

NASA EVA Gamification

MEDIA WIKI INSTALL (WINDOWS)

PHASE II



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Version Number	Description of Change	Author	Date
1.0	Initial Creation of Document	Michael Salgo	03/17/2018
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2.0	Additional Formatting	Laura Addiego	06/17/2018
2.1	Added additional on explanation and screenshots.	Laura Addiego	07/27/2018

***Credits:** This Media-Wiki installation instructions was prepared by the following Team: Michael Salgo, Victoria Guadagno, Okechukwu Ogudebe, Jacqueline Macfadyen, Kevin Fortier, and Montrell Nuble.

The current team, worked on enhancing the graphics and numbering the instructions for better understanding.

Introduction

Document Overview

This document will detail the steps needed to get MediaWiki up and running on a Windows-based environment.

Operating System

It is recommended to use Windows 7 or higher, 64-bit or 32-bit.

Web Browser

It is recommended to install the latest version of Mozilla Firefox or Google Chrome.

Firefox

The latest version of the Mozilla Firefox web browser can be found here: <https://www.mozilla.org/en-US/firefox/>.

Chrome

The latest version of the Google Chrome web browser can be found here: <https://www.google.com/intl/en/chrome/>.

MariaDB/MySQL

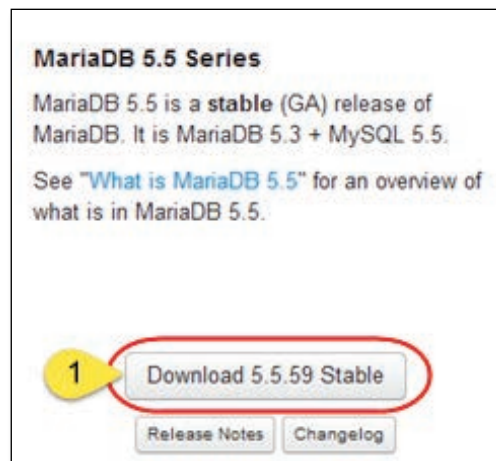
Either of these two databases are supported by MediaWiki. The version to install, as dictated by the Meza installer, is 5.5 for both MariaDB and MySQL.

MariaDB

The latest version of MariaDB can be found here: <https://downloads.mariadb.org/mariadb/>.

Installation Instructions:

1. Scroll down the page and look for “MariaDB 5.5 Series” – beneath this section there will be a “Download 5.5.[latest version number] Stable” button where [latest version number] will be the number of the latest version. At the time of this writing, the latest version is 5.5.59.



2. After clicking on the Download button, you will be brought to a download page, such as <https://downloads.mariadb.org/mariadb/5.5.59/>. Download either the 64- or 32-bit version for either the Windows x86_64 or the Windows x86 OS / CPU, respectively. Clicking on the “Windows” checkbox on the right-hand side under “Operating System” will help reduce the choices on the screen, making it easier to determine which file to download.
3. The recommended choice is to download the MSI file as it requires less bandwidth and does not have to be unzipped once downloaded.

MariaDB 5.5.59 Stable 2018-01-19 [View all releases](#)

[Release Notes](#) [Changelog](#)

Affordable, enterprise class product support, professional services, and training for your MariaDB database is available from the MariaDB Foundation's release sponsor, MariaDB Corporation. To learn more about them and their services for MariaDB, visit their [website](#), or email MariaDB Corporation at sales@mariadb.com.

File Name	Package Type	OS / CPU	Size	Meta
mariadb-5.5.59-winx64.msi	MSI Package	Windows x86_64	44.9 MB	Checksum Instructions
mariadb-5.5.59-winx64.zip	ZIP file	Windows x86_64	117.6 MB	Checksum Instructions
mariadb-5.5.59-win32.zip	ZIP file	Windows x86	119.0 MB	Checksum Instructions
mariadb-5.5.59-win32.msi	MSI Package	Windows x86	43.8 MB	Checksum Instructions

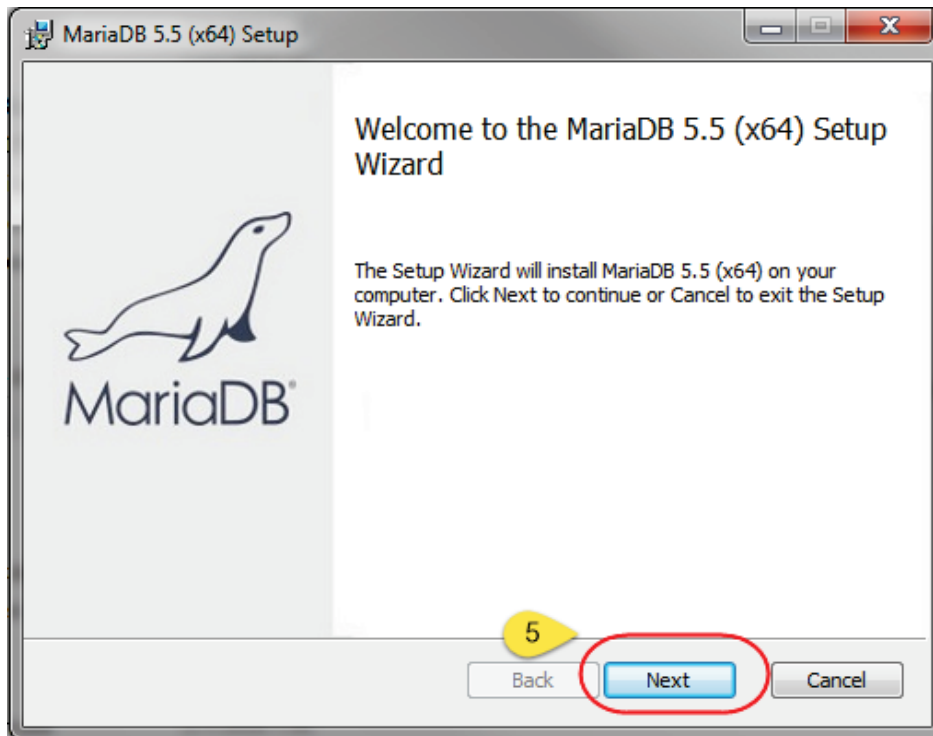
Want to learn more about MariaDB? Check out our [whitepapers](#).

Operating System

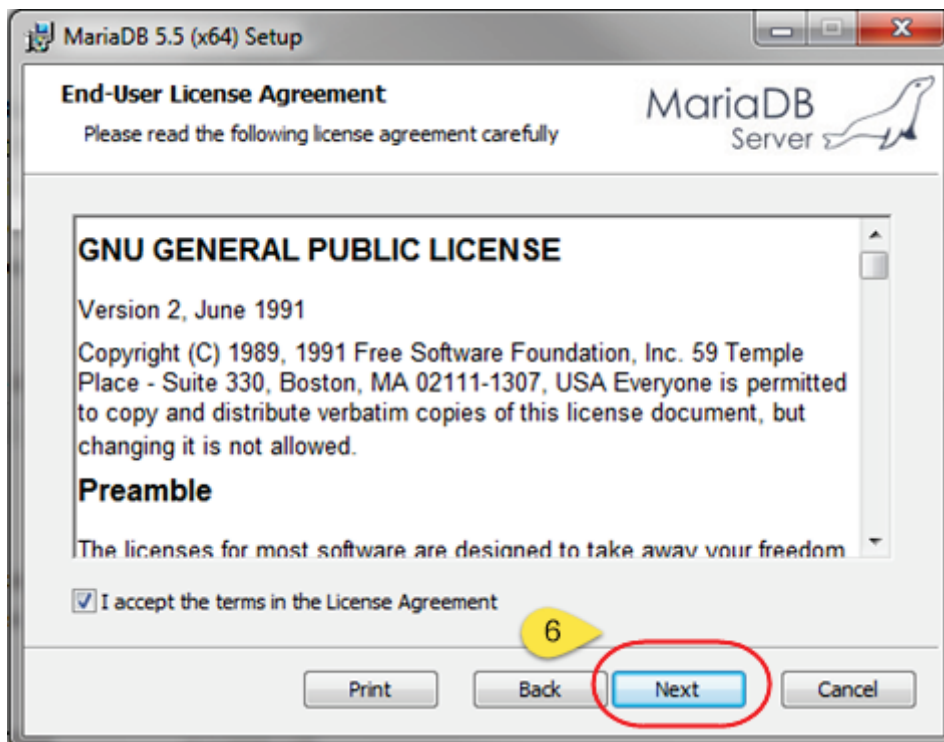
- ☐ DEB Package
- ☐ Generic Linux
- ☐ RPM Package
- ☐ Source Code
- ☒ Windows

4. Once downloaded, double-click the .msi file to start the install. Click “Run” if a security warning dialogue appears.

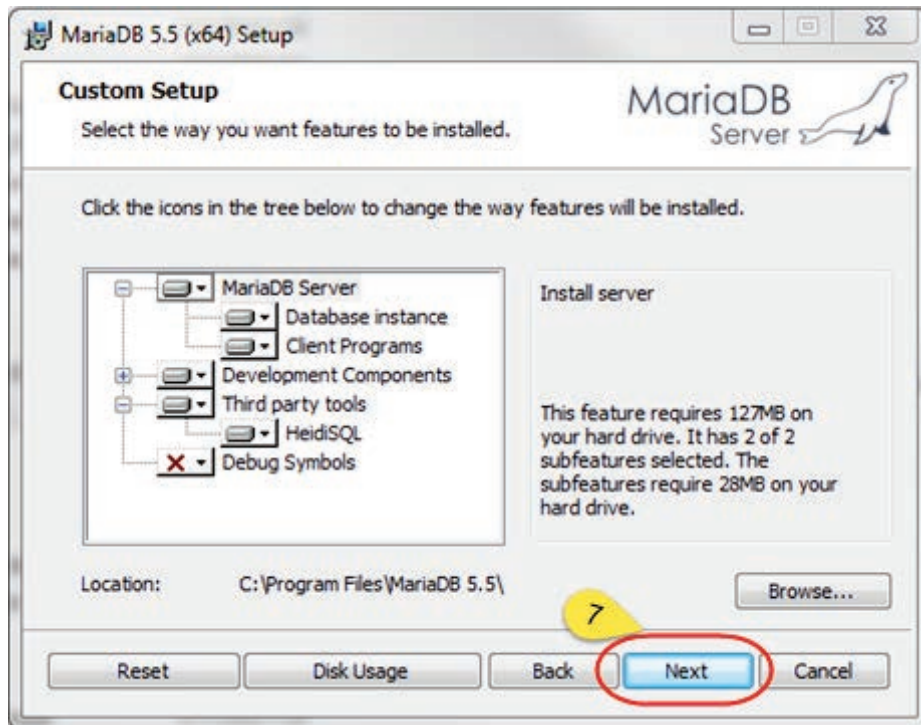
5. Start the install by clicking "Next."



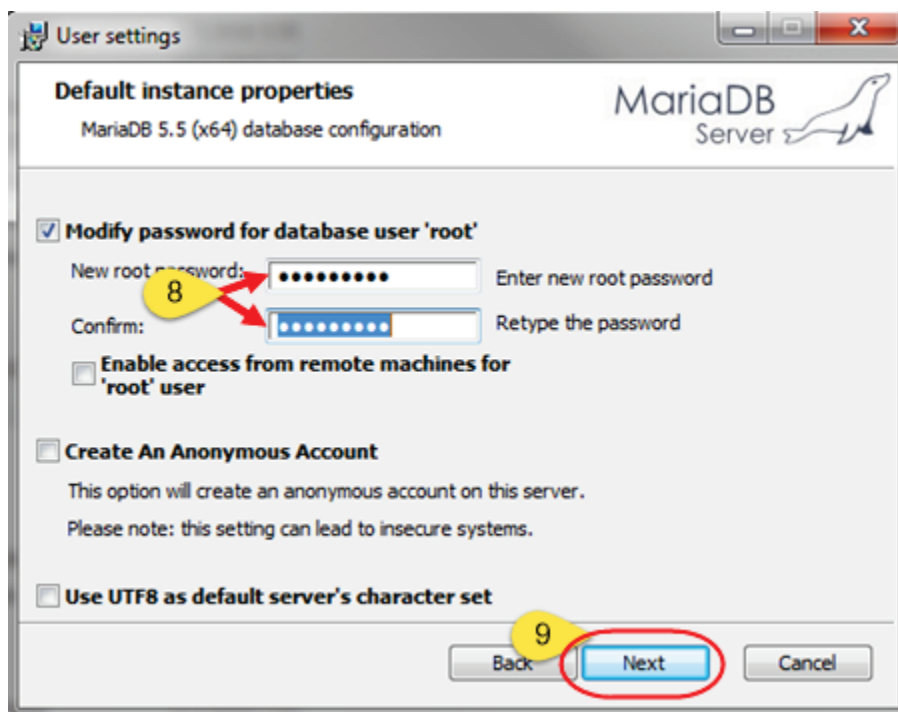
6. Click on the "I accept the terms in the License Agreement" checkbox and click on "Next."



