Laravel 4.1 Installing Apache, MySQL, PHP, Laravel & PHPMyAdmin (Created by Wayne Leiser 01-26-14) http://www.scrfix.com/contact.php This flowchart attempts to walk you through the Installation of Apache, MySQL, PHP, Laravel and PHPMyAdmin on a local windows based PC. This flowchart will walk you through some of the prerequisites prior to installing the core software. This procedure presumes you do not have other versions of the CORE software installed (Apache, MySQL, PHP, Laravel, PHPMyAdmin). Uninstall previous versions before proceeding. Additional references provided are not meant to be instructions. This flowchart does not follow any reference step by step. **▶**(No)**→** Step 1: and Download No) Yes) install either **Step 2:** Do you have Agent Ransack installed? NoteTab Light or Sublime 3? Have you installed NoteTab Yes) NoteTab Light: Light or Sublime 3? Download and Install Agent Ransack. It www.notetab.com/get.php?ntl is the best text type search tool. Sublime Text 3: **Step 3:** (Yes) http://www.mythicsoft.com/ www.sublimetext.com/3 **Have you installed the 32 bit agentransack/download (x86) version of Microsoft Visual No **Step 4:** C++ 2010 Redistributable Package? Have you downloaded Apache No)∢ Download and install the 32 bit version from Apache Lounge? Yes (of the Microsoft Visual C++ 2010 Redistributable Package No **Download the 32 bit version of Apache <u>Step 5:</u> www.microsoft.com/download/en/ from Apache Lounge: **→**(Yes details.aspx?id=5555 Have you installed Apache? www.apachelounge.com/download/ ¹1. Open and extract the Apache24 directory to the C Drive: C:\Apache24 2. Open a command prompt with administrator rights. 3. Navigate to C:\Apache24\bin (cd C:\Apache24\bin [then push enter]) ²4. Enter the command **httpd.exe -k install.** Click Allow Access if the windows confirmation box appears. You should see: Installing the Apache2.4 service The Apache2.4 service is successfully installed. Testing httpd.conf.... Errors reported here must be corrected before the service can be started. (If there are any errors below the above, they will be reported here) 6. Close the command prompt 7. Navigate to C:\Apache24\bin, create a shortcut to ApacheMonitor.exe. Put the shortcut in the startup folder in the start menu 8. Open the C:\Apache24\conf\httpd.conf file. i. Locate: #LoadModule rewrite_module modules/mod_rewrite.so and remove the hash mark. ii. Locate: AllowOverride FileInfo AuthConfig Limit and underneath it change: AllowOverride None TO AllowOverride All **→**(No ³ 1. Go to http://windows.php.net/download/ the VC11 x86 Thread Safe version. Step 6: Have you installed PHP? ➤ (Yes) ¹2. Create a directory in the root drive named PHP. 3. Extract the downloaded PHP zip file to that directory. (Example C:\PHP) ⁵ 4. Make a copy of the php.ini-development file and then rename it to php.ini. **Step 7:** No 5. Make a second directory within the root named tmp for storing PHP sessions. Yes)◀ Have you edited the httpd.conf file in Apache to work with PHP? 6 1. Edit Apache's httpd.conf file in one of the text editors you downloaded and installed in Step 2. The file is located: C:\Apache24\conf\httpd.conf If you are still unsure of where the httpd.conf file is located use Agent Ransack. ⁷ 2. Locate the "LoadModule" section and add: a. LoadModule php5_module "c:/PHP/php5apache2_4.dll" 3. Locate the "AddType" section and add: a. AddType application/x-httpd-php .php 4. Go to the end of the httpd.conf file and add: a. PHPIniDir "C:/PHP" 5. Locate DirectoryIndex index.html and change it to: a. DirectoryIndex index.html index.php index.htm 6. Save the file. 7. Go to your browser and type in http://localhost in the address bar and then push Enter. This should display "It Works". 1. Open the php.ini file (C:\PHP\php.ini) in one of the text editors (No)**→ Step 8:** downloaded in step 2. Have you edited the PHP.ini file to ➤ (Yes) Locate "error_reporting = E_ALL | E_STRICT" (No quotes) display errors, use sessions and phpmail? [This might be error_reporting = E_ALL] and change to: error_reporting = E_ALL & ~E_NOTICE **Step 9:** 3. Locate display_errors = and ensure that it is set to On: Yes)◀ **→**(No) Have you tested PHP to ensure it works? display_errors = On 4. Locate; extension dir = "ext" (With the semi-colon and double quotes) and put the following below it: 1. Create a file named phpinfo.php and extension dir = C:\PHP\ext save this file in **C:\Apache24\ntdocs** 5. Locate ;extension=php_mbstring.dll and remove the semicolon 2. Add the following into the 6. Locate ;extension=php_mysqli.dll and remove the semicolon phpinfo.php file: 7. Locate ;extension=php_openssl.dll and remove the semicolon <? phpinfo(); ?