

MAMP 3 – User Guide

March 2014 (c) appsolute GmbH



I. Installation	3
1. Installation requirements	3
2. Installing and upgrading	3
3. Uninstall	3
II. First Steps	4
III. Preferences	5
Start/Stop	5
2. Ports	6
3. PHP	7
4. Apache	8
5. Open Start Page	8
IV. FAQ	9
V. How-To's	9

MAMP Documentation

I. Installation

1. Installation requirements

To use the MAMP, your system must meet the following requirements:

- Operating system: Apple OS X 10.6.6 or later
- Mac with 64-Bit CPU from Intel (x84)
- User account that allows to administer the computer (Administrator)

2. Installing and upgrading

- Download MAMP from <http://www.mamp.info>.
- Double click on the file MAMP_MAMP_PRO_3.0.pkg in your Downloads folder.
- The System Installer will guide you through the installation process.
- If the installer detects a previous MAMP installation it will rename its MAMP folder to MAMP_*current_date*.
- An existing “htdocs” folder will be moved to your new /Applications/MAMP folder.
- Make sure that all data has been transferred correctly before starting MAMP.
- Your /Applications/MAMP_*current_date* folder can now be deleted. You may however keep it, so you can fall back to your original setup.

Note: You need administrator permissions to install MAMP!

When installing MAMP, an /Applications/MAMP Pro folder will be installed in addition to your /Applications/MAMP folder. You can ignore this folder if you choose not use MAMP PRO.

3. Uninstall

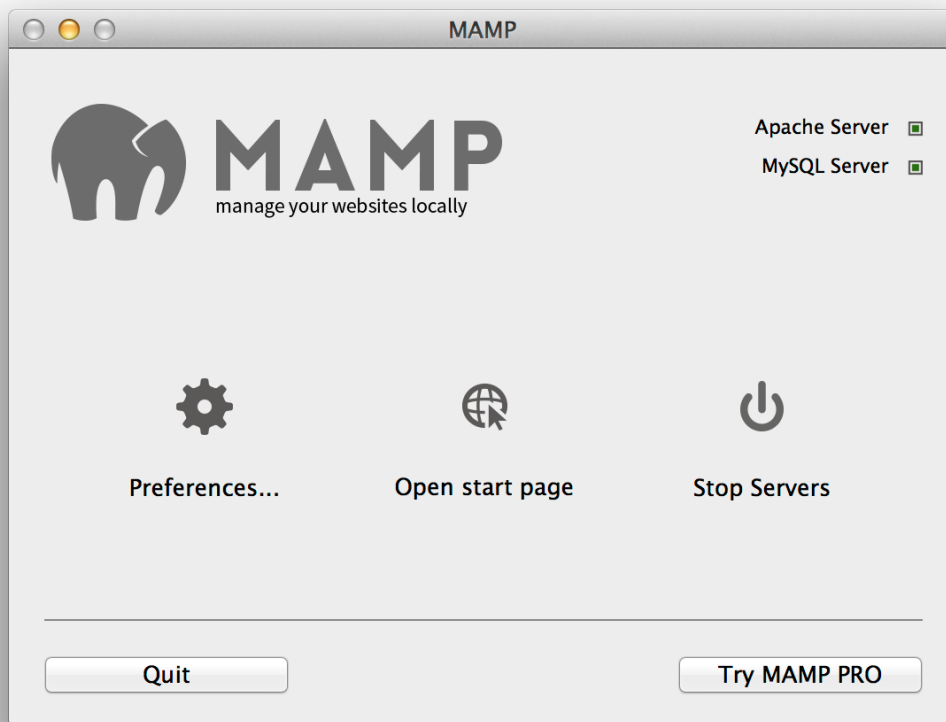
To uninstall MAMP, you only have to delete the MAMP directory and everything returns to the original state (MAMP does not alter anything on the normal Mac OS X).

If you have used MAMP Pro as well, use the MAMP Pro uninstaller in the /Applications/MAMP Pro folder to remove it.

