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Apache Tomcat on Windows

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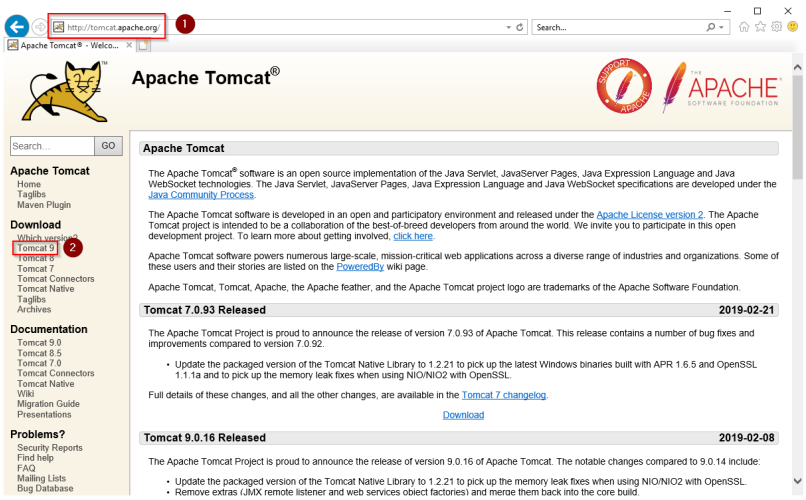
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Apache Tomcat is required for the PDF export. The following steps are optional and only required if you want to use this service in your BlueSpice installation.

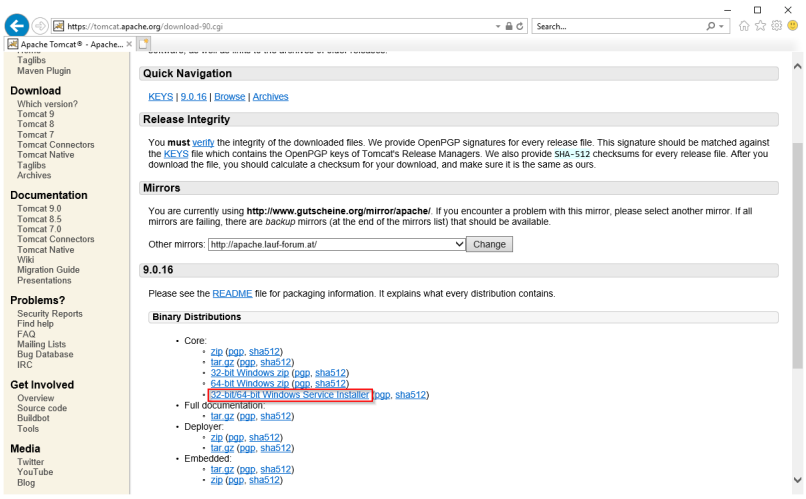
Operation of Apache Tomcat requires OpenJDK. If you have not installed it, follow the link above.

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

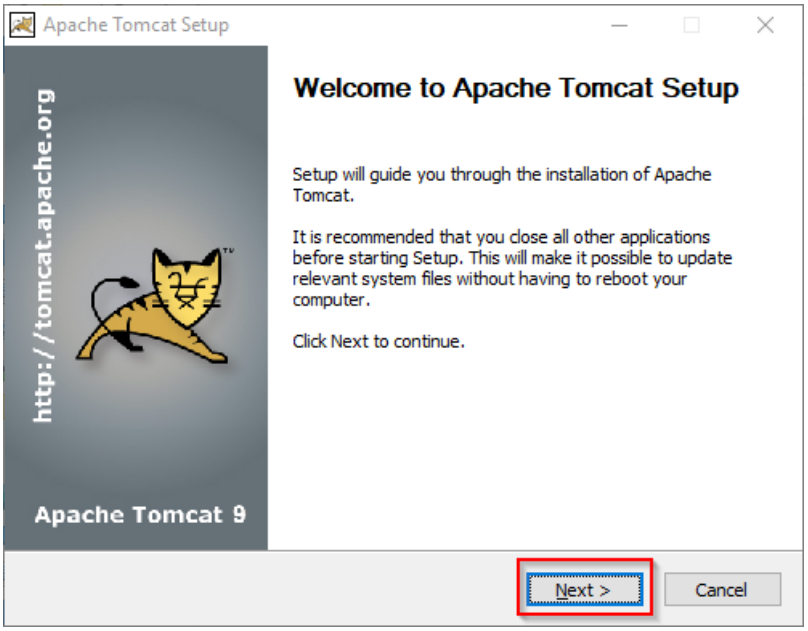
documentation from Microsoft.

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.

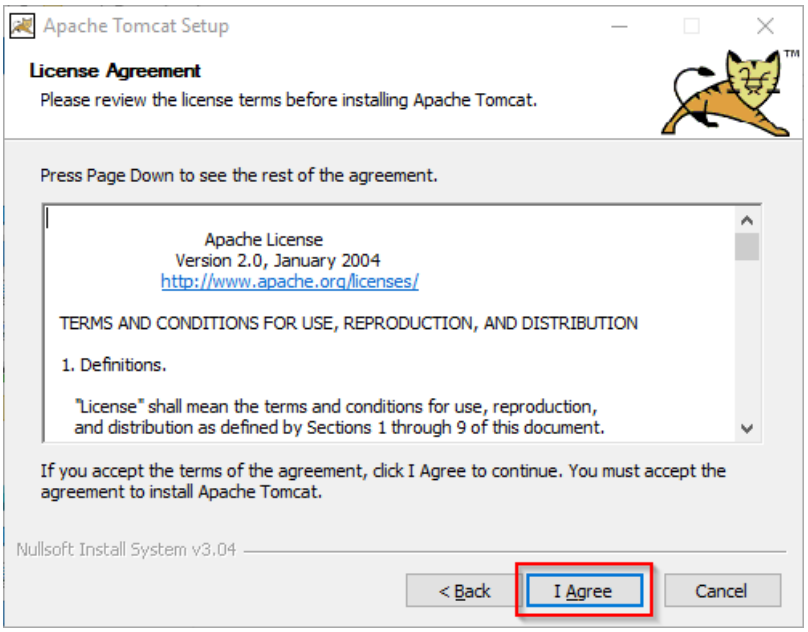
Installing Apache Tomcat

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

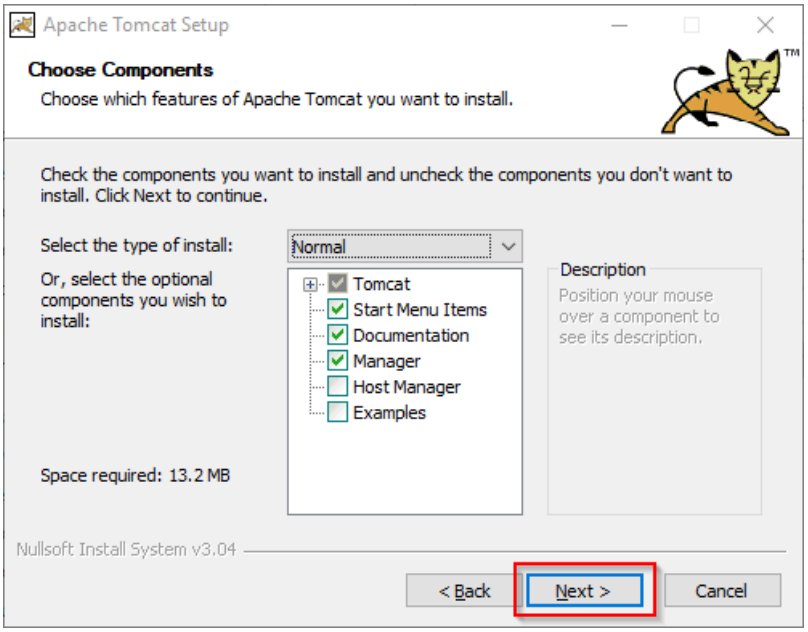
Start the installation by clicking "Next >":