> 8. Locate ;extension=php_pdo_mysql.dll and remove the semicolon 9. Locate short open tag = Off and change it to short_open_tag = On <?php phpinfo(); ?> 10. Locate ;session.save_path = "/tmp" and change it to: (if you did not enable short tags) session.save_path = "C:\tmp" 3. Open a browser and go to the URL: 11. Locate [mail function] and change the SMTP = localhost to your http://localhost/phpinfo.php domain's SMTP. Example: SMTP = mail.mydomain.com ⁸12. Locate session.gc_maxlifetime = 1440 and change this to: **Step 10:** session.gc_maxlifetime = 86400 Have you downloaded 13. Change ;sendmail_from = me@example.com to your email address & Yes (No & installed MySQL? remove the semi-colon. Ex: sendmail_from = me@mydomain.com 14. Save the file and Restart Your Computer Go to: http://dev.mysql.com/downloads/mysql/ and choose the Recommended Download **Step 11:** 1. Choose Install MySQL Have you installed $^{ m 10}$ 2. Set the Setup type to Custom, click on Applications and uncheck MySQL for Visual Git for Windows? Studio 1.0.2. ¹¹ 3. Set Config Type to Development Machine Yes No 4. Set the MySQL Root Password to a secure memorable password. 5. Add a second administrative username and password in case root password fails. 6. Windows Service Name: Leave as default 7. Run Windows Service as: Leave as default. 8. Logging Options: Leave as default. Go to: https://code.google.com/p/msysgit/downloads/list Yes 12 1. Start Installing GIT. **Step 12:** Do you have Composer Installed? 2. Choose "Run Git from the Windows Command Prompt" No 3. Check "Checkout Windows style, commit Unix-style line endings". Go to: http://getcomposer.org/Composer-Setup.exe 1. Open up the command line **▶**(No) <u>Step 13:</u> ¹³ 1. Install Composer for Windows 14 2. Type in the following commands: Have you tested the 2. Install Shell Menus php -v returns the version of PHP ➤ (Yes` installed software? 3. Browse where your PHP file is located. git --version returns version of git This should be in C:\PHP\PHP.exe. composer -version returns the version of composer **Step 14:** → (Yes) Have you installed Laravel? (No)**∢** 1. Open an elevated command prompt **Step 15:** Yes ` Navigate to C:\Apache24 Have you made a Junction Point 3. Type the command: (Symbolic Link for Linux Fans) to ►(No] composer create-project laravel/laravel your-project-name --prefer-dist the public directory in Laravel? 1. Open a command prompt if not already opened. 2. Navigate to cd C:\Apache24 3. Type: ren htdocs bakhtdocs then press enter **Step 16:** ►(No] 4. Type: mklink /j c:\Apache24\htdocs c:\Apache24\laravel\public Have you installed PHPMyAdmin? ¹⁶ 5. Go to URL: http://localhost Yes **Step 17:** 1. Download the all languages phpmyadmin zip file from: Have you configured http://www.phpmyadmin.net/home_page/downloads.php PHPMyAdmin to log in 2. Extract the phpMyAdmin-version-number directory out automatically? of the compressed file into the c:\Apache24\laravel\ public directory. Yes No 3. Rename the directory to phpmyadmin. 4. Rename C:\Apache24\Laravel\phpmyadmin\config.sample.inc.php file to config.inc.php. **Step 18:** 5. Open config.inc.php and Locate the line: Have you added the PHP, \$cfg['blowfish_secret'] = 'a8b7c6d'; MySQL and Apache Go to: http://www.question-defense.com/tools/phpmyadmin-blowfish-secret-generator Yes)◀ directories to the "Path" and copy the new blowfish code from that website and replace the a8b7c6d with that **Environment Variable?** generated blowfish code from the website. ¹⁸ 1. Open config.inc.php if it not already open. I don't know No ¹⁹ 2. Locate \$i++; and add the following lines under that line: /* AutoLogin */ 1. Open an elevated command prompt \$cfg['Servers'][\$i]['user'] = 'root'; 2. Type in: \$cfg['Servers'][\$i]['password'] = 'password'; **php** –v (Returns the version of PHP) \$cfg['Servers'][\$i]['auth_type'] = 'config'; msyql -version (Returns MySQL version) \$cfg['AllowUserDropDatabase'] = 'true'; 3. Under \$cfg['AllowUserDropDatabase']; add: /* Cookie Validity or Length */ **Step 19:** \$cfg['LoginCookieValidity'] = 60 * 60 * 24; // in seconds (24 hours)

