

Installing TYPO3 on Mac OS X

Extension Key: **doc_inst_macosx**

Copyright 2003, Andreas Beutel, <beutel@mehrwert.de>

This document is published under the Open Content License
available from <http://www.opencontent.org/opl.shtml>

The content of this document is related to TYPO3
- a GNU/GPL CMS/Framework available from www.typo3.com

Table of Contents

Installing TYPO3 on Mac OS X.....	1	Check your system preferences.....	2
Introduction.....	1	Install the PHP module (OS X 10.2 and OS X 10.3).....	3
What you should know before you start.....	1	Install MySQL.....	3
Installation options.....	1	Create a new MySQL-user for TYPO3.....	3
Installation by hand or with the full install package..	1	Install ImageMagick.....	4
General security advisory.....	1	Installing the TYPO3 package.....	4
Prerequisites.....	2	Enable the TYPO3 Install Tool.....	4
Terminology	2	Change permissions of the TYPO3 files.....	4
Required software packages.....	2	Using the TYPO3 Install Tool.....	5
Optional software packages.....	2	Last step.....	5
Step by Step Instructions.....	2	To-do List.....	5
Download all the required packages.....	2	Change log.....	5

Introduction

What you should know before you start

This tutorial should help you installing TYPO3 on a Mac OS X Client System. You have to be familiar with your system and to know at least how to open the Terminal Application (/Applications/Utilities/Terminal).

There are a lot of helpful documents which guide you through the setup of TYPO3 afterwards. You can find all of them on Typo3.org. I recommend to read at least »[Installation and Upgrade of TYPO3](#)«.

Installation options

Installation by hand or with the full install package

You can either install all packages one after another and follow this tutorial or - if you never installed TYPO3 on your system before - you can also use the TYPO3 QuickStart 3.5.0 Full Installer for OS X (currently supports both, Jaguar and Panther (10.2 and 10.3)). You can download it at <http://typo3.org/1274.0.html>. It is a »meta package« and contains all necessary packages (PHP, MySQL, ImageMagick, phpMyAdmin and the QuickStart site).

General security advisory

No matter if you use the installer package to install TYPO3 on a »public« server or you do it by hand, you really should change all of the default passwords! The package makes it easy to install TYPO3, but does not relieve you of the duty to keep your system secure! Also check for updates of the individual packages on a regular basis. All packages in the installer are available from the websites as mentioned below. You can (re-) install and update each package individually. Please also note that the install tool is activated by default in the TYPO3 QuickStart 3.5.0 Full Installer.

Prerequisites

Terminology

Commands you have to type or filenames are wrapped in code-tags. You can either copy and paste most of the shell commands into your Terminal window or just type yourself. If I use variables which you can or should change as you like, I write them like <variable> .

Required software packages

Mac OS X 10.2 or 10.3

I tested this examples with OS X 10.2.6 to 10.3.2. Apple Developer Tools recommend.

<http://www.apple.com/macosx/>

MySQL 4

If you're not familiar with MySQL or Unix, I recommend the official binary package (the .dmg-file). Also don't forget read the »ReadMe.txt« on the disk image!

<http://www.mysql.com/downloads/mysql-4.0.html>

PHP 4

The original Apple PHP-Module has no GD-support so I recommend using the feature-rich version provided by Marc Liyanage. Now available as installer.

<http://www.entropy.ch/software/macosx/php/>

ImageMagick 5

You can either use Fink to install ImageMagick or the binaries from the ImageMagick Website . I use the the binary package provided by Marc Liyanage here because it's the easiest way.

<http://www.entropy.ch/software/macosx/#imagemagick>

TYPO3 3.5

If you're a TYPO3 newbie I recommend one of the ready-to-go packages, either the QuickStart-Site, the Test- or the Dummysite. I use the Quickstart-Site here.

<http://typo3.org/1274.0.html>

Optional software packages

phpMyAdmin

phpMyAdmin is an useful web front-end to MySQL and can be used to maintain your MySQL installation and databases

<http://www.phpmyadmin.net>

CocoaMySQL

CocoaMySQL is - like phpMyAdmin - another useful front-end to MySQL but runs native on Mac OS X.

<http://cocoamysql.sourceforge.net/>

Fink

The Fink project wants to bring Unix open source software to Darwin and Mac OS X.

<http://fink.sourceforge.net/>

FinkCommander

FinkCommander is a graphical front-end to fink.

