

1. Setup:Installation Guide/System Preparation/Windows/Apache Tomcat	2
2. Setup:Installation Guide/System Preparation/Windows/Elasticsearch	12
3. Setup:Installation Guide/System Preparation/Windows/OpenJDK	17
4. Setup:Installation Guide/Webservices/LatexRenderer	21
5. Setup:Installation Guide/Webservices/PDF-Export	23
6. Setup:Installation Guide/Webservices/VisualDiff	



A quality version of this page, approved on 2 August 2021, was based off this revision.

1	Download	. 3
2	Installing Apache Tomcat	. 4
3	Configuring Apache Tomcat	. 8
4	Reviewing the installation	11
5	Installing the web apps	12
6	Next step	12





Apache Tomcat is required for the PDF export, VisualDiff (BlueSpice pro only) and the LaTeX renderer (BlueSpice pro only). The following steps are optional and only required if you want to use one or more of these services in your BlueSpice installation.



Operation of Apache Tomcat requires OpenJDK. If you have not installed it, follow the link above.

Download

Open the official download page (1) in your browser and go to the version 9 (2) download page.



Download the "32-bit/64-bit Windows Service Installer"



https://tomo	at.apache.org/download-90.cgi	- ≙ ¢	Search	୦ - ଜେଟ	3 63 🤇
Apache Tomcat® - Apach	1e × 🖸				
Taglibs Maven Plugin	Quick Navigation				
Download Which version?	KEYS 9.0.16 Browse Archives				
Tomcat 9 Tomcat 8	Release Integrity				
Tomcat 7 Tomcat Connectors Tomcat Native Taglibs Archives	You must <u>verify</u> the integrity of the downloaded files. We pro the <u>KEYS</u> file which contains the OpenPGP keys of Tomcat's download the file, you should calculate a checksum for your	vide OpenPGP signatures for ev s Release Managers. We also pr download, and make sure it is th	ery release file. This sigr ovide SHA-512 checksun e same as ours.	nature should be matched again ns for every release file. After yo	st u
Documentation	Mirrors				
Tomcat 9.0 Tomcat 8.5 Tomcat 7.0 Tomcat Connectors	You are currently using http://www.gutscheine.org/mirror/ mirrors are failing, there are <i>backup</i> mirrors (at the end of the	apache/. If you encounter a prob e mirrors list) that should be avail	lem with this mirror, plea able.	se select another mirror. If all	
Tomcat Native Wiki Migration Guide	9.0.16				
Presentations	0.0.10				
Problems?	Please see the <u>README</u> file for packaging information. It exp	plains what every distribution co	ntains.		
Security Reports Find help FAQ Mailing Lists Bug Database	Binary Distributions • Core: • [pr (pop. sha512) • 1 pr gr (pop. sha512)				
IRC	 32-bit Windows zip (pgp, sha512) 				
Overview Source code Buildbot Tools	 bi-bit vinidovs zgr (jigg, stabiliz) (32:bit6-bit Vinidovs Service Installer pgp, s Full documentation. 18 arg (gp, stab12) Deployer. i (gp, stab12) 	<u>sha512)</u>			
Media	tar.gz (pgp, sha512)				
Twitter YouTube	 Embedded: tar.gz (pgp, sha512) zip (rgp, sha512) 				



Please note that the download on your Windows server with Internet Explorer only works if you have configured the Internet Explorer Advanced Security Settings in the Server Manager. Please refer to the technical documentation from Microsoft.



This guide uses version 9.0.16 of Apache Tomcat and is just an example of the latest version that you can download at the time of installation.

Installing Apache Tomcat

Open the downloaded file "apache-tomcat-9.0.16.exe".

