

Setup:Installation Guide/System Preparation/Windows /Apache Tomcat

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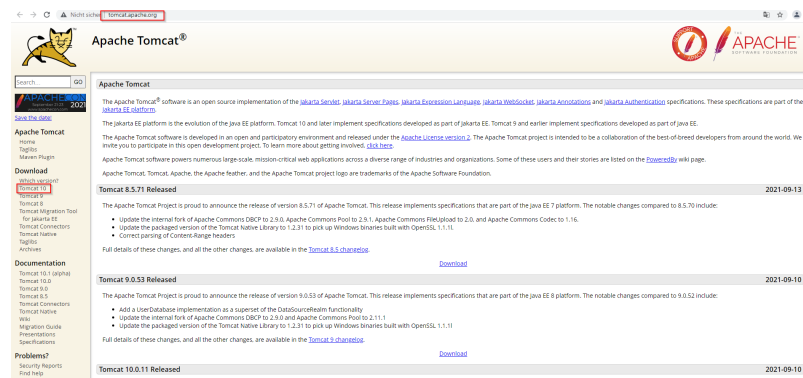
Apache Tomcat is required for the PDF export, VisualDiff (BlueSpice pro only) and the LaTeX renderer (BlueSpice pro only). The following steps are optional and only required if you want to use one or more of these services in your BlueSpice installation.



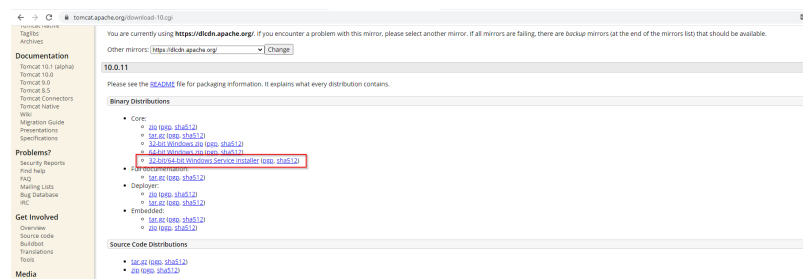
Operation of Apache Tomcat requires [OpenJDK](#). If you have not installed it, follow the link above.

Download

Open the [official download page](#) (1) in your browser and go to the version 10 (2) download page.



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



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.

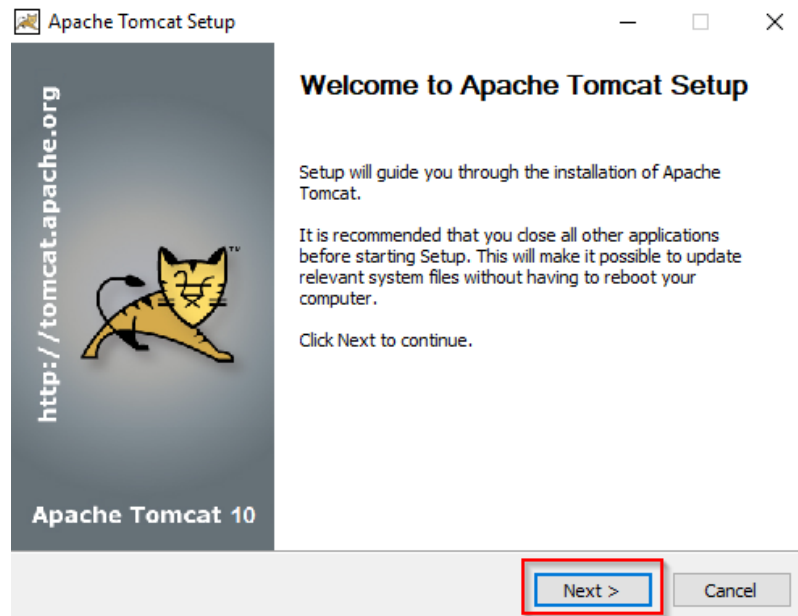


This guide uses version 10.0.12 of Apache Tomcat and is just an example of the latest version that you can download at the time of installation.