⁸ Only change these values like this on a development machine.

at the bottom of the page. Extract the zip file to the C:\apache24\bin and to the C:\Windows directory and attempt to run the httpd -k install command again.

Did the above commands return what was expected?

Yes

No

Troubleshooting Notes & References:

issues with the 64 bit software and it is not compatible.

extra folder config file(s) change to your location there.)

²¹ 1. Type in:

2. Press Enter

Thread Safety is highly disputed – See http://stackoverflow.com/questions/1623914/what-is-thread-safe-or-non-thread-safe-in-php & http://neosmart.net/blog/2008/dont-believe-the-lies-php-isnt-thread-safe-yet/

There is 64 bit software available. Use the 32 bit software even if you are on a 64 bit system. Some of the software being installed has

1 (Should you choose not to install it to the default location as described then when you unzip to a different location you must change the location in "ServerRoot" in the httpd.conf, and change in httpd.conf the Documentroot, Directories, ScriptAlias, also when you use the

² Did you receive an error similar to "The program can't start because MSVCR110.dll is missing from your computer. Try reinstalling the program to fix this problem"? Go to http://www.dll-files.com/dllindex/dll-files.shtml?msvcr110 and use the "Download zip-file" option

SET PATH=%PATH%;C:\Program Files\MySQL\MySQL Server 5.6\bin;C:\PHP;C:\Apache24\bin

⁵ If your file extensions are not shown go here: http://www.webdevelopersnotes.com/blog/get-file-extension-windows-7/ ⁶ Reference Step 4 & 5: http://www.webdevelopersnotes.com/how-do-i/install-PHP-windows-7.php

⁷ Please check the correct name of the php5apache dll file located in the PHP directory. It may be different than what is written here.

13 If you receive the error that MSVCR110.dll cannot be found copy and paste the file C:\Apache24\bin\msvcr110.dll to the C:\Windows

⁹ You should see a list of PHP Modules installed on the computer. ¹⁰ Only uncheck Visual Studio if you do not have Visual Studio installed on your computer.

4 Reference: http://www.webdevelopersnotes.com/how-do-i/install-PHP-windows-7.php

¹¹ Only choose Development Machine if this is indeed your local computer for testing and not a production computer. ¹² Only use SSH if you are asked. Download the latest version usually at the top labeled "Featured Beta" Full installer for official Git for Windows 1.8.5.2 Featured Beta

SET PATH=%PATH%;C:\PHP;C:\ProgramData\Composer\bin;C:\Program Files (x86)\Git\cmd

directory and try to install again. ¹⁴ If any the commands do not return what was expected the run the following command from an elevated command prompt:

The above command presumes you are on a Vista, 7 or 8 Operating System. 8 is the latest operating system at this time.

- ¹⁵ "your-project-name" is the name of the folder laravel stores the data. This process will take about 2 minutes. ¹⁶ Clear your cache if you don't see a Laravel logo with "You have arrived" or something similar.
- ¹⁸ You may ignore the following error: "The phpMyAdmin configuration storage is not completely configured, some extended features have been deactivated."

If you want to read up on it see this reference: http://wiki.phpmyadmin.net/pma/Configuration_storage

²⁰ Only change the Cookie Length on a Development Machine. Do not change this value on a production machine. ²¹ Ensure that you are in an Elevated Command Prompt.

¹⁹ Change password to the password you created when you installed MySQL.

17 Reference: http://www.youtube.com/watch?v=KFYXY3MT-XA