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OpenJDK on Windows

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OpenJDK is a prerequisite for operating the Extended Search and the PDF export. The steps listed here are therefore optional and only required if you want to use one or more of these services in your BlueSpice installation.



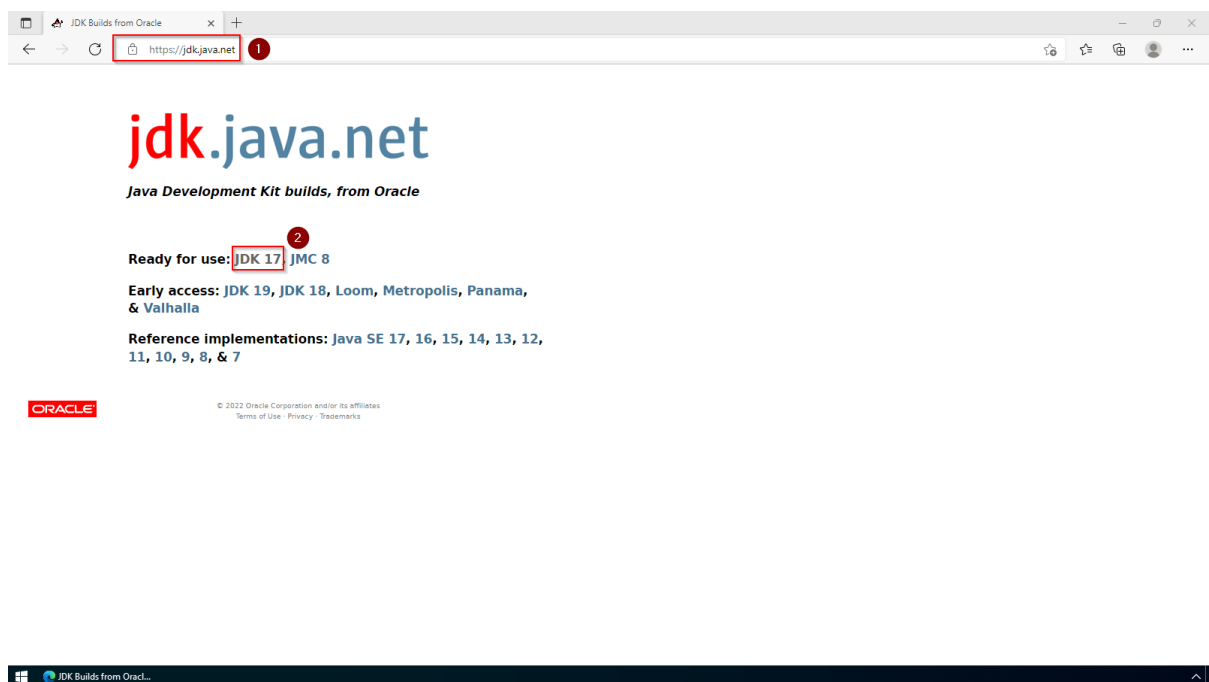
In the following documentation, we work with OpenJDK in version 17.0.2, the current version at the time of writing. You can also use other versions as long as they meet the system requirements we have published. Please note that you then have to adjust the information in this documentation accordingly.