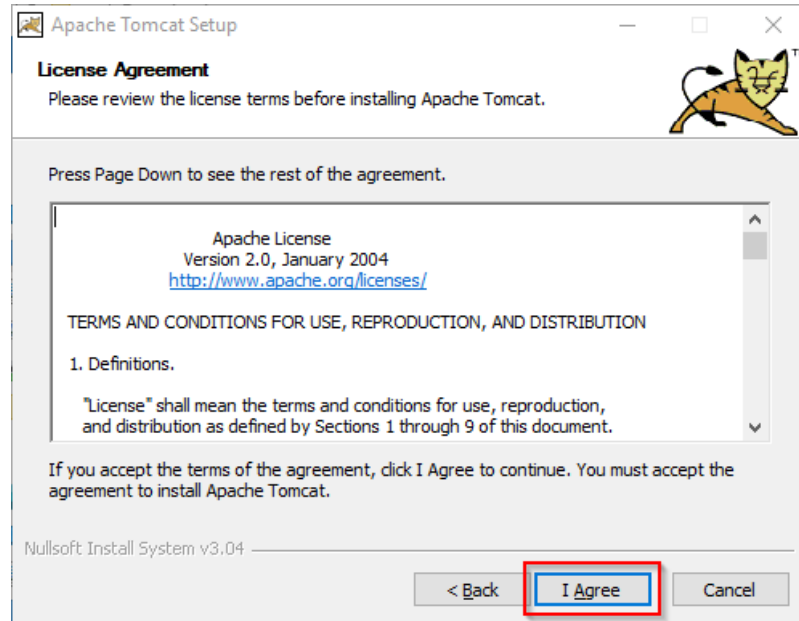
Installing Apache Tomcat

Open the downloaded file "apache-tomcat-10.0.12.exe".

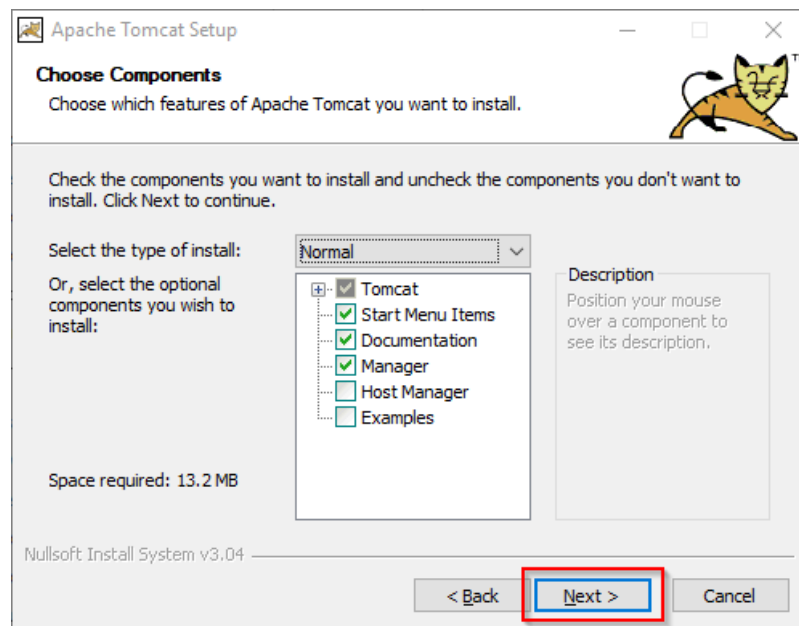
Start the installation by clicking "Next >":



