

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 9 (2) download page.

The screenshot shows a web browser displaying the Apache Tomcat download page at <http://tomcat.apache.org/>. The URL in the address bar is highlighted with a red box. The page features the Apache logo and a yellow cartoon cat. The main navigation menu includes 'Home', 'Taglibs', 'Maven Plugin', 'Download' (with 'Tomcat 9' selected), 'Tomcat 7', 'Tomcat Connectors', 'Tomcat Native', 'Tags', 'Archives', 'Documentation' (with 'Tomcat 9.0' selected), 'Tomcat 8.5', 'Tomcat 7.0', 'Tomcat Connectors', 'Tomcat Native', 'Wiki', 'Migration Guide', and 'Presentations'. The 'Problems?' section includes links for 'Security Reports', 'Find Help', 'FAQ', 'Mailing Lists', and 'Bug Database'. The 'Download' section for Tomcat 9.0.16 is shown, dated 2019-02-08, with a download link. The page also contains information about the Apache license and community process.

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

The screenshot shows the Apache Tomcat download page at https://tomcat.apache.org/download-90.cgi. The page includes a sidebar with links for Download, Documentation, Problems?, Get Involved, and Media. The main content area shows the 'Release Integrity' section with a note about OpenPGP signatures and mirrors. It highlights the '9.0.16' release and provides download links for various file formats (ZIP, TAR, etc.) and architectures (32-bit, 64-bit). A specific link for the '32-bit/64-bit Windows Service Installer' is highlighted with a red box.



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.

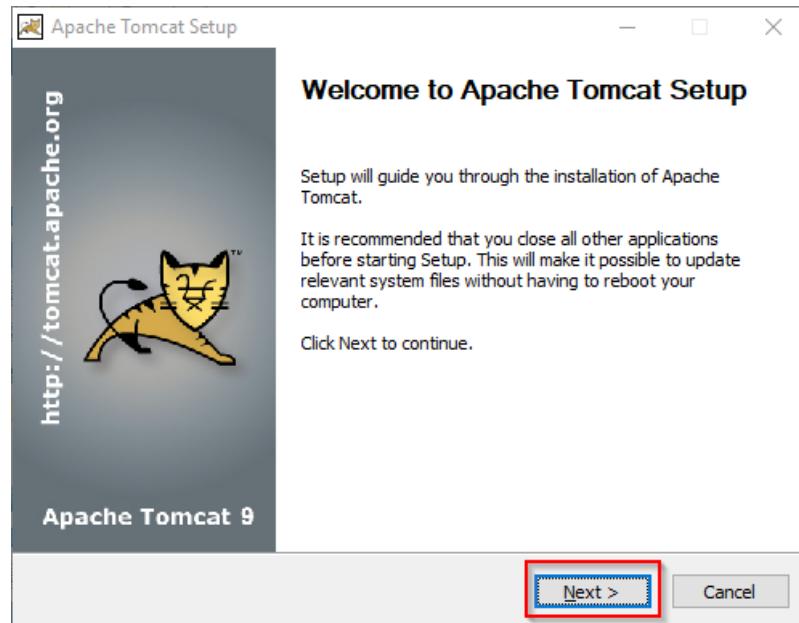


This guide uses version 9.0.16 of Apache Tomcat and is just an example of the latest version that you can download at the time of installation.

