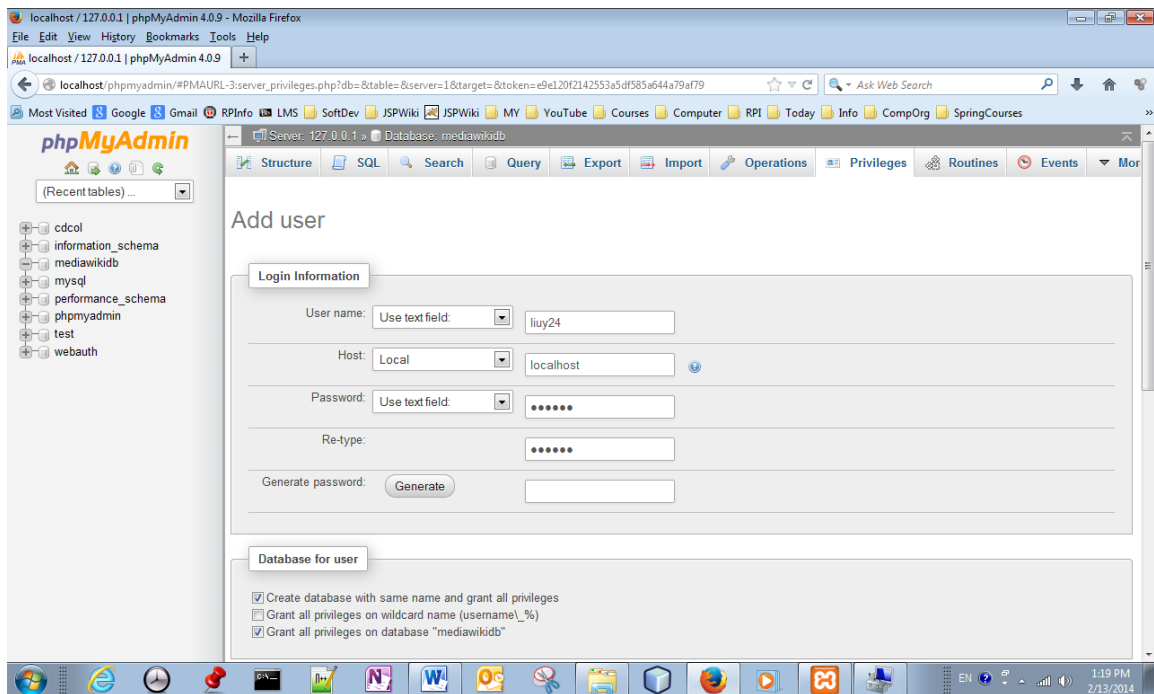
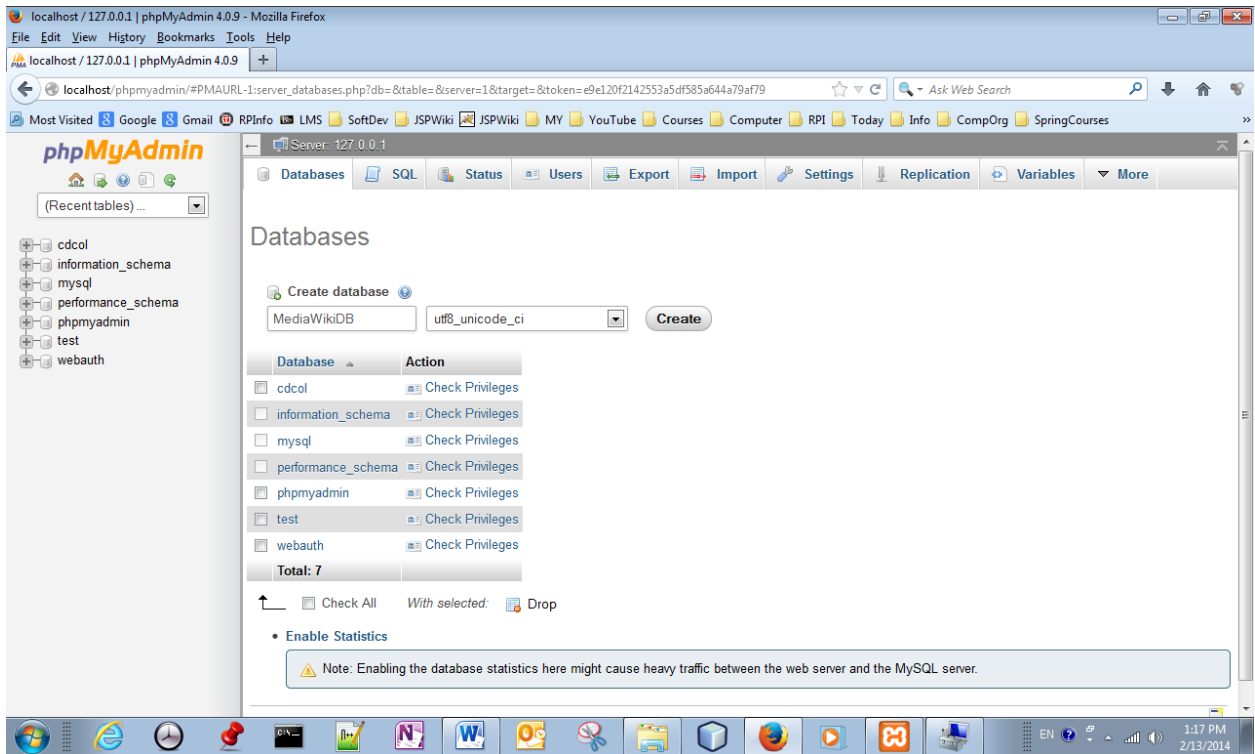