Start the installation by clicking "Next >":





Confirm the license agreement by clicking "I Agree":

💐 Apache Tomcat Setup —	
License Agreement Please review the license terms before installing Apache Tomcat.	
Press Page Down to see the rest of the agreement.	
Apache License Version 2.0, January 2004 http://www.apache.org/licenses/ TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION 1. Definitions. "License" shall mean the terms and conditions for use, reproduction,	^
and distribution as defined by Sections 1 through 9 of this document. If you accept the terms of the agreement, dick I Agree to continue. You must acc agreement to install Apache Tomcat.	ept the
Nullsoft Install System v3.04	Cancel

Click "Next >":





💐 Apache Tomcat Setup		– 🗆 X
Choose Components Choose which features of Apac	he Tomcat you want to install.	
Check the components you war install. Click Next to continue.	nt to install and uncheck the comp	onents you don't want to
Select the type of install:	Normal ~	
Or, select the optional components you wish to install:	Tomcat Start Menu Items Occumentation Manager Host Manager Examples	Description Position your mouse over a component to see its description,
Space required: 13.2 MB		
Nullsoft Install System v3.04 ——	< <u>B</u> ack	Next > Cancel

Click "Next >" again:

減 Apache Tomcat Setup: Cor	nfiguration Opt	ions	-		
Configuration				TH	тм
I omcat basic configuration.				\sim	_
Server Shutdown Port		8005			
HTTP/1.1 Connector Port		8080			
Windows Service Name		Tomcat9			
Create shortcuts for all users					
Tomcat Administrator Login (optional)	User Name				
(op controly	Password				
	Roles	manager-gui			
Nullsoft Install System v3.04 —					_
		< Back	Next >	Cancel	

Select (1) the home directory of your OpenJDK Installation (2) and click "Next>" (3):





😹 Apache Tomcat Setup: Java Virtual Machine path	selection	_		×
Java Virtual Machine Java Virtual Machine path selection.				
Please select the path of a Java SE 8.0 or later JRE ins	talled on your sys	tem.		
2 C:\bluespice\bin\jdk-11.0.2				
Nullsoft Install System v3.04	3 Back Next	>	Can	cel

Start the Tomcat Installation:

😹 Apache Tomcat Setup		—		\times
Choose Install Location			-	7.7
Choose the folder in which to install Apache Tomcat.			X	X
Setup will install Apache Tomcat in the following folder. To Browse and select another folder. Click Install to start th	o install in a diffe e installation.	erent fol	der, dick	
Destination Folder				
C:\Program Files\Apache Software Foundation\Tomo	:at 9.0	B <u>r</u> ows	se	
Space required: 13.2 MB				
Space available: 47.0 GB				
Nullsoft Install System v3.04				
< <u>B</u> a	ck <u>I</u> nsta	11	Cano	el

At the end of the installation, leave both preselected checkboxes (1) and finish the setup (2)





Configuring Apache Tomcat

Change to the installation directory of Tomcat. By default, you can find it at C:\Program Files\Apache Software Foundation\Tomcat 9.0\conf .

Open the context.xml file in a text editor and replace the one-time line

<Context>

with

<Context mapperContextRootRedirectEnabled="true">



📔 *C:\	Program Files\Apache Software Foundation\Tomcat 9.0\conf\context.xml - Notepad++ [Administrator]	-	×
File Ed	it Search View Encoding Language Settings Tools Macro Run Plugins Window ?		х
۵ 🖨	⊟ @ @ @ @ # @ D ⊃ C # ¹ % @ @ © ©] 1 (≣ Ø D ≥ Ø 0 D D B		
🔚 contex	t.xml 🖸		
1	<pre></pre> <pre><</pre>		
2			
4	contributor license argements See the NOTEF file distributed with		
6	contributed interse agreements. See the works of the archive with		
6	The ST light for state file file to You under the America Light owned in 2 0		
7	(the "license"), you may not use this file excent in compliance with		
8	the License, You may obtain a conv of the License at		
9			
10	http://www.apache.org/licenses/LICENSE-2.0		
11			
12	Unless required by applicable law or agreed to in writing, software		
13	distributed under the License is distributed on an "AS IS" BASIS,		
14	WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.		
15	See the License for the specific language governing permissions and		
16	limitations under the License.		
17	L>		
18	C: The contents of this file will be loaded for pach web application>		
19	Context mapperContextRootRedirectEnabled="true">		
21	Default set of monitored resources. If one of these changes, the		
22	<pre><!-- web application will be reloaded--></pre>		
23	<watchedresource>WEB-INF/web.xml</watchedresource>		
24	<watchedresource>WBB-INF/tomcat-web.xml</watchedresource>		
25	<watchedresource>\${catalina.base}/conf/web.xml</watchedresource>		
26			
27	Uncomment this to disable session persistence across Tomcat restarts		
28	₽ </td <td></td> <td></td>		
29	<manager pathname=""></manager>		
30	>		
31	L		
32			
1			
eXtensibl	Markup Language file length : 1.471 lines : 32 Ln : 19 Col : 50 Sel : 0.10 Windows (CR LF) UTF-	3	NS

Save and close the file.