Download

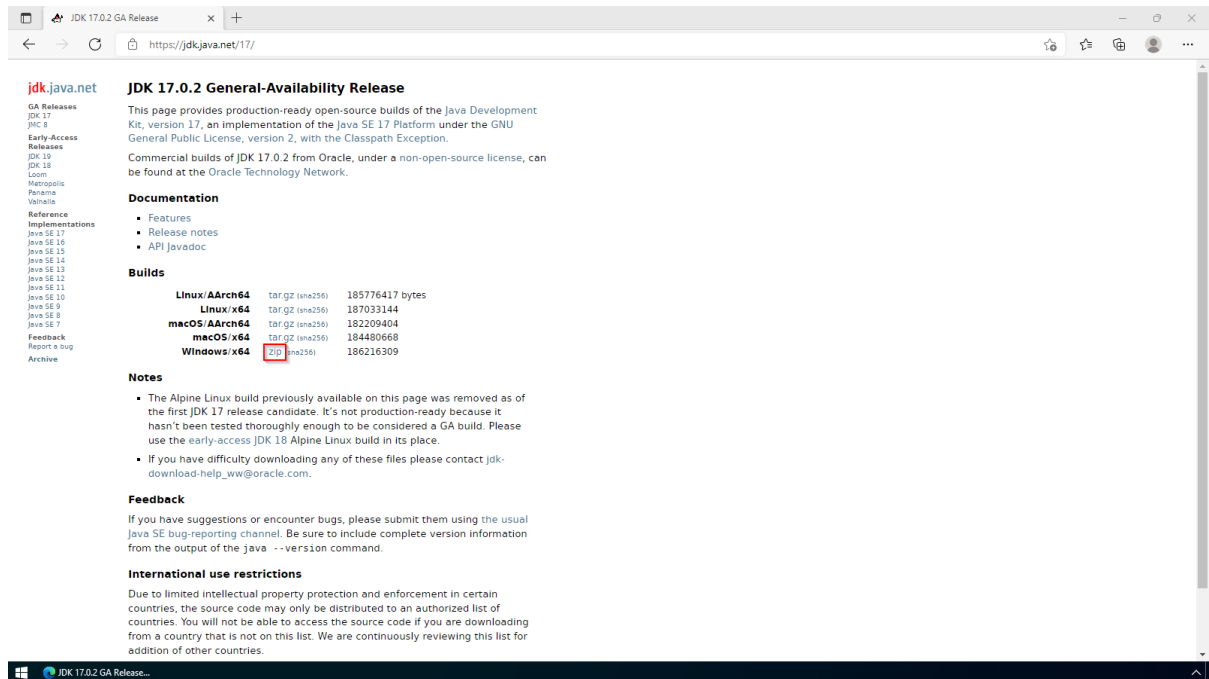


The content of this section refers to external sources and is current at the time of writing this documentation. We cannot guarantee how long these sources will remain unchanged. Please let us know if you notice any discrepancies to the information provided here.

Open the [official website at java.net](https://jdk.java.net) (1) and **click** "JDK 17" (2):



Download the ZIP archive for Windows:



Unpacking the ZIP archive



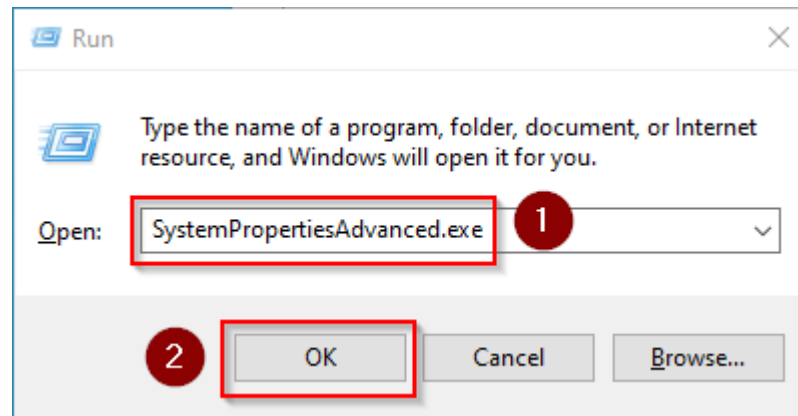
This documentation is based on the [folder structure recommended by us](#). If you want to adjust this individually, you have to adjust the paths yourself according to your own level of knowledge.

Unpack the downloaded ZIP archive to `C:\BlueSpice\bin`. The file structure `C:\BlueSpice\bin\jdk-17.0.2` should be the result.

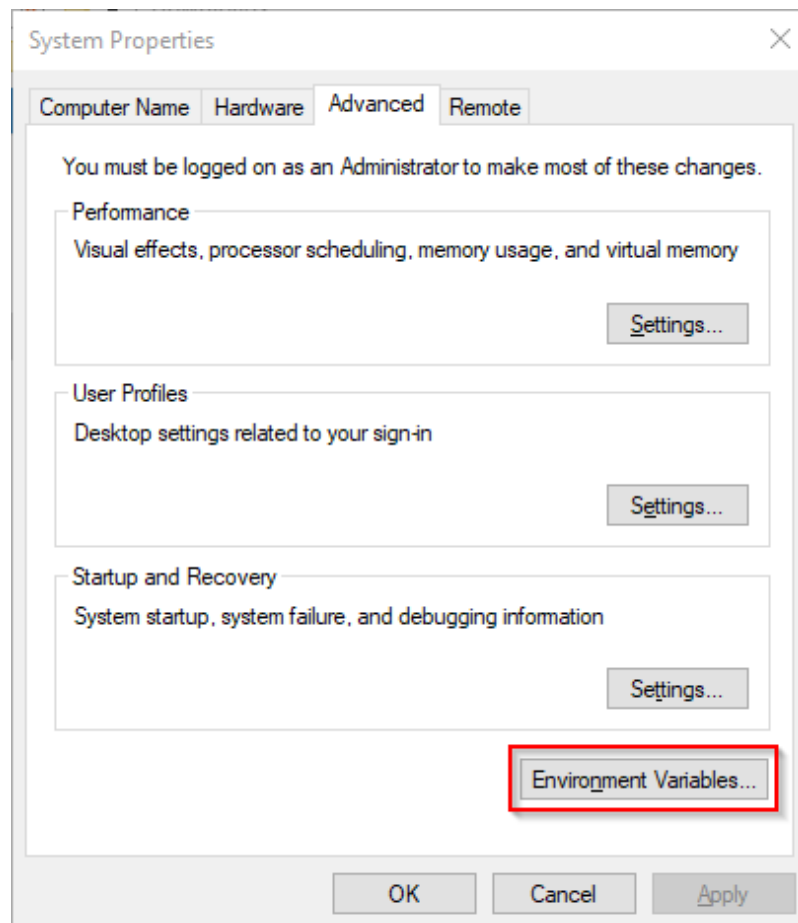
Setting the environment variable

Enter the key combination Windows+R.