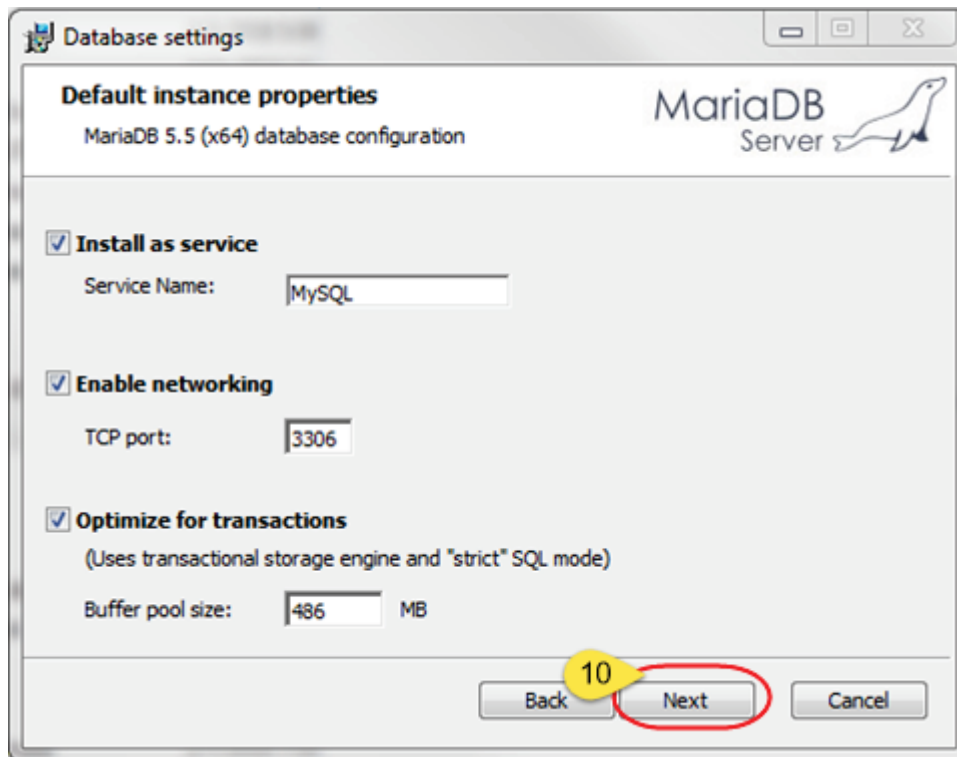
7. Leave every setting as is, unless you want to change the location of the install, and click on "Next."



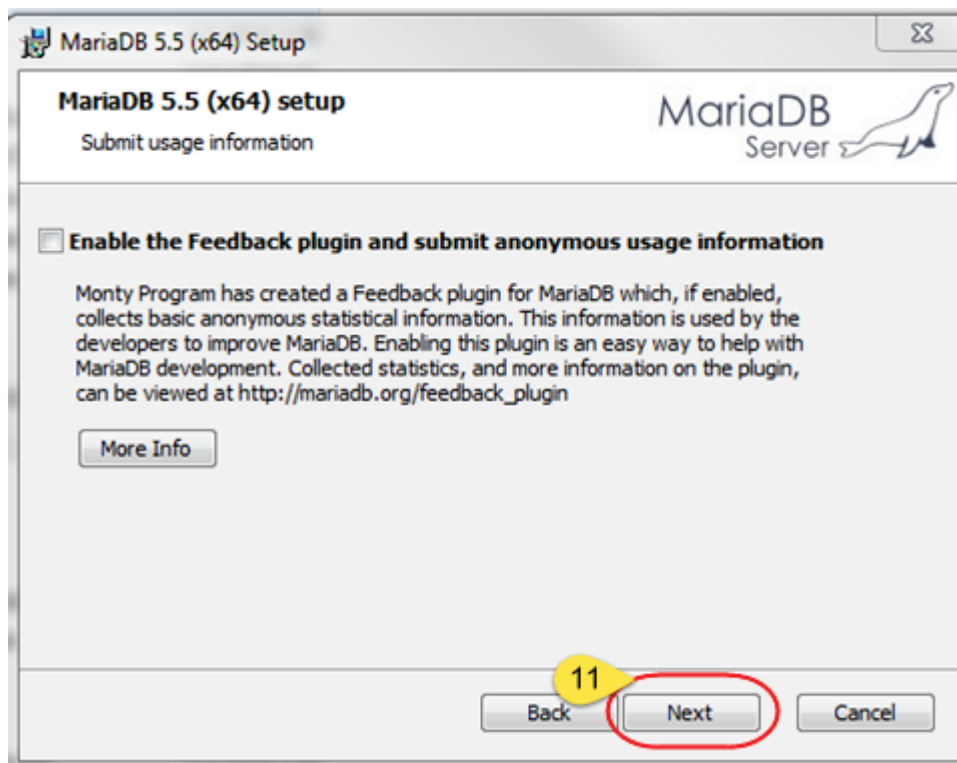
8. Type in a new root password for yourself, and
9. "Confirm:" textbox – leave all other options as is and click on "Next."



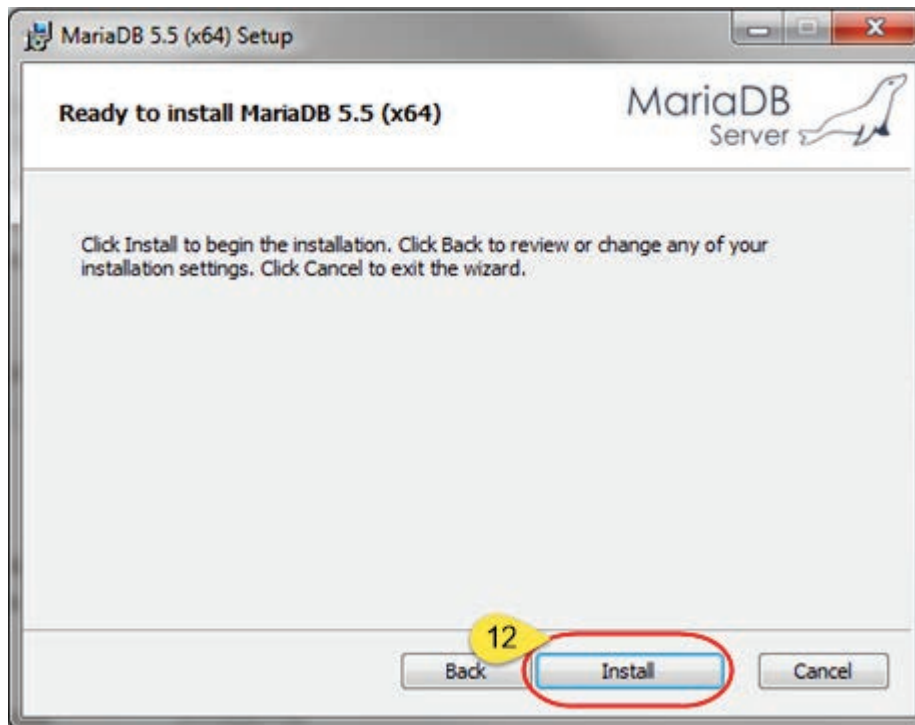
10. Leave everything as is and click on “Next.”



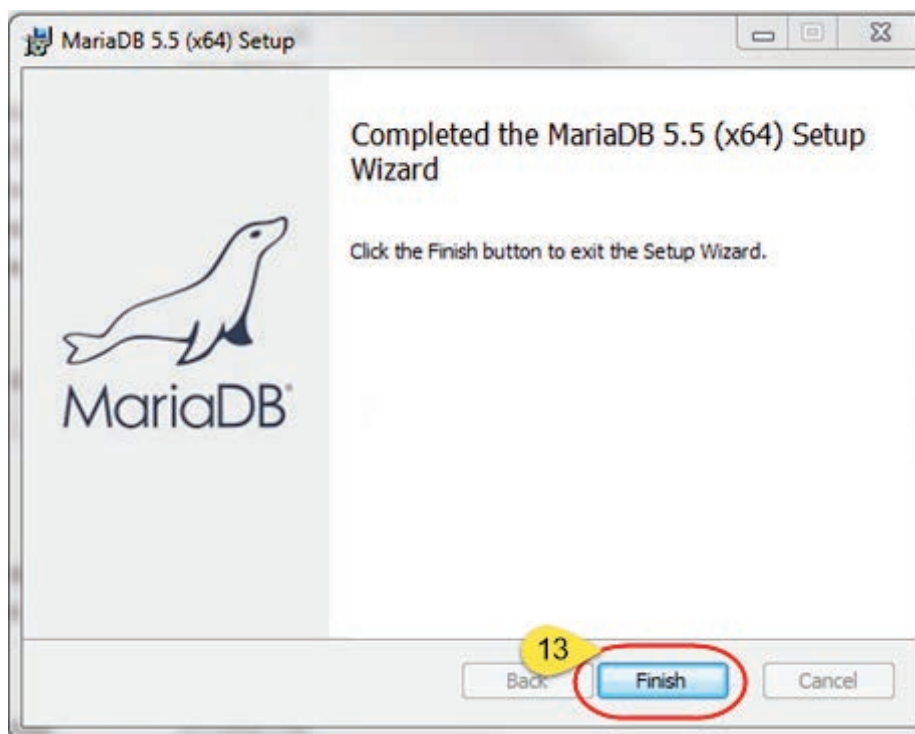
11. Leave everything as is and click on “Next.”