In the same directory, open the file server.xml in a text editor and make sure that the complete block

```
<Connector port="8080" protocol="HTTP/1.1"
... />
```

looks like this:

```
<Connector port="8080" protocol="HTTP/1.1"
connectionTimeout="20000"
URIEncoding="UTF-8"
redirectPort="8443"
address="127.0.0.1" />
```





Save and close the file.

Recently added Windows Server Configure Tomcat Ŀ Σ 놆 Monitor Tomcat Windows PowerShell Windows PowerShell ISE HeidiSQL HS ver Manage Expand ۴. <u>e</u>-E ł 7-Zip New Task Manager <u>4</u> 0 Apache Tomcat 9.0 Tomcat9 Remote Desktop nfigure Tomcat Event Viewe 8 Tomcat 9.0 Program Directory ۲ Tomcat Documentation Ľ Tomcat Home Page Ś Tomcat Manager <u>نې</u> Welcome ம்

Find the entry "Configure Tomcat" in the start menu and open it:

Set "Startup type" to "Automatic" (1) and start Tomcat (2). Then exit the configuration console (3):



🍾 Apache Tomcat 9	.0 Tomcat9 Pro	perties		×
General Log On Lo	ogging Java	Startup	Shutdown	
Service Name:	Tomcat9			
Display <u>n</u> ame:	Apache Tomcat	t 9.0 Tomci	at9	
Description:	Apache Tomcat	t 9.0.16 Se	erver - https://to	mcat.apache
Path to executable	:			
"C:\Program Files	Apache Softwar	re Foundat	ion\Tomcat 9.0\	vin\Tomcat9.
Startup typ <u>e</u> :	Automatic		1	~
- · ·				
Comica Chabura (d			
Service Status:	stopped			
<u>S</u> tart	2 pp	<u>P</u> a	ause	<u>R</u> estart
		ОК	3 cel	Apply

Reviewing the installation

To check if Tomcat is working correctly, open the address http://localhost:8080/ in a browser on the server.

You should now see the homepage of the Tomcat server:





Tomcat/9.0.16		▼ C Search	م - م
Home Documentation Configuration	Examples Wiki Mailing Lists		Find Help
Apache Tomcat/9.0.16 If you're seeing th	APACHE SOFTWARE FOUNDATION http://www.apache.org/	icat. Congratulations!	
Recommended Re Security Considera Manager Applicatio Clustering/Session	ading: tions <u>How-To</u> <u>n How-To</u> Replication How-To		Server Status Manager App Host Manager
Developer Quick Start <u>Tomcat Setup</u> Realms & J <u>First Web Application</u> JDBC Date	MAA Examples Sources	Servlet Specifica Tomcat Versions	tions
Managing Tomcat For security, access to the <u>manager webapp</u> is restricted. Users are defined in: \$CATALINA_HOME/conf/tomest=users.km In Tomcal 90 access to the manager application is split between different users. Read more. Read more.	Documentation Toncat 9.0 Documentation Toncat 9.0 Configuration Toncat Wik Find additional important configuration information in CCATALINA_HOME/RUMAING.Lxt Developers may be interested in	Getting Help FAQ and Mailing Liss The following mailing list tomcat_serverse universality notifications. Dent support and discussion tablesupper Universality notifications.	IS are available: , releases, security (Low volume).
Changelog	Tomcat 9.0 Bug Database	Development mailing list, inc	luding commit

Installing the web apps

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

- PDF-Export
- VisualDiff (BlueSpice pro only)
- LatexRenderer (nurBlueSpice pro only)

Next step

If you have completed all steps successfully, you can delete the previously downloaded "apachetomcat-9.0.16.exe" file from your hard drive and continue to the next step " Elasticsearch".

Elasticsearch on Windows

A quality version of this page, approved on 16 December 2021, was based off this revision.

