

3 Wiki Software 2.22

This document describes the installation steps for a fictitious *WikiSoftware 2.22* releases.

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About this manual

- When editing configuration files in a text editor be sure to save them as UTF-8 without BOM (Byte Order Mark).
- The string `<unzipped-archive>` represents the place where you unzipped the downloaded file.
- The string `<mediawiki-url>` represents the URL of your Mediawiki installation, e.g. <http://localhost/mediawiki>.
- The string `<installpath-mediawiki>` represents the file system path to your Mediawiki installation, e.g. `C:\xampp\htdocs\mediawiki` (Windows) or `/var/www/mediawiki` (Linux).

Requirements

MediaWiki

For the installation of WikiSoftware we assume that MediaWiki (version 1.19.x - 1.22.x) is installed and configured. It can be accessed via browser (while the web and the database server are started) at `<mediawiki-url>`. If you did not install MediaWiki yet, visit [this website](#) to download MediaWiki. Note: The extensions WikiSoftware Distribution/Echo and WikiSoftware Extensions/Review are not supported by MediaWiki < 1.21.

Browser

- Mozilla Firefox 3.6+
- Google Chrome
- Internet Explorer 10+ (**without compatibility view!**)

Server

- Webserver (Apache 2+, IIS 6+)
- PHP 5.3.2+
- MySQL 5.0.2+
- Main Memory: > 2 GB
- Hard Drive: > 10 GB (depends on the planned storage of data).
- CPU: 2 GHz+ (Dual Core or more recommended).
- Apache Tomcat 6 / 7 / 8 (for ExtendedSearch and PDFExport)
- Java Runtime Environment (Jre) 1.6 - 1.8 (see also [Universal Export](#))

These login credentials to the database server should be known:

- Host/IP address and port
- Username and password for the root user (CREATE/DROP-Statements) and the Wiki-User (probably created during the installation of MediaWiki)
With an installation on XAMPP the username "root" with empty password is preset.
- Name of the used database
- The table prefix of the used database

Installation

Components of WikiSoftware

The <unzipped-archive> contains the following directories and files:

- extensions
- skins
- installcheck.php

Copy the content extracted elements directly into the directory <installpath-mediawiki>.

The directories extensions and skins already exist in the MediaWiki files. Integrate the files of these directories in one directory. This means that you will get one extensions and one skins directory.

The following files and directories need to be renamed:

- <installpath-mediawiki>/extensions/wikiDistribution/wikiDistribution.php.template **to**
<installpath-mediawiki>/extensions/wikiDistribution/wikiDistribution.php
- <installpath-mediawiki>/extensions/wikiExtensions/wikiExtensions.php.template **to**
<installpath-mediawiki>/extensions/wikiExtensions/wikiExtensions.php
- <installpath-mediawiki>/extensions/wikiFoundation/data.template **to**
<installpath-mediawiki>/extensions/wikiFoundation/data

- `<installpath-mediawiki>/extensions/wikiFoundation/config.template` to `<installpath-mediawiki>/extensions/wikiFoundation/config`

The following directories have to be writable by the web server:

(Under Linux issue e. g. `chmod -R a+w <path>`)

- `<installpath-mediawiki>/cache`
- `<installpath-mediawiki>/images`
- `<installpath-mediawiki>/extensions/wikiFoundation/data`
- `<installpath-mediawiki>/extensions/wikiFoundation/config`

Checking the requirements

To check further requirements for the installation, access `<mediawiki-url>/installcheck.php` via browser. The page shows additional information about the installation as well as occurring errors (e. g. concerning missing rights).

If everything is OK (green "OK") you can proceed to the setup of WikiSoftware:

Setup of WikiSoftware

Open the file `<installpath-mediawiki>/LocalSettings.php` in a text editor and add the following lines **at the very end**:

```
require_once("$IP/extensions/wikiDistribution/wikiDistribution.php");
require_once("$IP/extensions/wikiFoundation/wikiFoundation.php");
require_once("$IP/extensions/wikiExtensions/wikiExtensions.php");
require_once("$IP/skins/wikiSkin/wikiSkin.php");
```

Configuration of WikiSoftware

update.php

Manually execute this on the server's command line.

```
php maintenance/update.php
```

The output should look something like this:

```
(...)
Creating ws_whoisonline table...ok
(...)
Creating ws_saferedit table...ok
(...)
...done.
```

WikiSoftware for MediaWiki can now be reached at `<mediawiki-url>` by browser.