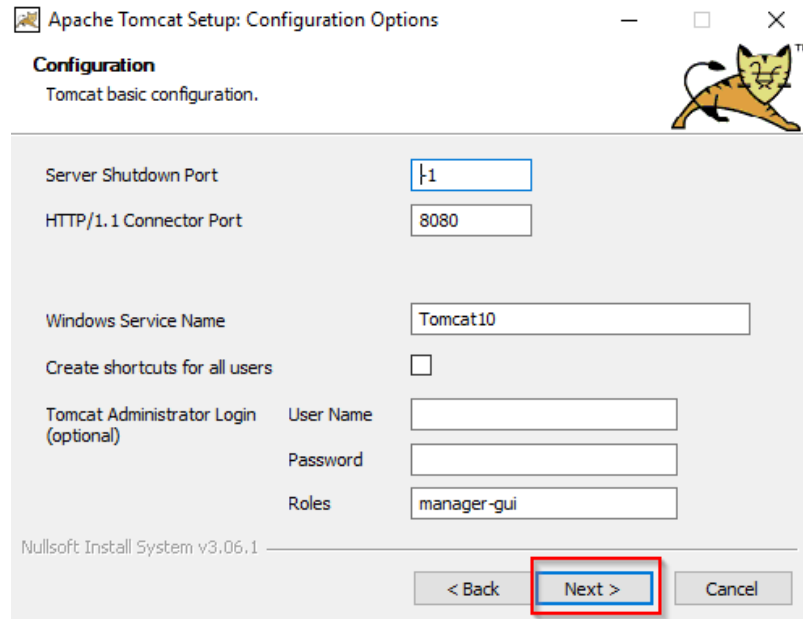
Confirm the license agreement by clicking "I Agree":



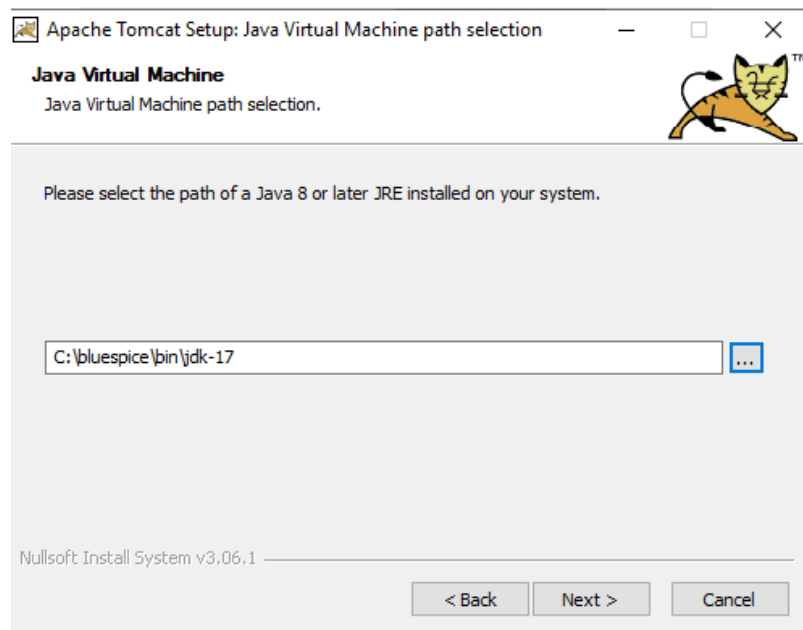
Click "Next >":



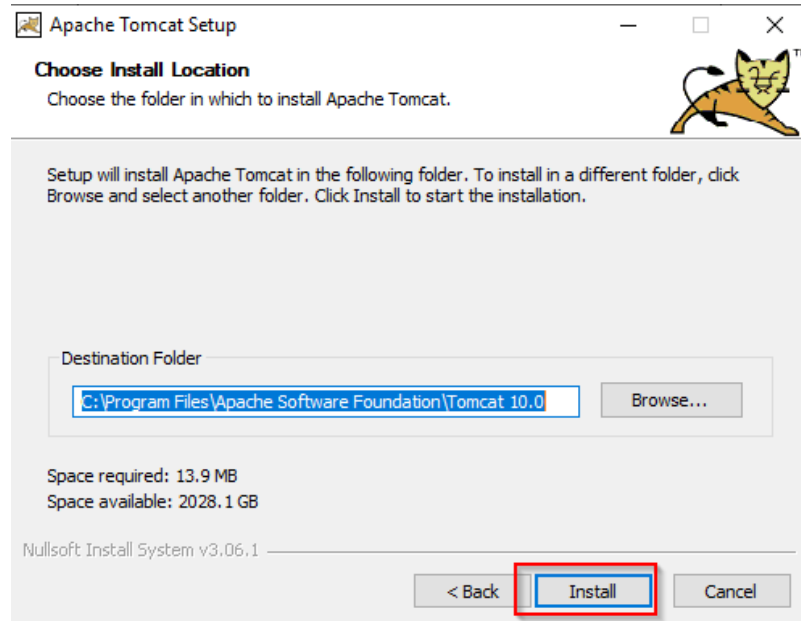
Click "Next >" again:



