

## Contents

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

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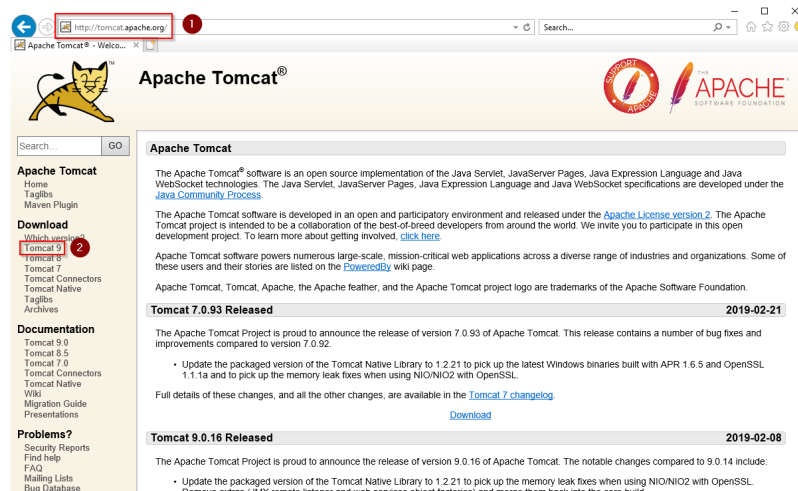
**Apache Tomcat is required for the PDF export. The following steps are optional and only required if you want to use this service in your BlueSpice installation.**



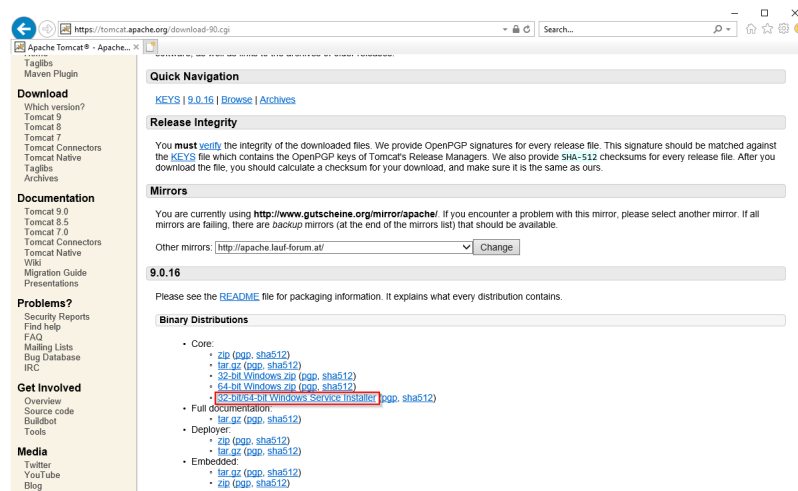
**Operation of Apache Tomcat requires [OpenJDK](#). If you have not installed it, follow the link above.**