12. Click on "Install."



13. Click on "Finish."



MySQL

** Installation steps for MySQL under Windows are not presently documented **

HTTP Server

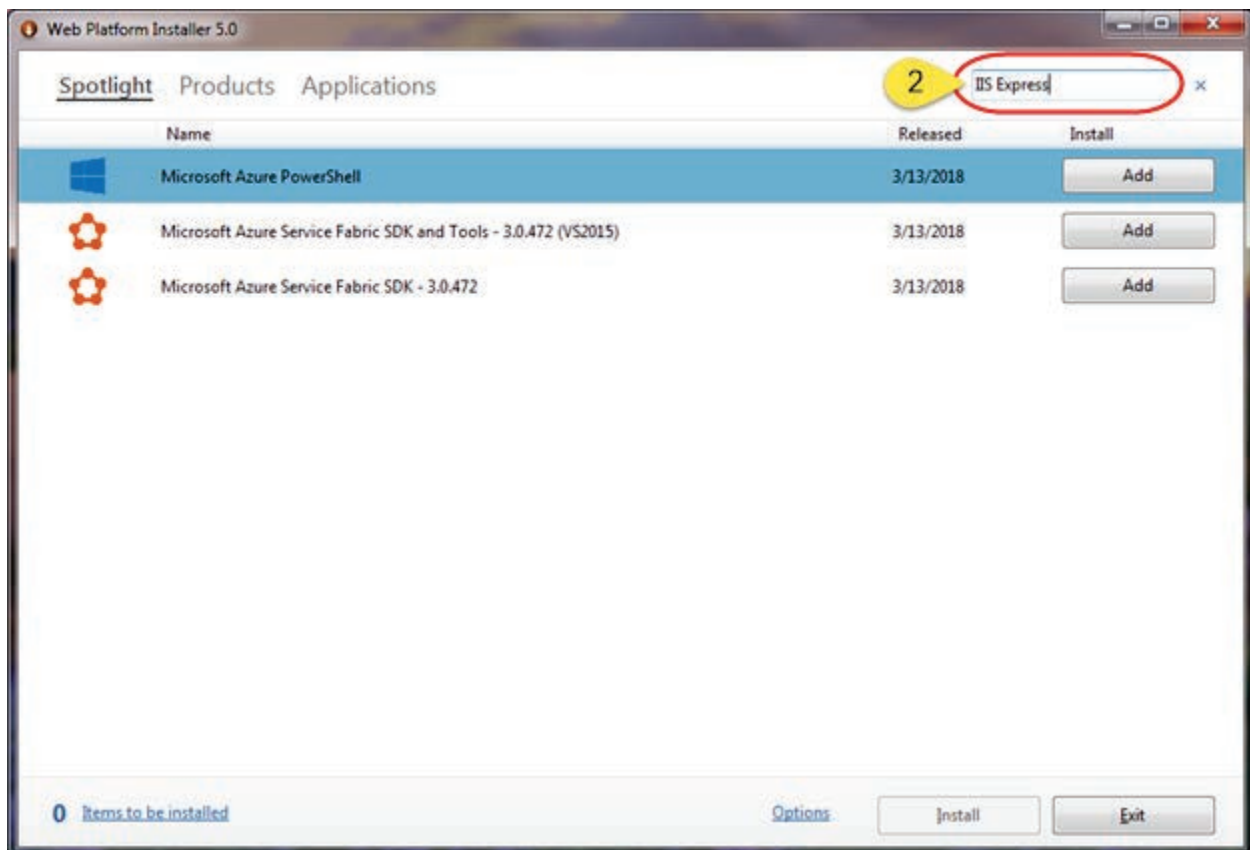
IIS

** Installation steps for IIS under Windows are not presently documented **

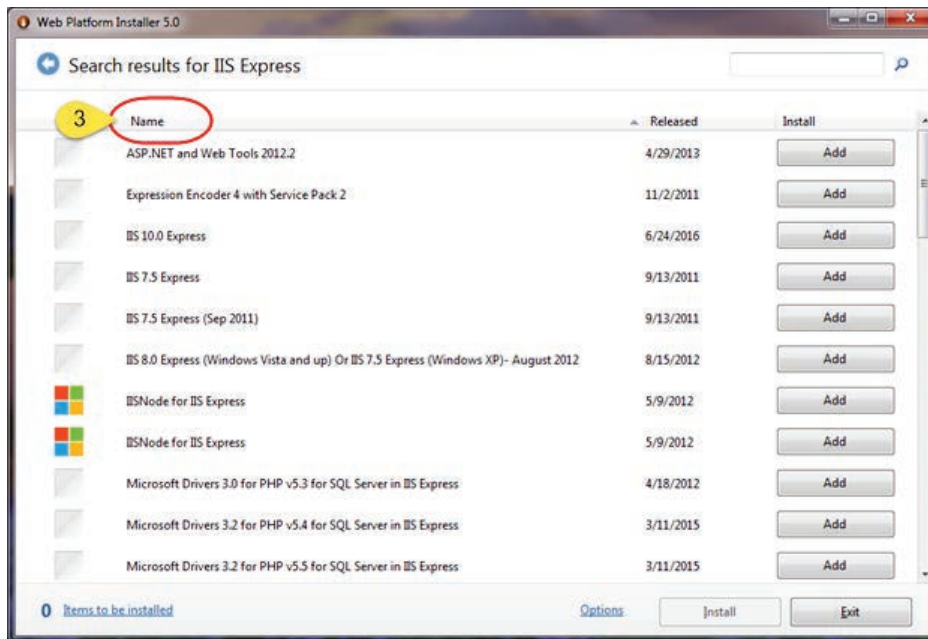
IIS Express

The easiest way to install IIS Express will be to first install the **Microsoft Web Platform Installer (WPI)**. Read and follow the steps to download the WPI [below](#) to be able to easily install IIS Express on your Windows computer. Come back to this section for the next steps thereafter.

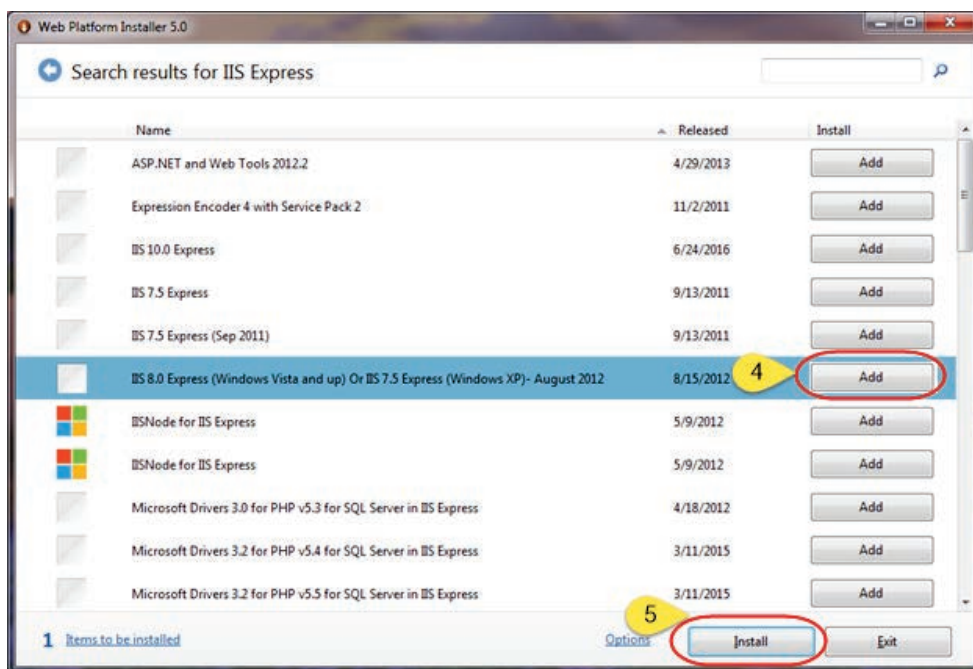
1. Go to Start → All Programs and look for and click on “Microsoft Web Platform Installer.”
2. Once WPI loads, type in “IIS Express” in the search bar on the top right and press Enter on your keyboard.



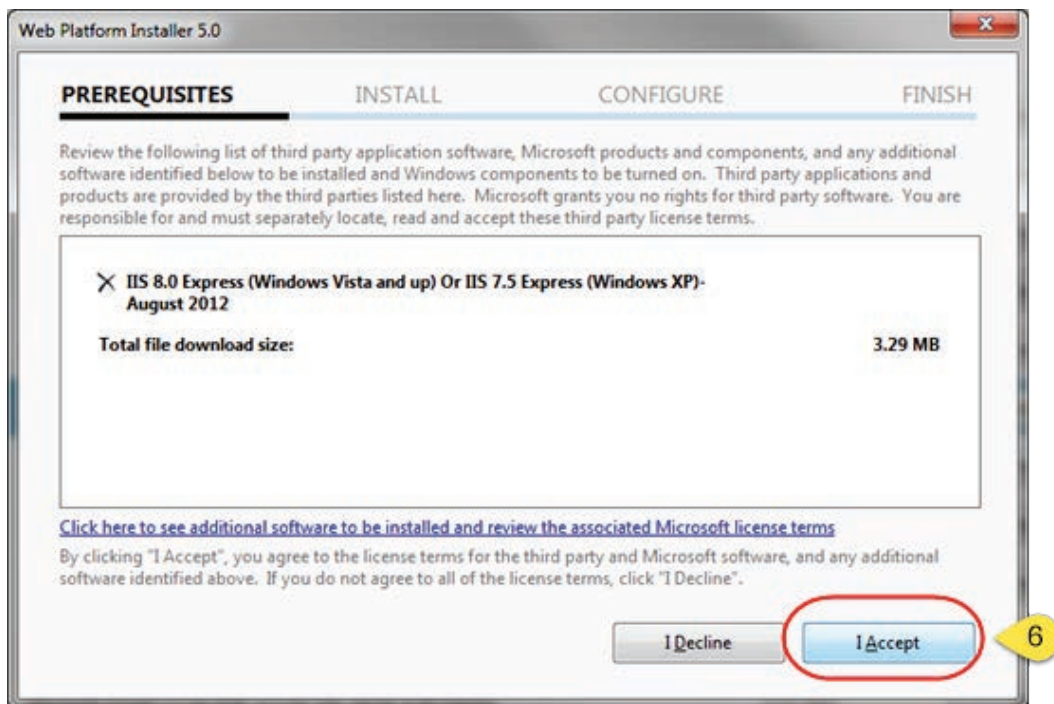
3. Click on the “Name” column header to sort the list by name.



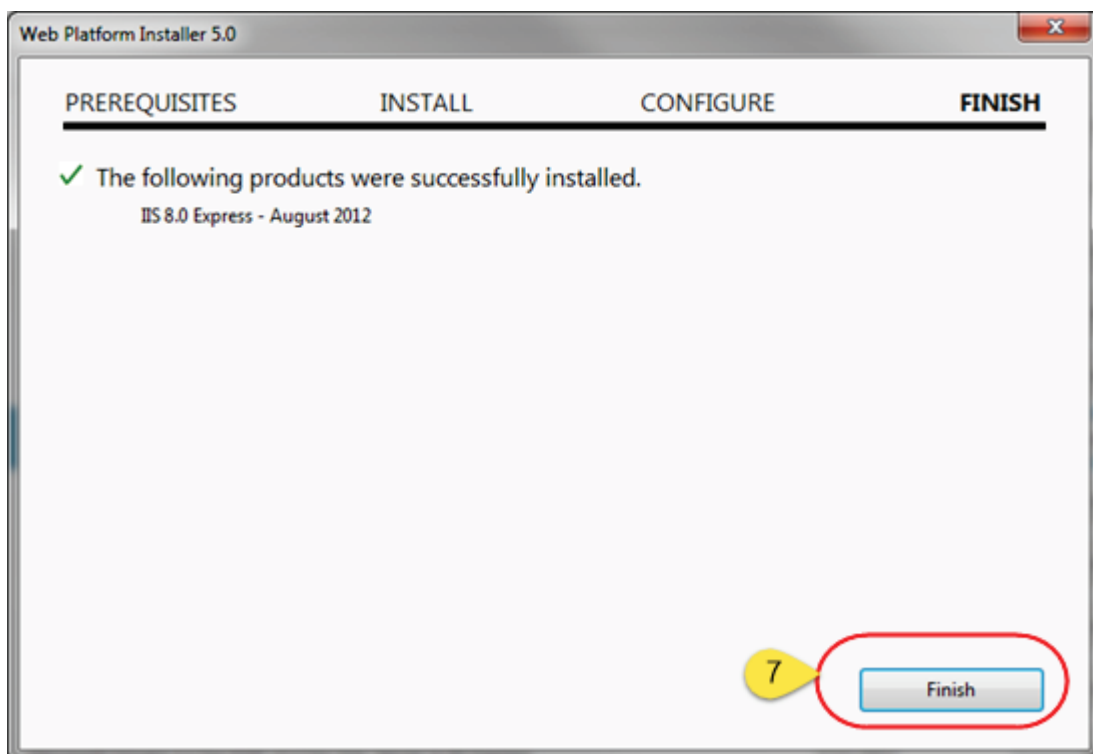
4. Click on the “Add” button next to either the IIS 10.0 Express, IIS 7.5 Express (either option) or the IIS 8.0 Express. It is recommended to use the IIS 8.0 Express version as it is more proven than the 7.5 version and more well-documented than the 10.0 version.
5. Click “Install” on the bottom right to start the IIS 8.0 Express installation.