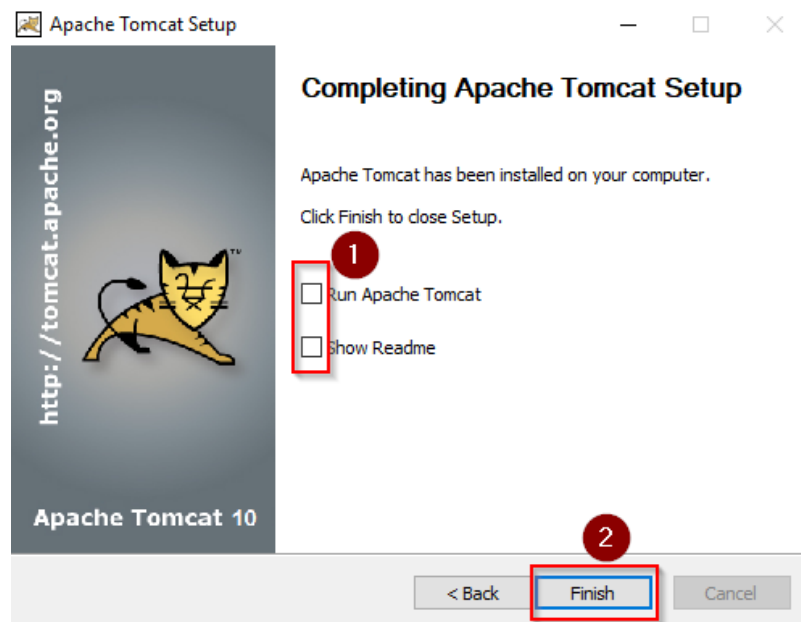
Select (1) the home directory of your [OpenJDK Installation](#) (2) and click "Next>" (3):



Start the Tomcat Installation:



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



Configuring Apache Tomcat

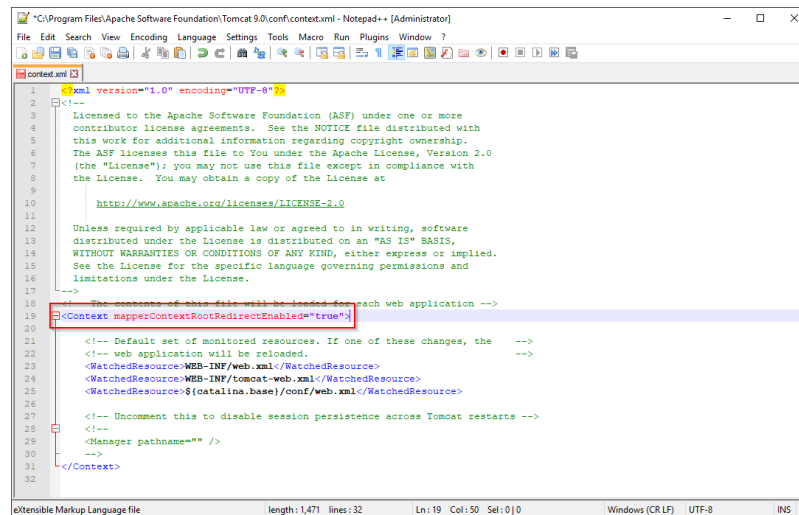
Change to the installation directory of Tomcat. By default, you can find it at `C:\Program Files\Apache Software Foundation\Tomcat 9.0\conf`.

