

BitNami WAMPStack 1.2-0

Quick Start Guide

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Release 1.2-0 2009/09/10

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<http://bitnami.org>

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Acknowledgements

BitNami WAMPStack is based on a number of open source components:

The Apache HTTP server, developed by The Apache Software Foundation.

<http://www.apache.org/>.

MySQL. The world's leading open source database.

<http://www.mysql.com>

PHP. The widely used scripting language.

<http://www.php.net>.

The open source browser-based MySQL management tool phpMyAdmin.

<http://www.phpmyadmin.net>

jpegsrc. Software developed by the The Independent JPEG Group.

<http://www.ijg.org>

The gd graphics library.

<http://www.boutell.com/gd/>

The zlib data-compression library.

<http://www.zlib.net>

You can find the individual licenses for the above projects as part of the installation.

BitNami WAMPStack Overview

BitNami WAMPStack is an easy to install and easy to use open source Web Platform. It combines leading open source projects, such as Apache, MySQL and PHP with BitNami's extensive open source expertise to provide a consistent, painless way to deploy WAMP in any Windows.

Components

BitNami WAMPStack includes **Apache 2.2.13**, **MySQL 5.1.30**, **PHP 5.2.10** and **phpMyAdmin 2.11.9.4**.

Apache is the most popular HTTP server on the Internet. It provides a secure, efficient and extensible web platform. It is maintained by the Apache Software Foundation. You can find more information about Apache at <http://www.apache.org>.

MySQL is the world's most popular open source database. It is a relational database management system that combines speed, reliability and ease of use. It is developed and maintained by MySQL AB. You can find more information about MySQL at <http://www.mysql.com>.

PHP is a web development scripting language that can be embedded into HTML. Powerful and easy to use, it is the most popular Apache module. It is maintained by the PHP Group. You can find more information about PHP at <http://www.php.net>.

phpMyAdmin is a tool written in PHP intended to handle the administration of MySQL through a web interface. It allows you to manage anything from a single database to a complete MySQL server. You can find more information about phpMyAdmin at <http://www.phpmyadmin.net>.

Requirements

To run BitNami WAMPStack you will need:

- Intel x86 or compatible processor
- Minimum of 256 MB RAM
- Minimum of 150 MB hard drive space
- A 32-bit Windows operating system such as Windows 2000, XP, Vista, or Windows Server 2003
- TCP/IP protocol support

Installation Guide

This section describes where to download BitNami WAMPStack and the different installation modes that are available.

Downloading BitNami WAMPStack

You can download the BitNami WAMPStack binary file from <http://bitnami.org>. It will be named `bitnami-wampstack-1.2-0-windows-installer.exe`

Installing BitNami WAMPStack

Graphical Mode

To begin the installation process, double-click on the file from your Desktop environment.

You will be greeted by the 'Welcome' screen. The next step is to select the installation directory. If the destination directory does not exist, it will be created as part of the installation.

After selecting the installation directory you will be asked for the password to the initial MySQL root and anonymous accounts. This password cannot be empty.

The default listening port for Apache is 80 and for MySQL is 3006. If those ports are already in use by other applications, you will be prompted for alternate ports to use.

Finally, the installer will ask you for the initial password to access the your phpMyAdmin installation through the web. This password cannot be empty.

You are now ready to begin the installation, which will start when you press 'Next'. Once the installation process has been completed, you will see the 'Installation Finished' page. You can launch the browser at this point.

If you receive an error message during installation, please refer to the Troubleshooting section.

The rest of this guide assumes that you installed BitNami WAMPStack in `C:\Program Files\BitNami WAMP Stack` and that you use port 80 for Apache and 3306 for MySQL.

Directory Structure

The installation process will create several subfolders under the main installation directory:

- `apache2/`: Apache Web server.
- `php/`: PHP Scripting Language.
- `mysql/`: MySQL Database.
- `common/`: common libraries.
- `licenses/`: Licenses of the components included in WAMPStack.
- `apps/phpMyAdmin/`: Management tool for MySQL.

Uninstalling BitNami WAMPStack

As part of the installation, an uninstall program will be created at `C:\Program Files\BitNami WAMP Stack`. The uninstallation can also be performed in graphical, text and unattended modes. You can run the uninstaller by double-clicking on the uninstall application.

Apache Web server

This section describes how to start Apache for the first time and gives a basic introduction to the Apache configuration and log files.

Starting Apache

You can start BitNami WAMP Stack using the shortcuts created in the Start Menu, under Programs -> BitNami -> BitNami Service

This indicates the server is up and running. You can test so by opening a browser and accessing the following URL `http://127.0.0.1:80`, which will take you to the test page.

If you receive an error message, the server cannot start or you cannot see the test page, please refer to the Troubleshooting section.

Stopping Apache

You can stop BitNami WAMP Stack using the shortcuts created in the Start Menu, under Programs -> BitNami -> BitNami Service

Apache Basic Configuration

The main Apache configuration file is called `httpd.conf` which you can find at `C:\Program Files\BitNami WAMP Stack\apache2\conf\httpd.conf`.

Once Apache starts, it will create two log files, the `access_log` and the `error_log`. You can find both files at the `C:\Program Files\BitNami WAMP Stack\apache2\logs` directory.

The `access_log` file is used to track client requests. When a client requests a document from the server, Apache records several parameters associated with the request in this file, such as: the IP address of the client, the document requested, the HTTP status code, and the current time.

The `error_log` file is used to record important events. This file includes error messages, startup messages, and any other significant events in the life cycle of the server. This is the first place to look when you run into a problem when using Apache.