- The click the **Create** button
- Go into the new database and click on **Privileges** on the top bar.
- Then click **Add user account located in the New area at the bottom of the Privileges page**



- Enter a name for the user (e.g., wikiuser) and a password. You can leave all the rest blank. You may want to write down your database name, user name, and password, because you'll need those to install MediaWiki.
  - mediawiki/localhost/mediawiki/mediawiki
  - User addount 'mediawiki@localhost'
- Click all check boxes of the **“Global privileges”** and the check box for **“Grant all privileges on database “xxx”**

- Click **Go** button at the bottom.



localhost / 127.0.0.1 | phpMyAdmin 4.0.9 - Mozilla Firefox

localhost / 127.0.0.1 | phpMyAdmin 4.0.9

localhost/phpmyadmin/#PMAURL=3:server\_privileges.php?db=&table=&server=1&target=&token=e9e120f2142553a5df585a644a79af79

Server: 127.0.0.1 Database: mediawikidb

Structure SQL Search Query Export Import Operations Privileges Routines Events More

```

CREATE USER 'liuy24'@'localhost' IDENTIFIED BY '****';
GRANT USAGE ON *.* TO 'liuy24'@'localhost' IDENTIFIED BY '****' WITH MAX_QUERIES_PER_HOUR 0 MAX_CONNECTIONS_PER_HOUR 0
MAX_UPDATES_PER_HOUR 0 MAX_USER_CONNECTIONS 0 ;
CREATE DATABASE IF NOT EXISTS `liuy24` ;
GRANT ALL PRIVILEGES ON `liuy24`.* TO 'liuy24'@'localhost';

```

[ Edit ] [ Create PHP Code ]

Users having access to "mediawikidb"

User	Host	Type	Privileges	Grant	Action
liuy24	localhost	database-specific	ALL PRIVILEGES	No	Edit Privileges
root	127.0.0.1	global	ALL PRIVILEGES	Yes	Edit Privileges
root	:::1	global	ALL PRIVILEGES	Yes	Edit Privileges
root	localhost	global	ALL PRIVILEGES	Yes	Edit Privileges

New

Add user

XAMPP Control Panel v3.2.1 [ Compiled: May 7th 2013 ]