- Click "I Accept" on the bottom right to accept the Microsoft license terms.



- Click on "Finish" to complete the installation.

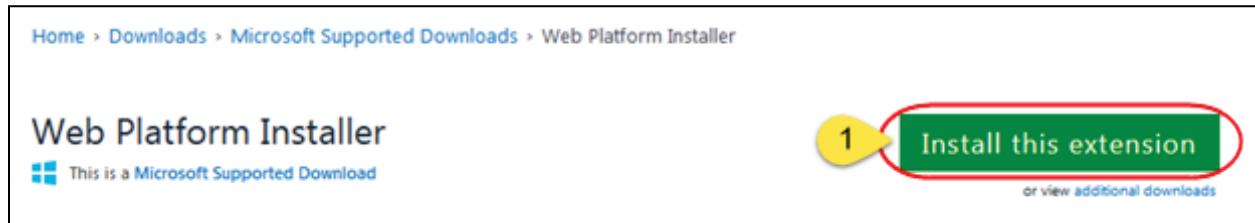


Microsoft Web Platform Installer

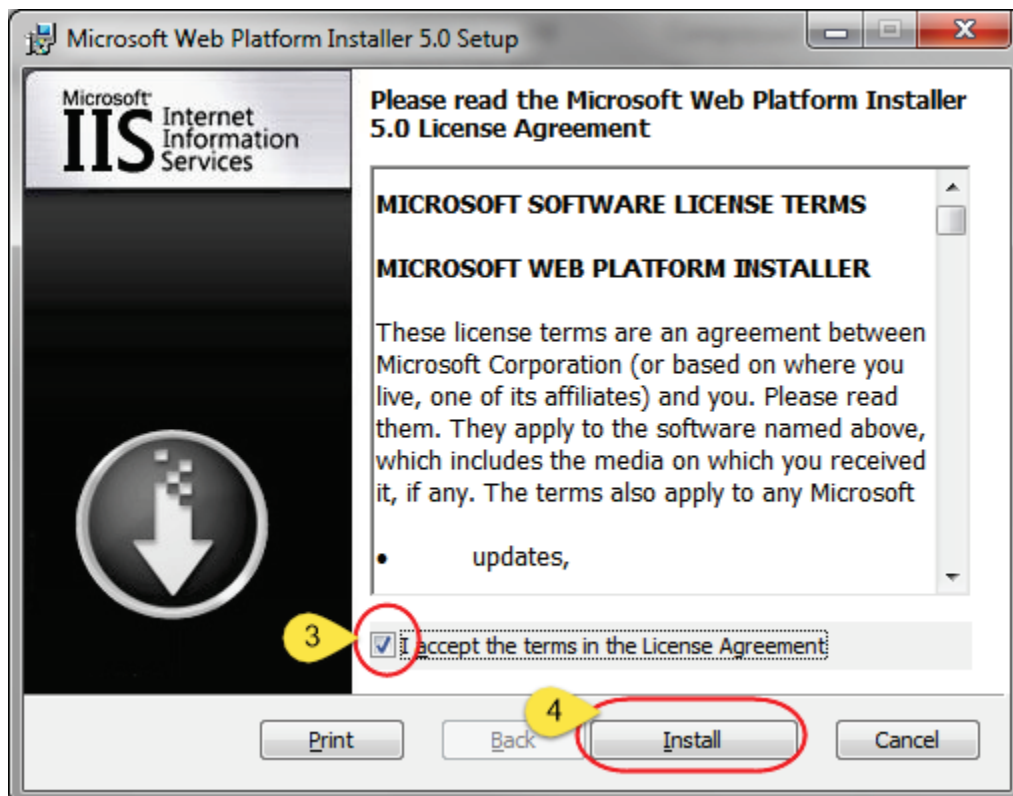
At the time of this writing, the latest version is 5.0. Microsoft Web Platform Installer (WPI) can be obtained by going to <https://www.microsoft.com/web/downloads/platform.aspx>.

Once on this website:

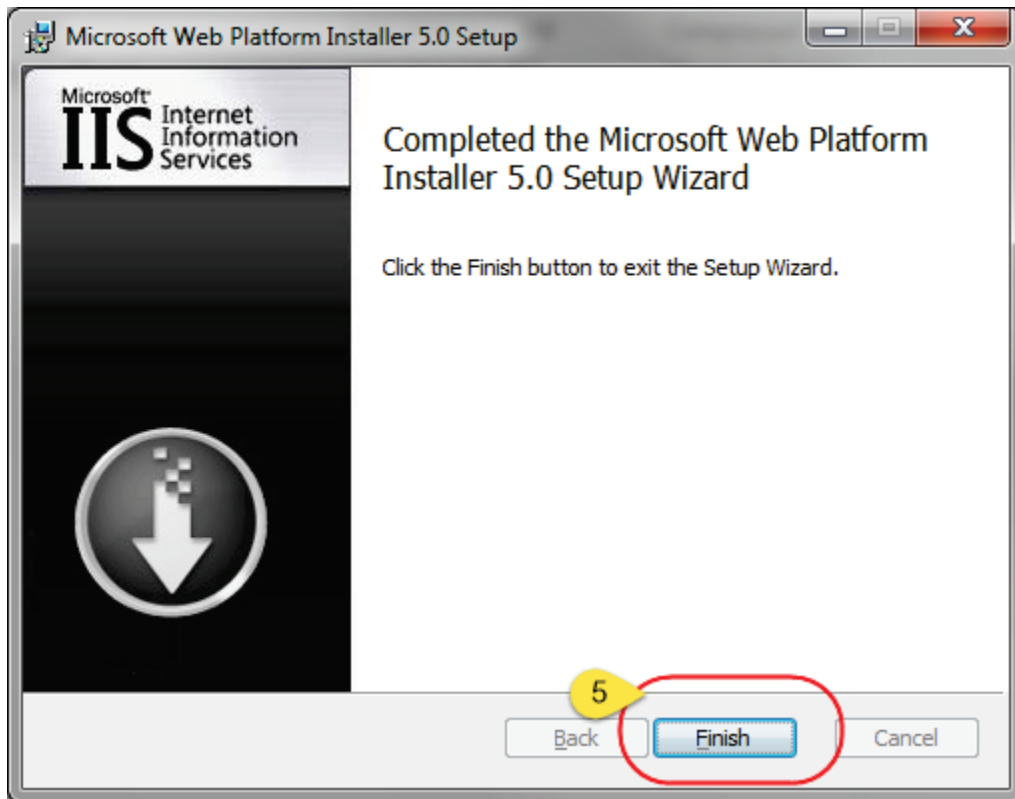
1. Click on “Install this extension.” If a dialogue prompt appears to open or save the file, save it.



2. Once downloaded, double-click the .msi file to start the install. Click “Run” if a security warning dialogue appears.
3. Start the install by clicking the “I accept the terms in the License Agreement” checkbox and
4. Click on “Install.”



5. Click on “Finish” to complete the installation.



Return to the Windows-based IIS Express install instructions [above](#).

PHP

PHP is a platform free coding language which is the language used by MediaWiki. The Meza package installs version 5.6 of PHP.

The latest version of PHP 5.6 at the time of this writing is 5.6.31. The easiest way to install PHP on Windows is to use the Web Platform Installer (WPI).

IIS

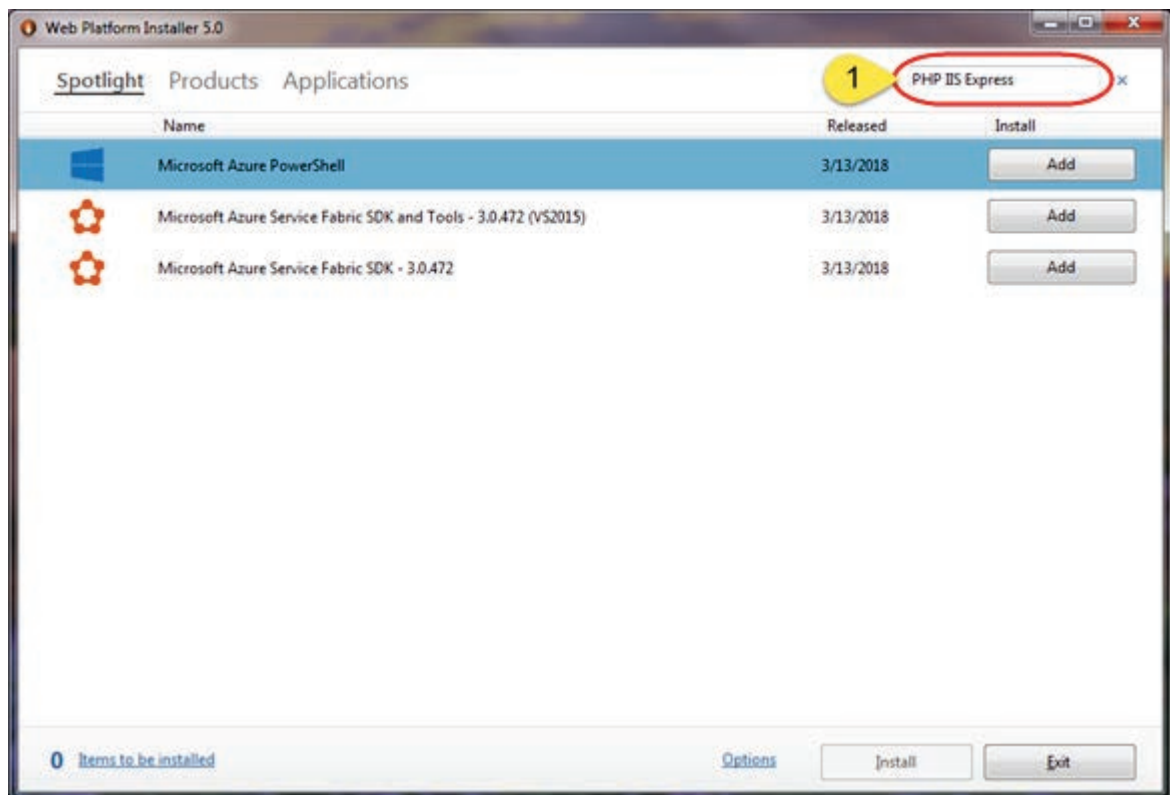
** Installation steps for IIS under Windows are not presently documented **

IIS Express

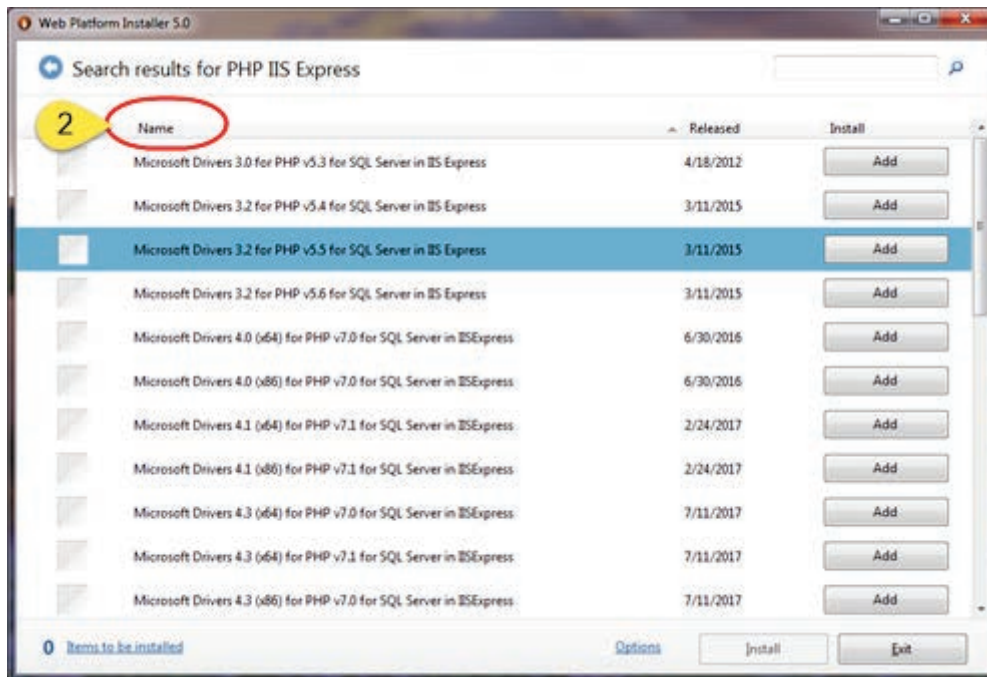
Go to Start → All Programs and look for and click on “Microsoft Web Platform Installer.”

