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## Setup:Installation Manual/Webservices

A [quality version](#) of this page, [approved](#) on *20 September 2019*, was based off this revision.

- [Extended Search](#)
- [PDF-Export](#)
- [VisualDiff \(BlueSpice pro only\)](#)
- [LatexRenderer \(BlueSpice pro only\)](#)

## Webservice: LatexRenderer

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This document describes the installation of LatexRenderer for BlueSpice. **LatexRenderer is an exclusive component of BlueSpice pro!** Please note that [Apache Tomcat server](#) must be installed and configured on the BlueSpice server.

## Tip for this Document

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- 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).

## Installation of the LatexRenderer application

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Move the file "BSLaTeX2PNG.war" from the directory `<installpath-bluespice>/extensions/BlueSpiceLatexRenderer/LatexRenderer/webservices` to `<tomcat-webapps>`

## Restart Tomcat

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

This completes the installation of LatexRenderer.

## Troubleshooting

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If there is a problem with LatexRenderer in BlueSpice, first check the [file system permissions](#).

## Webservice: PDF-Export

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Make sure that the [Apache Tomcat server](#) is completely installed and configured on the BlueSpice server before setting up PDF-Export.

## Moving the BShtml2PDF Application

Download the file "BShtml2PDF.war" from <https://sourceforge.net/projects/bluespice/files/webservices/BShtml2PDF.war/download> and copy it to `<tomcat-webapps>`

The default paths are as follows:

- C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps (**Apache Tomcat on Windows**)
- /var/lib/jetty9/webapps (**Jetty on Debian**)

The application usually starts automatically without the need for rebooting the application server.

## Checking the functionality

The correct functionality of the BShtml2PDF service can be checked as follows:

On Windows, open Internet Explorer using the URL `http://localhost:8080/BShtml2PDF`. With correct functionality, you should see the following website:



## Enable PDF Export in BlueSpice

Go to the directory `<installpath-bluespice>/settings.d`. Open the file **020-BlueSpiceUEModulePDF.php** in a text editor.

In the second line is the code to activate the extension:

```
return; // Disabled. Needs Tomcat
```

You can either add a comment character (`#`) to the beginning of this line or delete the line completely, save the file and exit it.

Open a command line and change into the folder `<installpath-bluespice>`. Execute the following command:

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



In Windows, make sure that the environment variables are set correctly to access the "php" command.



Note that you must update the [file system permissions](#) after running update.php.

When the script is finished with the "Done" message, you have successfully installed the web service .

```
...event_agent field does not exist in echo_event table, skipping modify field patch.
Modifying event_variant field of table echo_event ...done.
Modifying event_extra field of table echo_event ...done.
Modifying event_agent_ip field of table echo_event ...done.
...have etp_id field in echo_target_page table.
...have notification_bundle_base field in echo_notification table.
...echo_event table does not contain event_timestamp field.
...have eeb_event_hash field in echo_email_batch table.
...have event_page_id field in echo_event table.
...index echo_event type already set on echo_event table.
...index echo_user_timestamp already set on echo_notification table.
Creating titlekey table...ok.
Rebuilding titlekey table...
... 1 ok.
...hitcounter table does not exist, skipping modify field patch.
Creating hit_counter_extension table ...done.
Creating hit_counter table ...done.
...page table does not contain page_counter field.
Creating bs_editnotifyconnector table ...done.
Creating bs_namespacemanager_backup_page table ...done.
Creating bs_namespacemanager_backup_revision table ...done.
Creating bs_namespacemanager_backup_text table ...done.
Adding page_content_model field to table bs_namespacemanager_backup_page ...done.
Adding rev_shal field to table bs_namespacemanager_backup_revision ...done.
Adding rev_content_model field to table bs_namespacemanager_backup_revision ...done.
Creating bs_permission_templates table ...done.
Creating bs_dashboards_configs table ...done.
Creating bs_usagetraacker table ...done.
Creating bs_pagetemplate table ...done.
Creating bs_pageassignments table ...done.
...se text field does not exist in bs_saferedit table, skipping modify field patch.
Creating bs_readers table ...done.
...have readers_ts field in bs_readers table.
...site_stats is populated...done.
Checking existence of old default messages...done.
Populating rev_len column
...doing rev_id from 1 to 200
Populating ar_len column
...archive table seems to be empty.
rev_len and ar_len population complete [0 revision rows, 0 archive rows].
Populating rev_shal column
...doing rev_id from 1 to 200
Populating ar_shal column
...archive table seems to be empty.
Populating ar_shal column legacy rows
rev_shal and ar_shal population complete [0 revision rows, 0 archive rows].
Populating img_shal field

Done 0 files in 0.0 seconds
Fixing protocol-relative entries in the externallinks table...
Done, 0 rows updated.
Populating fa_shal field from fa_storage_key

Done 0 files in 0.0 seconds
Updating *_from_namespace fields in links tables.
...doing page_id from 1 to 200
Purging caches...done.

Done in 1.6 s.
root@bluespice:/var/www/bluespice#
```

## Troubleshooting

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If there is a problem with the PDF export in BlueSpice, first check the [file system permissions](#).

## Download Web services

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If the required war-file is missing in your installation package, you can download it here:  
[Webservices](#).

## Webservice: VisualDiff

A [quality version](#) of this page, [approved](#) on *20 September 2019*, was based off this revision.

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This document describes the installation of VisualDiff from BlueSpice. **VisualDiff is a exclusive component of BlueSpice pro!** Please note that the [Apache Tomcat server](#) must be installed and configured on the BlueSpice server.

## Tips for this Document

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- 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).

## Copy of BShtmlDiff

---

Move the file "BShtmlDiff.war" from the directory `<installpath-bluespice>/extensions/BlueSpiceVisualDiff/VisualDiff/webservices` to `<tomcat-webapps>`

## Restart Tomcat

---

Restart the Tomcat Webserver.

This completes the installation of VisualDiff.

## Troubleshooting

---

If there is a problem with VisualDiff in BlueSpice, first check the [file system permissions](#).

## Webservice: Extended Search

Redirect to:

- [Setup:Installation Guide/Advanced/ExtendedSearch Configuration](#)

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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)
```

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 `stopwords_<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.**

## Configurating Tomcat

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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:

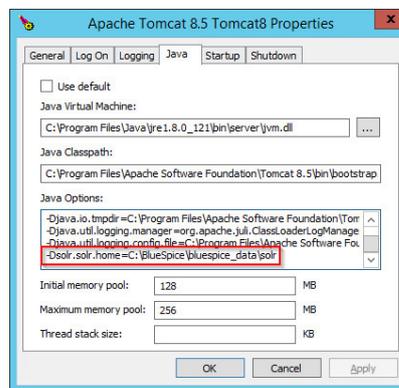
```
JAVA_OPTS="${JAVA_OPTS} -Dsolr.solr.home=/opt/bluespice/data/solr"
```

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.