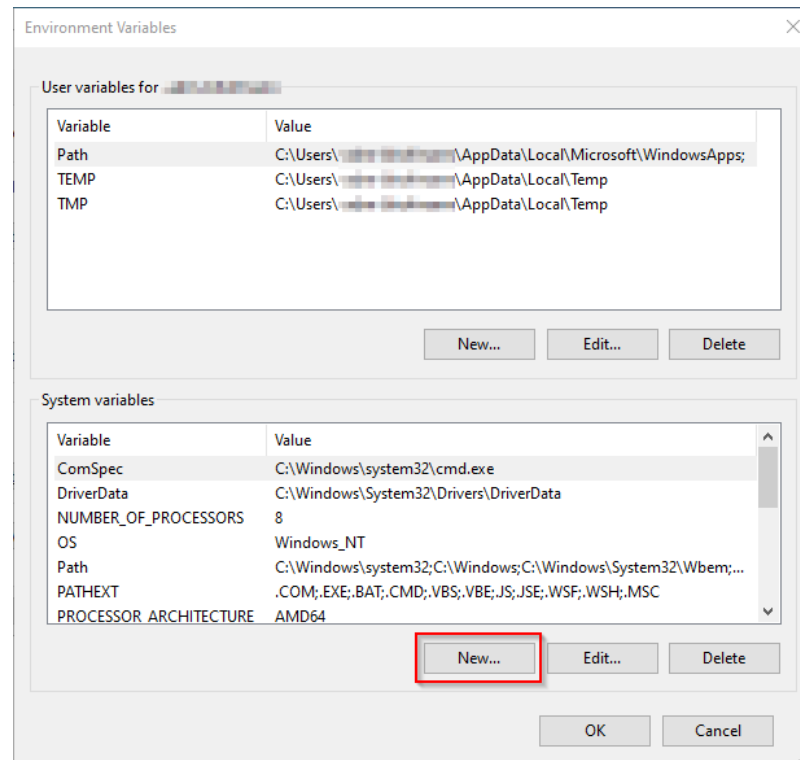
Enter "SystemPropertiesAdvanced.exe" (1) in the dialog window and **click** "OK" (2):



Click "Environment Variables...":



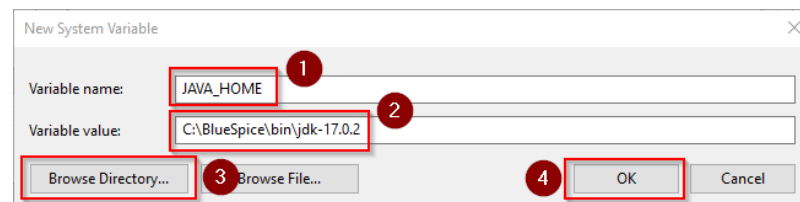
Click "New...":



Set the variable name to "JAVA_HOME" (1), and the variable value to the directory of your OpenJDK installation that you just copied to *C:\bluespice\bin* (2).

You can use the "Browse directory" button (3) for that.

Click "OK" (4):



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

Next step

If you have successfully completed all of the above steps, proceed to the next step: [Apache Tomcat](#).

Windows Folder Structure

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Introduction

Microsoft Windows distributes program installations and configurations, the Webroot under IIS etc. to various folders in the file system. Since BlueSpice is a web application based on PHP, it is not always easy to use the Windows default system paths in the application.

For this reason, we recommend creating a separate folder structure for BlueSpice, all related data and additional program installations.

In the following we describe a proven folder structure that is also recommended by us.

Folder structure

In the following, "\bluespice\" is specified as the base directory for the installation in the root directory of the drive (e.g. C:\bluespice or D:\bluespice).

The folder structure based on Unix operating systems is:

```
bluespice/
├── backup/           # für Backups
├── bin/              # für Zusätzliche Programme sowie eigene Skripte
├── etc/              # für Konfigurationsdateien
├── opt/
│   ├── bluespice/
│   │   ├── cache/    # BlueSpice-eigener Cache
│   │   ├── images/   # Datei-Uploads
│   │   └── widgets/  # Gerenderte Widgets
├── tmp/              # Temporäre Dateien
└── var/
    ├── log/          # LOG-Dateien des Webserver
    └── www/           # Die eigentliche BlueSpice-Applikation
```

Folder names for program installations

When installing programs in \bluespice\bin, please always ensure that these programs are installed in subfolders that do not contain any special characters and/or spaces.