## 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.**

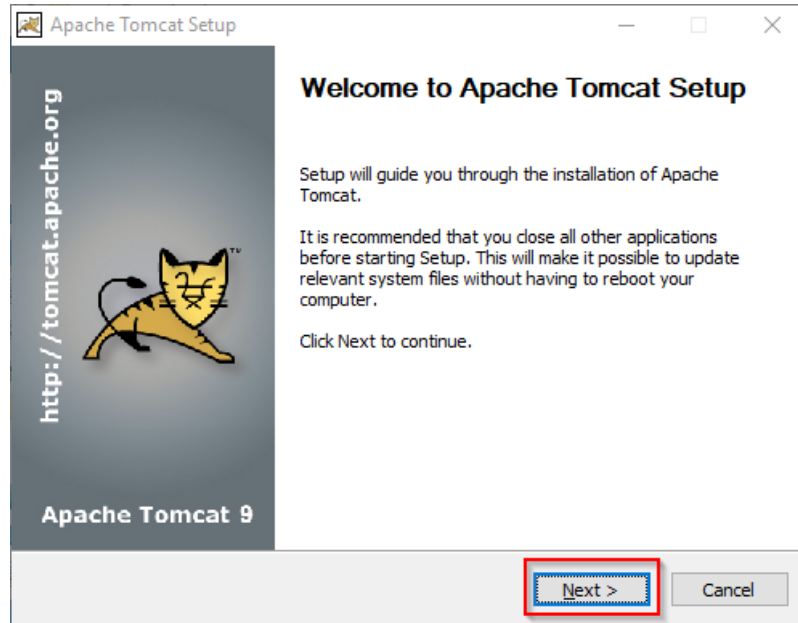


**This guide uses version 9.0.16 of Apache Tomcat and is just an example of the latest version that you can download at the time of installation.**

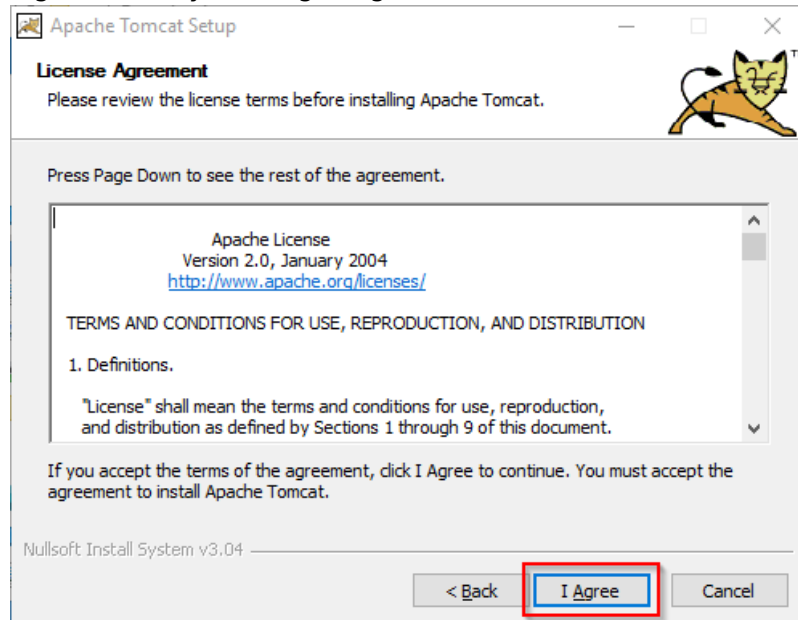
## Installing Apache Tomcat

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

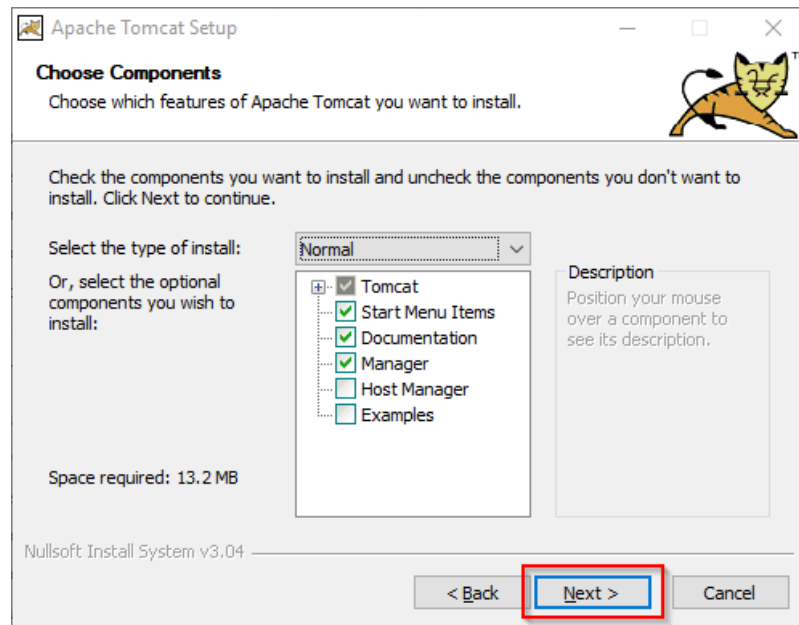
Start the installation by clicking "Next >":