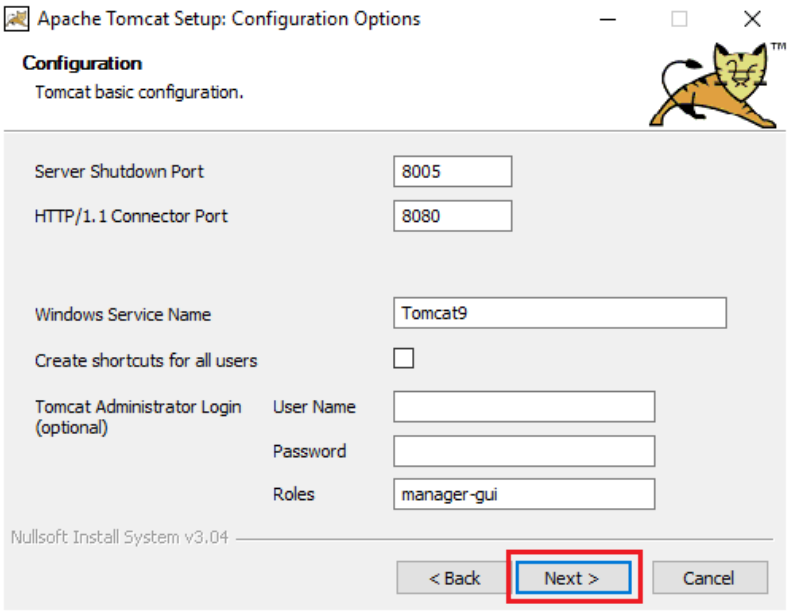
Confirm the license agreement by clicking "I Agree":



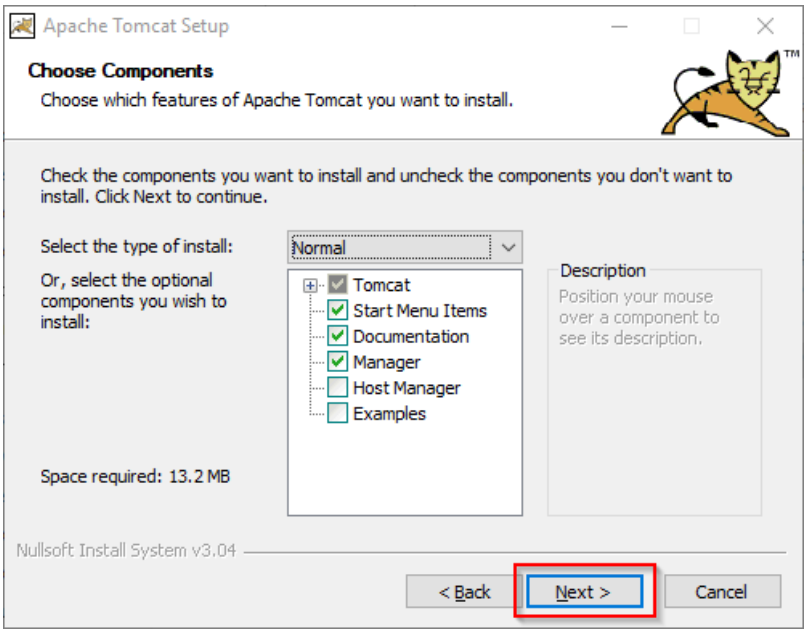
Click "Next >":



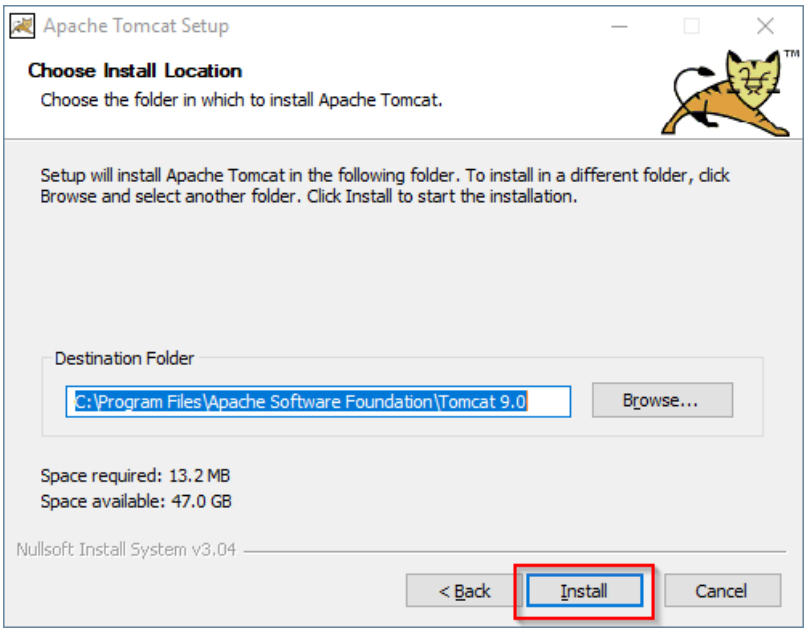
Click "Next >" again:



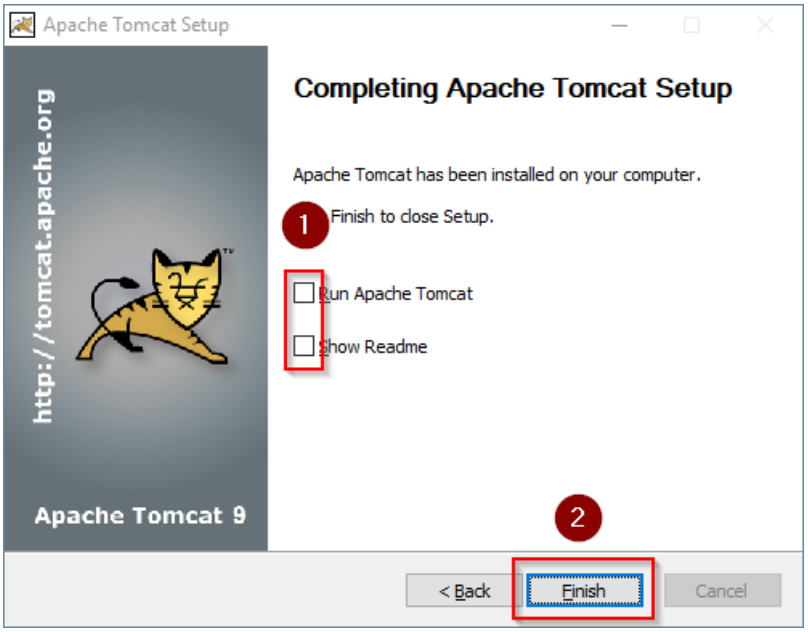
Select (1) the home directory of your OpenJDK Installation (2) and click "Next>" (3):



