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Installation Guide/System Preparation/Linux/Jetty

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Jetty is a prerequisite for using PDF export and VisualDiff (BlueSpice pro only). The steps listed here are optional and only required if you plan to use one or more of these services in your BlueSpice installation.

Introduction

An alternative to Jetty is Apache Tomcat, which you can also find in the package manager of Debian. However, since Jetty works better, this is preferred in this documentation.

Installing Jetty

Install Jetty via Aptitude:

```
apt update; \  
apt install jetty9; \  
apt clean
```

Configuration

To configure, open the file `/etc/default/jetty9` in a text editor of your choice (vi, nano). Put the following line at the very end of the file:

```
JAVA_OPTIONS = "-Xms512m -Xmx1024m -Djetty.host = 127.0.0.1"
```

Restart Jetty with the command `service jetty9 restart`.

Installing the web apps

After successful installation of BlueSpice, follow the next steps to install the web services and activate the respective BlueSpice extension:

- PDF Export
- VisualDiff (BlueSpice pro only)

Next step

If you have successfully completed all steps, you can proceed to the next step "Elasticsearch".

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:

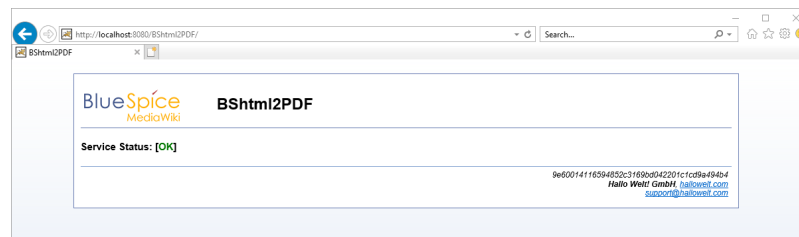
- C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps (**Apache Tomcat on Windows**)
- /var/lib/jetty9/webapps (**Jetty on Debian**)

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_usagetracker 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

If there is a problem with the PDF export in BlueSpice, first check the file system permissions.

Download Web services

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

Webservice: VisualDiff

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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

- 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.

Setup:Installation Guide/System Preparation/Linux/Elasticsearch

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Elasticsearch is a prerequisite for the operation of Advanced Search. The steps listed here are optional and only required if you plan to use them in your BlueSpice installation.

Adding the package sources

Elasticsearch is not included in the package manager on Debian. However, the manufacturer provides a repository for the software. Add it with the following commands to your Debian installation. Prerequisite is that you have installed the program "gnupg" (`apt install gnupg`).

```
wget -q0 - https://artifacts.elastic.co/GPG-KEY-elasticsearch | apt  
echo "deb https://artifacts.elastic.co/packages/6.x/apt stable main"
```

Installing Elasticsearch

The subsequent installation of Elasticsearch will guide you through these commands.


```
apt update; \  
apt install elasticsearch; \  
apt clean
```

Installing ingest-attachment

For the advanced search in BlueSpice you need the plugin "ingest-attachment" for Elasticsearch. This Install it with the following command:

```
/usr/share/elasticsearch/bin/elasticsearch-plugin install -b ingest
```

Start Elasticsearch and add it to startup

Add the Elasticsearch to startup and then start the service:

```
systemctl enable elasticsearch; \  
service elasticsearch start
```

Next step

If you have completed all steps successfully, you can proceed to the next step "Node.js".