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

```
<Context>
```

with

```
<Context mapperContextRootRedirectEnabled="true">
```



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" />
```

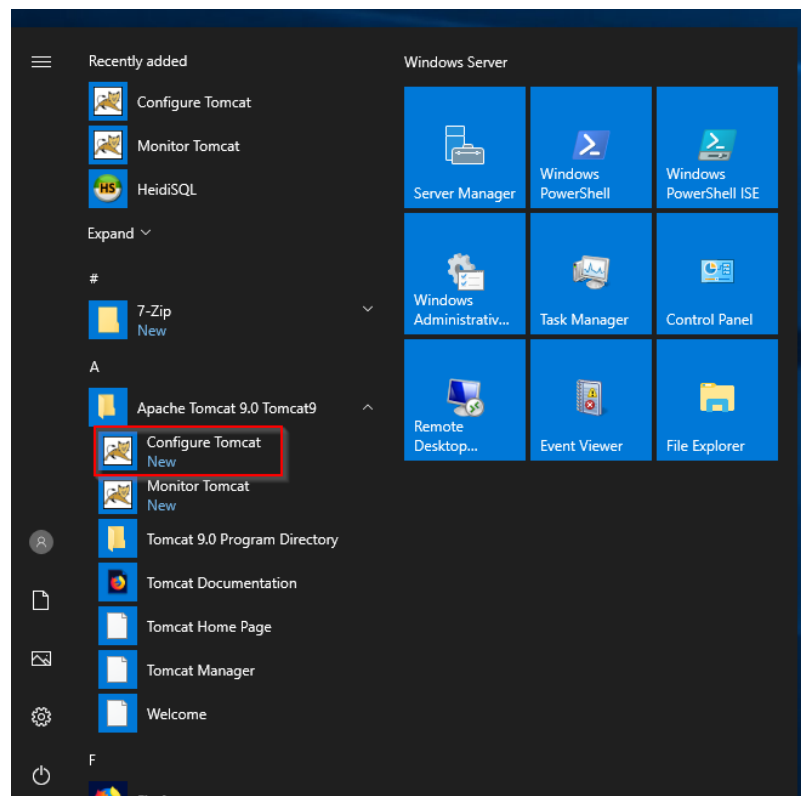
```

52 <!--
53 <Service name="Catalina">
54
55 <!--The connectors can use a shared executor, you can define one or more named thread pools-->
56 <!--
57 <Executor name="tomcatThreadPool" namePrefix="catalina-exec-"
58       maxThreads="150" minSpareThreads="4"/>
59 -->
60
61 <!-- A "Connector" represents an endpoint by which requests are received
62 and responses are returned. Documentation at :
63 Java HTTP Connector: /docs/config/http.html
64 Java AJP Connector: /docs/config/ajp.html
65 APR (HTTP/AJP) Connector: /docs/apr.html
66 Define a non-SSL/TLS HTTP/1.1 Connector on port 8080
67
68 <Connector port="8080" protocol="HTTP/1.1"
69       connectionTimeout="20000"
70       URIEncoding="UTF-8"
71       redirectPort="8443"
72       address="192.0.0.1" />
73
74 <!-- A "Connector" using the shared thread pool-->
75 <!--
76 <Connector executor="tomcatThreadPool"
77       port="8080" protocol="HTTP/1.1"
78       connectionTimeout="20000"
79       redirectPort="8443" />
80 -->
81 <!-- Define a SSL/TLS HTTP/1.1 Connector on port 8443
82 This connector uses the NIO implementation. The default
83 SSLImplementation will depend on the presence of the APR/native
84 library and the useOpenSSL attribute of the