Start the Tomcat Installation:



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



Configuring Apache Tomcat

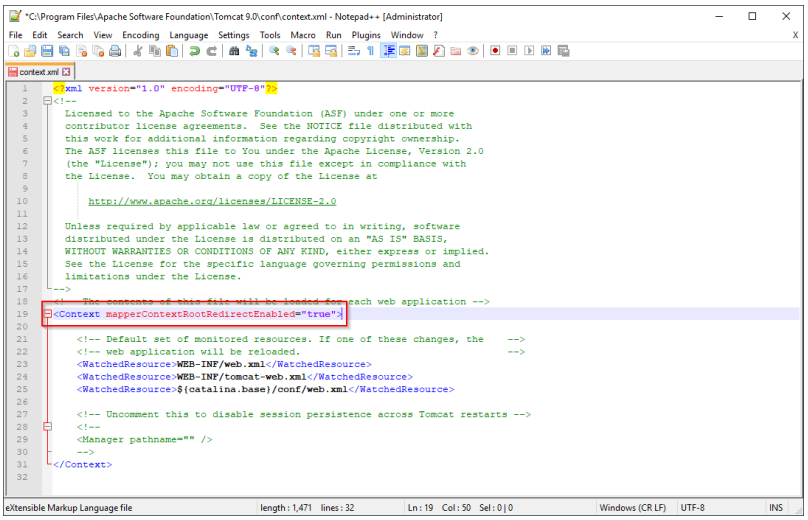
Change to the installation directory of Tomcat. By default, you can find it at `C:\Program Files\Apache Software Foundation\Tomcat 9.0\conf`.

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

```
<Context>
```

with

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



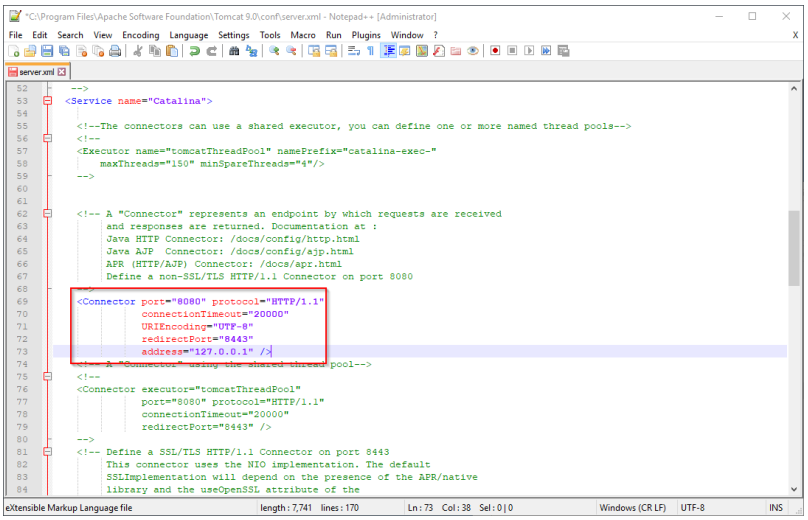
Save and close the file.