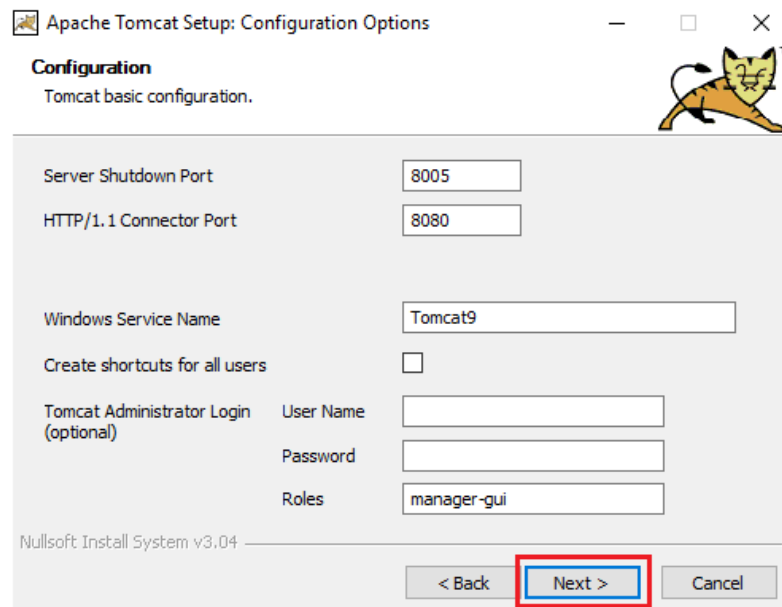
Confirm the license agreement by clicking "I Agree":



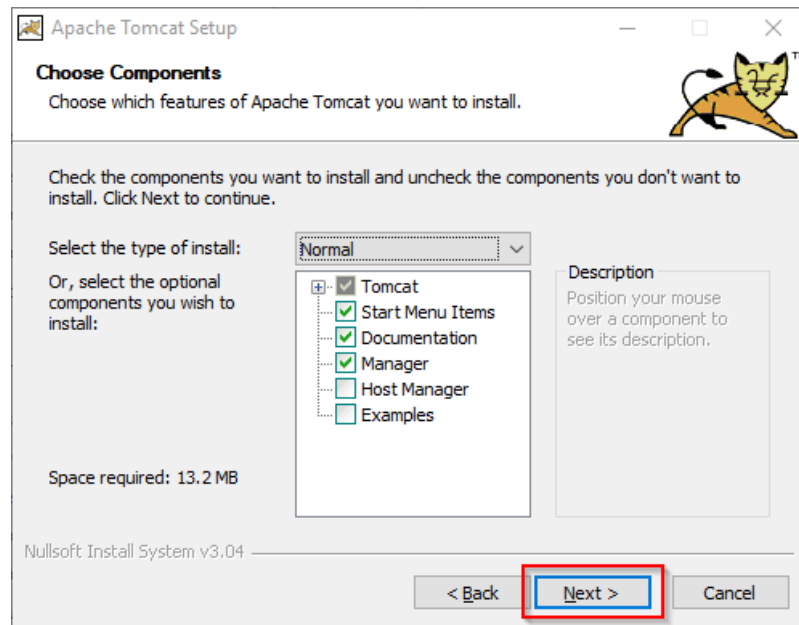
Click "Next >":