### XAMPP Control Panel v3.2.1

Config Netstat Shell Explorer Services Help Quit

Service	Module	PID(s)	Port(s)	Actions
<input type="checkbox"/>	Apache	6576 4636	80, 443	Stop Admin Config Logs
<input type="checkbox"/>	MySQL	4492	3306	Stop Admin Config Logs
<input type="checkbox"/>	FileZilla			Start Admin Config Logs
<input type="checkbox"/>	Mercury			Start Admin Config Logs
<input type="checkbox"/>	Tomcat			Start Admin Config Logs

```

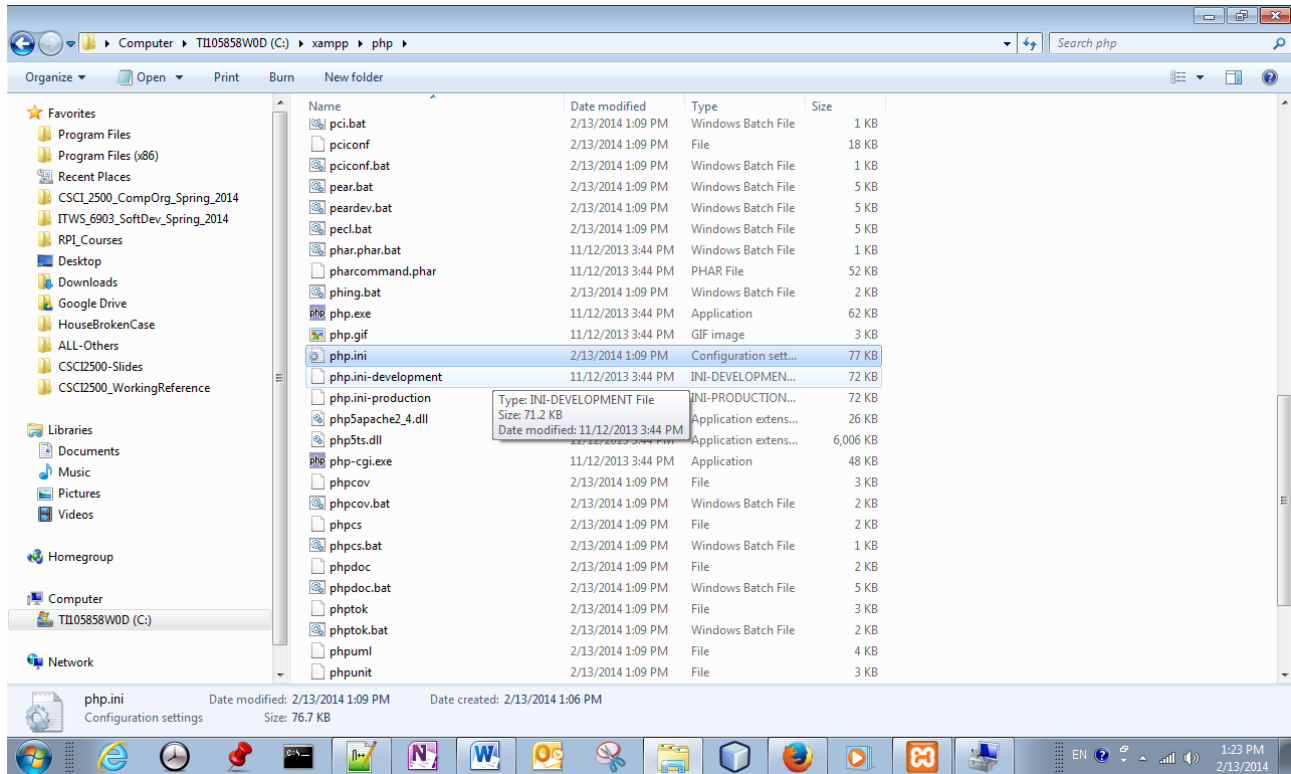
1:10:08 PM [main] Initializing Control Panel
1:10:08 PM [main] Windows Version: Windows 7 Ultimate SP1 64-bit
1:10:08 PM [main] XAMPP Version: 1.8.3
1:10:08 PM [main] Control Panel Version: 3.2.1 [ Compiled: May 7th 2013 ]
1:10:08 PM [main] You are not running with administrator rights! This will work for
1:10:08 PM [main] most application stuff but whenever you do something with services
1:10:08 PM [main] there will be a security dialogue or things will break! So think
1:10:08 PM [main] about running this application with administrator rights!
1:10:08 PM [main] XAMPP Installation Directory: "c:\xampp\"
1:10:08 PM [main] Checking for prerequisites
1:11:43 PM [main] All prerequisites found
1:11:43 PM [main] Initializing Modules
1:11:43 PM [main] Starting Check-Timer
1:11:43 PM [main] Control Panel Ready
1:13:21 PM [Apache] Attempting to start Apache app...
1:13:21 PM [Apache] Status change detected: running
1:13:33 PM [mysql] Attempting to start MySQL app...
1:13:33 PM [mysql] Status change detected: running

```

## 2. Editing PHP.ini

To make sure that the Apache HTTP server does not time out during the creation of the databases, modify the php.ini config file:

1. Open the php.ini file using your favorite text editor and find the following section and change to **max\_execution\_time = 600**
2. Save the file and restart Apache



```

C:\xampp\php\php.ini - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
Services.txt php.ini
437 ; Default: ""
438 ;zend.script_encoding =
439
440 ;;;;;;;;;;;;;;;;;;
441 ; Miscellaneous ;
442 ;;;;;;;;;;;;;;;;;;
443
444 ; Decides whether PHP may expose the fact that it is installed on the server
445 ; (e.g. by adding its signature to the Web server header). It is no security
446 ; threat in any way, but it makes it possible to determine whether you use PHP
447 ; on your server or not.
448 ; http://php.net/expose-php
449 expose_php=On
450
451 ;;;;;;;;;;;;;;;;;;
452 ; Resource Limits ;
453 ;;;;;;;;;;;;;;;;;;
454
455 ; Maximum execution time of each script, in seconds
456 ; http://php.net/max-execution-time
457 ; Note: This directive is hardcoded to 0 for the CLI SAPI
458 max_execution_time=600
459
460 ; Maximum amount of time each script may spend parsing request data. It's a good
461 ; idea to limit this time on productions servers in order to eliminate unexpectedly
462 ; long running scripts.
463 ; Note: This directive is hardcoded to -1 for the CLI SAPI
464 ; Default Value: -1 (Unlimited)