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"
        ... />
```

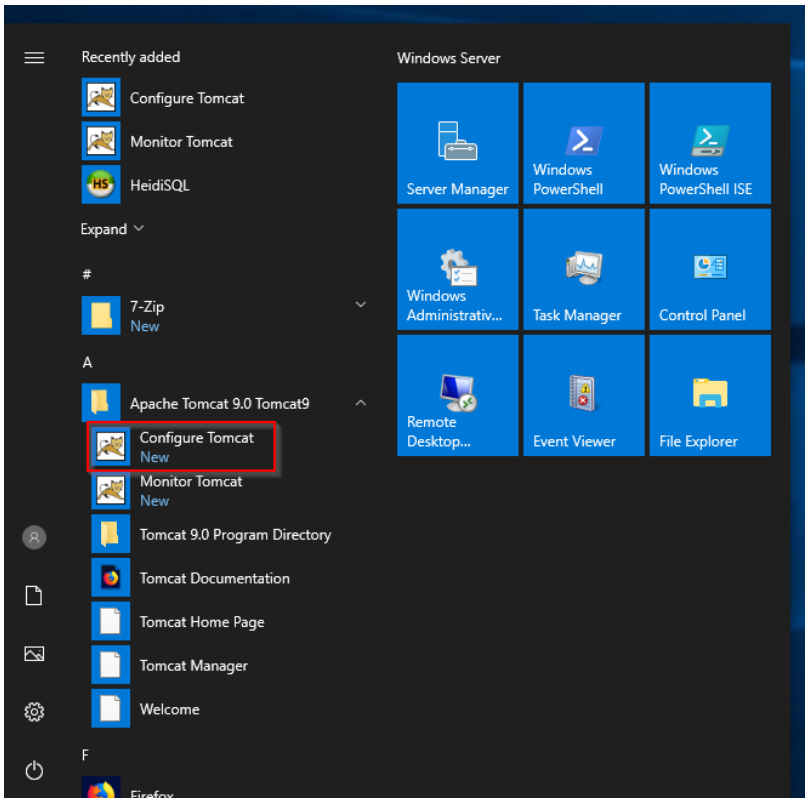
looks like this:

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

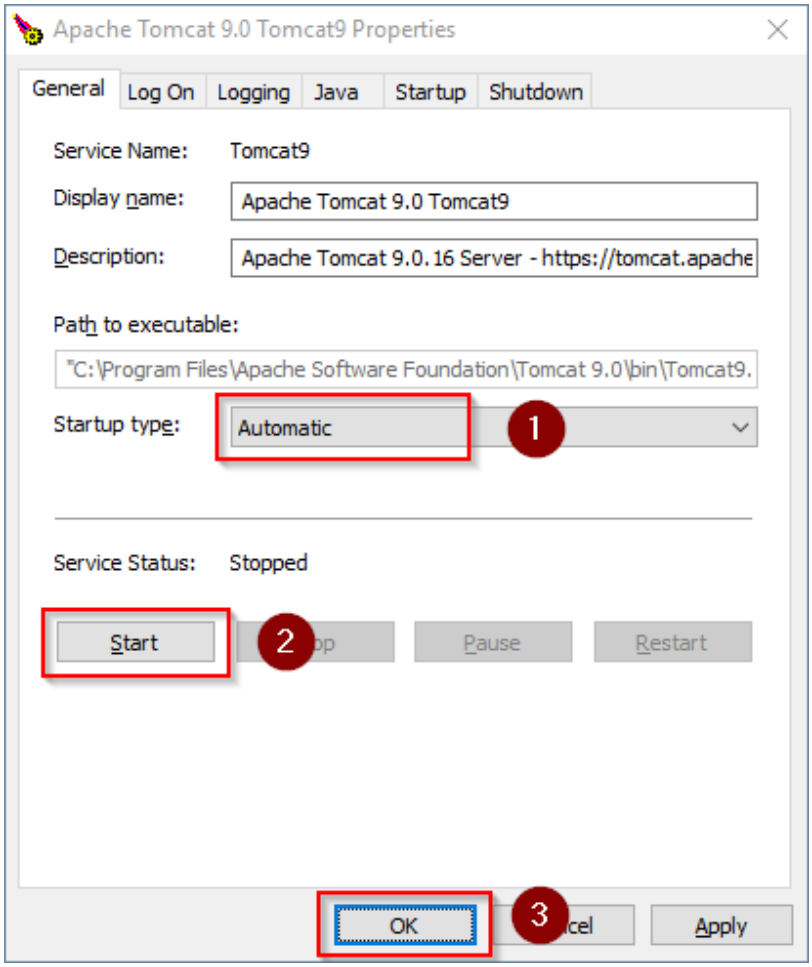


Save and close the file.

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

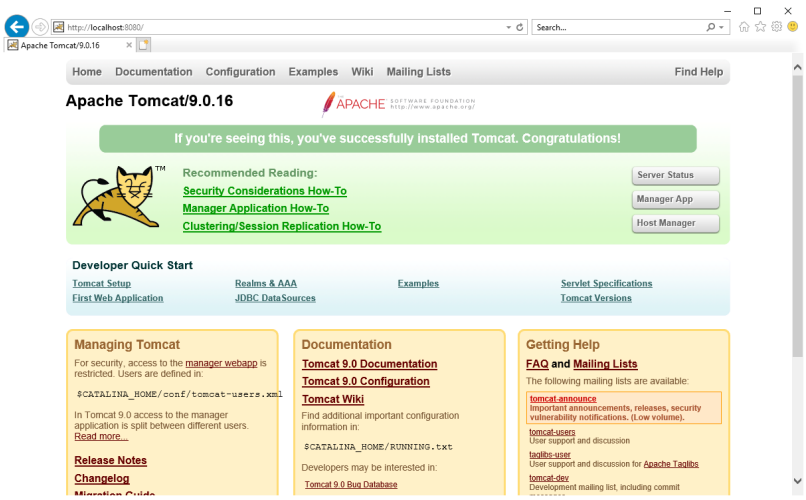


Set "Startup type" to "Automatic" (1) and start Tomcat (2). Then exit the configuration console (3):



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}}}|center]]	**Please unzip the installed BlueSpice folder and move the subfolder to C:\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".

Setup:Installation Guide/System Preparation/Windows/Elasticsearch

Elasticsearch is available up to BlueSpice 4.3. Newer versions of BlueSpice 4 support OpenSearch.

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5 Configuring and starting the Elasticsearch service 14
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Elasticsearch is a prerequisite for running Advanced Search. The steps listed here are optional and only required if you plan to use them in your BlueSpice installation.

To run Elasticsearch, OpenJDK is required. If you have not installed it, install it now.

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.

BlueSpice ist derzeit mit Elasticsearch 6.x ab Version 6.8.21 kompatibel. Elasticsearch > 6.8.x wird derzeit nicht unterstützt.

Die jeweils aktuelle Version können Sie dieser Liste entnehmen. Daraus ergibt sich folgender direkter Download-Link: https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-<Versionsnummer>.zip also bspw. `https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-6.8.23.zip`.