<http://finkcommander.sourceforge.net/>

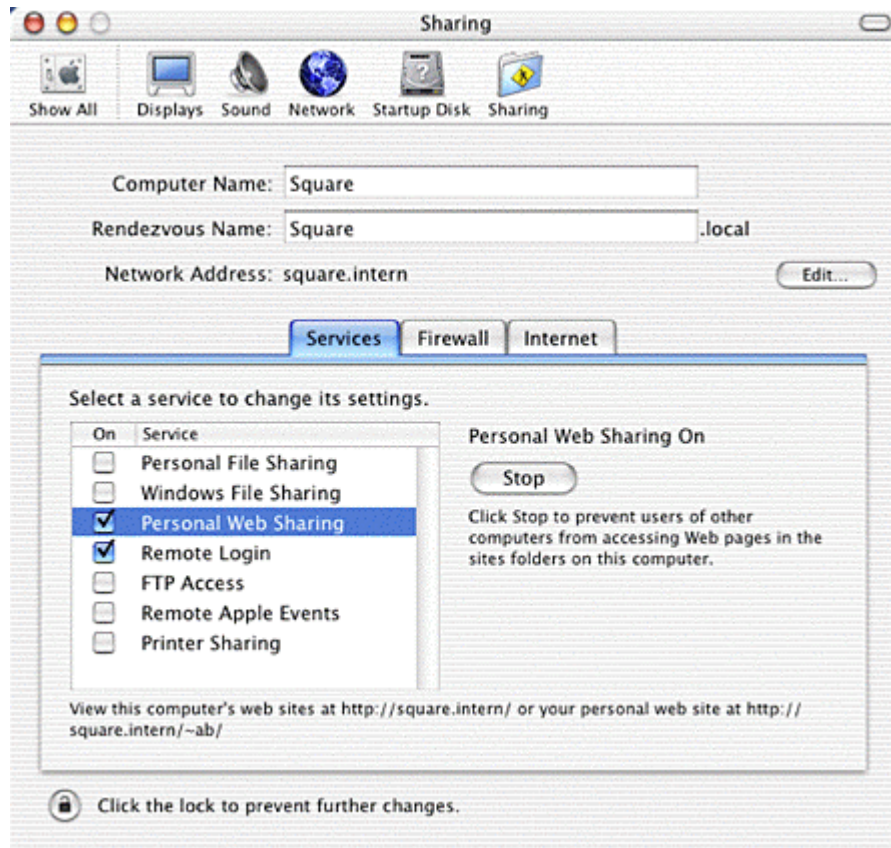
Step by Step Instructions

Download all the required packages

For this tutorial I used PHP 4.3.4, MySQL 4.0.17 Standard and ImageMagick 5.5.7 together with the TYPO3 Quickstart Site 3.5.0. Read the download instructions on the corresponding pages, especially if you use Microsoft Internet Explorer you may have to rename the downloaded files in case of the MySQL download.

Check your system preferences

Check that your web server (Personal Websharing) is running. You can check this using the Sharing-Panel in the System Preferences. If it is not running, you will get some error messages when you try to reload Apache later on in this tutorial...



Install the PHP module (OS X 10.2 and OS X 10.3)

I recommend to follow the instructions on [Marc Liyanage's Site](#). Be aware there's a difference between OS X 10.1 and 10.2/10.3! If you have installed the PHP module using Marc's installer everything is done. You can proceed with the installation of MySQL. Marc's new installer will also update the Apache configuration, so you do no longer have to edit the httpd.conf! The installer will try start (or restart if already running) your Apache web server, so the new module should be auto-activated

Install MySQL

If you're not familiar with Unix I recommend the official binary package (the .dmg-file). This is only available for OS X 10.2 and later. If you would like to install TYPO3 (and MySQL) on a 10.1 system, I recommend following the instructions on [Marc Liyanage's Site](#). Also read the »ReadMe.txt« on the disk image! If you install MySQL for the first time, you have to set a password for the MySQL root user. The root user is the super user which has all privileges on the database and can execute all MySQL commands. This is done with the following command issued in the Terminal

```
/usr/local/mysql/bin/mysqladmin -u root password <PASSWORD>
```

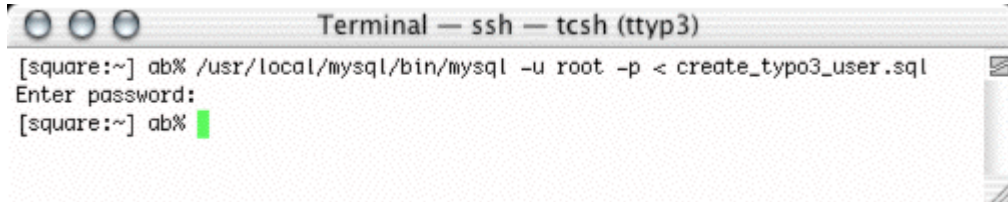
where <PASSWORD> is the desired MySQL root password. Remember this password! You will need it anytime you want to create new MySQL users, maintain your databases and so on!