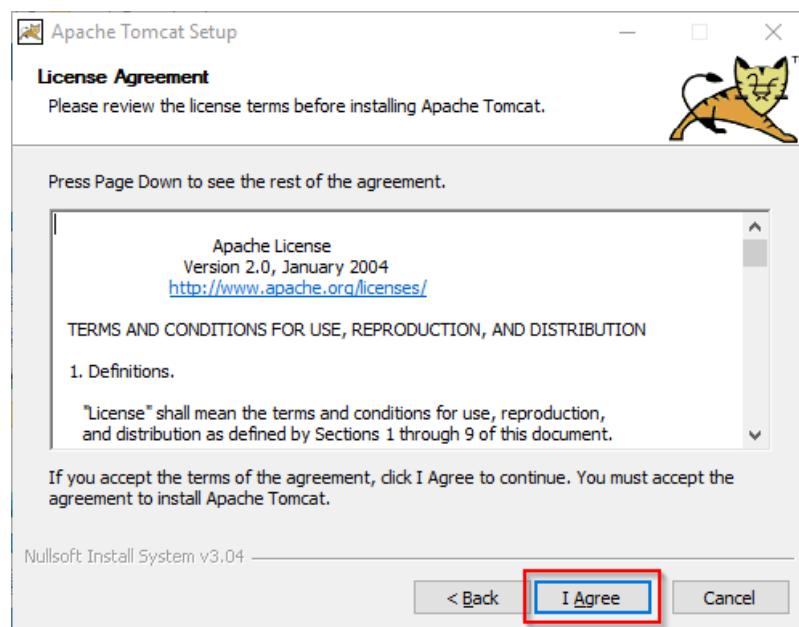
Installing Apache Tomcat

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

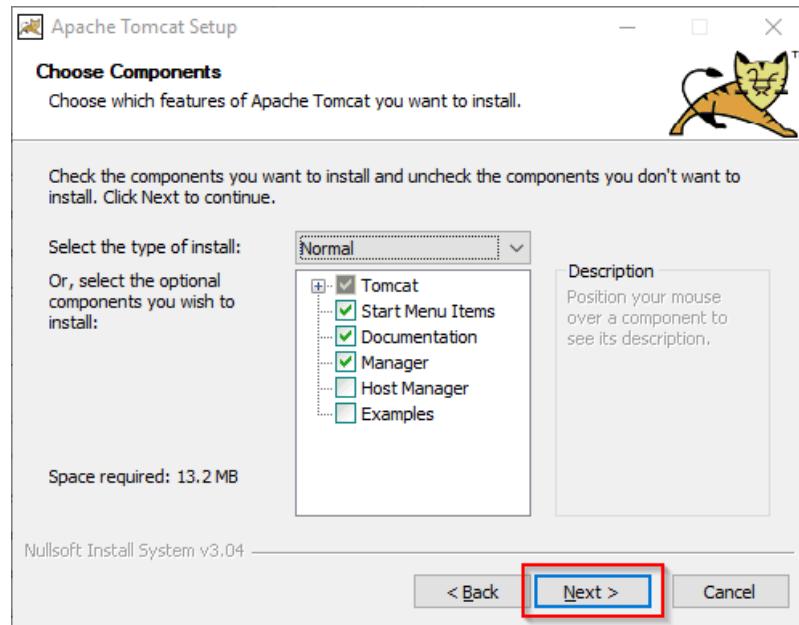
Start the installation by clicking "Next >":



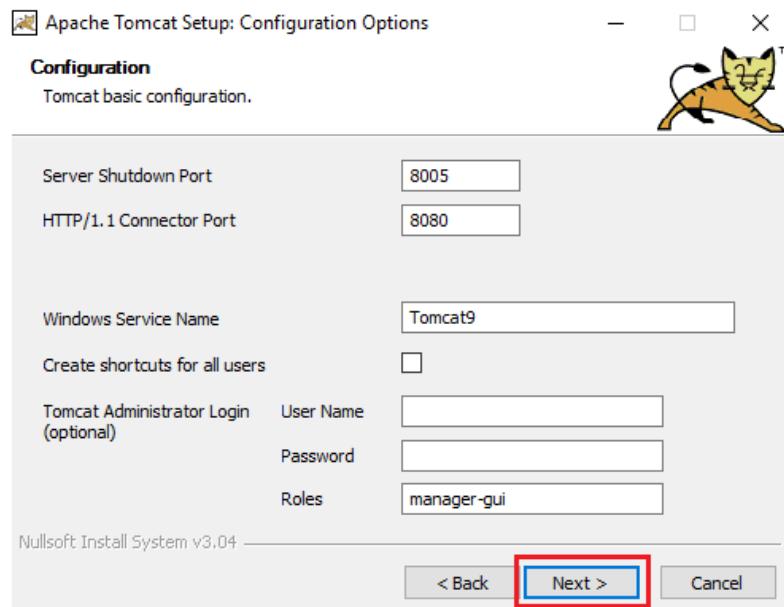
Confirm the license agreement by clicking "I Agree":