If you already have a web page and you want to serve its content with Apache, you can do so simply by copying your files to the default document root directory: `C:\Program Files\BitNami WAMP Stack\apache2\htdocs\`.

With the default configuration, Apache will wait for requests in the port 80. You can change that by editing the `httpd.conf` file and modifying the value specified in the `Port` directive.

You can find more information about Apache in the technical documentation that is located in the `C:\Program Files\BitNami WAMP Stack\apache2\htdocs\manual` directory.

MySQL Database

This section describes how to start the MySQL database and gives you a few basic security tips. You can find the MySQL technical documentation at <http://dev.mysql.com/doc/>.

Securing Your Installation

MySQL's grant tables are created during the BitNami WAMPStack installation process. The grant tables define the initial MySQL user accounts and their access privileges. The default configuration consists of:

- Two privileged accounts with a username of 'root'. The initial passwords for these two accounts are the ones that you specified in the setup wizard.
- Two anonymous-user accounts, both with an empty username. The initial passwords for these two accounts are the ones that you specified in the setup wizard.

It is strongly recommended that you do not have empty passwords for any user accounts before using the server for any production work.

Starting MySQL

You can stop BitNami WAMP Stack using the shortcuts created in the Start Menu, under Programs -> BitNami -> BitNami Service

You can verify that MySQL is up and running using `mysqladmin`, for example, issuing:

```
C:\Program Files\BitNami WAMP Stack\mysql\bin\mysqladmin.exe -p version
```

You will then be asked for the anonymous user password you set during the installation process.

Once the MySQL server has been started, you can test that you can retrieve information from the server using the following examples:

```
C:\Program Files\BitNami WAMP Stack\mysql\bin\mysqlshow.exe -p
```

You will then be asked for the anonymous user password you set during the installation process.

```
C:\Program Files\BitNami WAMP Stack\mysql\bin\mysqlshow.exe -u root -p mysql
```

You will then be asked for the root user password you set during the installation process.

Stopping MySQL

You can stop BitNami WAMP Stack using the shortcuts created in the Start Menu, under Programs -> BitNami -> BitNami Service

PHP

This section describes how to test your PHP installation. You can find the PHP technical documentation at <http://www.php.net/manual/en/index.php>

Testing Your Installation

The easiest way to test your PHP installation is to create a test script using the `phpinfo()` function. Open your favorite text editor and type:

```
<?php phpinfo(); ?>
```

Save the file as `phptest.php` in `C:\Program Files\BitNami WAMP Stack\apache2\htdocs\`. Make sure Apache is up and running, open a browser and type `http://127.0.0.1:80/phptest.php`. You should then see a screen showing detailed information about the PHP version you are using.

phpMyAdmin

This sections describes how to access your phpMyAdmin installation. You can find more information about phpMyAdmin in http://www.phpmyadmin.net/home_page/docs.php

phpMyAdmin is an easy to use management tool for MySQL that allows you to create and drop databases, create, drop and modify tables, delete, edit and add fields, execute SQL statements, manage keys on fields, manage privileges and export data in various formats through a web-based interface.

Access to phpMyAdmin

To test your phpMyAdmin installation first make sure that your Apache and MySQL servers are up and running. You can access your phpMyAdmin installation by opening a browser and typing `http://127.0.0.1:80/phpmyadmin`. You will then asked for a username and password. As user name, use "**administrator**" and as password use the value specified during installation.

Initially only requests from 127.0.0.1 will be allowed access to that section. You can change this behavior editing the Apache main configuration file located at `C:\Program Files\BitNami WAMP Stack\apache2\conf\httpd.conf`.

Troubleshooting

This section describes some of the most common problems you may find when installing BitNami WAMPStack.

Installer

Installer Payload Error

You may get the following error while trying to run the installer from the command line:

```
Installer payload initialization failed. This is likely due to an incomplete or corrupt downloaded file.
```

The installer binary is not complete, likely because the file was not downloaded correctly. You will need to download the file and repeat the installation process.

Installation does not complete and hangs at the end forever.

You are probably overwriting a previous WAMPStack installation and therefore a previous MySQL with a different MySQL root password. Remove or move your previous WAMPStack installation and try to install WAMPStack again.

Apache

If you find any problem starting Apache, the first place you should look at is the error log file that will be created at `C:\Program Files\BitNami WAMP Stack\apache2\logs\error_log`. There you will likely find useful information to determine what the problem may be. For issues not covered in this Quick Start guide, please refer to the Apache documentation included as part of the installation, which is located at `C:\Program Files\BitNami WAMP Stack\apache2\htdocs\manual`.

Test page is not working

If the server seems to start correctly but you cannot see the test page when you type `http://127.0.0.1:80/` in your browser, it may be that there is already a server running in that port.

Search `C:\Program Files\BitNami WAMP Stack\apache2\logs\error_log` for a message similar to this:

```
[Mon Oct 9 19:52:10 2007] [crit] (98)Address already in use: make_sock: could not bind to port 80
```

This means that the port 80 is already being used by another program. You can either stop the program that is using that port or edit the `httpd.conf` configuration file and change the port Apache will listen for requests in.

MySQL

If you encounter any problems starting MySQL, the first place to look in is the "Problems and Common Errors" section of the MySQL manual, which you will find at <http://dev.mysql.com/doc/>

The following are some common problems:

Access denied when trying to connect to MySQL.

If you get an `Access Denied` message while trying to connect to MySQL, make sure you are using the correct username and password.

"Can't connect to server" message.

Make sure the MySQL daemon is up and running.