1	Download Elasticsearch	. 13
2	Unpacking Elasticsearch	. 13
3	Installing the plugin ingest-attachment	. 14
4	Installing the Elasticsearch service	. 15
5	Configuring and starting the Elasticsearch service	. 15
6	Next step	. 17





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



To run Elasticsearch, OpenJDK is required. If you have not installed it, install it now.

Download Elasticsearch

BlueSpice is currently compatible with Elasticsearch 6.8.x as of version 6.8.21. Elasticsearch > 6.8.x is currently **NOT supported!**

The latest version can be found at this list. This results in the following direct download link: https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-<version number>.zip. For example, https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-6.8.21.zip.

Follow the download instructions of your browser.



Please note that the download on your Windows Server with Internet Explorer will only work if you have configured the Internet Explorer Advanced Security Settings in the Server Manager. Please refer to the technical documentation from Microsoft.



In the following, Elasticsearch version 6.8.21 is used and is only an example of the latest version of the 6.8.x version, which you can download at the time of your installation.

Unpacking Elasticsearch

Unpack the contents of the ZIP archive (2) just downloaded into the folder "C: \bluespice\bin\elasticsearch-6.8.21" (1):





			_			
·← → × ↑ 📘	> Thi	s PC > Local Disk (C:) > bluespice > bin				
_		Name	Date modified	Туре	Size	
📌 Quick access		elasticsearch-7150	05/10/2021 08:49	File folder		
Desktop	1	idk-17	04/10/2021 15:12	File folder		
👆 Downloads	*	pax=17	04/10/2021 11:42	File folder		
Documents	*	Dip to	04/10/202111140	The folder		
Pictures	*					
📙 bin						
npm						
var						
www						
This PC						
P Network						

Installing the plugin ingest-attachment

Change to the directory "C:\bluespice\bin\elasticsearch-6.8.21\bin" (1) and right-click on a free area of the Explorer window with the Shift key pressed. Then click "Open Windows Powershell Here" (2):

File Home Share $\leftrightarrow \rightarrow \uparrow \uparrow \uparrow \rightarrow$ This	View PC > Local Disk (C:) > bluespice	> bin > elasticsearch-7.15.0 >			✓ ♂ Search elasticsearch-) ~ م
	Name	Date modified	Туре	Size 🔓		
Desktop	🔜 bin 🔄 config	04/10/2021 15:47 05/10/2021 08:49	File folder File folder			
Downloads # Documents #	📙 data	05/10/2021 08:50 04/10/2021 15:47	File folder File folder	[View)
📰 Pictures 🛛 🖈 📙 bin	ib logs	04/10/2021 15:47 08/10/2021 08:51	File folder File folder		S <u>o</u> rt by <u>G</u> roup by	>
npm var	plugins	04/10/2021 15:48 05/10/2021 08:44	File folder File folder	110	Refresh Customise this <u>f</u> older	
This PC	NOTICE README.asciidoc	04/10/2021 15:47 04/10/2021 15:47 04/10/2021 15:47	Text Document ASCIIDOC File	615 KB 3 KB	Paste Paste shortcut	
Network					Undo Move ♀ Open with Visual Studio ♦ Git GUI Here ← Git Bach Here	Ctrl+Z
					Open PowerShell window here	2
					Ne <u>w</u> P <u>r</u> operties)

Execute the command "elasticsearch-plugin.bat install ingest-attachment" (1) and after downloading the plugin, confirm the installation request with "y" (2):

📼 Administrator: Command Prompt (MariaDB 10.6 (x64))	-	\times
Setting environment for MariaDB 10.6 (x64)		^
C:\Windows\system32>cd C:\bluespice\bin\elasticsearch-7.15.0\bin		
<pre>C:\bluespice\bin\elasticsearch-7.15.@\bin\elasticsearch-plugin.bat install ingest-attachment 1 'warning: usage of JAVA HOME is deprecated, use ES_JAVA_HOME -> Installing ingest-attachment from elastic -> Downloading ingest-attachment from elastic -> Ownloading ingest-attachment from elastic -> Ownloading ingest-attachment is use is</pre>		
Continue with installation?[y/N]y] 2 -> Installed ingest-attachment -> Please restart Elasticsearch to activate any plugins installed		





If your server does not have an active internet connection, then download the plug-in ingestattachment as zip archive and install it, as documented directly by the manufacturer.

