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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://tom	mcat.apache.org/download-90.cgi	sarch P + G	1 57 69
Apache Tomcat® - Apac	ache X		
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 yearly the integrity of the downloaded files. We provide OpenPGP signatures for every the KEYS file which contains the OpenPGP keys of Torncat's Release Managers. We also provid download the file, you should calculate a checksum for your download, and make sure it is the sa	r release file. This signature should be matched ag de SHA-512 checksums for every release file. Afte ame as ours.	jainst r you
Documentation	Mirrors		
Tomcat 9.0 Tomcat 8.5 Tomcat 7.0 Tomcat Connectors	You are currently using http://www.gutscheine.org/mirror/apache/. If you encounter a problem mirrors are failing, there are backup mirrors (at the end of the mirrors list) that should be available Other mirrors [http://apache.lauf-forum.at/ Change	n with this mirror, please select another mirror. If a le.	,I
Wiki Migration Guide	9.0.16		
Presentations	Please see the README file for packaging information. It explains what every distribution contain	ins.	
Problems? Security Reports			
Find help FAQ Mailing Lists Bug Database IRC	Binary Distributions - Core: - 21p (pgp. sha512) - Br.gz (pgp. sha512)		
Get Involved	<u>32-bit Windows zip (pgp, sha512)</u> <u>64-bit Windows zip (pgp, sha512)</u>		
Overview Source code Buildbot Tools	 <u>322btf64-bit Windows Service Installer</u> [pgp. sha512) Fuil documentation: tar.gz (pgp. sha512) Deployer: 		
Media	 <u>zip (pgp, sna512)</u> <u>tar.gz (pgp, sha512)</u> 		
Twitter	Embedded: tar (72 (non, sha512))		
Blog	 zip (pgp, 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 Definitions. Ticense" 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, click I Agree to continue. You must acce agreement to install Apache Tomcat.	ept the
Nullsoft Install System v3.04	Cancel

Click "Next >":



🗮 Apache Tomcat Setup		- 🗆 🗙	
Choose Components Choose which features of Apa	che Tomcat you want to install.]™
Check the components you wa install. Click Next to continue.	ant 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 —	< Back	Next > Cancel]

Click "Next >" again:

🗮 Apache Tomcat Setup: Cor	nfiguration Opt	ions	_	
Configuration Tomcat basic configuration.				
Server Shutdown Port HTTP/1.1 Connector Port		8005		
Windows Service Name Create shortcuts for all users		Tomcat9		
Tomcat Administrator Login (optional)	User Name Password Roles	manager-gui]]]
Nullsoft Install System v3,04 —		< Back Nex	(t >	Cancel

Wählen (1) Sie das Home-Verzeichnis Ihrer OpenJDK-Installation (2) aus und klicken auf "Next >" (3):





減 Apache Tomcat Setup: Java Virtual Machine path selection	_		×
Java Virtual Machine Java Virtual Machine path selection.		X	
Please select the path of a Java SE 8.0 or later JRE installed on your sy	/stem.		
2 C:\bluespice\bin\jdk-11.0.2			
Nullsoft Install System v3.04	t >	Can	cel

Starten Sie jetzt die Installation von Tomcat:

減 Apache Tomcat Setup		_		\times
Choose Install Location			\sim	<u></u>
Choose the folder in which to install Apache Tomcat.			X	
Setup will install Apache Tomcat in the following folder. To install i Browse and select another folder. Click Install to start the installa	n a differ tion.	ent fold	der, clich	<
Destination Folder				
C:\Program Files\Apache Software Foundation\Tomcat 9.0		B <u>r</u> ows	æ	
Space required: 13.2 MB				
Space available: 47.0 GB				
Nullsoft Install System v3.04		_		
< <u>B</u> ack	<u>I</u> nstall		Can	icel

Am Ende der Installation wählen Sie beide vorselektierten Haken ab (1) und beenden das Setup (2)





Konfiguration von Apache Tomcat

Wechseln Sie in das Installationsverzeichnis von Tomcat. Standardmäßig finden Sie dies unter C: \Program Files\Apache Software Foundation\Tomcat 9.0\conf.