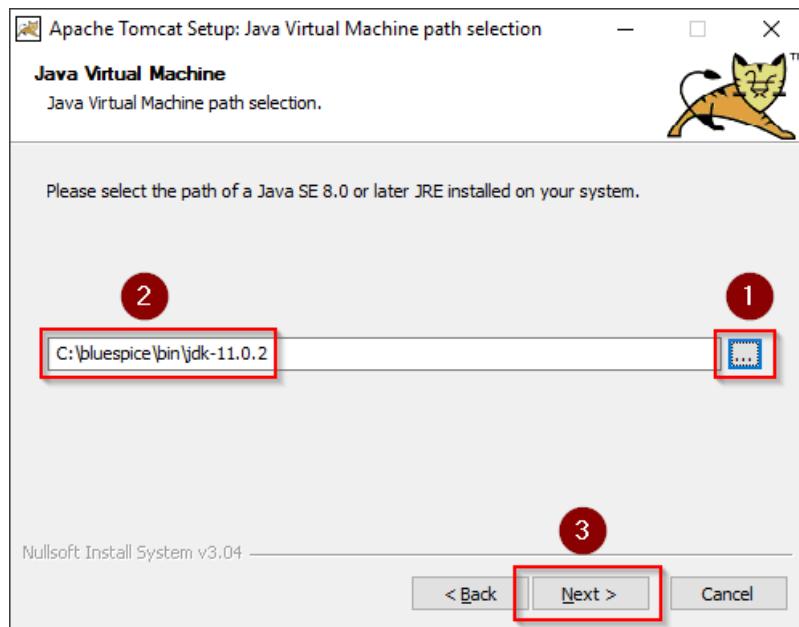
Click "Next >":



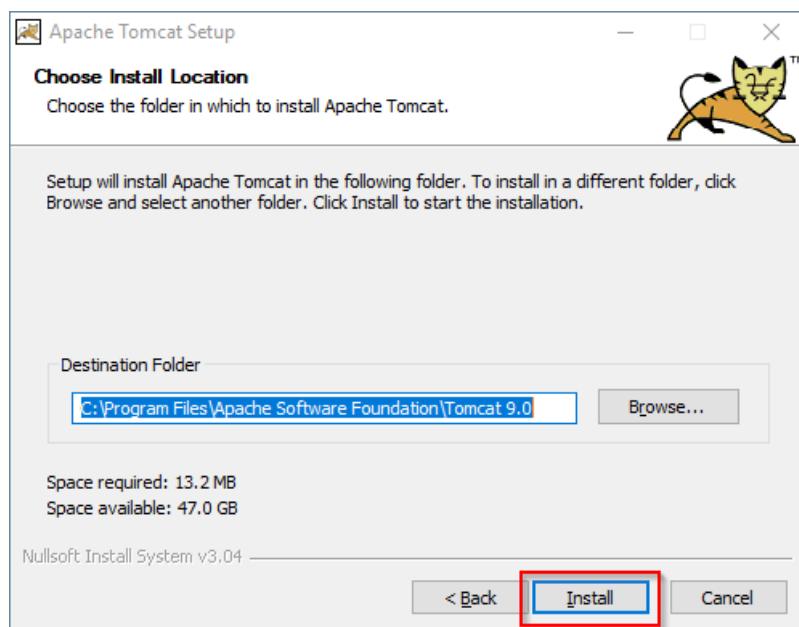
Click "Next >" again:



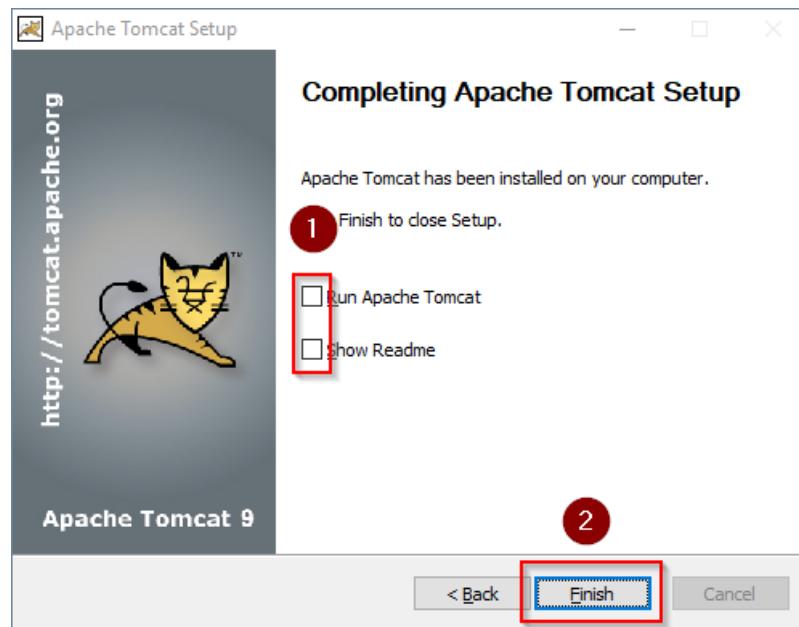
Wählen (1) Sie das Home-Verzeichnis Ihrer [OpenJDK-Installation](#) (2) aus und klicken auf "Next >" (3):