Once WPI loads,

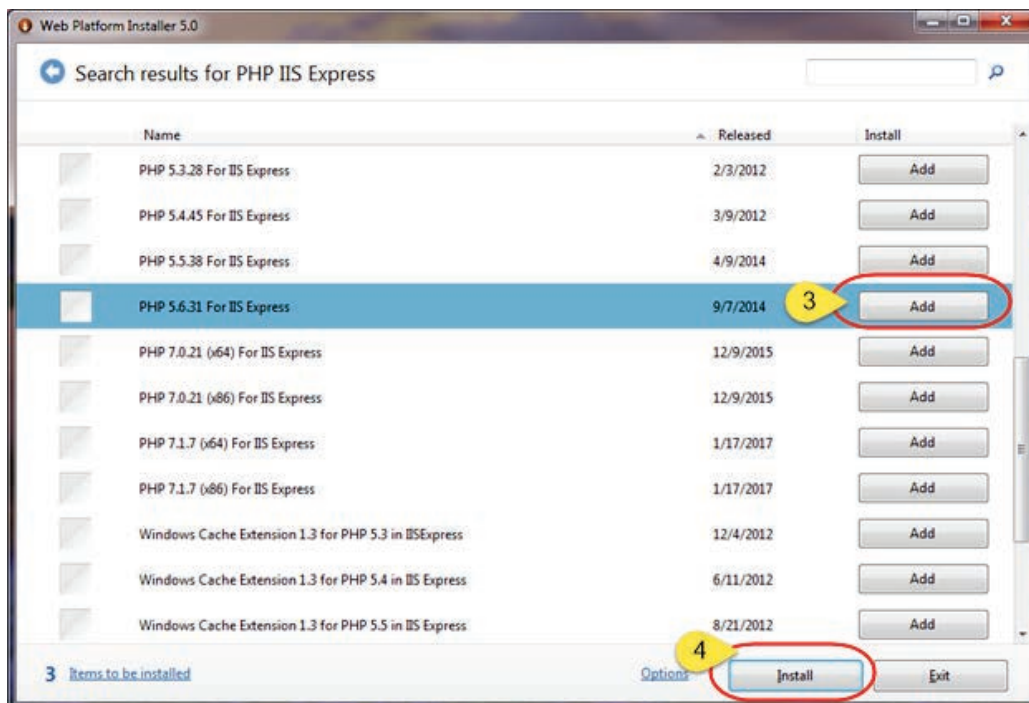
1. Type in “PHP IIS Express” in the search bar on the top right and press Enter on your keyboard.



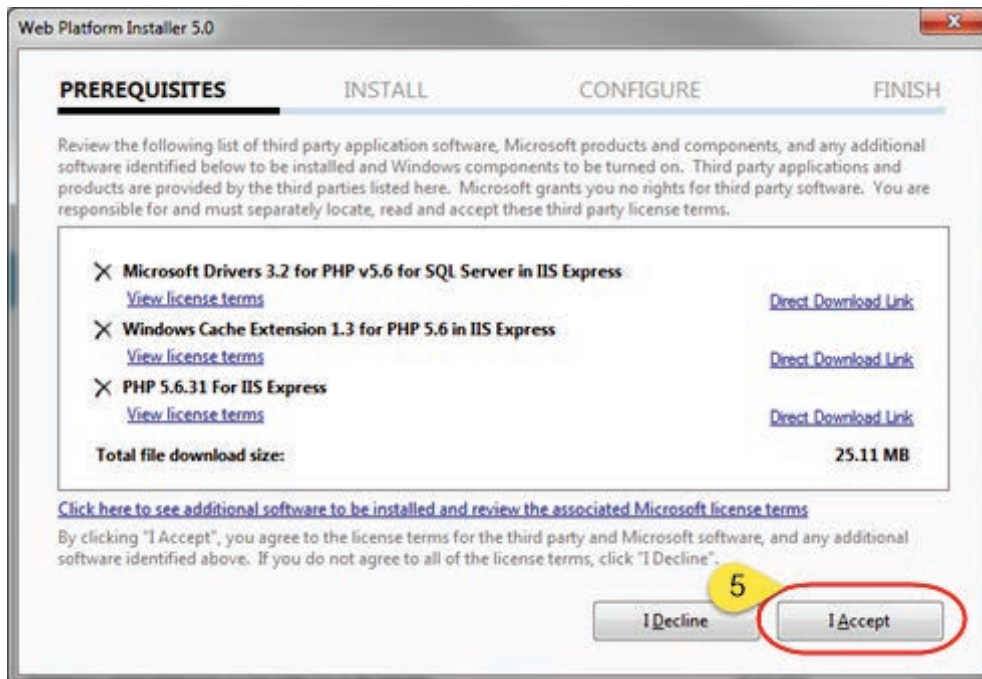
- Click on the “Name” column header to sort the list by name.



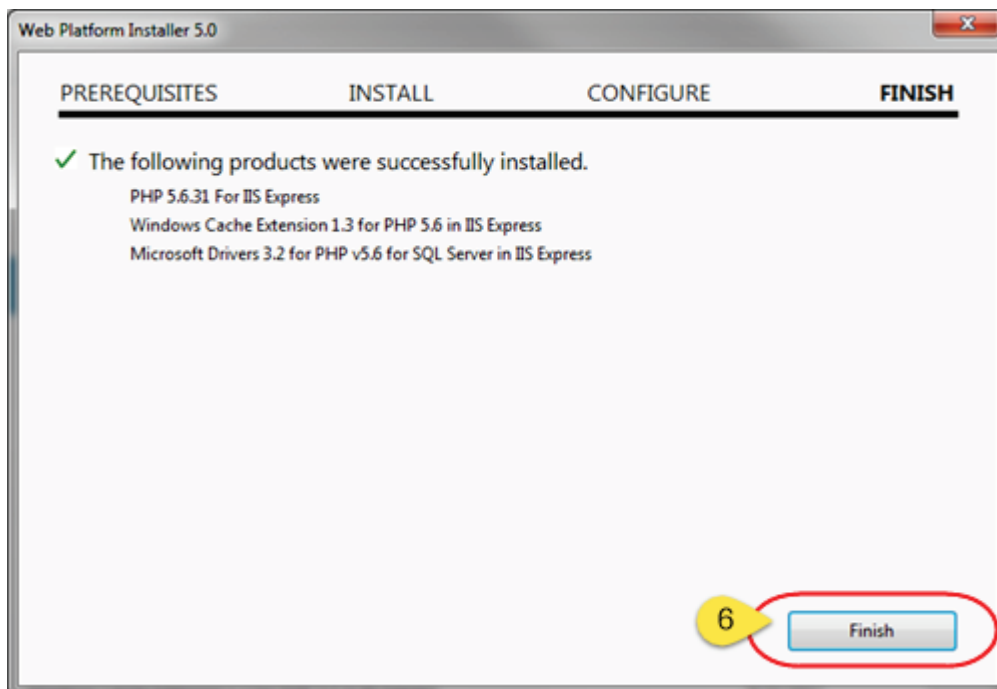
- Scroll down and click on the “Add” button next to “PHP 5.6.[latest version number] IIS Express” where the [latest version number] will be the latest version available.
- Click “Install” on the bottom right to start the PHP for IIS Express installation.



5. Click "I Accept" on the bottom right to accept the Microsoft license terms.



6. Click on "Finish" to complete the installation.

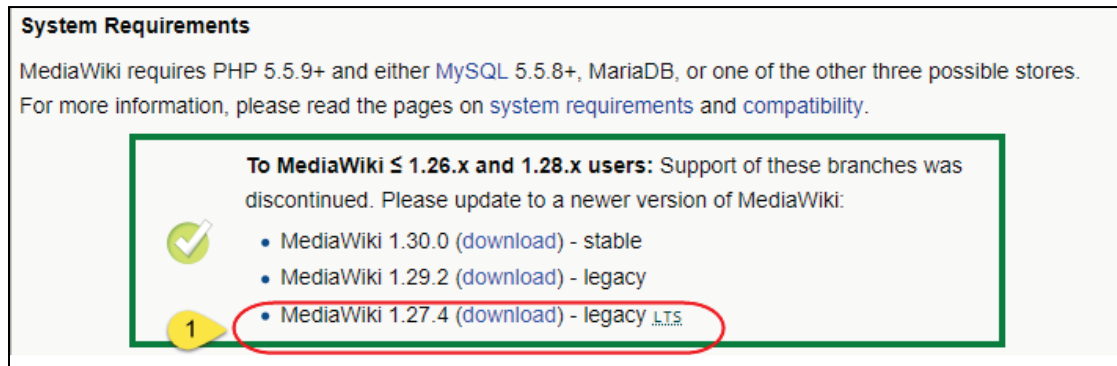


MediaWiki

MediaWiki is an open source wiki platform which is the foundation for this project. The Meza package installs version 1.27 of MediaWiki.

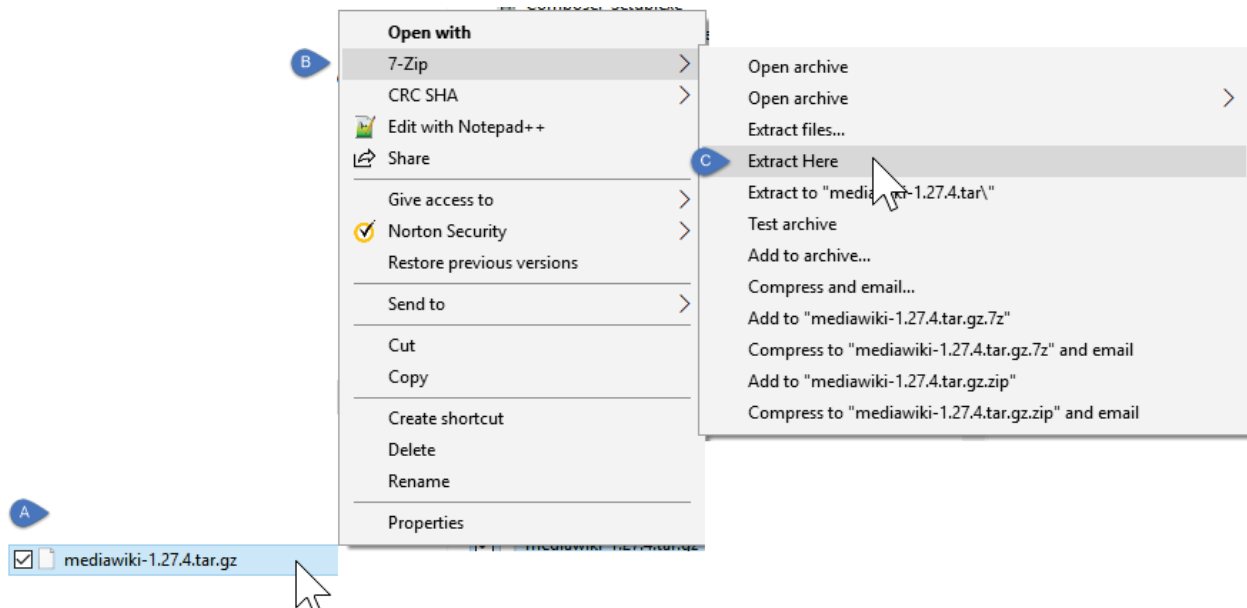
The latest version of MediaWiki 1.27 can be found here: <https://www.mediawiki.org/wiki/Download>.

1. Locate the “download” link for MediaWiki 1.27.[latest version number] where [latest version number] will be the number of the latest version. At the time of this writing, the latest version is 1.27.4.