II. First Steps

After successful installation you can launch your local servers. Start MAMP and click on the *Start Servers* button. In the status display in the upper right corner, the launch status of the servers is displayed. If necessary, you will be asked for your administrator password.

The web server (Apache) starts by default on port *8888*, the database server (MySQL) on port *8889*. When calling your web page in a web browser, you must enter the Apache port at the end of the URL, e.g.: *http://localhost:8888*



Preferences ...

Set your preferences for MAMP. See the Preferences section for more details.

Open Start page

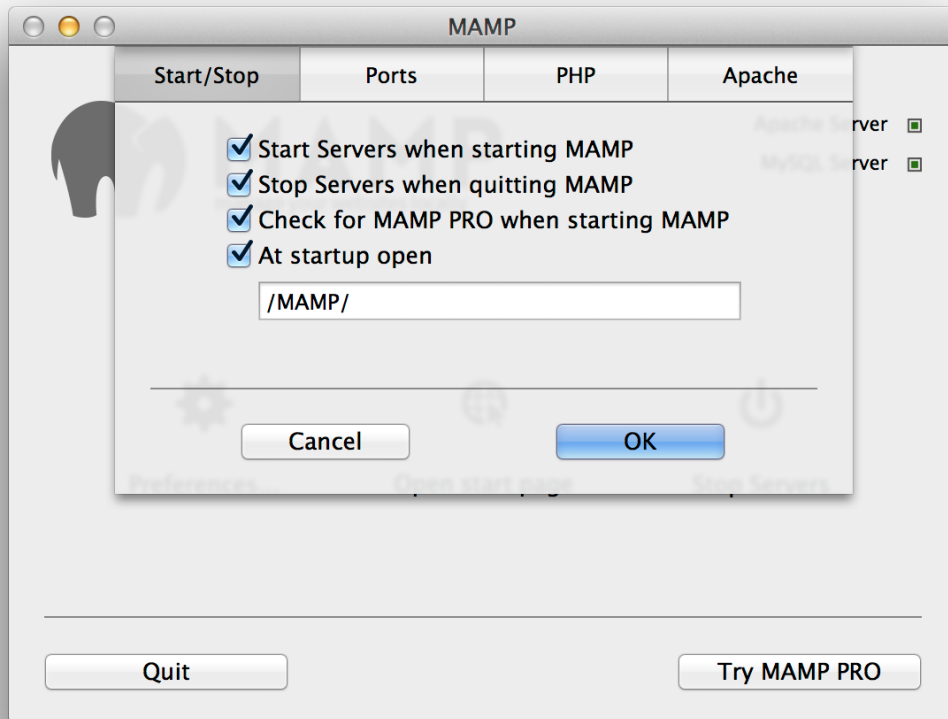
Open the start page of your local web server.

Start Servers / Stop Servers

Start or stop the Apache and MySQL services of MAMP.

III. Preferences

1. Start/Stop



Start Servers when starting MAMP

The Apache and MySQL services will start automatically when you launch MAMP.

Stop Servers when quitting MAMP

The Apache and MySQL services will be stopped automatically when you quit MAMP.