Apache Tomcat on Windows

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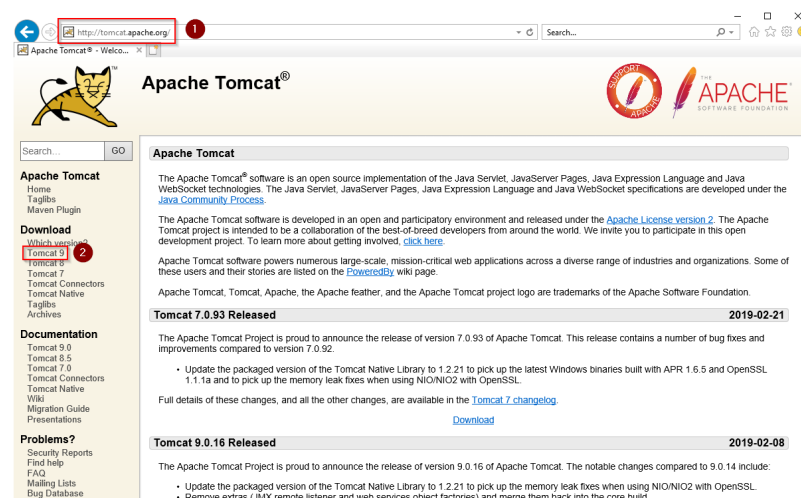
Apache Tomcat is required for the PDF export. The following steps are optional and only required if you want to use this service in your BlueSpice installation.



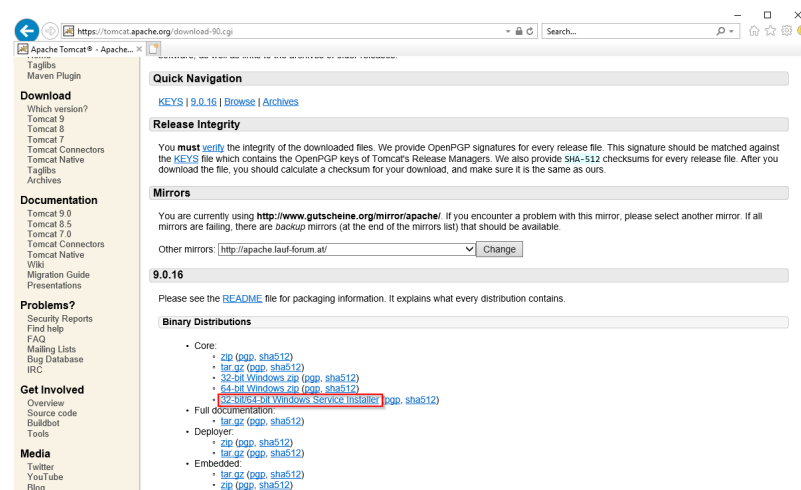
Operation of Apache Tomcat requires [OpenJDK](#). If you have not installed it, follow the link above.

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.

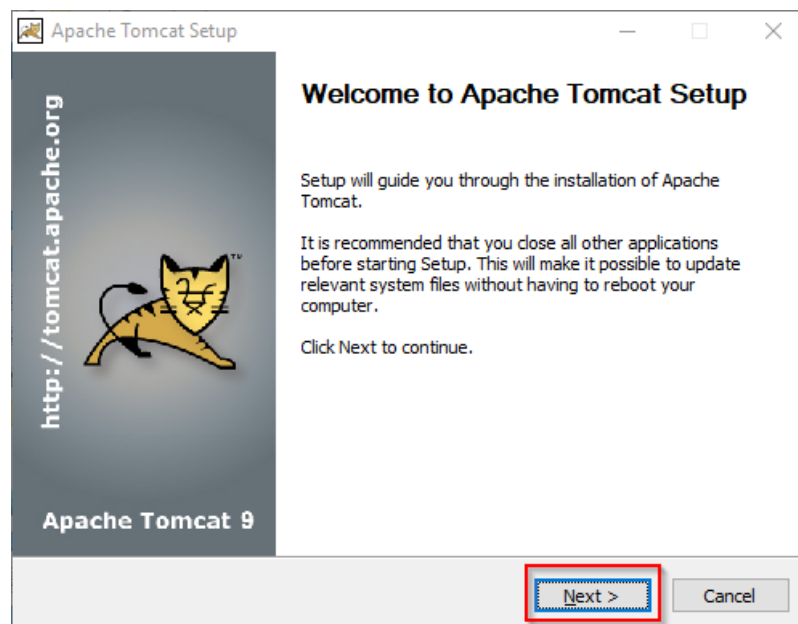


This guide uses version 9.0.16 of Apache Tomcat and is just an example of the latest version that you can download at the time of installation.

