

Setup:Installation Manual/Webservices/Extended Search

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This document describes the installation of the extended search for BlueSpice. Please take into account, that the [Apache Tomcat server](#) must be installed and configured completely.

Tips for this Document

- Please, read this manual completely and work through the single installation steps one after another.
- For editing the configuration files with a text editor, the files must be saved in UTF-8 coding without BOM (Byte Order Mark).
- The placeholder `<installpath-bluespice>` stands for the path to your BlueSpice installation, e.g. `C:\inetpub\wwwroot\bluespice` (Windows) or `/var/www/bluespice` (Linux).
- The placeholder `<tomcat-webapps>` stands for the path to the Webapps directory of your Tomcat server, e.g. `C:\Program Files\Apache Software Foundation\Tomcat 8.5\webapps` (Windows) or `/var/lib/tomcat8/webapps` (Linux).

Setting-up the Solr-Cores

Create the following directory:

```
/opt/bluespice/data (Linux)
C:\BlueSpice\bluespice_data (Windows)
```



If you are going to use a different directory, please read the [notes regarding a individual directory structure for advanced users](#).

Move the directory "solr" from `<installpath-bluespice>/extensions/BlueSpiceExtensions/ExtendedSearch/webservices` to the just created directory.

Switch to this directory and go to the subfolder `bluespice/conf/lang`. Choose `stopword_<LANG>.txt` there, which matches your language and replace the file `stopwords.txt` in the folder `bluespice/conf` (one level higher) with this file.



With Linux, please transfer the folder `/opt/bluespice/data/solr` recursively to the user and group, under which the Tomcat server is running.

Configuring Tomcat

The Tomcat server needs to know the directory to the Solr core. The following describes how to configure this.

Linux

The distributions differ at this point regarding the configuration file. How this needs to be configured with the distribution you are using can be found in the documentation of the distributor. The following steps explain the configuration using Debian/Ubuntu and Tomcat 8:

Open the file `/etc/default/tomcat8` and add the following line at the end:

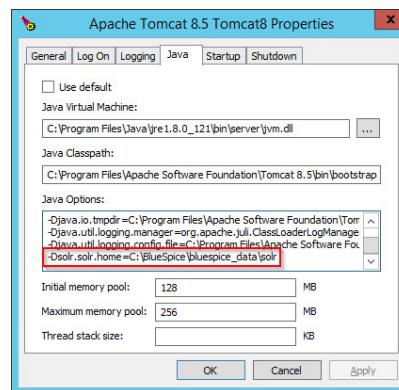
```
JAVA_OPTS="{JAVA_OPTS} -Dsolr.solr.home=/opt/bluespice/data/solr"
```

Save the changes and exit the file.

Windows

Open the [configuration interface of Tomcat](#) and switch to the tab "Java". At the field "Java Options", add this as the last point in the line:

```
-Dsolr.solr.home=C:\BlueSpice\bluespice_data\solr
```



Save this settings by clicking at "Apply".

Copying of the Solr Application

Move the file "solr.war" from the directory `<installpath-bluespice>/extensions/BlueSpiceExtensions/ExtendedSearch/webservices` to `<tomcat-webapps>`

Restarting Tomcat

Restart the Tomcat Webserver like described [here](#).

Activating the Extended Search in BlueSpice

Go to the directory `<installpath-bluespice>/extensions/BlueSpiceExtensions`. If the file **BlueSpiceExtensions.local.php** does not exist already, please copy the file **BlueSpiceExtensions.default.php** and paste it in the folder. Rename it to **BlueSpiceExtensions.local.php**. Open this file in a text editor.

Scroll to the end of the file. There you can find the following line:

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

Delete the first character (**#**), save and exit the file.

Open a command line and change to the directory `<installpath-bluespice>`. Run the following command there:

```
php maintenance/update.php (Linux)  
php maintenance\update.php (Windows)
```



With Windows, please take care that the [environment variables](#) are set correctly to access the command "php".



With Linux, please take care that after running the update.php, the [file system permissions](#) must be set again.

As soon as the script finished its work with the message "Done", run a further maintenance script to create the search index:

```
php extensions/BlueSpiceExtensions/ExtendedSearch/maintenance/searchUpdate.php (Linux)  
php extensions\BlueSpiceExtensions\ExtendedSearch\maintenance\searchUpdate.php (Windows)  
))
```

Running this script may take some time. This depends on the amount of content, which has been created in the wiki. When the script was completely executed, the extended search is installed successfully and is ready to use.