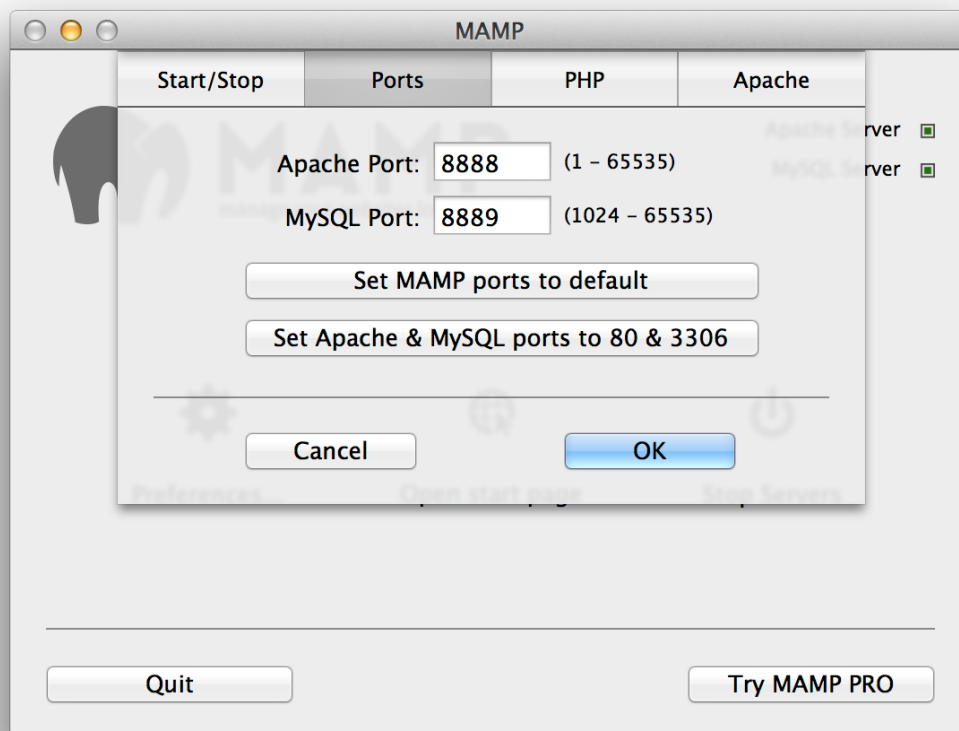
Check for MAMP PRO when starting MAMP

You will be prompted whether you want to start MAMP or MAMP Pro when this option is selected.

At startup open

The start page will automatically open at the startup of MAMP when you select this option. See the *Open Start Page* section for more information on the MAMP start page.

2. Ports



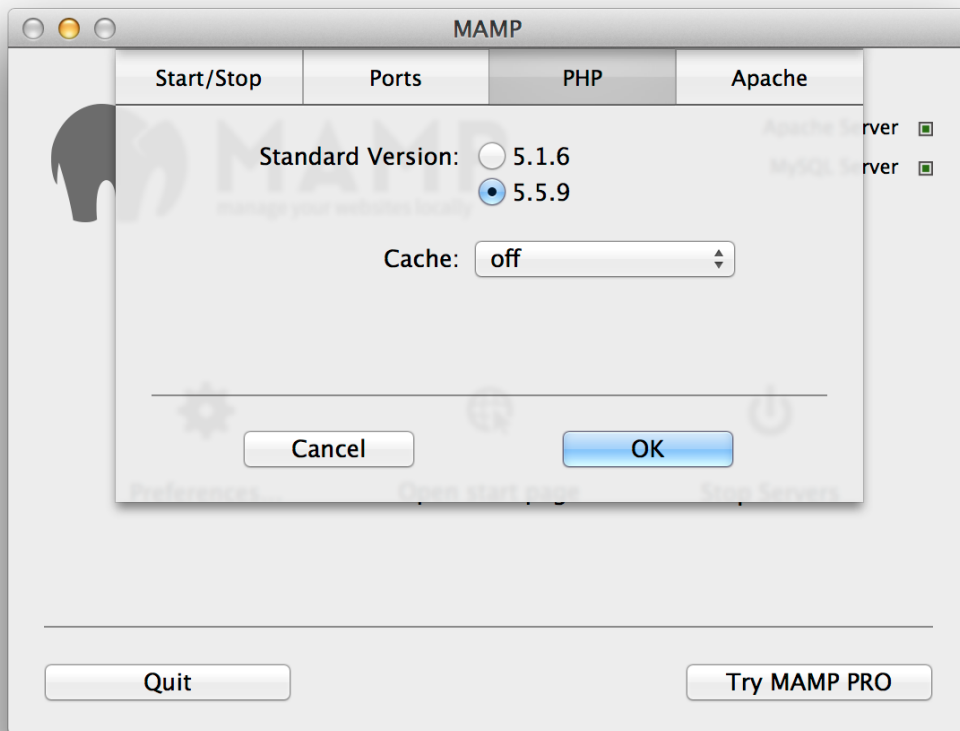
Server programs, when addressed via the network, need to be assigned to a certain network port. This way, multiple server programs may run on one server machine. Every service has a default port: The Apache web server typically uses port *80*, the MySQL database server utilises port *3306*.

