

Helpful Links

- ➔ Install Apache, MySQL, PHP on macOS High Sierra 10.13
- ➔ Set up localhost on macOS High Sierra (Apache, MySQL, and PHP 7) with SSL/HTTPS

Turn on apache

- At the terminal, type: `> sudo apachectl start`
- In a browser type: `localhost` or `localhost/index.html`
- If you see: **It Works!**, it works.

Apache General Information

Apache Doc Root Directory `/Library/WebServer/Documents`

httpd.conf lives in: `/etc/apache2/httpd.conf`

localhost web access **`http://localhost/index.php`**

Other docs and dirs in Document Root `phpinfo.php, phpmyadmin, php.ini, inc/`

bash alias `docroot='cd /Library/WebServer/Documents\'`

Turn on PHP

At the terminal, type: `$> sudo vi /etc/apache2/httpd.conf`

Uncomment: `#LoadModule php7_module`

`libexec/apache2/libphp7.so`

Save file then restart apache: `$> sudo apachectl restart`

In the document root: `$> sudo vi index.php`

Enter:

`<?php`

`phpinfo();`

`?>`

Save file then restart apache: `$> sudo apachectl restart`

In a browser, type: `localhost/index.php`

Install MySQL

- Download from <https://dev.mysql.com/downloads/mysql>
 - Choose the version for your OS
 - Click "No thanks, just start my download"
 - Go through the download process
 - Make sure you copy the password for `root@localhost`
 - Start MySQL Server
 - Add `/usr/local/mysql/bin` to path in `.bash_profile`
- To update password, see **'If you lock yourself out of phpmyadmin'**

Install phpmyadmin

- Download phpmyadmin
 - Make new directory in the document root: `sudo mkdir phpmyadmin`
 - Make it writeable by owner (which could be root): `sudo chmod 755 phpmyadmin`
 - Unzip or unpack the zip file and copy to new directory
- Also see: `phpmyadmin setup doc`
- From `localhost/phpmyadmin/setup` create a new server connection by clicking **New server**
 - Under Authentication tab, enter `root` as user and new password for `root`
 - Then click **Save**.
 - Now navigate to `localhost/phpmyadmin`

If you lock yourself out of phpmyadmin:

...by turning on no password **IN** phpmyadmin:

At the command line:

`$ sudo mysql`

mysql> SET PASSWORD FOR

`root@localhost=PASSWORD('letmein');`

mysql> quit;

Now use username `root` and password `letmein`



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Database Access Information

Directory for include files	[docroot]/inc
MySQL Login file	db_conn.php
PHP include line	require_once 'inc/db_conn.php';

[docroot]/inc/db_conn.php

```
<?php
// credentials for connecting to database
$host = 'hostname'; //database hostname
$user = 'db_user'; //database username
$pw = 'db_user_pw'; //database user password
$db = 'database'; //mysql database name
?>
```

Database normalization

FIRST NORMAL FORM

- NO repeating columns containing same type of data
- ALL columns contain a single value
- Unique PRIMARY KEY for each row

SECOND NORMAL FORM

- Table must be in First Normal Form
- Create new tables for any data that is repeated in columns
- Each new table needs a unique PRIMARY KEY for each row.

AUTO_INCREMENT can do this.

THIRD NORMAL FORM

- Table must be in First and Second Normal Form. This is usually all that is necessary.
- Any data that is *not* dependent on a primary key, but *is* dependent on another value, should be removed to another table. This is a very strict use of normalization.



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