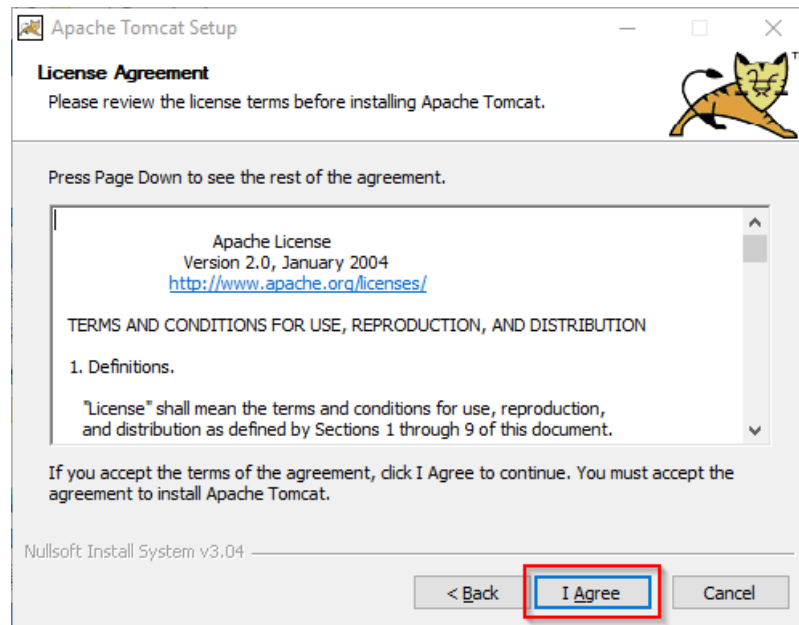
Installing Apache Tomcat

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

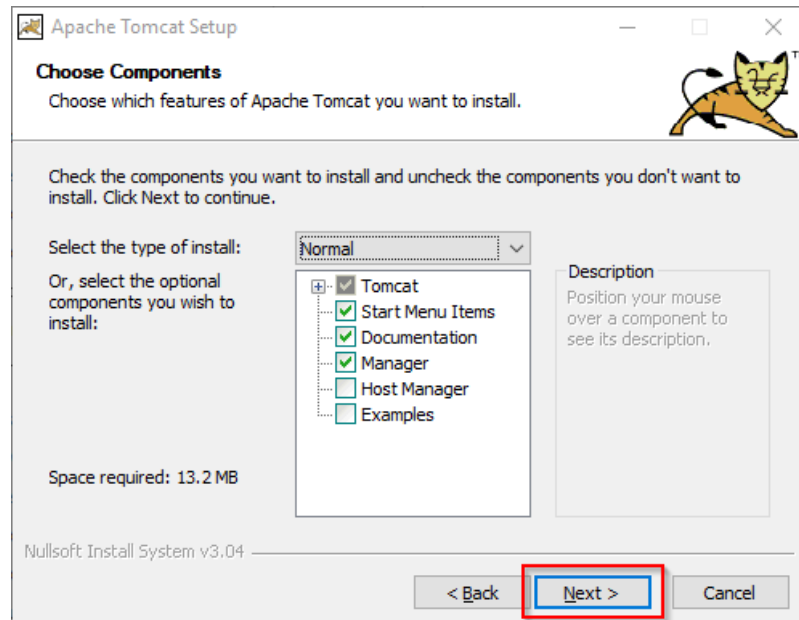
Start the installation by clicking "Next >":



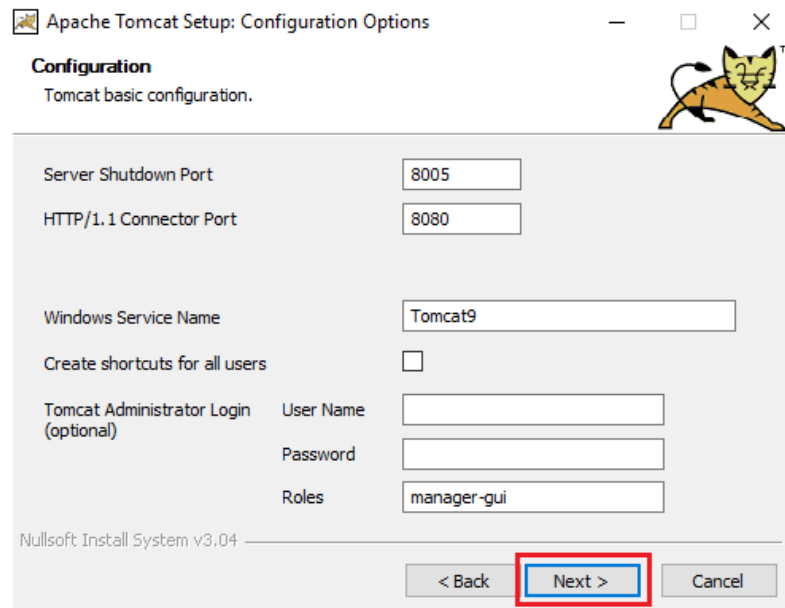
Confirm the license agreement by clicking "I Agree":