Installing the Elasticsearch service

Next, run the elasticsearch-service.bat install command and wait for the process to complete:

C:\bluespice\bin\elasticsearch-7.15.0\bin}plasticsearch-service.bat install "warning: usage of JAVA_HONE is deprecated, use t5_JAVA_HOME Installing service := "elasticsearch-service-X64" Using t5_JAVA_HOME (64-bit): "C:\bluespicebbin\jdk-17" -0Es.nettworkaddress.cache.tl=069;0-bs.networkaddress.cache.negative.ttl=10;-XX:+AlwaysPreTouch;-XsSim;-Djava.awt.headles s=true;-DFile.encoding=UTF-8;0[pha.nosys=true;-XX::omltStackTraceInfastThrow;-XX:+ShowCodeDetailSinExceptionMessages;-Di 0netty.neUnsfe=true;-Dio.netty.nokeySetOptimIzion=true;-Diogdj2.disable.jmw=true;-Djava.locale.provide=S=SDf_COMPAT;-ad 0.onetty.neUns.fest_fue:_Dio.netty.nokeySetOptimIzion=true;-Diogdj2.disable.jmw=true;-Djava.locale.provide=S=SDf_COMPAT;-ad 0.opens_juva.base/java.obt.l.UNMAMPDL=XX:HSGCf.ojdava.io.tmginectUserXAUDTMIN-1AppDbwelasticsearch;- XI:+HasqDumpdrOutOfHemoryError;-XX:HeapDumpAth=data;-XX:ErrorFile=logs/hs_err_pidpi2;-XX:HSGTME=SSGF?001;-XX:SS	
GiHeapRegionSize=4m;-XX:InitiatingHeapOccupancyPercent=30;-XX:GiReservePercent=15	
The service 'elasticsearch-service-x64' has been installed.	
C:\bluespice\bin\elasticsearch-7.15.0\bin>	~

Configuring and starting the Elasticsearch service

Press the key combination Windows+R.

In the following dialog box, enter "services.msc" (1) und confirm with "OK" (2):



Search for the service "Elasticsearch 6.8.21" and open it with a double-click:



🍓 Services					- 🗆	×
File Action View	Help					
⇐ ➡ 🗖 Q 🗉	🖗 🚺 📷 🕨 🕨 🔳 💵 🕪					
🕼 Services (Local)	O Services (Local)					
	Select an item to view its description.	Name	Description	Status	Startup Type	Log ^
		Apple: Contract Contr	Allows Con		Manual	Loc
		Query Background Disc	Enables app		Manual (Trig	Loc
		Client OHCP Client	Registers an	Running	Automatic	Loc
		Carrie Policy Service	The Diagno	Running	Automatic (D	Loc
		🐏 Diagnostic Service Host	The Diagno		Manual	Loc
		🐏 Diagnostic System Host	The Diagno	Running	Manual	Loc
		🖳 Distributed Link Tracking Cl	Maintains li	Running	Automatic	Loc
		Distributed Transaction Coo	Coordinates	Running	Automatic (D	Net
		Client DNS Client	The DNS Cli	Running	Automatic (T	Net
		Downloaded Maps Manager	Windows se		Disabled	Net
		Elasticsearch 7.15.0 (elastics	Elasticsearc		Manual	Loc
		Sentended Mode	The Embed		Manual (Trig	Loc
		Encrypting File System (EFS)	Provides th		Manual (Trig	Loc
		Enterprise App Managemen	Enables ent		Manual	Loc
		Extensible Authentication P	The Extensi		Manual	Loc
		Sunction Discovery Provide	The FDPHO	Running	Manual	Loc
		Sunction Discovery Resourc	Publishes th	Running	Manual (Trig	Loc
		🍓 Geolocation Service	This service		Disabled	Loc
		🍓 Google Chrome Elevation S			Manual	Loc
		🧠 Google Update Service (gup	Keeps your		Automatic (D	Loc
		Google Update Service (gup <	Keeps your		Manual	Loc Y
	Extended Standard					
	· · · · · · · · · · · · · · · · · · ·					

Select the startup type "Automatic" (1) and start the service (2). After the service is started, close the window with "OK" (3):