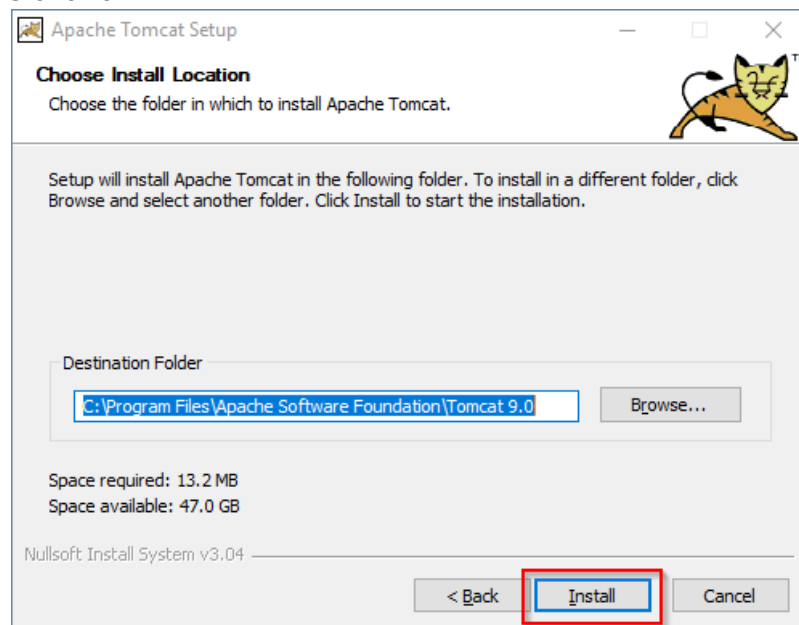
Click "Next >" again:



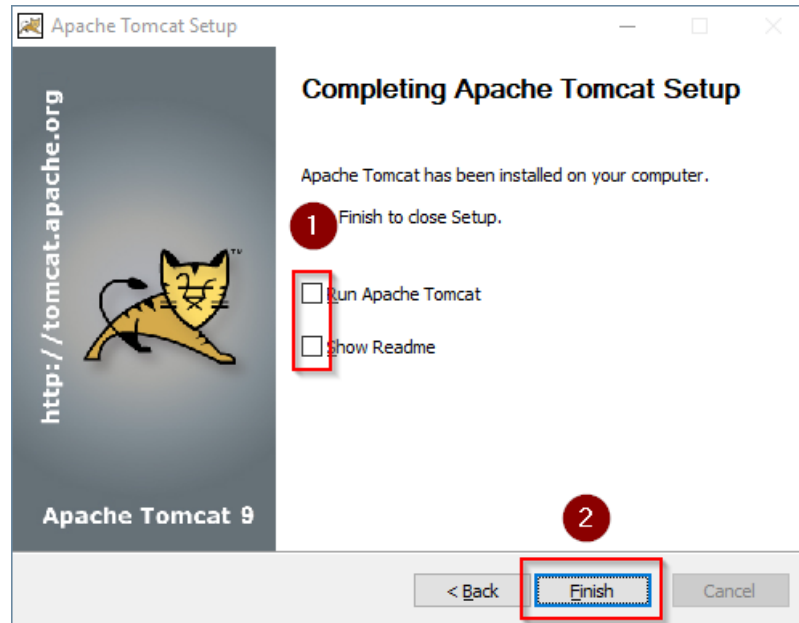
Select (1) the home directory of your [OpenJDK Installation](#) (2) and click "Next>" (3):



Start the Tomcat Installation:



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



## Configuring Apache Tomcat

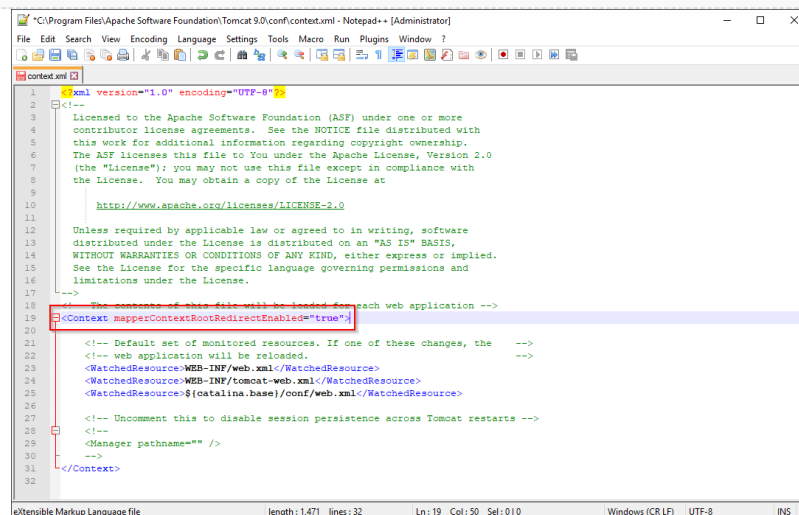
Change to the installation directory of Tomcat. By default, you can find it at `C:\Program Files\Apache Software Foundation\Tomcat 9.0\conf`.