```

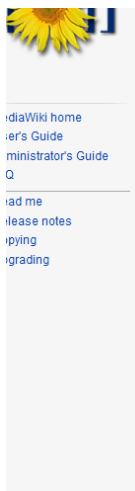
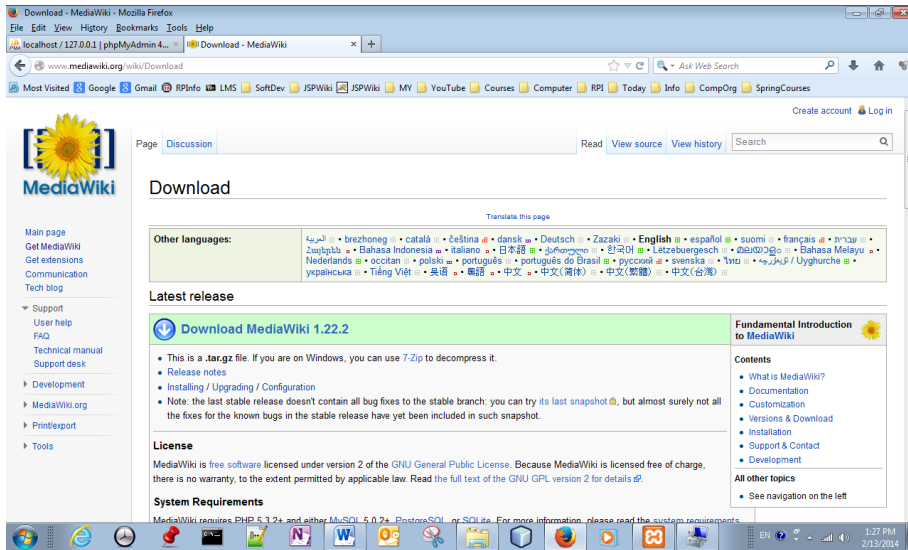
### 3. Install MediaWiki

<http://www.mediawiki.org/wiki/Download> (Could be newer versions.)

## MediaWiki



Version	Platform	Size	Checksum		
MediaWiki Module 1.22.2-0	Windows	26 MB	show	<a href="#">Download</a>	Recommen
MediaWiki Module 1.21.3-0	Windows	19 MB	show	<a href="#">Download</a>	
MediaWiki Module 1.22.2-0	Linux	25 MB	show	<a href="#">Download</a>	
MediaWiki Module 1.21.3-0	Linux	19 MB	show	<a href="#">Download</a>	
MediaWiki Module 1.22.2-0	Linux 64-bit	26 MB	show	<a href="#">Download</a>	
MediaWiki Module 1.21.3-0	Linux 64-bit	19 MB	show	<a href="#">Download</a>	
MediaWiki Module 1.22.2-0	OS X 64-bit	34 MB	show	<a href="#">Download</a>	



## Setting up Mediawiki

Extract all your Mediawiki files and folders into a subfolder e.g. mywiki\ of the htdocs folder, wherever that is e.g. c:\xampp\htdocs\ (You can name your wiki site differently.)

- Direct your browser to the appropriate page, e.g. <http://localhost:80/mediawiki>
- Follow the Mediawiki installer's instructions, entering the database name, user name, and password you wrote down during the "creating your database" step above.
- If you enabled the "[security](#)" option, then you need to **Use superuser account**. This means the MySQL root account and its password.
- After Mediawiki tells you that everything went smoothly, save your [LocalSettings.php](#) file to your wiki's root folder, e.g. c:\xampp\htdocs\mywiki.

- Direct your browser once again to the appropriate page, e.g. <http://localhost/mywiki>. It should take you to the Main Page of your new wiki.

### **Setup to upload a file or an image to the wiki**

1) Go to the directory contains file " LocalSettings.php", such as:  
`xampp/htdocs/mediawiki/LocalSettings.php`

Change: `$wgEnableUploads = false` To: `$wgEnableUploads = true;`

2) Go to your Mediawiki site and LOG IN. If you do not have an account yet, make one.

3) Upload button should now be available. You can upload various file types and give them a destination filename, which the MediaWiki will refer to.