Create a new MySQL-user for TYPO3

You can use my [SQL-script](#) to do that (you can edit it with a text editor). It will create a database called **typo3db** and a user **typo3** with the password **typo3** (you can change that if you edit the script in any text editor). It also sets up the right privileges for that user. Download the script to your hard disk and put it in the folder where you have all the other required software for this tutorial. Open a new Terminal window to execute the following command. You can enter the script name by typing the complete path to the script or by simple drag and drop the file on the terminal window! If you like the easy way type only the first part including the < and a space and do the drag and drop operation. The Terminal will insert the complete path for you and the command should look like this:

```
/usr/local/mysql/bin/mysql -u root -p < /<path>/<to>/<the>/<script>/create_typo3_user.sql
```

Press RETURN to execute the command. You will be ask you for the MySQL root password you set in step 4. You can now close the Terminal window with **COMMAND + W** or simply type logout followed by by pressing RETURN.



```
Terminal — ssh — tcsh (ttyp3)
[square:~] ab% /usr/local/mysql/bin/mysql -u root -p < create_typo3_user.sql
Enter password:
[square:~] ab%
```

Install ImageMagick

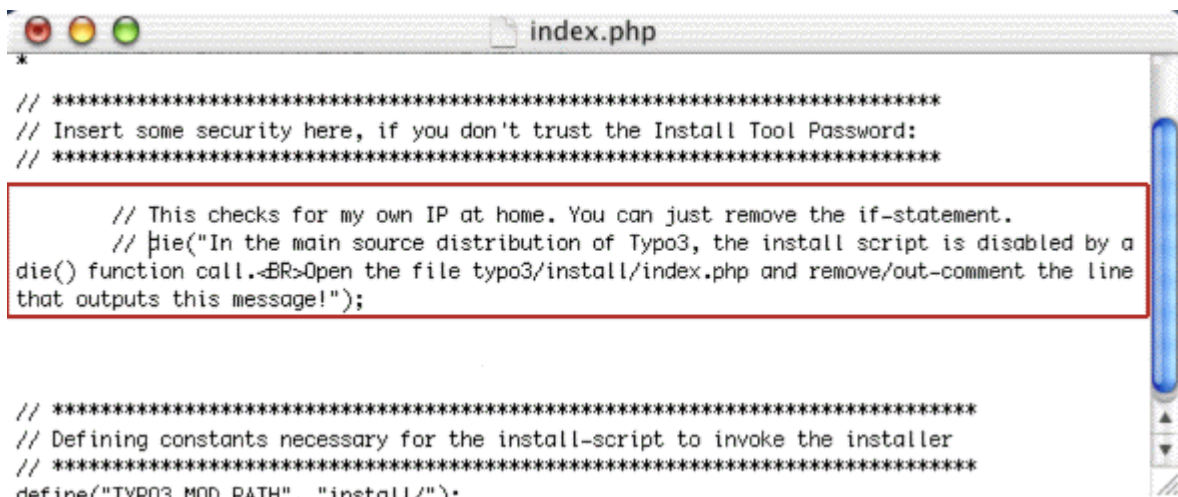
No need to explain in detail, simply double click the package in the Finder and follow the instructions in the installer.

Installing the TYPO3 package

Unzip the TYPO3 ZIP-archive (using Stuffit Expander for example) and copy or move the folder to your web server's document root. The document root is your web server's main document repository. Normally it is located in /Library/WebServer/Documents/. (see screen shots). Copy or move the TYPO3 folder (in my case the folder quickstart) there.