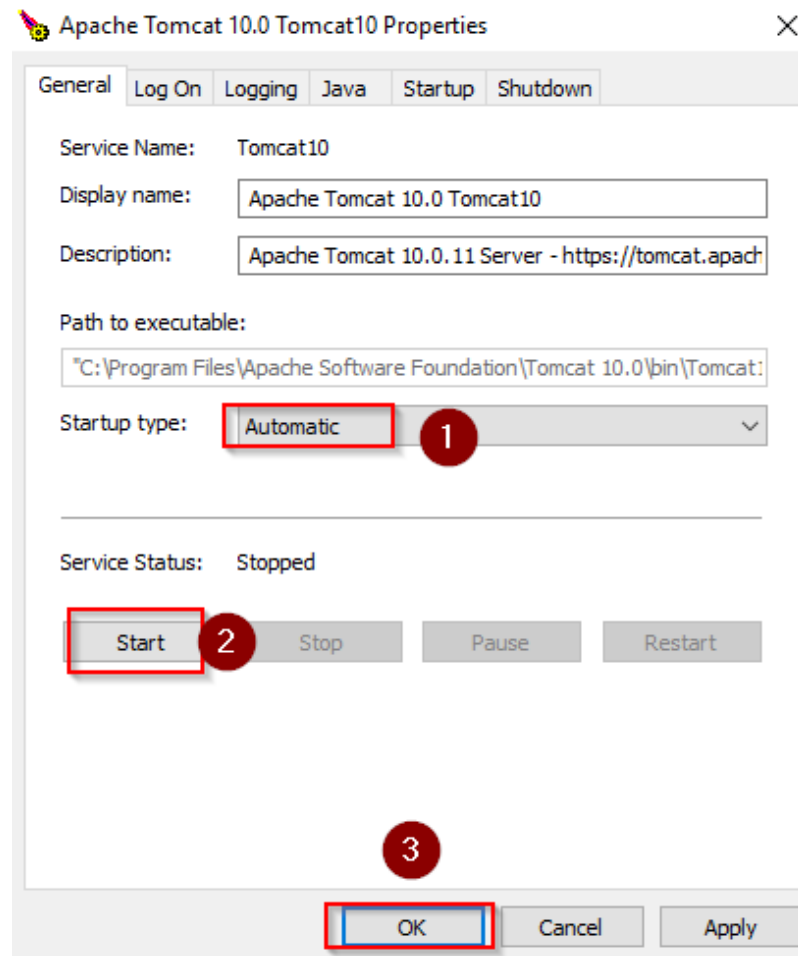
```

Save and close the file.

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):



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:

Home Documentation Configuration Examples Wiki Mailing Lists Find Help

Apache Tomcat/10.0.11

If you're seeing this, you've successfully installed Tomcat. Congratulations!

 Recommended Reading:

- [Security Considerations How-To](#)
- [Manager Application How-To](#)
- [Clustering/Session Replication How-To](#)

Server Status
Manager App
Host Manager

Developer Quick Start

[Tomcat Setup](#) [Realms & AAA](#) [Examples](#) [Servlet Specifications](#)
[First Web Application](#) [JDBC DataSources](#) [Tomcat Versions](#)

Managing Tomcat

For security, access to the `manager.webapp` is restricted. Users are defined in:

```
$CATALINA_HOME/conf/tomcat-users.xml
```

In Tomcat 10.0 access to the manager application is split between different users.
[Read more...](#)

[Release Notes](#)
[ChangeLog](#)
[Migration Guide](#)
[Security Notices](#)

Documentation

[Tomcat 10.0 Documentation](#)
[Tomcat 10.0 Configuration](#)
[Tomcat Wiki](#)

Find additional important configuration information in:

```
$CATALINA_HOME/RUNNING.txt
```

Developers may be interested in:

- [Tomcat 10.0 Bug Database](#)
- [Tomcat 10.0 JavaDocs](#)
- [Tomcat 10.0 Git Repository at GitHub](#)

Getting Help

FAQ and Mailing Lists

The following mailing lists are available:

- [tomcat-announce](#)
Important announcements, releases, security vulnerability notifications. (Low volume).
- [tomcat-users](#)
User support and discussion
- [tomcat-dev](#)
User support and discussion for [Apache TagLibs](#)
- [tomcat-dev](#)
Development mailing list, including commit messages

Other Downloads

- [Tomcat Connectors](#)
- [Tomcat Native](#)
- [TaoLibs](#)
- [Developer](#)

Other Documentation

- [Tomcat Connectors mod_ik Documentation](#)
- [Tomcat Native Developer](#)

Get Involved

- [Overview](#)
- [Source Repositories](#)
- [Mailing Lists](#)
- [Wiki](#)

Miscellaneous

- [Contact](#)
- [Legal](#)
- [Sponsorship](#)
- [Thanks](#)

Apache Software Foundation

- [Who We Are](#)
- [Heritage](#)
- [Apache Home Resources](#)

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)
- [LatexRender](#) (nurBlueSpice pro only)

Next step

If you have completed all steps successfully, you can delete the previously downloaded "apache-tomcat-10.0.11.exe" file from your hard drive and continue to the next step " [Elasticsearch](#)".