MediaWiki web updater (WikiSoftware 2.22.1+)

Open `<installpath-mediawiki>/mw-config/` and follow the steps! Further instructions can be found on the official [MediaWiki Documentation](#)

Security

After your WikiSoftware is up and running, follow these steps to provide additional security:

- Remove the file `<installpath-mediawiki>/installcheck.php`
- In order for the SecureFileStore feature to work you are **required** to deny HTTP access to the `<installpath-mediawiki>/images` directory!
- If you want to use the FlexiSkin feature, you have to except the directory `<installpath-mediawiki>/images/wiki/flexiskin` from above access restriction
- Details on how to configure this are [here](#).
- Stop Tomcat from being publicly accessible. Edit the file `$CATALINA_HOME/conf/server.xml` (Windows) or `$CATALINA_HOME/conf/server.xml` (Linux) and look for the following section: `<Connector port="8080" maxHttpHeaderSize="8192" ... Add address="localhost" and restart Tomcat.`

Performance

Windows

```
Use $wgDwserver = "127.0.0.1"; instead of $wgDwserver = "localhost"; in your LocalSettings
```

(due to a MySQL problem with IPv6).

If you're using the WinCache Extension for PHP (`php_wincache.dll`) do NOT set `$wgMainCacheType = CACHE_ACCEL;` in your `LocalSettings.php`! Use `$wgMainCacheType = CACHE_NONE;` instead!

Almost done

If you don't want to use WikiSoftware's Universal Export or Extended Search features, you are already done here. If you do, you'll need to complete the following steps:

Wewservices

The WikiSoftware extensions "ExtendedSearch" and "Universal Export" are implemented as Java web services. These must be deployed to an *Application Server* such as Apache Tomcat. For this manual we assume a running Tomcat installation at `$CATALINA_HOME`.

ExtendedSearch

The Tomcat connector must be configured with `URIEncoding="UTF-8"`:

Edit the file `$CATALINA_HOME/conf/server.xml` (Windows) or `$CATALINA_HOME/conf/server.xml` (Linux) to include it:

```
<Connector port="8080" maxHttpHeaderSize="8192" URIEncoding="UTF-8" ...
```

Create the directory for the search index and copy the directory `solr` from `<unzipped-archive>/extensions/wikiExtensions/ExtendedSearch/wewservices` into it:

Windows:

```
mkdir C:\xampp\wiki_data\  
copy <unzipped-archive>\extensions\wikiExtensions\ExtendedSearch\wewservices\solr C:\xampp
```

Linux:

```
mkdir -p /opt/wiki_data  
cp -r <unzipped-archive>/extensions/wikiExtensions/ExtendedSearch/wewservices/solr /opt/wiki_data  
chown -R tomcat6 /opt/wiki_data/solr # given that tomcat6 is the tomcat user
```

The path to the Solr configuration (solr directory containing solr.xml) needs be set in Tomcat via the variable `solr.solr.home`.

On Windows add the following line at the beginning of the file `$CATALINA_HOME\bin\catalina.bat`:

```
set JAVA_OPTS=%JAVA_OPTS% -Dsolr.solr.home=C:\xampp\wiki_data\solr
```

On Linux (Debian) add the following line to the end of the file `/etc/default/tomcat6`:

```
JAVA_OPTS="$JAVA_OPTS -Dsolr.solr.home=/opt/wiki_data/solr"
```

Restart Tomcat.

Now deploy "solr.war" from `<unzipped-archive>/extensions/wikiExtensions/ExtendedSearch/wewservices` by copying it to `$CATALINA_HOME\webapps\` (Windows) / `$CATALINA_HOME/webapps/` (Linux):

Make sure the file `<installpath-mediawiki>/extensions/wikiExtensions/wikiExtensions.php` contains the line

```
require_once( __DIR__."/ExtendedSearch/ExtendedSearch.setup.php" );
```

Execute [update.php](#) again!

Configure WikiSoftware to use the "Extended Search" web service in your browser:

WikiSoftware (navigation on the left) -> Admin -> Preferences -> WikiSoftware -> WikiSoftware - Mediawiki Settings -> Extended Search:

- Solr URL (default = <http://127.0.0.1:8080/solr>)

Universal Export

With WikiSoftware 2.22 two PDF Export Backends are shipped. The following table gives you a short overview:

	bn2pdf.war	wsHTML2PDF.war
JRE	6	7
Apache Tomcat	6	7
Implementation	SOAP	Servlet 3.0
URL in WikiAdmin (i.e.)	http://localhost:8080/bn2pdf	http://localhost:8080/wshtml2PDF

Deploy the WAR file needed by copying it from <installpath-mediawiki>\extensions\wikiExtensions\UEModulePDF\wewservices\ to \$CATALINA_HOME\webapps\ (Windows) / \$CATALINA_HOME/webapps/(Linux).

Make sure the file <installpath-mediawiki>/extensions/wikiExtensions/wikiExtensions.php contains the lines

```
require_once( __DIR__."/UniversalExport/UniversalExport.setup.php" );  
require_once( __DIR__."/UEModulePDF/UEModulePDF.setup.php" );
```

Configure WikiSoftware to use the "Universal Export" web service in your browser:

WikiSoftware (navigation on the left) -> Admin -> Preferences -> WikiSoftware -> WikiSoftware - MediaWiki settings -> UniversalExport PDF Module.

Finish

Your WikiSoftware installation should be working now. Have fun!