These ports are configurable. The default configuration for MAMP uses ports *8888* and *8889*. That way, the MAMP servers can run alongside other servers installed on your Mac. Should ports *8888* and *8889* be in use by a different application, please change the values accordingly.

The button *Set Apache & MySQL ports to 80 & 3306* will set the ports to the value commonly used on the internet. The button *Set MAMP ports to default* will reset the ports for Apache and MySQL to *8888* and *8889*.

If you want MAMP to be available via the Internet please make sure that the configured ports are opened in your firewall.

3. PHP



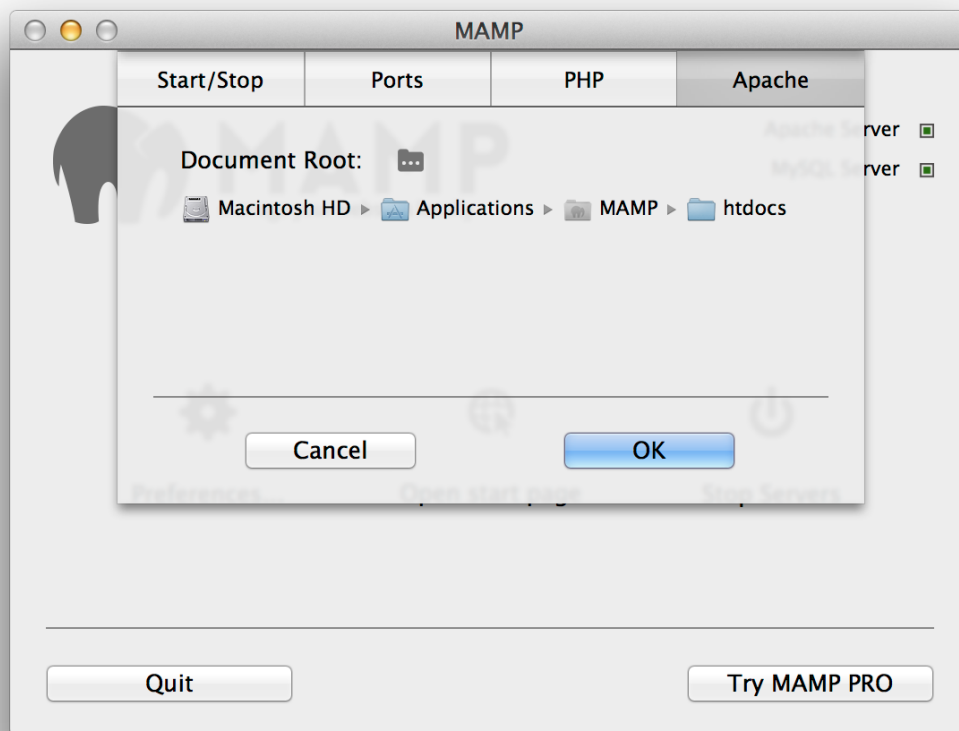
Standard Version

Choose whether PHP 5.1.6 or PHP 5.5.9 is used. The available PHP versions depend on the installed version of MAMP.


Cache

Caching can speed up the execution of your PHP code. The default caching option is *off*. *OPcache* is only available with PHP 5.5.x, *eAccelerator* only with versions before 5.5.

4. Apache



Document Root

Click on  to select where your html/PHP files and images are stored. This directory is called *Document Root*. The default Document Root in MAMP is: */Applications/MAMP/htdocs*.