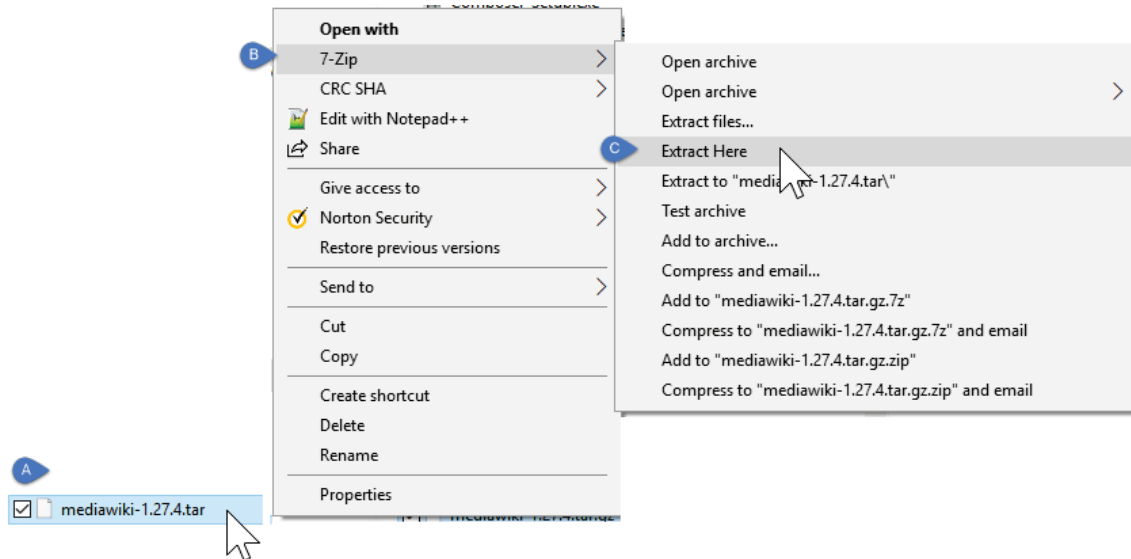


This will download a .tar.gz file which needs to be double unzipped in order to get to the files needed. Windows does not come with a way to unzip .tar.gz files so a third party program will need to be installed. Read and follow the steps to download 7-Zip, a free unzipping utility, [below](#) to be able to unzip the contents of this download file. Come back to this section for the next steps thereafter.

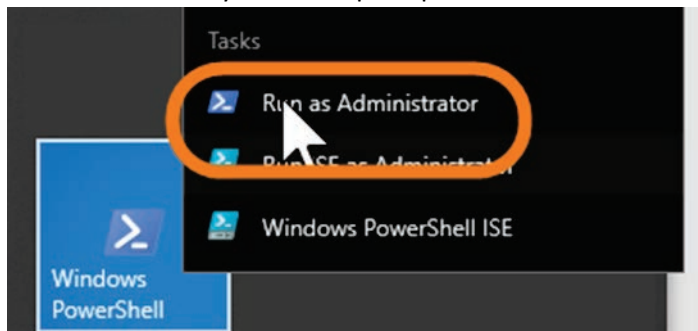
2. Right-click the downloaded “.tar.gz” file, hover over “7-Zip,” and click on “Extract Here.” This will create a .tar file which itself needs to be unzipped.



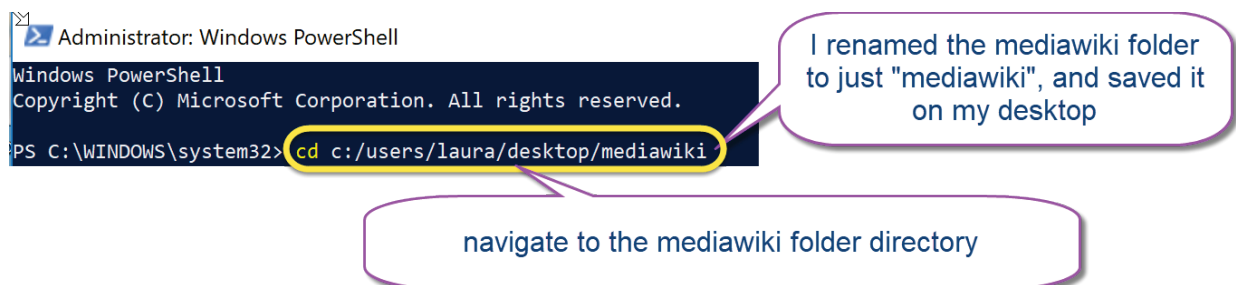
3. Right-click the unzipped .tar file, hover over "7-Zip," and click on "Extract Here." This will take a minute or so to unzip as there are a lot of files in this folder.



4. Place this folder (or a copy of this folder) somewhere convenient as it will be used very frequently when viewing or modifying the MediaWiki. This folder will be referred to as the **MediaWiki** folder in steps below.
5. Right click your "Command prompt" or "Windows PowerShell" and select "Run as Administrator" -not running as administrator could generate an error when running the command. Click "yes" at the prompt.



6. Change the directory to the MediaWiki folder path.



7. Start IIS or IIS Express by following the steps [below](#) (Appendix B: 7. Start IIS or IIS Express) to be able to access these files within the MediaWiki folder like a web site. Come back to this section for the next steps thereafter.
8. Open up your web browser (Chrome or Firefox) and go to <http://localhost:8080>. A default home page will appear.

Click on the “set up the wiki” link.



This will take you to the <http://localhost:8080/mw-config/index.php> page.

9. Click on “Continue →” or change your language if desired.

MediaWiki 1.27.4 installation



The screenshot shows the 'Language' selection screen of the MediaWiki 1.27.4 installation. It has two sections: 'Your language:' and 'Wiki language:'. Both sections have a 'help' link and a dropdown menu currently set to 'en - English'. A yellow callout bubble with the number '9' points to the 'Continue →' button. On the right side, there is a sidebar with a list of installation steps: Language, Existing wiki, Welcome to MediaWiki!, Connect to database, Upgrade existing installation, Database settings, Name, Options, Install, Complete!, and Restart installation.

10. Scroll down to the bottom of the page and click on “Continue →.”



The screenshot shows the legal notice screen of the MediaWiki 1.27.4 installation. It contains a paragraph about the GNU General Public License and a link to read it online. At the bottom, there are two buttons: '← Back' and 'Continue →'. A yellow callout bubble with the number '10' points to the 'Continue →' button.

11. Leave “Database type:” as “MySQL (or compatible)” as the “or compatible” references MariaDB.
Leave all other information as is,
12. Type in a “Database password:” and
13. Click on “Continue →.” You can use the same password as your MariaDB install if desired.



The screenshot shows the 'User account for installation' screen of the MediaWiki 1.27.4 installation. It has two input fields: 'Database username:' and 'Database password:'. The 'Database username:' field contains the text 'root'. The 'Database password:' field contains a series of dots. A yellow callout bubble with the number '11' points to the 'Database username:' field, and another yellow callout bubble with the number '12' points to the 'Database password:' field. At the bottom, there are two buttons: '← Back' and 'Continue →'. A yellow callout bubble with the number '13' points to the 'Continue →' button.

14. Leave "Storage engine:" as InnoDB and
15. change "Database character set:" to UTF-8 as these settings mimic what is installed with the Meza install.
16. Click on "Continue →."

Database settings

Database account for web access ☐ Use the same account as for installation

Storage engine:

14 ☒ InnoDB ☐ MyISAM

Database character set:

15 ☐ Binary ☒ UTF-8

16

- Language
- Existing wiki
- Welcome to MediaWiki!
- Connect to database
- Upgrade existing installation
- **Database settings**
- Name
- Options
- Install
- Complete!
- Restart installation

17. Give your Wiki a name such as "My Wiki,"

Name

Name of wiki:

17

- Language
- Existing wiki
- Welcome to MediaWiki!
- Connect to database
- Upgrade existing installation

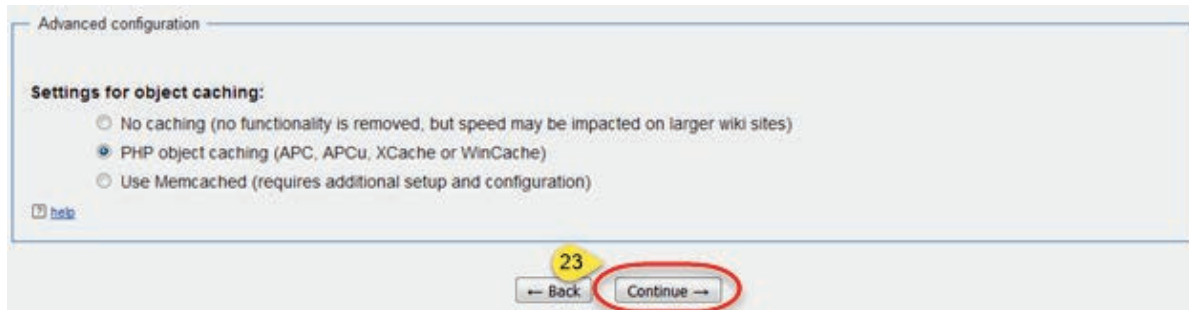
18. Type in a username and
19. Type in a password. You can use the same password as your MariaDB install if desired.
20. Confirm password.
21. Leave all other settings as is (including "Email address:")
22. Click on "Continue →" at the bottom of the page.

The screenshot shows the MediaWiki installation 'Create account' page. It features several input fields and a checkbox, with numbered annotations (18-22) and red circles highlighting specific elements:

- 18:** Points to the 'Your username:' label and the text input field containing 'Laura'.
- 19:** Points to the 'Password:' label and the password input field.
- 20:** Points to the 'Password again:' label and the confirmation password input field.
- 21:** Points to the 'Email address:' label and the email input field.
- 22:** Points to the 'Continue →' button at the bottom right.

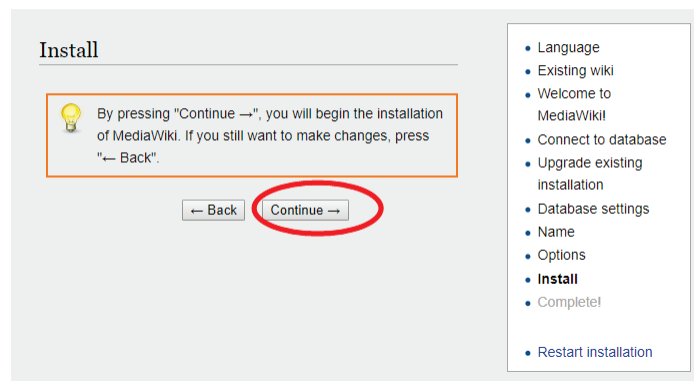
Other visible elements include 'help' links, a checkbox for 'Subscribe to the release announcements mailing list', and a message box stating: 'You are almost done! You can now skip the remaining configuration and install the wiki right now.' Below this message are two radio buttons: 'Ask me more questions.' (selected) and 'I'm bored already, just install the wiki.'

23. Leave all settings as is and scroll down to the bottom of the page and click on “Continue →.”
Some extensions may be enabled from here for future use, but for now at the time of this writing, no extensions are needed.