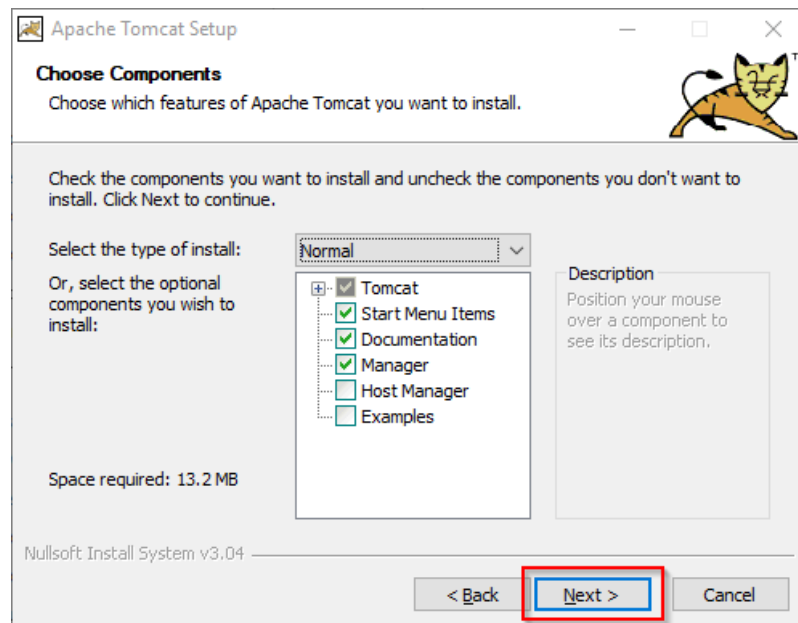
Click "Next >":



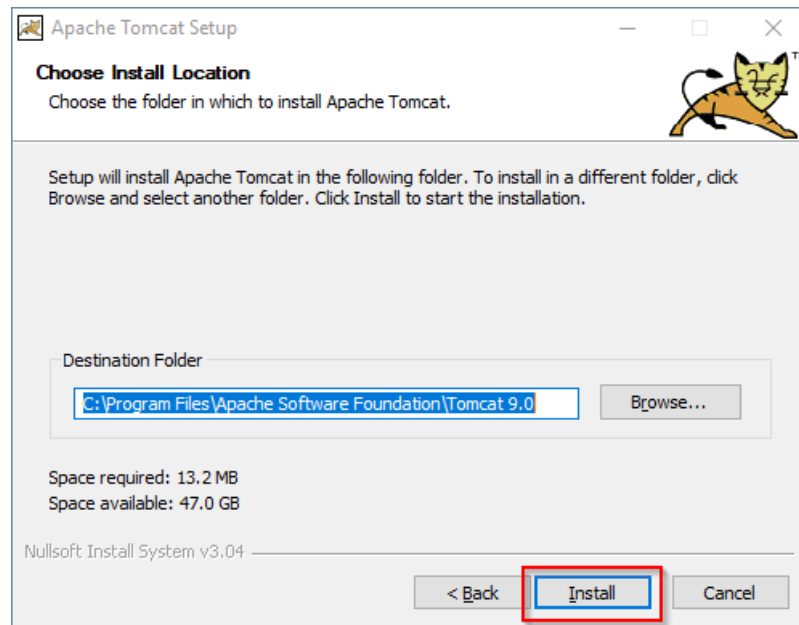
Click "Next >" again:



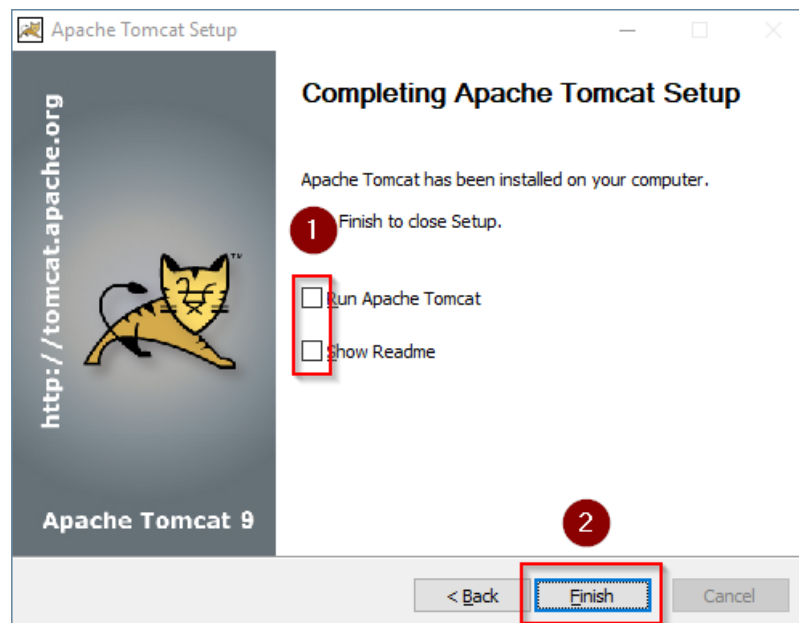
Select (1) the home directory of your [OpenJDK Installation](#) (2) and click "Next>" (3):