Starten Sie jetzt die Installation von Tomcat:



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">
```

```

<?xml version="1.0" encoding="UTF-8"?>
<!--
  Licensed to the Apache Software Foundation (ASF) under one or more
  contributor license agreements. See the NOTICE file distributed with
  this work for additional information regarding copyright ownership.
  The ASF licenses this file to You under the Apache License, Version 2.0
  (the "License"); you may not use this file except in compliance with
  the License. You may obtain a copy of the License at
  http://www.apache.org/licenses/LICENSE-2.0
-->
<!-- The resources of this file will be loaded for each web application -->
<Context&gt;
  <!-- Default set of monitored resources. If one of these changes, the -->
  <!-- web application will be reloaded. -->
  <WatchedResource>WEB-INF/web.xml</WatchedResource>
  <WatchedResource>WEB-INF/tomcat-web.xml</WatchedResource>
  <WatchedResource>${catalina.base}/conf/web.xml</WatchedResource>
  <!-- Uncomment this to disable session persistence across Tomcat restarts -->
  <!--
  <Manager pathname="" />
  ...
</Context>

```

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" />
```

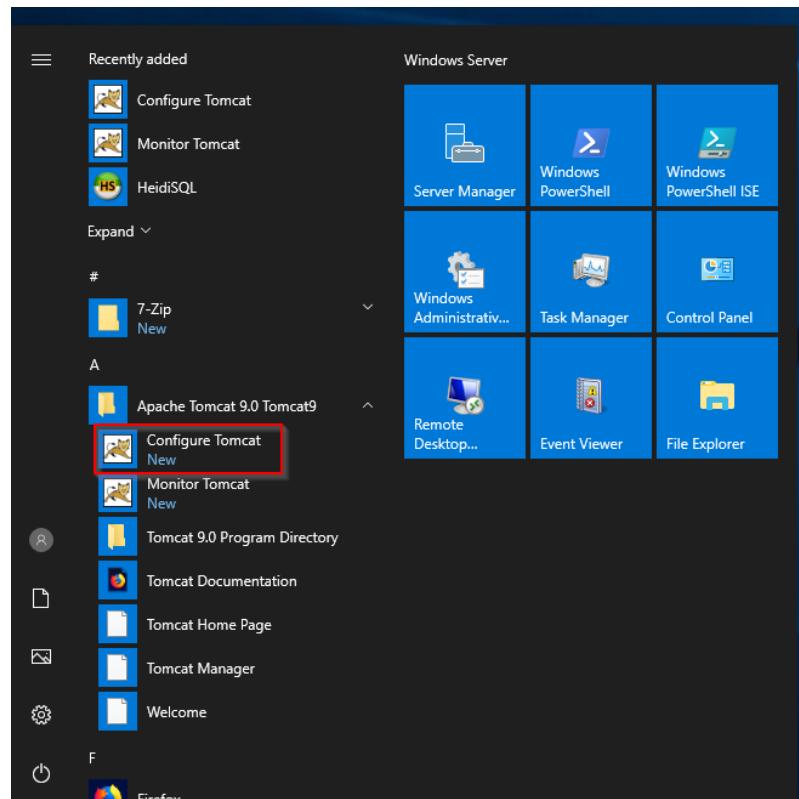
```

<!-->
<Service name="Catalina">
  <!-- The connectors can use a shared executor, you can define one or more named thread pools-->
  <!--
  <Executor name="tomcatThreadPool" namePrefix="catalina-exec-"
    maxThreads="150" minSpareThreads="4"/>
  <!--
  A "Connector" represents an endpoint by which requests are received
  and responses are returned. Documentation at :
  Java HTTP Connector: /docs/config/http.html
  Java AJP Connector: /docs/config/ajp.html
  APR (HTTP/AJP) Connector: /docs/apr.html
  Define a non-SSL/TLS HTTP/1.1 Connector on port 8080
-->
<Connector port="8080" protocol="HTTP/1.1"
  connectionTimeout="20000"
  URIEncoding="UTF-8"
  redirectPort="8443"
  address="127.0.0.1" />
  <!-->
  <!-->
<!-->
<Connector executor="tomcatThreadPool"
  port="8080" protocol="HTTP/1.1"
  connectionTimeout="20000"
  redirectPort="8443" />
  <!-->
<!-- Define a SSL/TLS HTTP/1.1 Connector on port 8443
  This connector uses the NIO implementation. The default
  SSLImplementation will depend on the presence of the APR/native
  library and the useOpenSSL attribute of the
-->

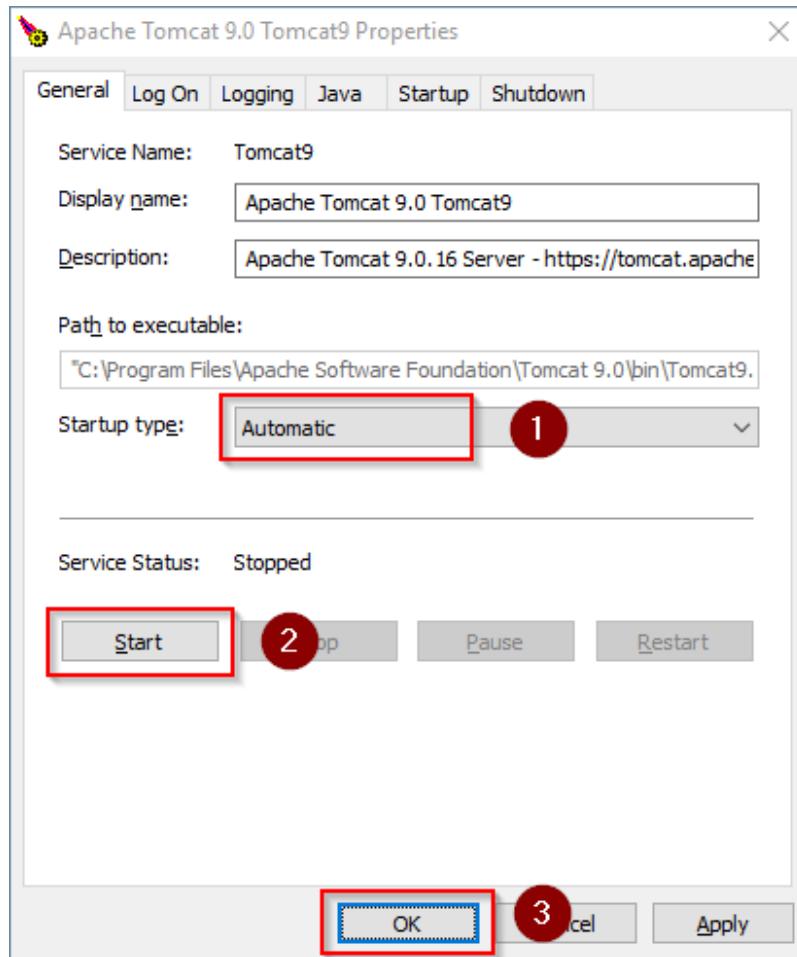
```