24. Click on “Continue →.”

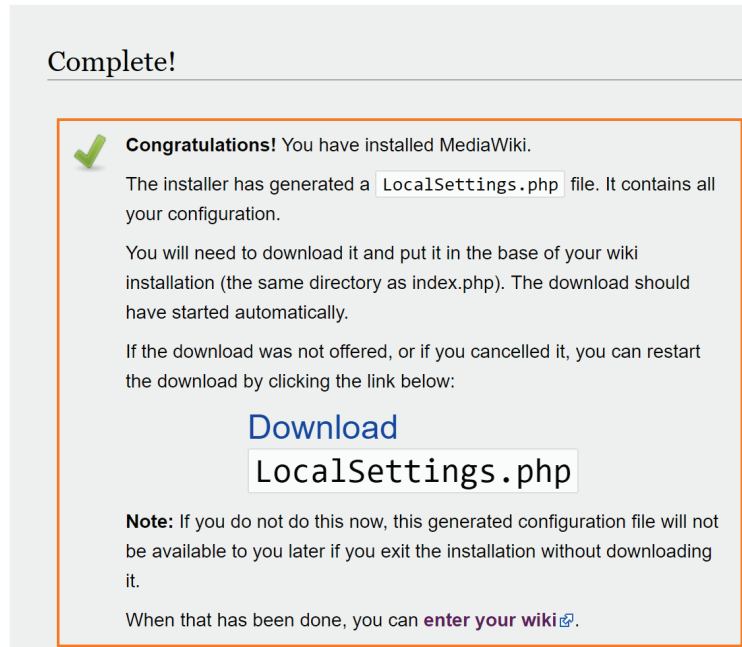
MediaWiki 1.27.4 installation



25. A dialogue will appear with an option to open or save a LocalSettings.php file. **Save this file in the MediaWiki folder** at the root level or save it somewhere else first and move it to the MediaWiki folder thereafter.

26. A confirmation message will be displayed confirming the success of the installation.

MediaWiki 1.27.4 installation



Note: If you missed to download the "LocalSettings.php" file on the previous step, you may click on the link "Download" and save it. This will be your last chance of doing so.

27. Access in your browser: <http://localhost:8080> and login using the username and password you created during installation to confirm that the MediaWiki installation was successful.
28. If successful, log out; if not, review the steps described above and try again.
29. Stop the IIS Express by entering 'Q' in the console -but don't close it yet, as we are going to continue working on it.

NASA EVA Gamification Extension Installation Instructions

1. Obtain the code from [GitHub](https://github.com/SWEN670NASA/EVA2/NASA_EVA_Gamification)

2. From the extracted files and folders, copy the entire folder called `NASA_EVA_Gamification`.

On your local MediaWiki folder installation navigate to the `mediawiki/extensions/` folder and paste the `NASA_EVA_Gamification` folder.

3. Located at root level of your "MediaWiki" folder edit `LocalSettings.php`.

a) Change the default MediaWiki logo:

Find `$wgLogo` and replace everything after the '=' sign with the following:

```
"$wgResourceBasePath/extensions/NASA_EVA_Gamification/images/nasa-wiki-logo.png";
```

The line should look like:

```
$wgLogo = "$wgResourceBasePath/extensions/NASA_EVA_Gamification/images/nasa-wiki-  
logo.png";
```

b) Add global variables

add the following code at the bottom of your `LocalSettings.php` file and save the changes:

```
# Nasa Eva Gamification >> Phase 1
```

```
wfLoadExtension(  
    'NASA_EVA_Gamification' );  
  
$wgShowDebug = true;  
$wgDebugComments = true;  
$wgEnableParserCache = false;  
$wgCachePages = false;
```

```
# Nasa Eva Gamification >> Phase 2
```

```
$wgPhase2Images = "$wgResourceBasePath/extensions/NASA_EVA_Gamification/images/";  
$wgProfilePage=$wgServer.$wgResourceBasePath."/index.php/Special:UserGamificationProfile";
```

```
$wgBadges=array('platinum'=>'500','gold'=>'200','silver'=>'100','bronze'=>'50');  
$wgPoints = array(0=>50, 1=>100);  
$wgLeaderBoardPointScale=100;
```

c) Save the file.

Note: *\$wgShowDebug = true; is for debugging purposes; so, it is recommended to have it set to “true” in a development environment and set to “true” in a production environment.*

4. Replace the default logo with the NasaWiki gamification logo: open 'LocalSettings.php' and search for

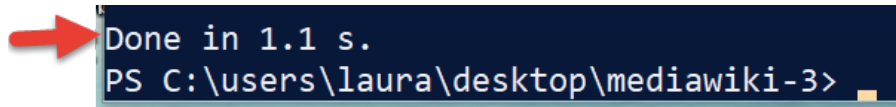
5. If you have not stopped IIS Express yet, stop it by entering the letter 'Q' in the console, but don't close it.

6. At this point, on the shell prompt, you should be on the MediaWiki folder. If you accidentally closed it, open it again as an Admin, and navigate to the folder where you have saved the "MediaWiki"

a) Run the following command:

php maintenance/update.php

b) Wait for a confirmation message



```
Done in 1.1 s.  
PS C:\users\laura\desktop\mediawiki-3>
```

Note: if you get a security error, run the shell prompt as an administrator.

7. Move and replace the following files “From” the specified folder “To” the specified folder.

a) File: WikiPage.php

From folder: `mediawiki/extensions/NASA_EVA_Gamification/`

To folder: `mediawiki/includes/page/`

b) File: Revision.php

From folder: `mediawiki/extensions/NASA_EVA_Gamification/`

To folder: `mediawiki/includes/`

8. From a shell prompt,

- a) Navigate to the folder where you have saved the `MediaWiki`
- b) Run ``runphp.cmd``

9. Open a web browser and access your local instance: <http://localhost:8080>

- a) Click "Log in" on the upper right corner link.
- b) Use the username and password that you created when installing the Wikimedia or create a new user.
- c) From the left hand-side navigation select `Special pages`
- d) Scroll down (almost until the end of the page) and verify that under the `Other Special pages` section the "User Gamification Profile" extension has been successfully installed.
- e) Click on `User Gamification Profile` to confirm that the extension was install successfully.
Please note that since you have not added or edited any page, you will see just your username and name (if you have it defined) with a message stating:
No data found!

User Gamification Profile

Username: Laura

Name: [Not Populated]

No data found!

10. You are Done!!

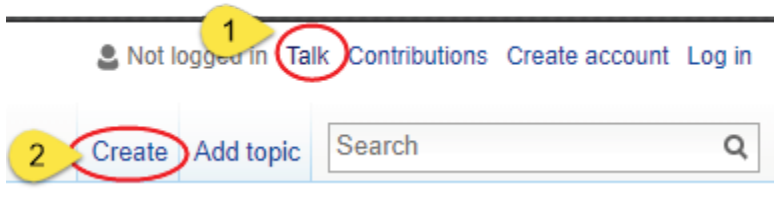
Note

This extension was designed for MediaWiki 1.27 or later.

Earning Points

By Creating a Page

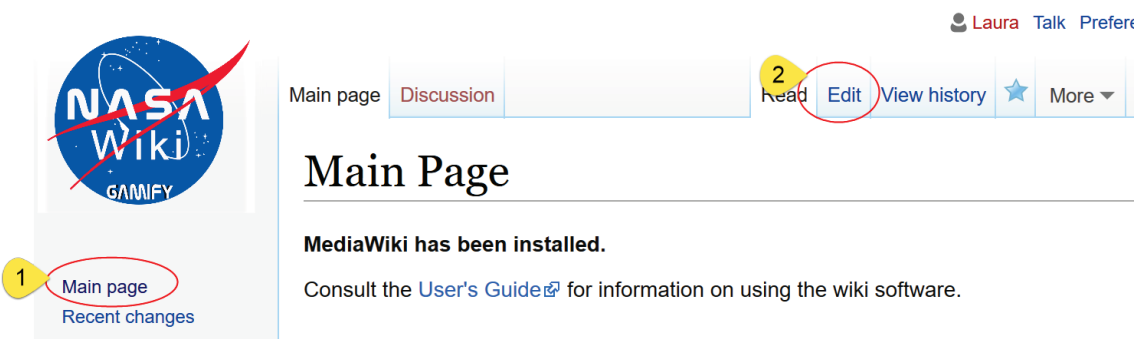
- 1) Click on “Talk” on the upper right navigation.
- 2) Click on “Create”



- 3) Type in your text, scroll down, and click on “Save page”.

By Editing a Page

- 1) Click on “Main page” on the left-hand side navigation or navigate to the page you want to edit.
- 2) Click on “Edit”



- 3) Edit/Add the content of the page, scroll down, and click on “Save page”.

Checking Your Points and Badges Earned

Visit the “User Gamification Profile” to see points being added and badges being earned as you add and edit posts.

1. Click on “Special pages”
2. Scroll down
3. Under “Other special pages” click on “User Gamification Profile”
4. See the dashboard being displayed.

Other special pages

3



• User Gamification Profile

4

User Gamification Profile

Username: Laura

Name: Laura

Username	Added Post	Edited Post	Points	Badges
Laura	1	4	300	
Laura 2	1	3	250	



Main page
Recent changes
Random page
Help

Tools

What links here
Special pages
Printable version
Page information

1

Appendix

Appendix A: 7-Zip

The latest version of 7-Zip can be found here: <https://www.7-zip.org/>.

1. Click on “Download” for either the 64- or 32-bit Windows version as needed.

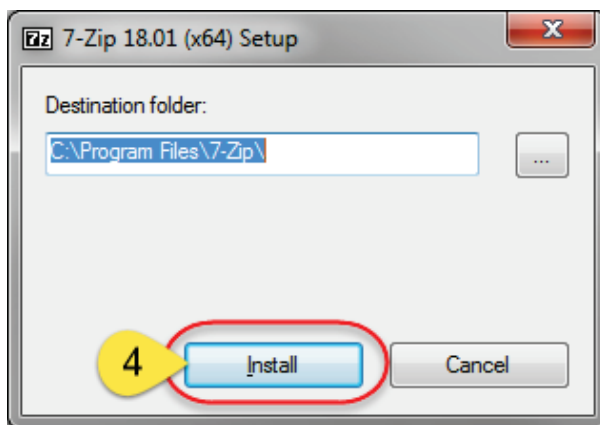
7-Zip is a file archiver with a high compression ratio.

1 Download 7-Zip 18.01 (2018-01-28) for Windows:

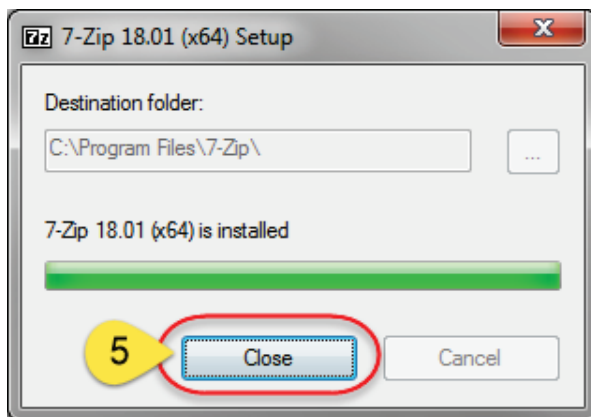
or

Link	Type	Windows	Size
Download	.exe	32-bit x86	1 MB
Download	.exe	64-bit x64	1 MB

2. Once downloaded, double-click the.exe file to start the install.
3. Click “Run” if a security warning dialogue appears.
4. Click “Install” or change your folder destination first if required.



5. Click “Close.”



Return to the Windows-based MediaWiki install instructions [above](#).

Appendix B: 7. Start IIS or IIS Express

IIS

** Installation steps for IIS under Windows are not presently documented **

IIS Express

Type in “runphp.cmd” and hit enter on your keyboard. This will start IIS Express which will allow for the contents of the MediaWiki folder to act as a web site under <http://localhost:8080/>.