Start the Tomcat Installation:



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



Configuring Apache Tomcat

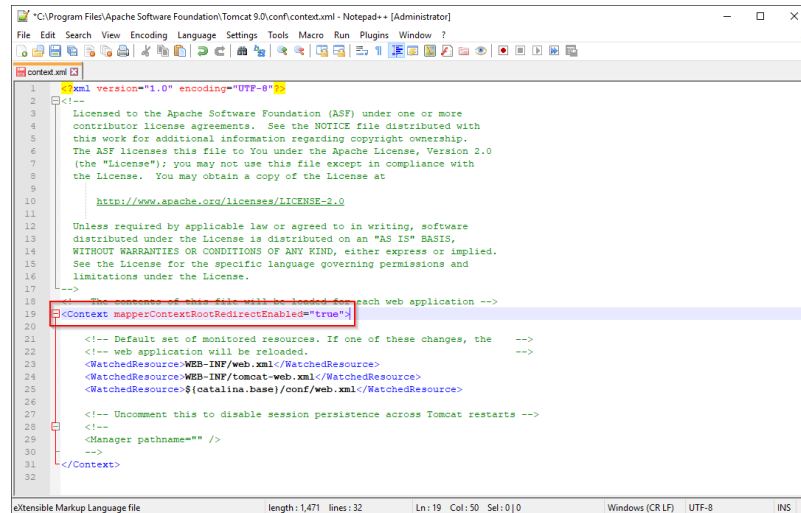
Change to the installation directory of Tomcat. By default, you can find it at `C:\Program Files\Apache Software Foundation\Tomcat 9.0\conf`.

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

```
<Context>
```

with

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



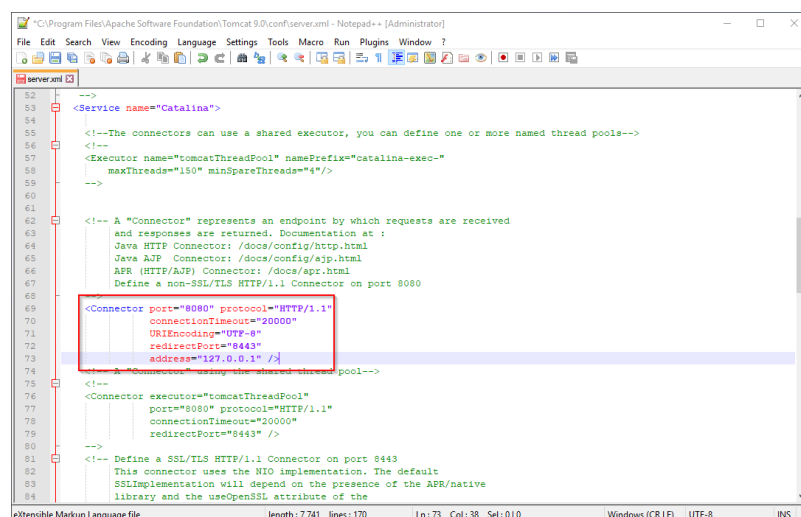
Save and close the file.