Enable the TYPO3 Install Tool

Open the file `index.php` in /Library/WebServer/Documents/<foldernam>/typo3/install/ in a text editor (like BBEdit or JEdit, even TextEdit will do) and make two slashes (//) in front of the `die(...)` function to enable the TYPO3 install tool. Beware that you **do not insert line breaks** because this will cause some errors later on (TextEdit, like in the screen shot, will only wrap the line virtually, not inserting breaks, so it's ok). Save your changes and close the document.



```
index.php
*
// *****
// Insert some security here, if you don't trust the Install Tool Password:
// *****

// This checks for my own IP at home. You can just remove the if-statement.
// die("In the main source distribution of Typo3, the install script is disabled by a
die() function call.-BR>Open the file typo3/install/index.php and remove/out-comment the line
that outputs this message!");

// *****
// Defining constants necessary for the install-script to invoke the installer
// *****
define("TYPO3_MOD_PATH" "install/");
```

Change permissions of the TYPO3 files

Open a new Terminal-window (COMMAND + N in the Terminal application), change to the web server document root using the command

```
cd /Library/WebServer/Documents/
```

and type

```
sudo chown -R :www <foldernam>
```

hit the RETURN- key and type

```
sudo chmod -R g+w <foldernam>
```

(where <foldernam> is the name of the folder containing your TYPO3 files). With this commands you will change the owner (chown = **change owner**) and modify the permissions (chmod = **change mode**) of the TYPO3 folder so the web server application can modify the files in there. If you're done, you can close the Terminal window.

```
Terminal — ttyp3
Last login: Tue May 27 19:56:43 on ttyp2
Welcome to Darwin!
cd[square:~] ab% cd /Library/WebServer/Documents/
[square:~/Library/WebServer/Documents] ab% sudo chown -R :www quickstart/
Password:
[square:~/Library/WebServer/Documents] ab% sudo chmod -R g+w quickstart/
[square:~/Library/WebServer/Documents] ab%
```

Using the TYPO3 Install Tool

Open a web-browser and go to <http://127.0.0.1/<foldername>/>. The TYPO3 site should open with the Install Tool in 1-2-3-Mode.

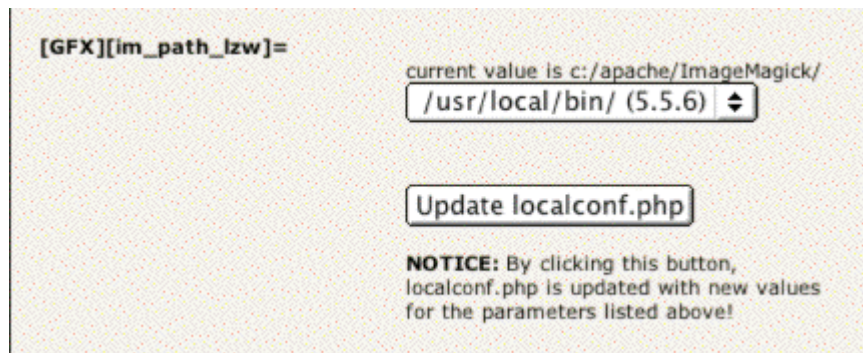
In the first step, you have to enter your MySQL user name, the password and the host name of the database server. Because it's all on the same machine, you should enter **localhost** as the host name. The user name created with my SQL-script was **typo3** and the password also **typo3**. The database is called **typo3db**. Enter the appropriate values and click on the button »Update localconf.php« to update your configuration and save the changes.

If you succeed, you should be able to select the database **typo3db** in step 2 and save your changes with a click on the button »Update localconf.php«.

Step 3 is for importing the data into the database. After doing that (select **database.sql** from the pull down and click on »Import database«) you should click on »Continue to configure TYPO3 (Recommended)« and proceed with the last step in this tutorial.

Last step

The last thing you have to do is to click on »1: Basic Configuration«, scroll down to the bottom of the page and select your ImageMagick binary in the pull down. Save your changes by pressing the button »Update localconf.php«.



That's it. You should now have a working TYPO3 installation! You can start by logging in to the TYPO3-Back end of your installation with a web browser <http://127.0.0.1/<foldername>/typo3/>

To-do List

- Add tips for installing TYPO3 on OS X 10.1.x

Change log

- 2003-06-05 Initial release
- 2003-06-07 Minor changes, added link to the SQL-script
- 2003-12-29 Updated PHP section due to Marc's new module installer, added link to TYPO3 Package
- 2004-01-02 Updated text to reflect new installer Mac OS X package
- 2004-01-06 Minor fixes: Thank to HP Engelhard
- 2004-01-07 Minor fixes: Thanks to