Elasticsea	rch 7.15.	0 (elasticsea	Elasticsearch 7.15.0 (elasticsearch-service-x64) Properties (Local Co X					
General	Log On	Recovery	Dependencies					
Service	name:	elasticsear	ch-service-x64					
Display	Display name: Elasticsearch 7.15.0 (elasticsearch-service-x64)							
Descript	Description: Elasticsearch 7.15.0 Windows Service - https://elastic.co							
Path to C:\blues	executabl spice \bin \	e: .elasticsearcł	n-7.15.0\bin\elast	ticsearch-servio	ce-x64.exe //			
Startup	Startup t Automatic							
Service	status:	Stopped						
S	itart	2	Pau	use	Resume			
You car from her	n specify t re.	he start para	meters that apply	when you start	the service			
Start pa	rameters:							
			3					
			ОК	Cancel	Apply			



Next step

If you have completed all steps successfully, you can delete the previously downloaded file "elasticsearch-6.8.21.zip" from your hard disk and continue to the next step "Git".

OpenJDK on Windows

A quality version of this page, approved on 25 June 2020, was based off this revision.

1	Introduction	18
2	Download	18
3	Unpacking the ZIP archive	19
4	Setting the environment variable	19
5	Next step	21





Java is a prerequisite for the operation of Advanced Search, PDF export, VisualDiff (BlueSpice pro only) and the LaTeX renderer (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

For licensing reasons, we decided to use the alternative OpenJDK published under the GPL instead of the Java Runtime Environment. Of course, you are free to use the JRE of https://java. com/, but here we only document OpenJDK.

Download

Open the official download page (1) in your browser and select the version marked "Ready for use" (2).



Select the ZIP archive in the 64bit version for Microsoft Windows





Follow the further download instructions and download the ZIP archive to your hard disk.



Please note that the download on your Windows Server with Internet Explorer will only work if you have configured the Internet Explorer Advanced Security Settings in the Server Manager. Please refer to the technical documentation from Microsoft.



In this guide, version 11.0.2 of OpenJDK is used and serves only as an example for the latest version, which you can download at the time of your installation.

Unpacking the ZIP archive

Unzip the ZIP archive that you just downloaded into a suitable system path on your hard drive.

{{Template:Hint|text=This documentation is based on the [[Setup: Installation Guide/Advanced /Windows_Folder_Sructure | folder structure recommended by us]. For this reason, OpenJDK is unpacked into the folder C:\bluespice\bin\jdk-11.0.2. If you have different folder requirements, you must adapt these paths accordingly.}}

Setting the environment variable

Press the key combination Windows+R.

In the following dialog, enter "SystemPropertiesAdvanced.exe" (1) and confirm with OK (2):





Click "environment variables":

System Propertie	25					×
Computer Name	Hardware	Advanced	Remote			
You must be lo Performance Visual effects	gged on as a	an Administra scheduling, m	tor to make emory usag	e most of the ge, and virtu	ese changes al memory	
				S	ettings	
User Profiles						
Desktop settir	ngs related t	o your sign-in				
				S	ettings	
Startup and R System startu	ecovery p, system fai	lure, and deb	ugging info	mation		
				S	ettings	
				Environmen	t Variables	
		ОК	(Cancel	Apply	

Click "New ... ":





Variable	Value	
Path	C:\Users\Administrator\AppData\Local\Microsoft\WindowsApps;	
TEMP	C:\Users\Administrator\AppData\Local\Temp	
ТМР	C:\Users\Administrator\AppData\Local\Temp	
		_
	New Edit Delete	
	New <u>E</u> dit <u>D</u> elete	
/stem variables	New <u>E</u> dit <u>D</u> elete	
vstem variables Variable	New Edit Delete	,
rstem variables Variable ComSpec	New Edit Delete Value C:\Windows\system32\cmd.exe	
rstem variables Variable <mark>ComSpec</mark> DriverData	New Edit Delete Value C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData	
rstem variables Variable <mark>ComSpec</mark> DriverData NUMBER_OF_PROCESSORS	New Edit Delete Value C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1	,
rstem variables Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS	New Edit Delete Value C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1 Windows_NT	•
vstem variables Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS Path	New Edit Delete Value C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1 Windows_NT C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbern;	
/stem variables Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS Path PATHEXT	New Edit Delete Value C:\Windows\system32\crmd.exe C:\Windows\System32\Drivers\DriverData 1 Windows_NT C:\Windows\System32;C:\Windows;C:\Windows\System32\Wber; C:\Windows\system32;C:\Windows;C:\Windows\System32\Wber; C:\Windows\System32;C:\Windows;C:\Windows\System32\Wber;	
/stem variables Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS Path PATHEXT PROCESSOR ARCHITECTURE	New Edit Delete Value C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1 Windows_NT C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem; .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC AMD64	