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"
... />
```

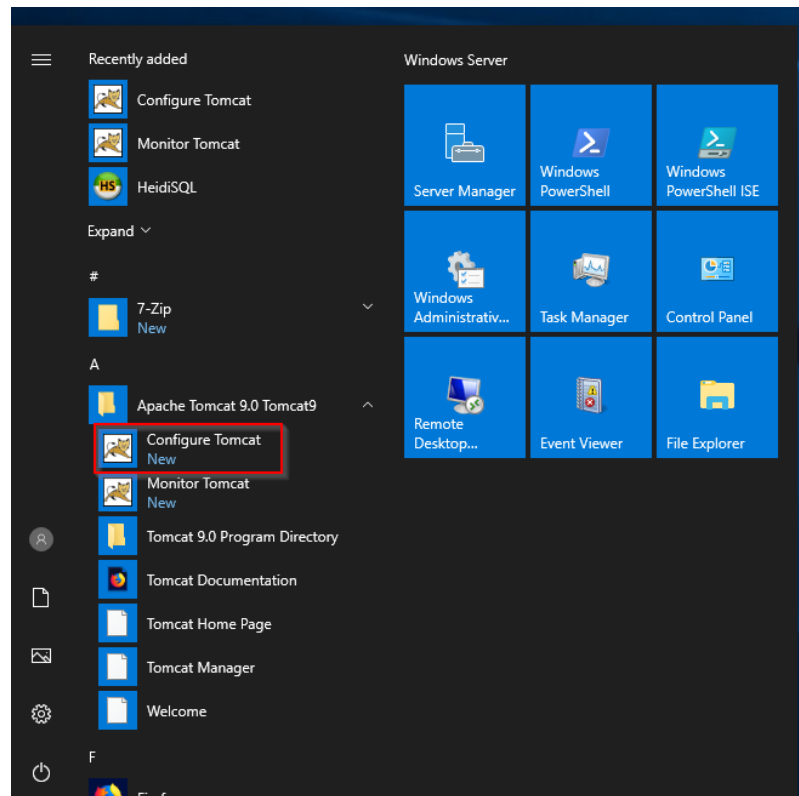
looks like this:

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

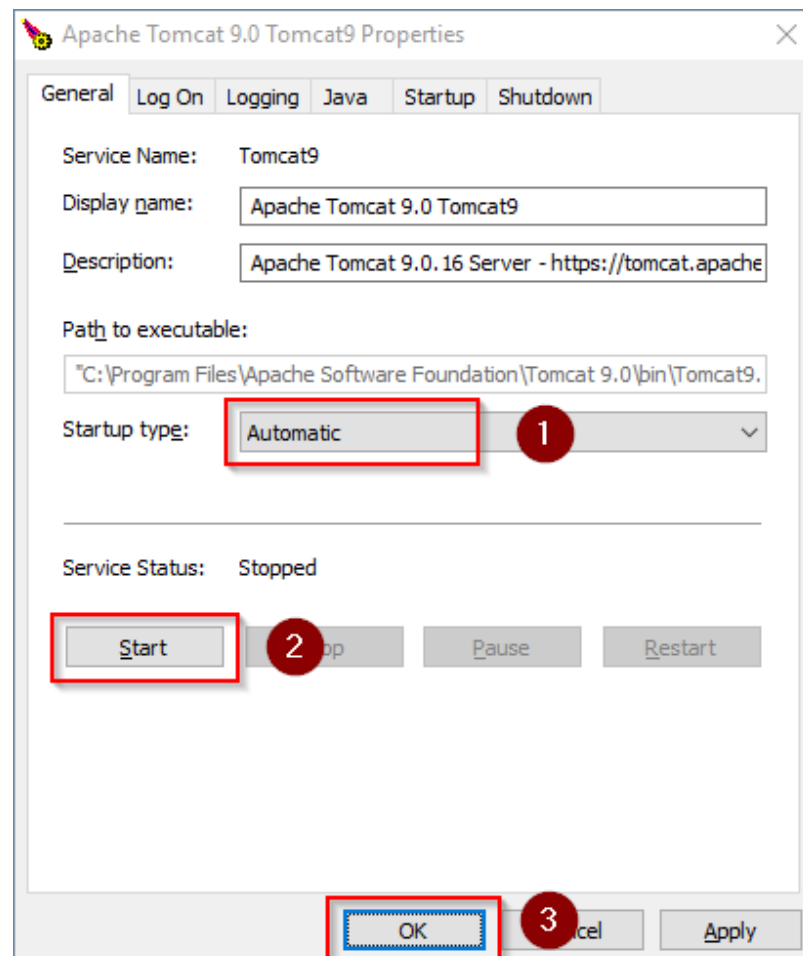


Save and close the file.

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



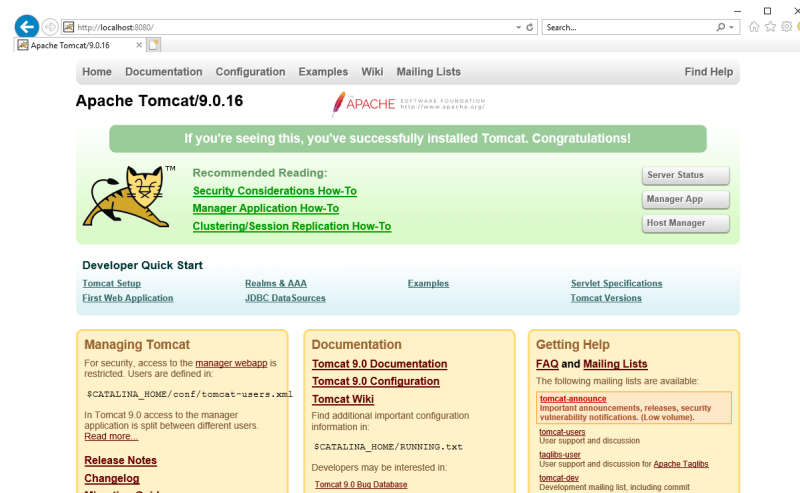
Set "Startup type" to "Automatic" (1) and start Tomcat (2). Then exit the configuration console (3):



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

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](#)".