5. Open Start Page

The default MAMP start page provides links to access utilities such as phpMyAdmin, phpInfo, SQLite Manager, phpLiteAdmin, FAQ, and the MAMP Website.

The MAMP start page can be changed using *Preferences...*. When using the default setting (*/MAMP/*), you will be directed to the MAMP utilities start page using the Alias definition */MAMP/*.

If this field is left blank, you will be taken to your default document root (*http://localhost:8888* in the */Applications/MAMP/htdocs*). If you enter */subDirectory* in this field, you will be taken to the */Applications/MAMP/htdocs/subDirectory* folder via your default web browser (*http://localhost:8888/subDirectory*).

IV. FAQ

Is it possible to install MAMP on an external drive?

No, MAMP has to be installed on the system drive.

Is MAMP compatible with Mac OS X 10.9 (Mavericks)?

Yes, MAMP is indeed compatible with Mac OS X 10.9 (Mavericks).

What does MAMP stand for?

The abbreviation "MAMP" stands for: Macintosh, Apache, MySQL and PHP.

Where can I download MAMP?

Get the latest version of MAMP from our website www.mamp.info.

Where can I find the log files?

All log files are stored in: `/Applications/MAMP/logs/`

Which Apache modules are included?

Apache modules are located in the `/Applications/MAMP/Library/modules` folder.

Which PHP modules are included?

To find out which PHP modules are included, use the following procedure. Start the servers and direct your web browser to `http://localhost:8888/MAMP/` and click on the `phpInfo` tab at the top of page.

V. How-To's

How can I change the password of the MySQL root user?

Open the Mac OS Terminal Application (located in `/Applications/Utilities/`) and enter the following command line:

```
/Applications/MAMP/Library/bin/mysqladmin -u root -p password  
<NEWPASSWORD>
```

replace `<NEWPASSWORD>` with your new password.

Please bear in mind that you also have to change the phpMyAdmin configuration and probably your own php scripts to use the newly created MySQL password. For changing the phpMyAdmin configuration edit the file `/Applications/MAMP/bin/phpMyAdmin/config.inc.php` and update the password.

Check the Default Storage Engine of MySQL

1. Open MAMP
2. Start the servers
3. Open Terminal.app (*/Applications/Utilities*)
4. Enter the following line into the terminal and hit *Enter*:

```
cd /Applications/MAMP/Library/bin
```

5. Hit *Enter*

```
./mysql --host=localhost -u root -p
```

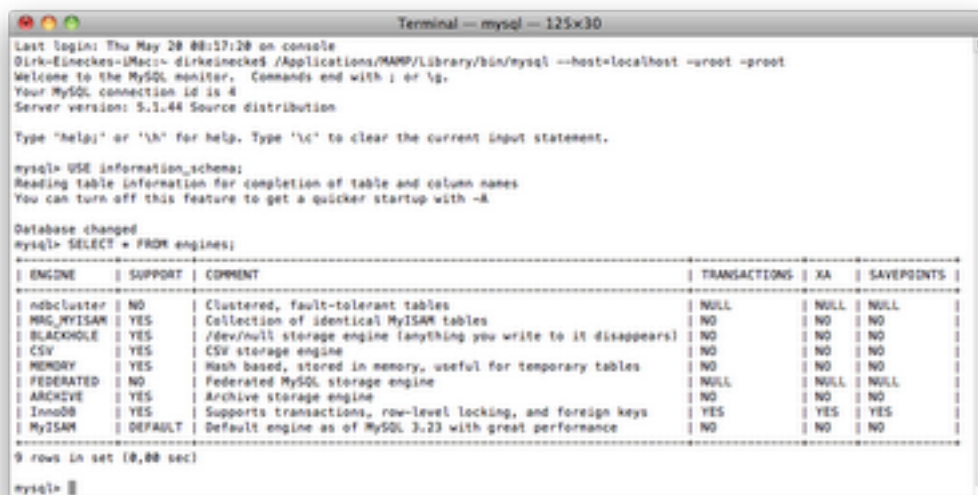
6. Enter the following line into the MySQL prompt and hit *Enter*:

```
USE information_schema;
```