Folgen Sie dabei den Download-Anweisungen Ihres Browsers.

In the following, the Elasticsearch version 6.8.23 is used and only serves as an example for the latest version of the 6.x version series, which you can download at the time of your installation.

Unpacking the ZIP archive

Unpack the ZIP archive that you have just downloaded in a Archiv in a suited system path of your hard drive.

This documentation assumes the folder structure recommended by us. For

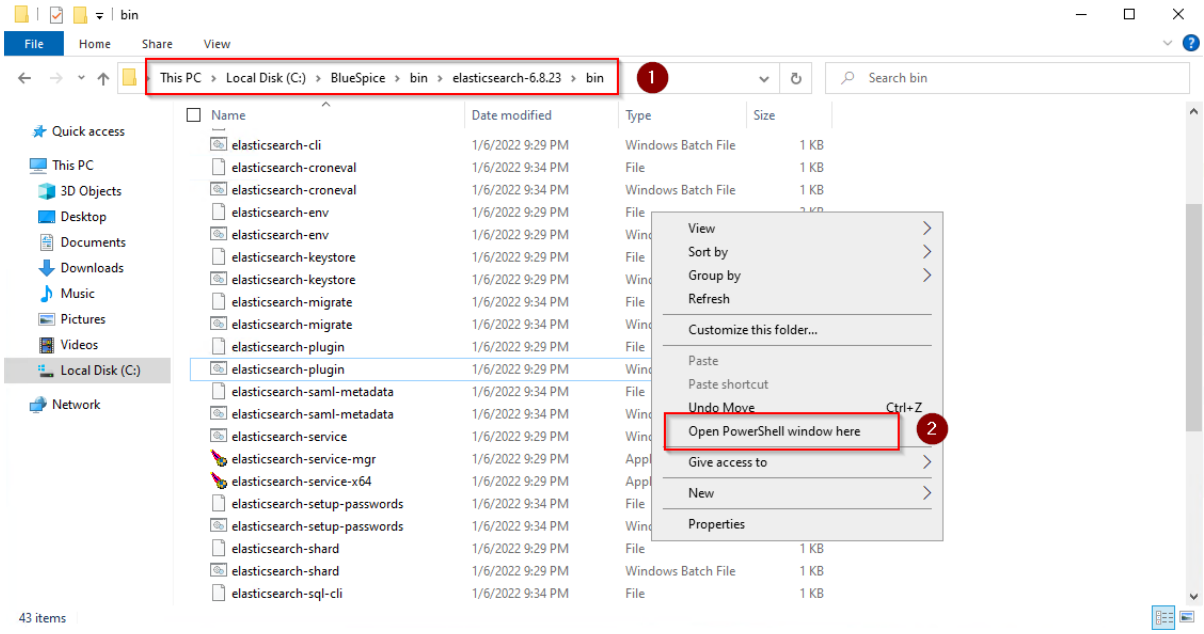
this reason, Elasticsearch is unpacked at this point in the folder C:\bluespice\bin\elasticsearch-6.8.23. If you have individual wishes, adjust these paths according to your own understanding.

Installing the plugin ingest-attachment

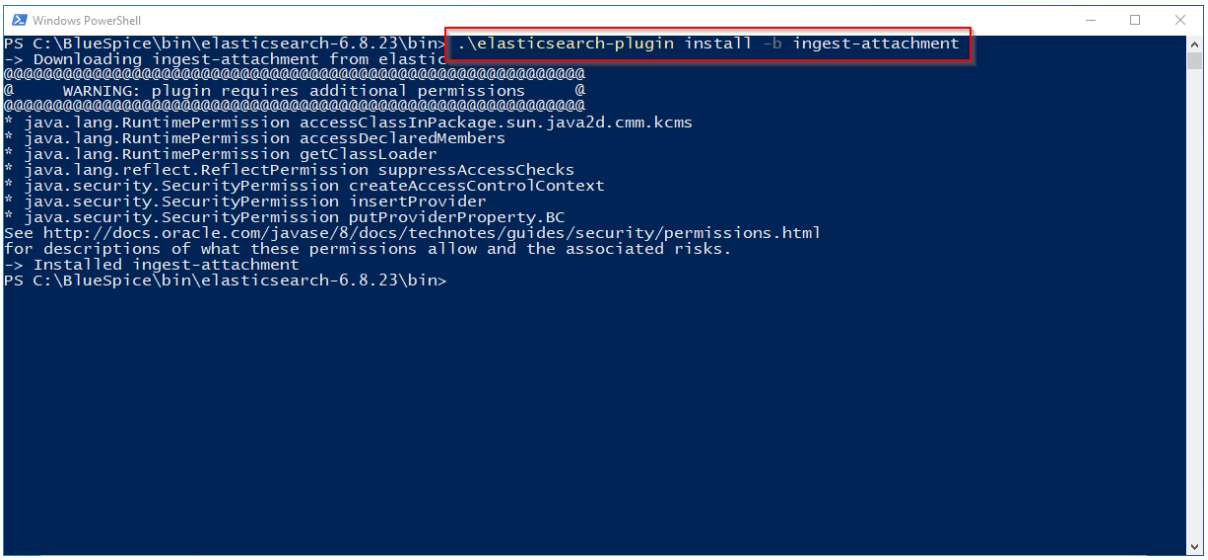
Change to the directory "C:\bluespice\bin\elasticsearch-6.8.23\bin" (1).

Right-click on a free area of the Explorer window with the Shift-key pressed.

Click "Open PowerShell window here" (2):



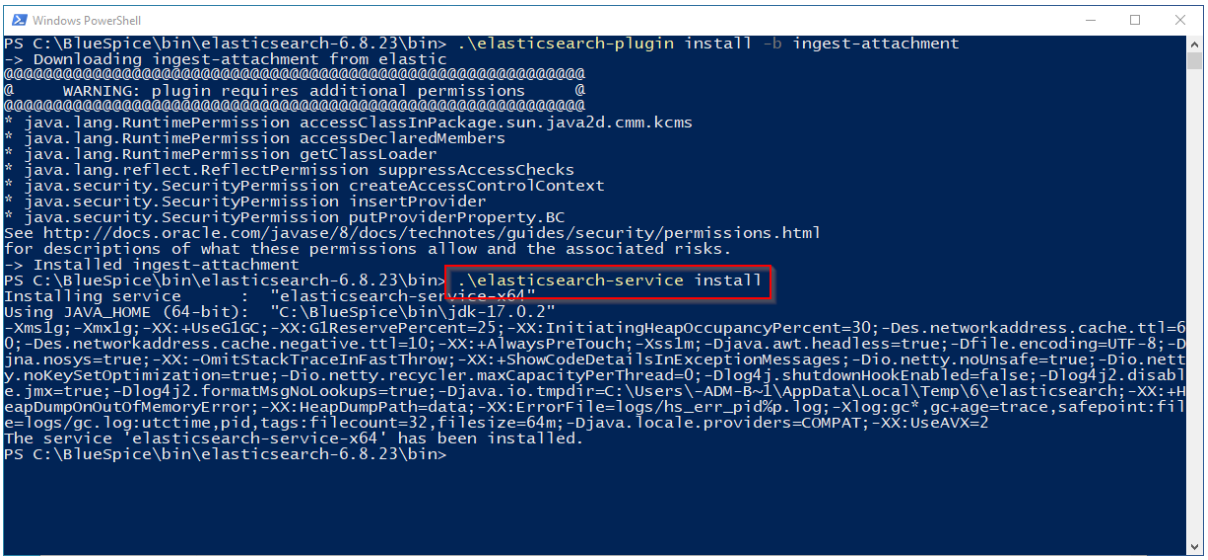
Execute the command ". \elasticsearch-plugin.bat install -b ingest-attachment":


Windows PowerShell
PS C:\BlueSpice\bin\elasticsearch-6.8.23\bin> .\elasticsearch-plugin install -b ingest-attachment
-> Downloading ingest-attachment from elastic
@@@

If your server does not have an active internet connection, then download the plug-in ingest-attachment as zip archive and install it, as documented directly by the manufacturer.

Installing the Elasticsearch service

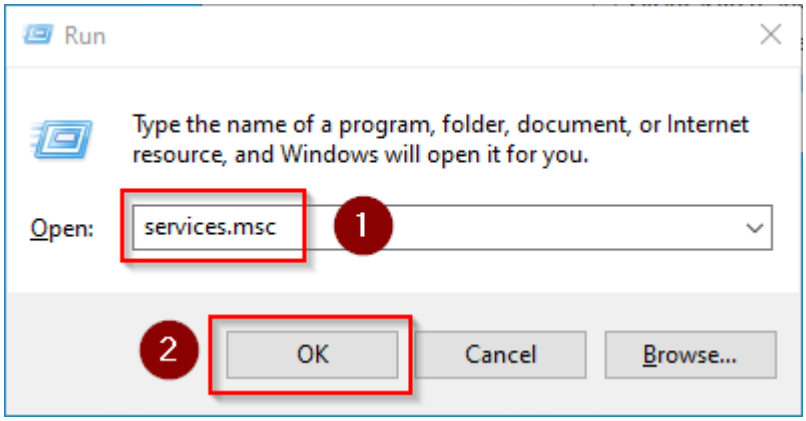
Run the "elasticsearch-service.bat install" command and wait for the process to complete:



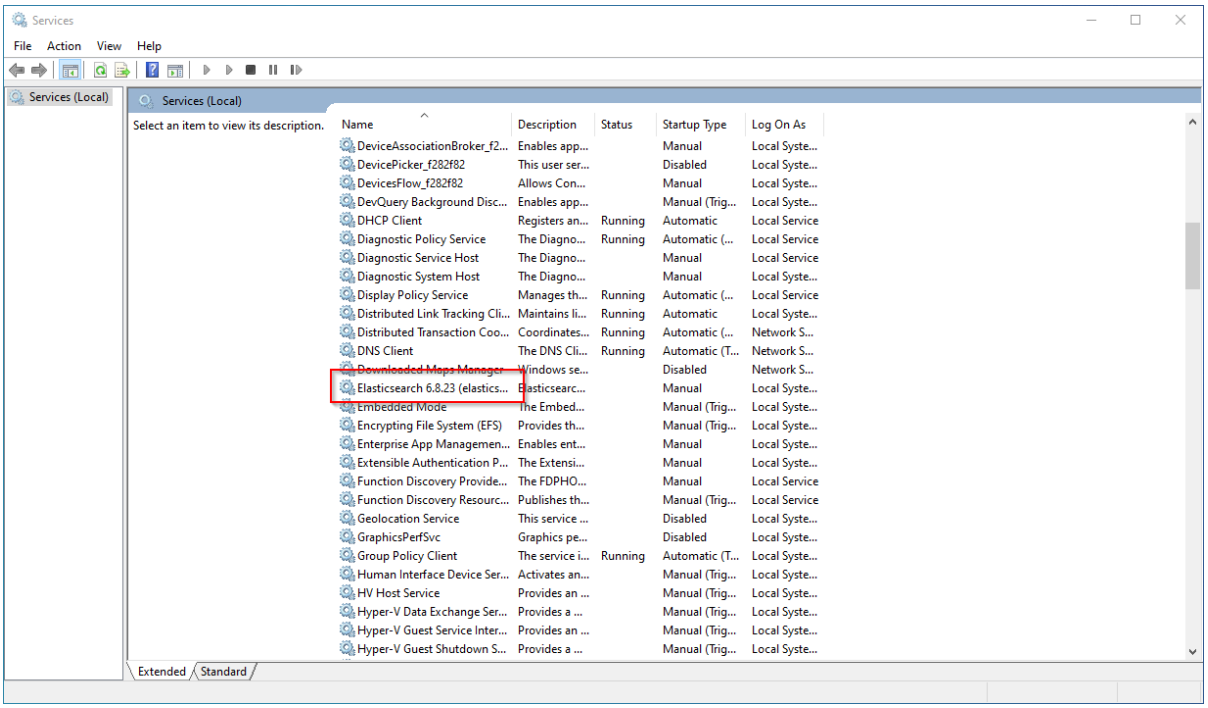
Configuring and starting the Elasticsearch service

Press the key combination Windows+R.