Set the name of the variable "JAVA_HOME" (1). As the value of the variable, specify the directory of your OpenJDK installation that you have just copied to C:\ bluespice\bin (2). Here you can use the "browse directory" button (3). Then click "OK" (4):

New System Variable	•	\times
Variable <u>n</u> ame: Variable value:	JAVA_HOME C:\bluespice\bin\jdk-11.0.2	
Browse <u>D</u> irectory	3 Browse <u>File</u> OK 4 ncel	

Close all newly opened windows one after the other by clicking on "OK".

Next step

If you have completed all steps successfully, you can delete the previously downloaded "openjdk-11.0.2_windows-x64_bin.zip" file from your hard disk and go to the next step "Apache Tomcat".

Webservice: LatexRenderer

A quality version of this page, approved on 13 September 2019, was based off this revision.



1	Tip for this Document	. 23
2	Installation of the LatexRenderer application	. 23
3	Restart Tomcat	. 23
4	Troubleshooting	23



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

- Please, read this manual completely and work through the single installtion 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

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

Restart Tomcat

Restart the Tomcat Webserver like described here.

This completes the installation of LatexRenderer.

Troubleshooting

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

Webservice: PDF-Export

A quality version of this page, approved on *19 September 2019*, was based off this revision.

1	Moving the BShtml2PDF Application	. 24
2	Checking the functionality	. 24
3	Enable PDF Export in BlueSpice	. 24
4	Troubleshooting	. 26
5	Download Web services	. 26



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:

EShtml2PDF	http://localhost:8080/BShtml2PDF/		- Č	Search D v	 < U
	BlueSpice	BShtml2PDF			
	Service Status: [OK]			9e60014116594852c3169bd042201c1cd9a494b4	
				Hallo Welt! GmbH, halloweit.com support@halloweit.com	,

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 isntalled the web service .



...event_agent field does not exist in echo_event table, skipping modify field patch odifying event_variant field of table echo_event ...done. odifying event_extra field of table echo_event ...done. odifying event agent in field of table echo 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. Rebuilding titlekey table...ok. .. 1 ok. ... i ox. ... hitcounter table does not exist, skipping modify field patch. Treating hit_counter_extension table ...done. Creating hit_counter table ...done. ...page table does not contain page counter field. reating bs_editnotifyconnector table ...done. reating bs_namespacemanager_backup_page table ...done. Treating bs_namespacemanager_backup_page table ...done. Treating bs_namespacemanager_backup_revision table ...done. Treating bs_namespacemanager_backup_text table ...done. Adding page_content_model field to table bs_namespacemanager_backup_revision ...done. Adding rev_content_model field to table bs_namespacemanager_backup_revision ...done. Adding rev_content_model field to table bs_namespacemanager_backup_revision ...done. Treating bs_deshboards_configs table ...done. Treating bs_usagetracker table ...done. Treating bs_pagetemplate table ...done. Treating bs_pagetemplate table ...done. reating bs pageassignments table ...done. ..se text field does not exist in bs saferedit table, skipping modify field patch. reating bs_readers table ...done. ..have readers_ts field in bs_readers table. .site_stats is populated...done. mecking existence of old default messages...done. Theoking 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_shai column ...doing rev_id from 1 to 200 Developing rev_shai column opulating ar shal column ..archive table seems to be empty. opulating ar_shal column legacy rows ev_shal and ar_shal population complete [0 revision rows, 0 archive rows]. opulating img_sha1 field Done 0 files in 0.0 seconds Fixing protocol-relative entries in the externallinks table... one, 0 rows updated. opulating fa_sha1 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. one in 1.6 s. oot@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

A quality version of this page, approved on 20 September 2019, was based off this revision.



1 Tips for this Document	
2 Copy of BShtmlDiff	
3 Restart Tomcat	
4 Troubleshooting	



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

BlueSpice

- 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.