Return to the Windows-based MediaWiki install instructions [above](#).

```
PS C:\WINDOWS\system32> cd c:/users/laura/desktop/mediawiki
PS C:\users\laura\desktop\mediawiki> runphp.cmd
```

look for successful
message confirmation

```
Starting IIS Express ...
Successfully registered URL "http://*:8080/" for site "WebSite1" application "/"
Registration completed for site "WebSite1"
IIS Express is running.
```

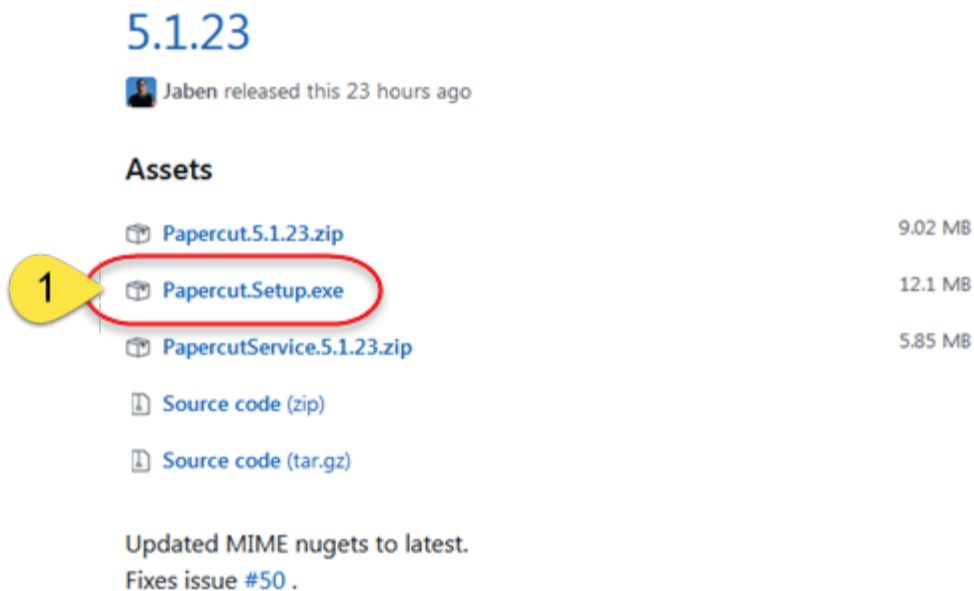
**Note:* before running “runphp.cmd” make sure you are in the correct path -you have navigated to the MediaWiki folder.

Appendix C: Papercut

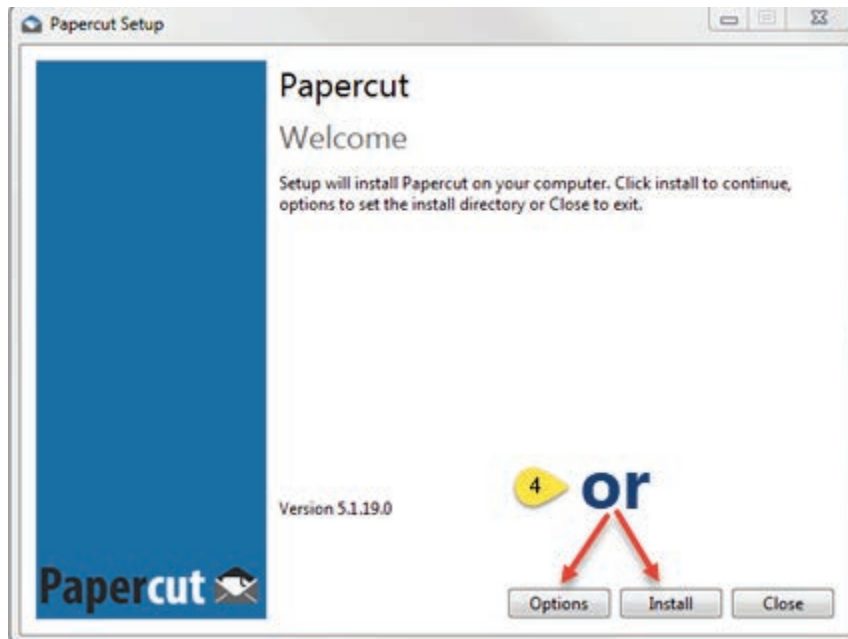
The latest version of Papercut can be found here:

<https://github.com/ChangemakerStudios/Papercut/releases>.

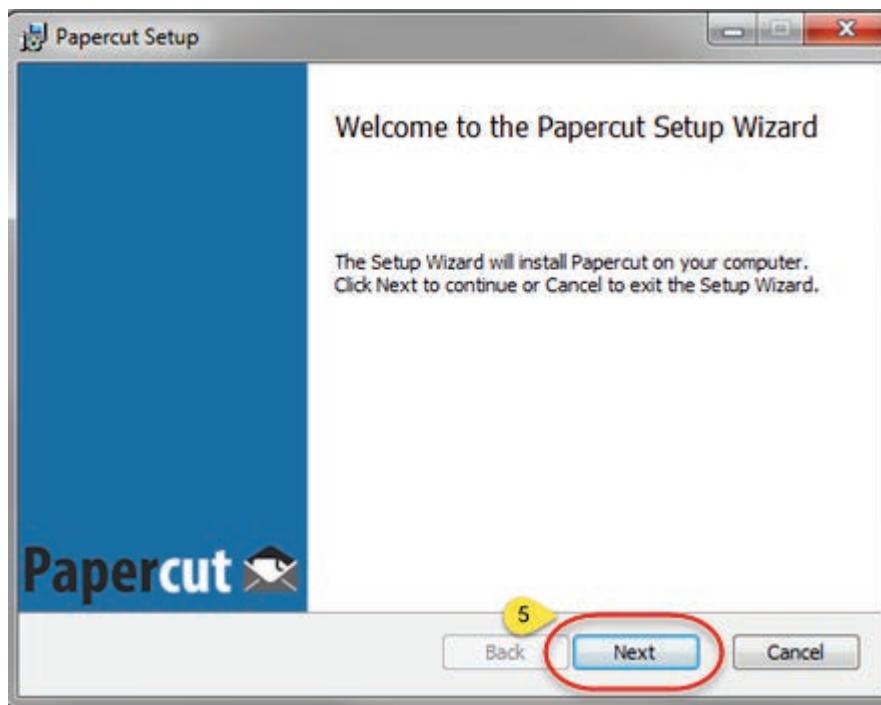
1. Click on “Papercut.Setup.exe” to download this program. The latest version of this software at the time of writing is 5.1.23.



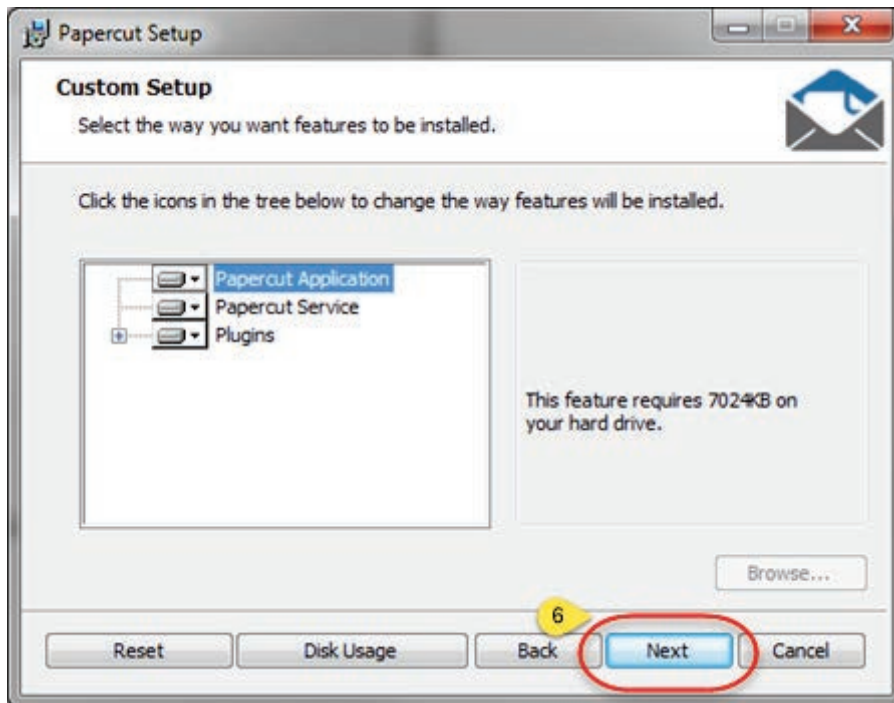
2. Once downloaded, double-click the Papercut.Setup.exe file to start the install.
3. Click “Run” if a security warning dialogue appears.
4. Click on “Install” or click on “Options” first to change the installation path if desired.



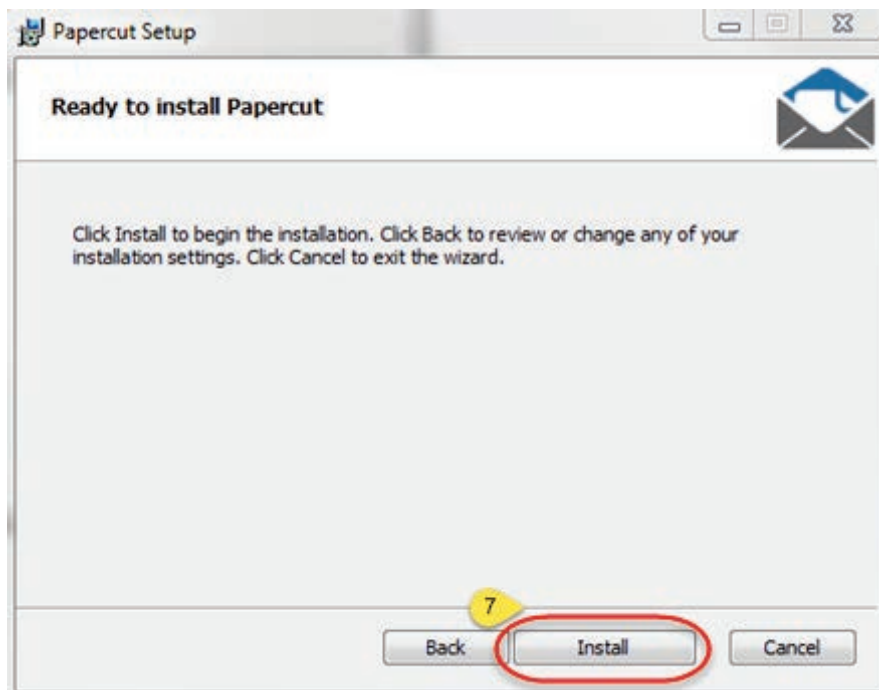
5. A pop-up dialogue will appear, click on "Next."



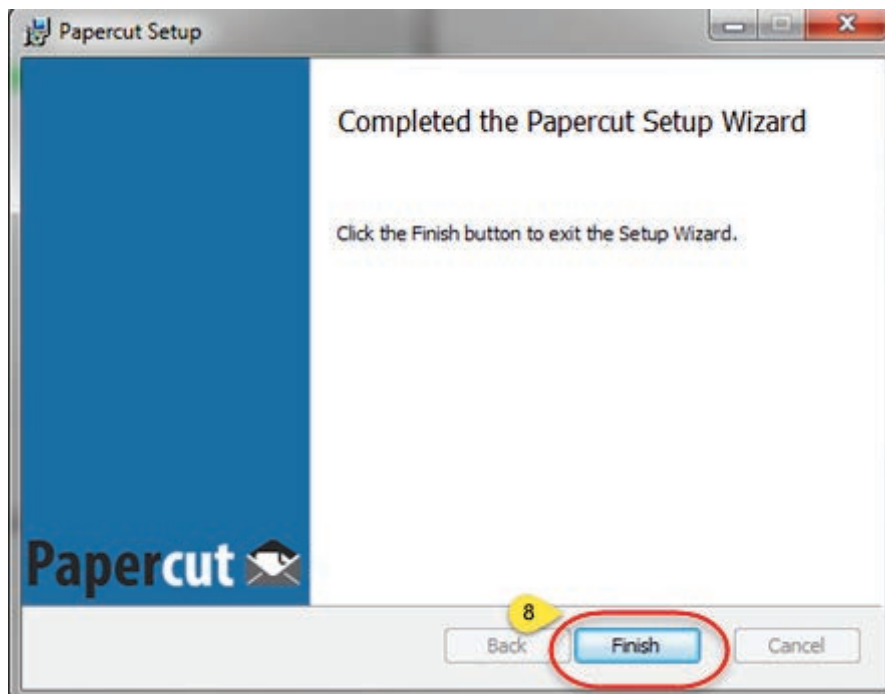
6. Leave everything as is and click on "Next."



7. Click on "Install."



8. Click on "Finish."



9. Click on "Close."