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

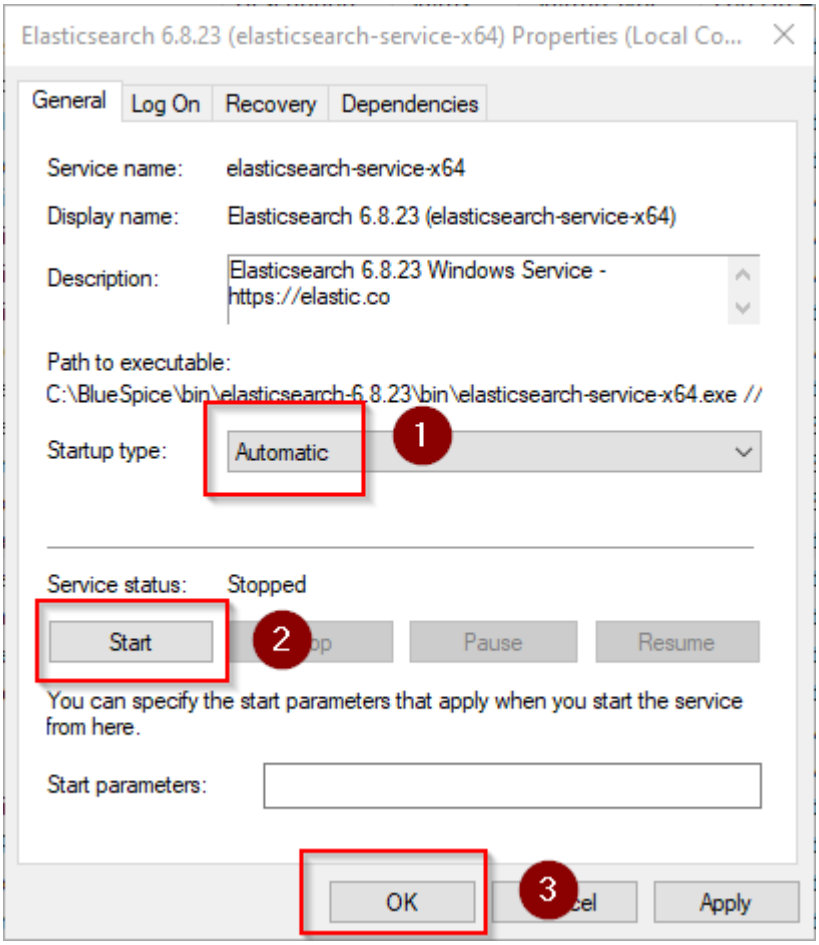


Search for the service "Elasticsearch 6.8.23" and open it with a double-click:



Select the startup type "Automatic" (1) and start the service (2).

Click "OK" (3) to close the window after the service is started:



Next step

If you have successfully completed all of the above steps, proceed to the next step: Python.

OpenJDK on Windows

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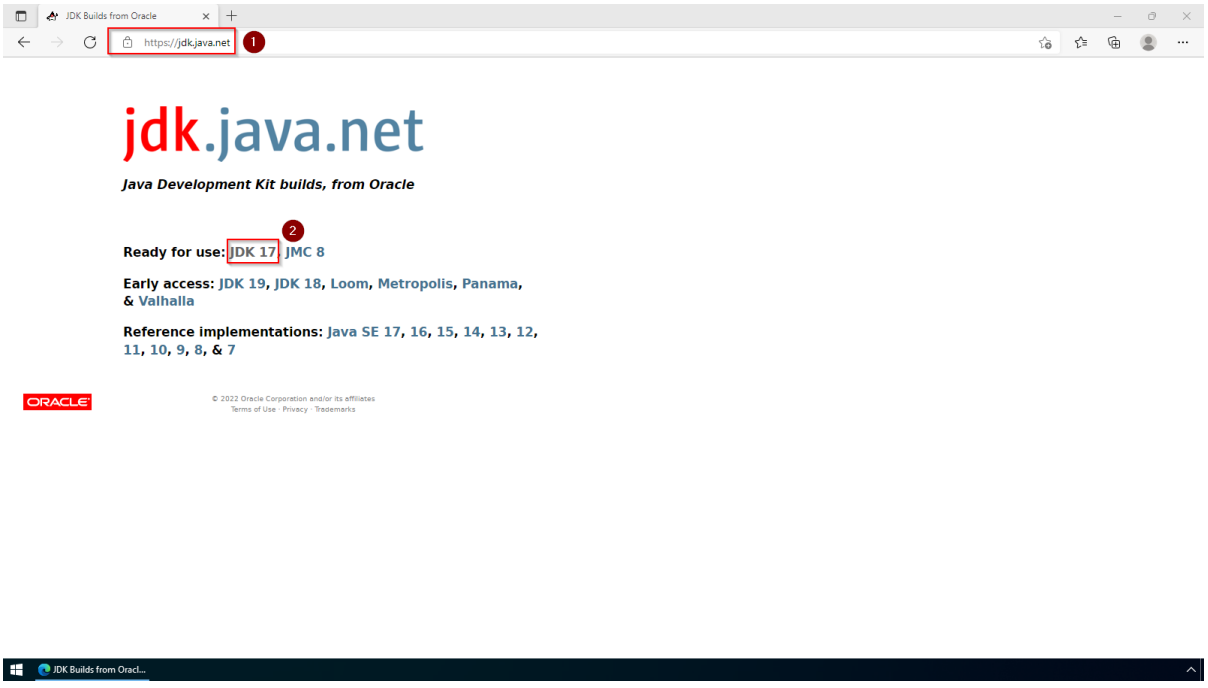
OpenJDK is a prerequisite for operating the Extended Search and the PDF export. The steps listed here are therefore optional and only required if you want to use one or more of these services in your BlueSpice installation.

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.

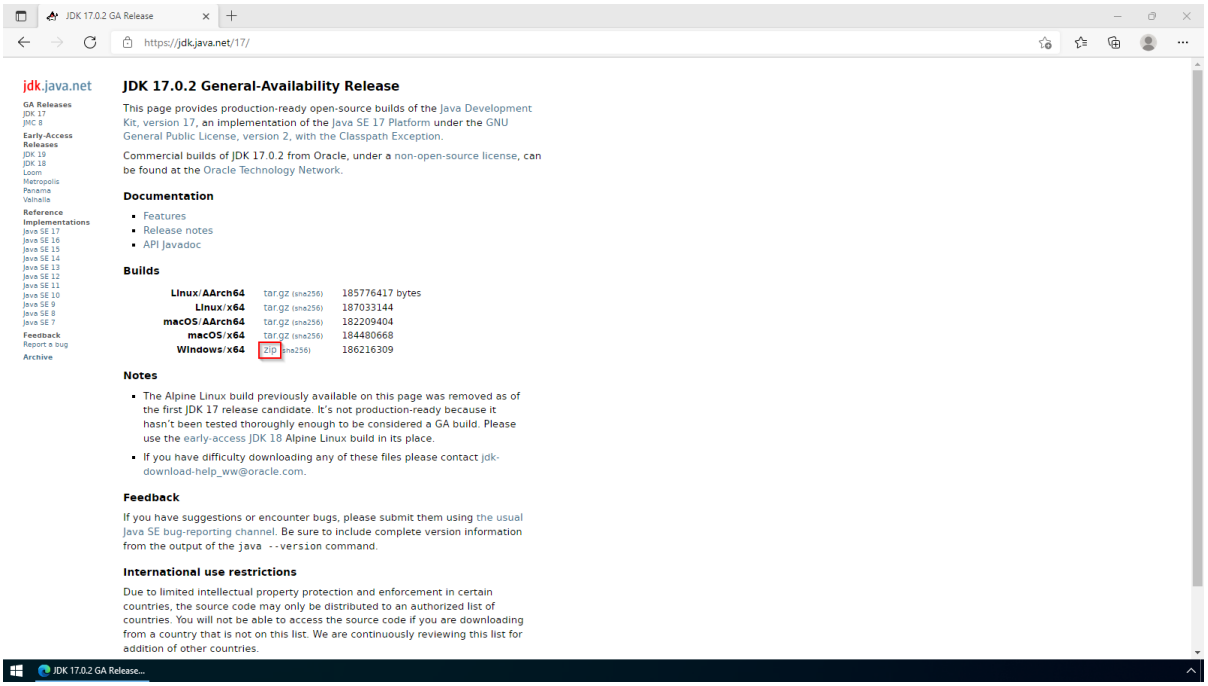
Download

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 (1) and **click** "JDK 17" (2):



Download the ZIP archive for Windows:



Unpacking the ZIP archive



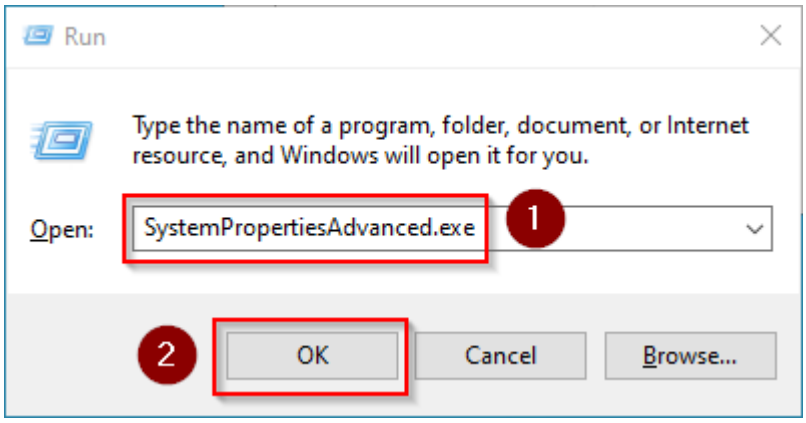
This documentation is based on the folder structure recommended by us. If you want to adjust this individually, you have to adjust the paths yourself according to your own level of knowledge.

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

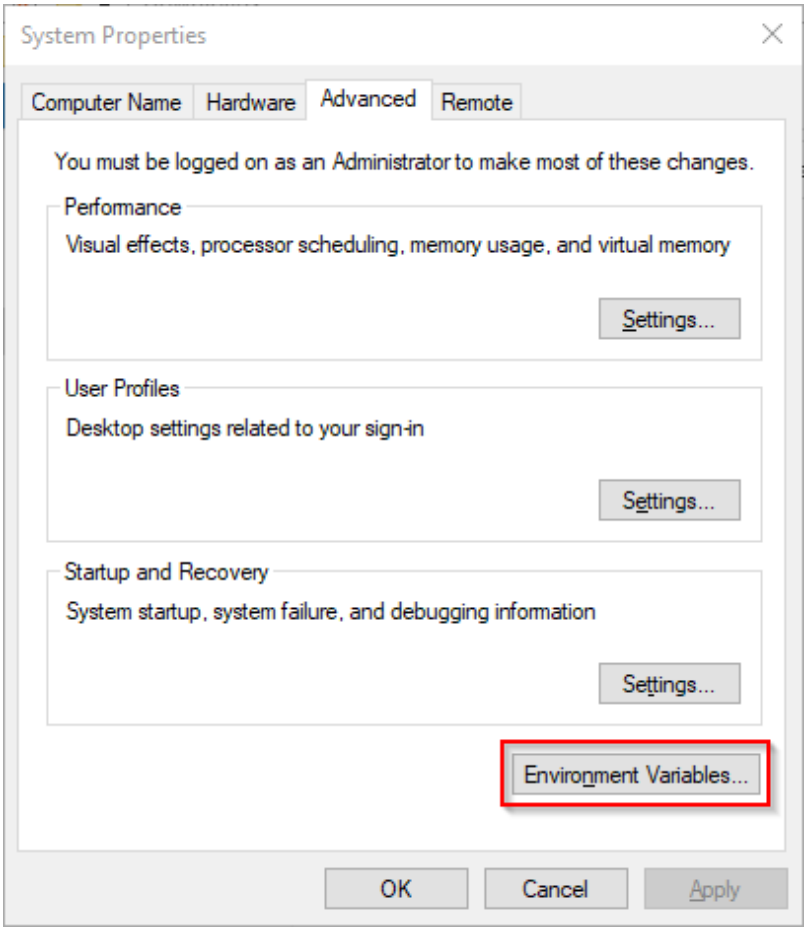
Setting the environment variable

Enter the key combination Windows+R.

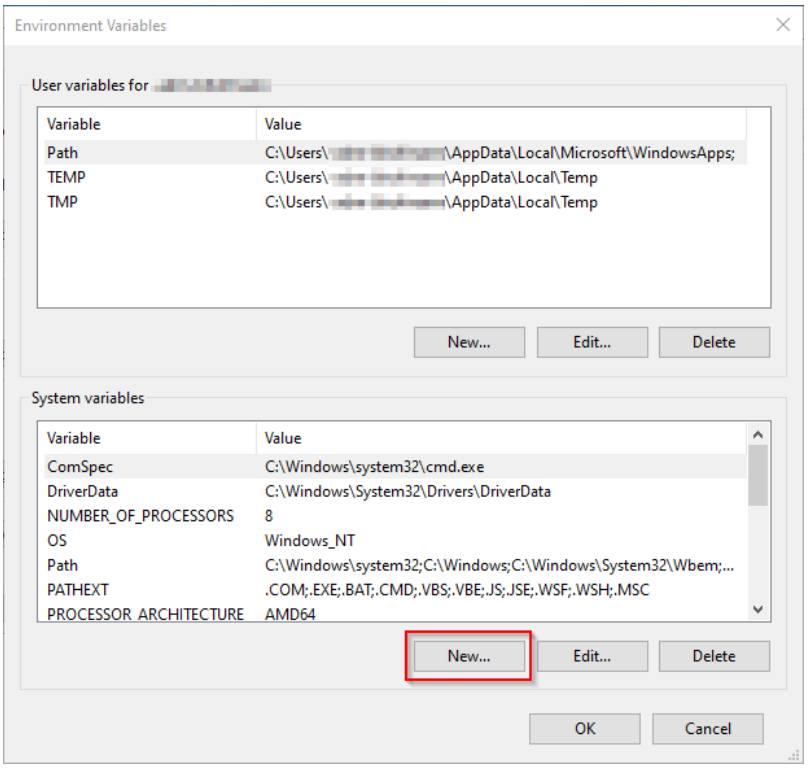
Enter "SystemPropertiesAdvanced.exe" (1) in the dialog window and **click** "OK" (2):



Click "Environment Variables...":



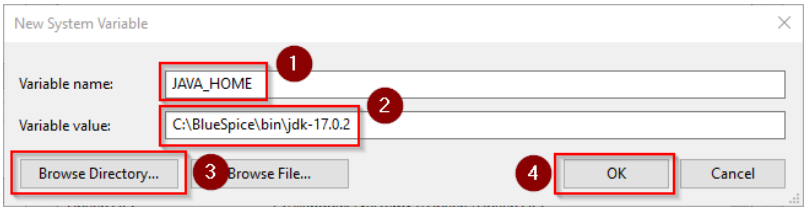
Click "New...":



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.

Webservice: PDF-Export