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"
... />
```

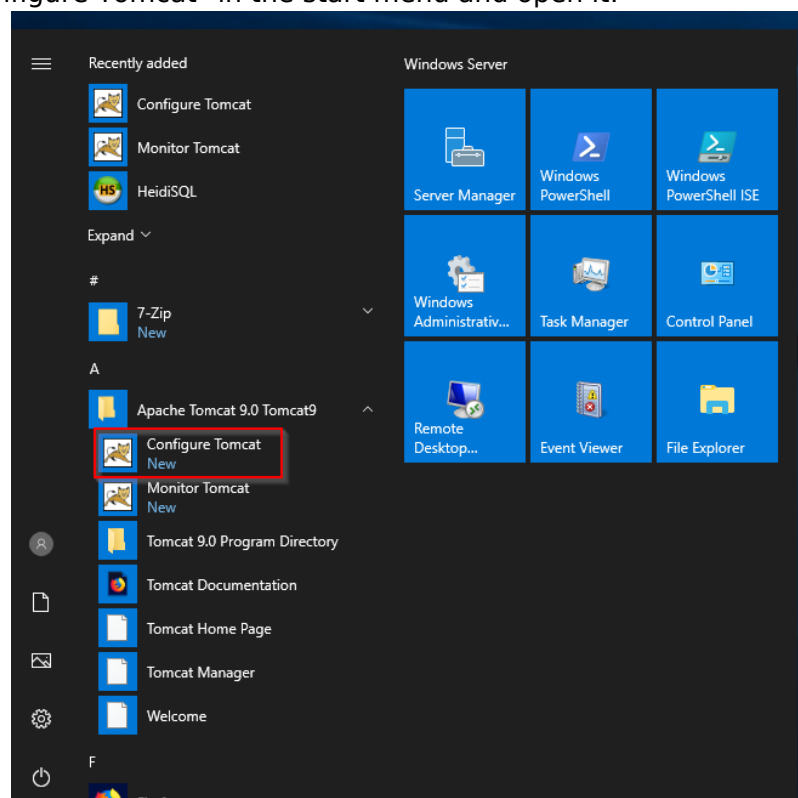
looks like this:

```
<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
62 <!-- A "Connector" represents an endpoint by which requests are received
63     and responses are returned. Documentation at :
64     Java HTTP Connector: /docs/config/http.html
65     Java AJP Connector: /docs/config/ajp.html
66     APR (HTTP/APR) Connector: /docs/apr.html
67     Define a non-SSL/TLS HTTP/1.1 Connector on port 8080
68
69     <Connector port="8080" protocol="HTTP/1.1"
70         connectionTimeout="20000"
71         URIEncoding="UTF-8"
72         redirectPort="8443"
73         address="127.0.0.1" />
74     <!-- Connector using the shared thread pool-->
75 -->
76
77 <!--
78 <Connector executor="tomcatThreadPool"
79     port="8080" protocol="HTTP/1.1"
80     connectionTimeout="20000"
81     redirectPort="8443" />
82 -->
83 <!-- Define a SSL/TLS HTTP/1.1 Connector on port 8443
84     This connector uses the NIO implementation. The default
85     SSLImplementation will depend on the presence of the APR/native
86     library and the useOpenSSL attribute of the
```

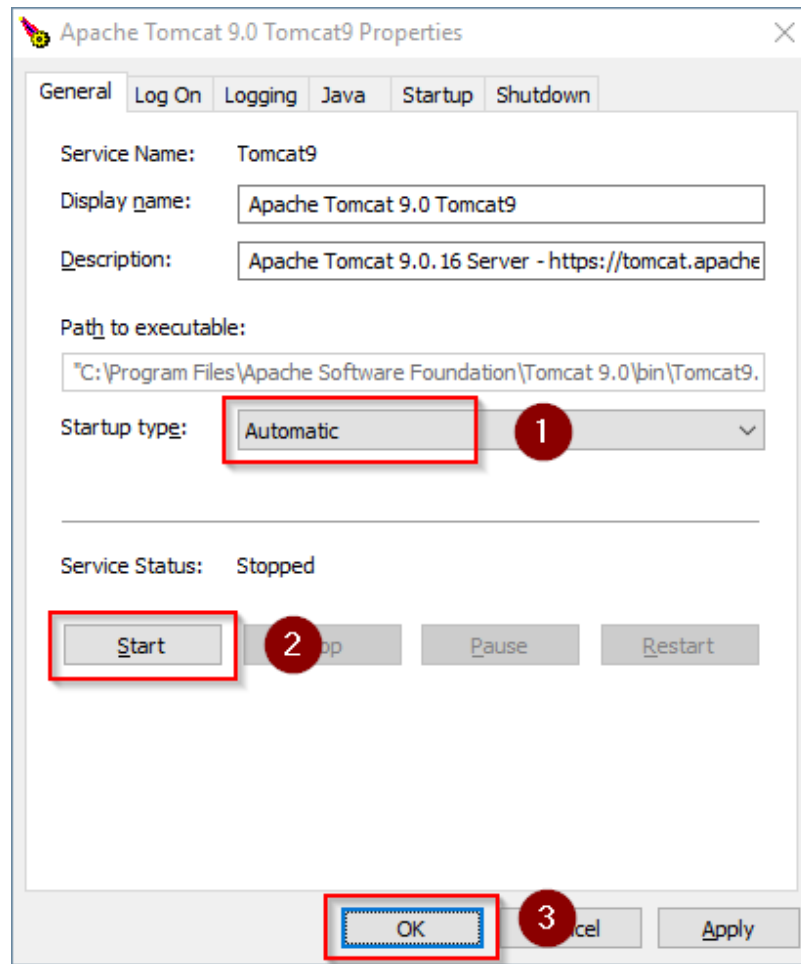
Save and close the file.

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):

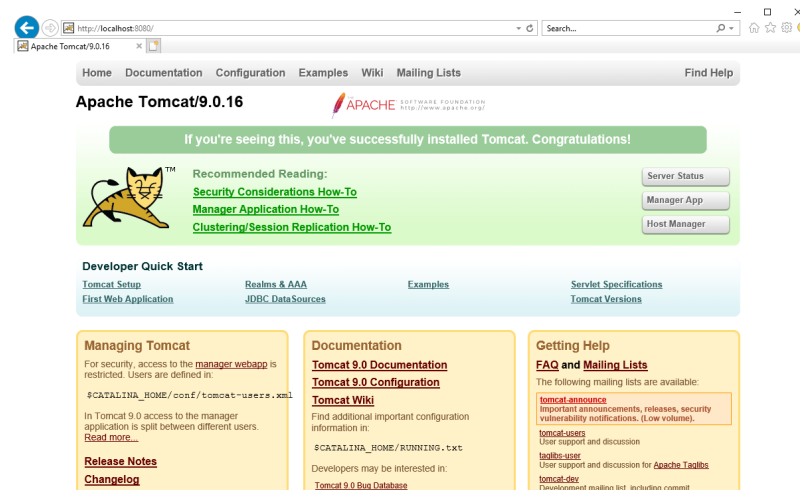




## Reviewing the installation

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:



## Installing the web apps

[[File:{{{file}}}] **Please unzip the installed BlueSpice folder and move the subfolder to C:  
|center]] \bluespice\var\www. Rename the folder to "w".**

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

[PDF-Export](#)

## Next step

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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](#)".