7. Enter the following line into the MySQL prompt and hit enter:

```
SELECT * FROM engines;
```

8. A table with the Storage Engines of MySQL will show up. Inside the *Support* column the Default Storage Engine has the value *DEFAULT*.



```
Terminal -- mysql -- 125x30
Last login: Thu May 28 08:17:28 on console
Dirk-Einecke@Mac:~$ cd /Applications/MAMP/Library/bin/mysql --host=localhost -u root -p
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 4
Server version: 5.1.44 Source distribution

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> USE information_schema;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> SELECT * FROM engines;
+-----+-----+-----+-----+-----+-----+
| ENGINE | SUPPORT | COMMENT | TRANSACTIONS | XA | SAVEPOINTS |
+-----+-----+-----+-----+-----+-----+
| ndbcluster | NO | Clustered, fault-tolerant tables | NULL | NULL | NULL |
| MRG_MYISAM | YES | Collection of identical MyISAM tables | NO | NO | NO |
| BLACKHOLE | YES | /dev/null storage engine (anything you write to it disappears) | NO | NO | NO |
| CSV | YES | CSV storage engine | NO | NO | NO |
| MEMORY | YES | Hash based, stored in memory, useful for temporary tables | NO | NO | NO |
| FEDERATED | NO | Federated MySQL storage engine | NULL | NULL | NULL |
| ARCHIVE | YES | Archive storage engine | NO | NO | NO |
| InnoDB | YES | Supports transactions, row-level locking, and foreign keys | YES | YES | YES |
| MyISAM | DEFAULT | Default engine as of MySQL 3.23 with great performance | NO | NO | NO |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.08 sec)

mysql>
```

9. Enter the following line into the MySQL prompt and hit enter:

```
exit;
```

Set the MySQL Default Storage Engine

The MySQL server of MAMP uses the Default Storage Engine *MyISAM*. If you want to change this, you have to change the configuration file of the MySQL server. With this tutorial we want to show you how to change the Default Storage Engine to InnoDB.

1. Stop the MAMP Server if it is running.
2. Use a text editor to create a file named *my.cnf* and save it to the */Applications/MAMP/conf/* folder.
3. Add the following lines into the file:

```
[mysqld]
default-storage-engine = InnoDB
```

4. Save the file and close your editor.
5. Start the MAMP servers. Use MySQL command line

To use the MySQL command line, perform the following steps:

1. Start MAMP
2. Start the servers
3. Open Terminal.app (*/Applications/Utilities*)
4. Type in and hit enter:

```
cd /Applications/MAMP/Library/bin
```

5. Type in and hit enter:

```
./mysql --host=localhost -u root -proot
```

Now you can use the MySQL command line. For example to show all your databases with:

```
show databases;
```

Connect to MySQL from PHP

The following example shows how to connect to a MySQL database using the `mysqli()` library:

```
<?php
```

```
DEFINE('DB_USERNAME', 'root');
DEFINE('DB_PASSWORD', 'root');
DEFINE('DB_HOST', 'localhost');
DEFINE('DB_DATABASE', 'performance_schema');
```

```
// http://www.php.net/manual/en/mysqli.connect.php
```

```
$mysqli = new mysqli(DB_HOST, DB_USERNAME,  
DB_PASSWORD, DB_DATABASE);  
  
if (mysqli_connect_error()) {  
    die('Connect Error (' . mysqli_connect_errno()  
    . ') ' . mysqli_connect_error());  
}  
  
echo 'Connected successfully.';  
  
$mysqli->close();  
  
?>
```

All product names and any registered and unregistered trademarks mentioned are used for identification purposes only and remain the exclusive property of their respective owners.