Speichern und schließen Sie die Datei.

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



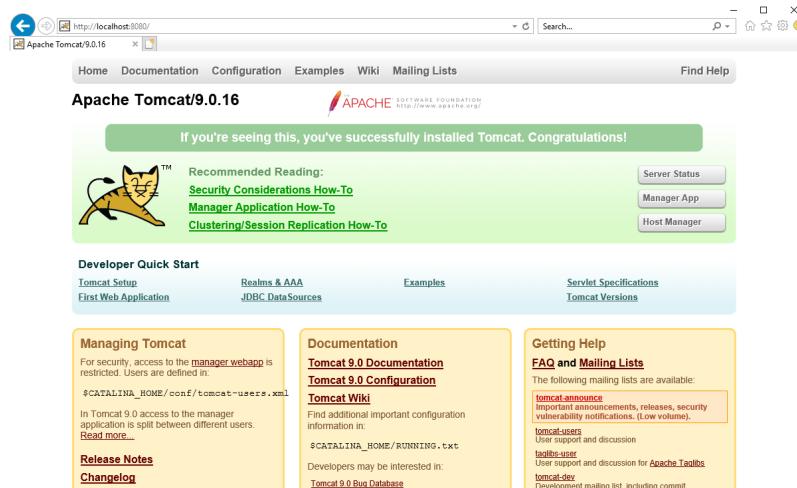
Stellen Sie den "Startup type" auf "Automatic" (1) und starten Tomcat (2). Anschließend Beenden Sie die Konfigurations-Konsole (3):



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:



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.