Öffnen Sie hier die Datei context.xml in einem Texteditor und ersetzen Sie die einmal vorkommende Zeile

<Context>

durch

<Context mapperContextRootRedirectEnabled="true">



🥁 *C:\Program Files\Apache Software Foundation\Tomcat 9.0\conf\context.xml - Notepad++ [Administrator]	-	×
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?)
G 🖶 🖶 🗞 🗞 🖕 X 🖄 🗊 🗩 ⊄ # 🦕 ≪ ≪ G 🔄 5. 1 🏋 🖉 🎦 🖘 ⊘ 0 0 0 0 0		
🖶 context.xml 🔀		
1 <mark><1xml version="1.0" encoding="UTF-8"7></mark> 2 = </td <td></td> <td></td>		
contributor license agreements. See the NOTICE file distributed with		
5 this work for additional information regarding copyright ownership. 5 The ASE licenses this file to You under the Apache License, Version 2.0		
7 (the "License"): you may not use this file except in compliance with		
8 the License. You may obtain a copy 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>		
19 Context mapperContextRootRedirectEnabled="true">		
20 clas Default set of monitored resources. If one of these changes, the		
22 Class web amplication will be reloaded		
23 SWATCH-REPORT AND SWATCH AN		
24 <watchedresource>WEB-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 E </td <td></td> <td></td>		
29 <manager pathname=""></manager>		
30>		
31		
32		
extensible Markup Language tile length : 1,4/1 lines : 32 Ln : 19 Col : 50 Sel : 0 Windows (CR LF) UTF	8	INS

Speichern und schließen Sie die Datei.

Öffnen Sie im selben Verzeichnis die Datei server.xml in einem Texteditor und stellen sicher, dass der komplette Block

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

wie folgt lautet:

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





Speichern und schließen Sie die Datei.

Suchen Sie im Startmenü den Eintrag "Configure Tomcat" und öffnen diesen:



Stellen Sie den "Startup type" auf "Automatic" (1) und starten Tomcat (2). Anschließend Beenden Sie die Konfigurations-Konsole (3):



💊 Apach	e Tomca	t 9.0 Tom	cat9 Pro	operties			\times
General	Log On	Logging	Java	Startup	Shutdown		
Service	Name:	Tomcat9)				
Display	<u>n</u> ame:	Apache	Tomca	t 9.0 Tomo	at9		
<u>D</u> escrip	tion:	Apache	Tomca	t 9.0.16 Se	erver - https:/	/tomcat.apache	
Pat <u>h</u> to	executal	ble:					
"C:\Pr	ogram Fil	es\Apache	Softwa	re Foundat	tion\Tomcat 9	0\bin\Tomcat9	
Startup	typ <u>e</u> :	Automa	itic		1	~	
		-					
Service	Statuce	Stopped					
Service	Status.	Stopped					
S	tart	2	pp	P	ause	<u>R</u> estart	
_		_					
				ОК	3 _{cel}	<u>A</u> pply	

Überprüfen der Installation

Zur Überprüfung, ob Tomcat korrekt läuft öffnen Sie in einem Browser auf dem Server die Adresse http://localhost:8080/.

Sie sollten nun die Startseite des Tomcat-Servers angezeigt bekommen:

eche Tomcat/9.0.16 × C	v	C Search O -	6 🕁 🕸
Home Documentation Configuration	Examples Wiki Mailing Lists	Find Help	
Apache Tomcat/9.0.16	APACHE SOFTWARE FOUNDATION		
If you're seeing t	nis, you've successfully installed Tomca	t. Congratulations!	
T [™] Recommended R Security Consider Manager Applicati Clustering/Session	eading: a <u>tions How-To</u> on How-To 1 Replication How-To	Server Status Manager App Host Manager	
Developer Quick Start Tomcat Setup Realms & First Web Application JDBC Date	AAA <u>Examples</u> aSources	Servlet Specifications Tomcat Versions	
Managing Tomcat	Documentation	Getting Help	
	Tomcat 9.0 Documentation	FAQ and Mailing Lists	
For security, access to the <u>manager webapp</u> is restricted. Users are defined in: <pre>\$CATALINA_HOME/conf/tomcat-users.xm</pre> In Torncat 9.0 access to the manager application is split between different users.	Tomcat 9.0 Configuration ¹ Tomcat Wiki Find additional important configuration information in:	The following mailing lists are available: <u>forcat-announce</u> Important announcements, releases, security vulnerability notifications. (Low volume). tomcat-users	



Installation der Webapps

Nach erfolgreicher Installation von BlueSpice befolgen Sie bitte folgende weitere Schritte zur Installation der Webservices und Aktivierung der jeweiligen BlueSpice-Erweiterung:

- PDF-Export
- VisualDiff (nur BlueSpice pro)
- LatexRenderer (nur BlueSpice pro)

Nächster Schritt

Haben Sie alle Schritte erfolgreich abgeschlossen können Sie die zuvor heruntergeladene Datei "apache-tomcat-9.0.16.exe" von Ihrer Festplatte löschen und zum nächsten Schritt "Elasticsearch " weiter gehen.