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2 Checking the functionality 22
3 Enable PDF Export in BlueSpice 22
4 Installing BlueSpice 3 with installer 23
5 Troubleshooting 24
6 Download Web services 24

Make sure that the Apache Tomcat server is completely installed and configured on the BlueSpice server before setting up PDF-Export.

Moving the BShtml2PDF Application

> **Important!** Starting in BlueSpice 4.x, BShtml2 is no longer in the distribution and has to be downloaded and installed separately.
>
> Download: https://bluespice.com/filebase/html2pdf/

Download the file "BShtml2PDF.war" and copy it to `<tomcat-webapps>`

The default paths are as follows:

- C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps **(Apache Tomcat on Windows)**
- /var/lib/jetty9/webapps **(Jetty on Debian)**

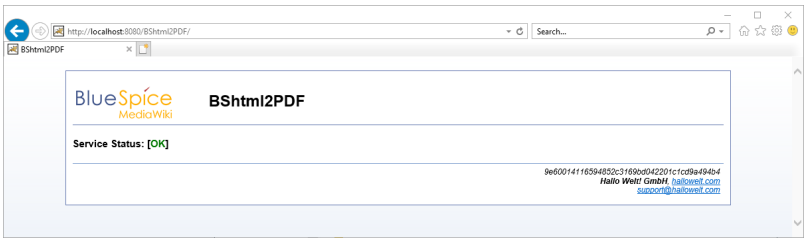
Or run the command `sudo mv /var/www/bluespice/w/extensions/BlueSpiceUEModulePDF/webservices/BShtml2PDF.war /var/lib/jetty9/webapps` in the terminal. **(Linux)**

The application usually starts automatically without the need for rebooting the application server.

Checking the functionality

The correct functionality of the BShtml2PDF service can be checked as follows:

On Windows, open Internet Explorer using the URL http://localhost:8080/BShtml2PDF. With correct functionality, you should see the following website:



Enable PDF Export in BlueSpice

Go to the directory `<installpath-bluespice>/settings.d`. Open the file **020-BlueSpiceUEModulePDF.php** in a text editor.

Or open the 020-BlueSpiceUEModulePDF.php in the terminal using the command `sudo nano /var/www/bluespice/w/settings.d/020-BlueSpiceUEModulePDF.php`. **(Linux)**

In the second line is the code to activate the extension:

```
return; // Disabled. Needs Tomcat
```

You can either add a comment character (#) to the beginning of this line or delete the line completely, save the file and exit it.

> **Note:** Give the user "Everyone" full access to the Temp folder under C:\Widows.

Installing BlueSpice 3 with installer

1. Open `localhost/w` in your Browser and follow the instructions.
2. For BlueSpice WikiFarm, move the .htaccess and web.config files to C:\bluespice\var

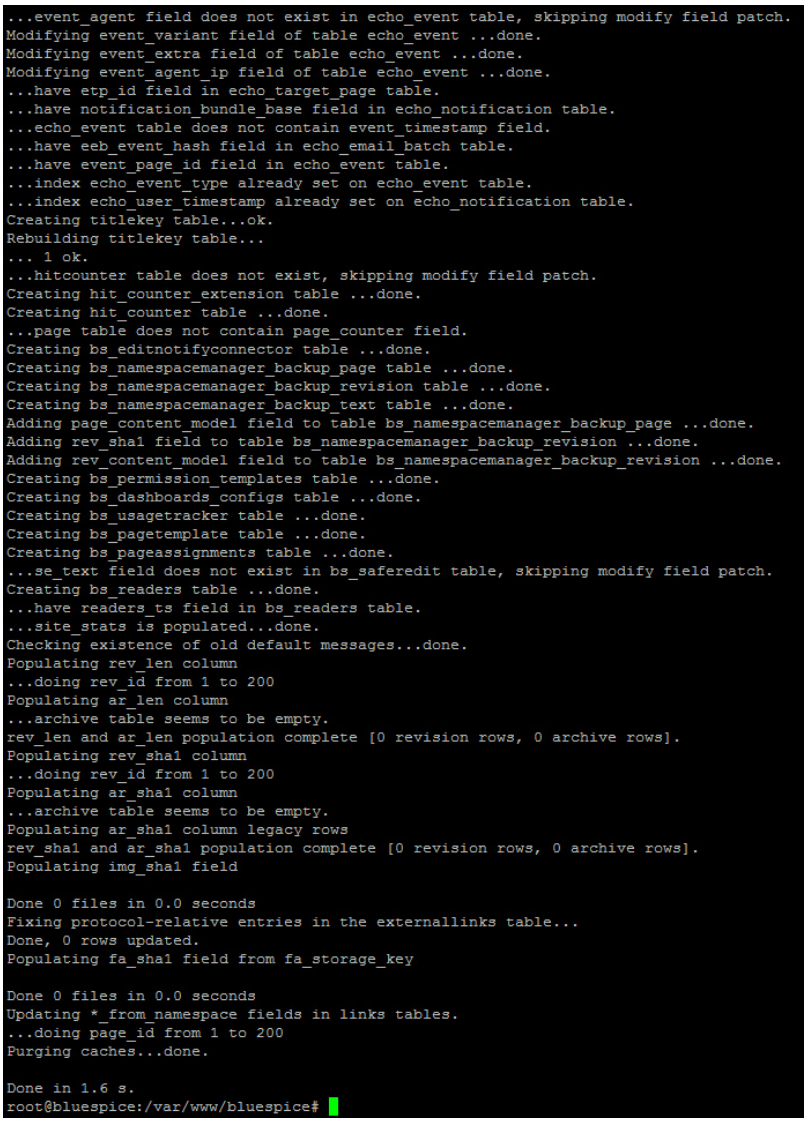
Open a command line and change into the folder `<installpath-bluespice>`. Execute the following command:

```
php maintenance/update.php (Linux)
php maintenance\update.php (Windows))
```

> **Note:** In Windows, make sure that the environment variables are set correctly to access the "php" command.

> **Note:** Note that you must update the file system permissions after running update.php.

When the script is finished with the "Done" message, you have successfully isntalled the web service .



Troubleshooting

If there is a problem with the PDF export in BlueSpice, first check the file system permissions.

Download Web services

If the required war-file is missing in your installation package, you can download it here: Webservices.