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Setup:Installation Guide/System Preparation/Windows /Elasticsearch

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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 Elasticsearch

BlueSpice is currently compatible with Elasticsearch 6.8.x as of version 6.8.21. Elasticsearch > 6.8.x is currently **NOT supported!**

The latest version can be found at [this list](#). This results in the following direct download link: <https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-<version number>.zip>. For example, <https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-6.8.21.zip>.

Follow the download instructions of your browser.



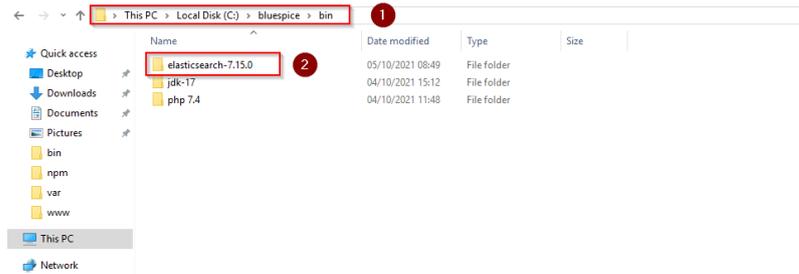
Please note that the download on your Windows Server with Internet Explorer will only work if you have configured the Internet Explorer Advanced Security Settings in the Server Manager. Please refer to the technical documentation from Microsoft.



In the following, Elasticsearch version 6.8.21 is used and is only an example of the latest version of the 6.8.x version, which you can download at the time of your installation.

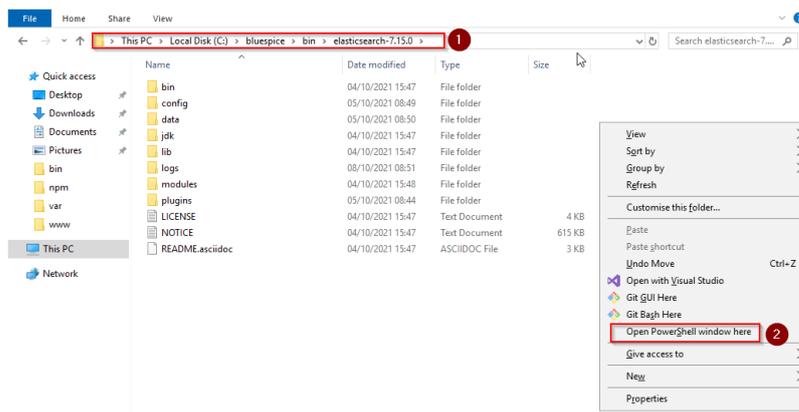
Unpacking Elasticsearch

Unpack the contents of the ZIP archive (2) just downloaded into the folder "C:\bluespice\bin\elasticsearch-6.8.21" (1):

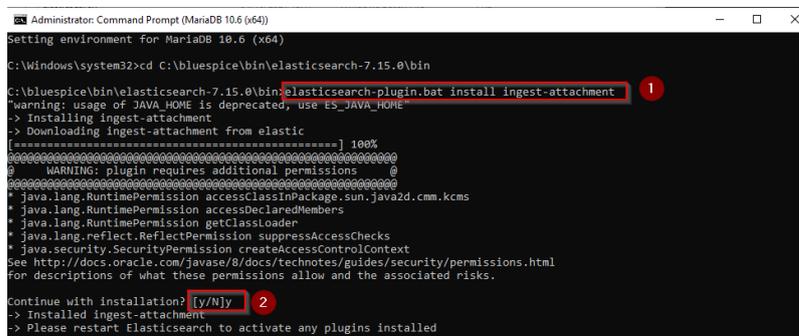


Installing the plugin ingest-attachment

Change to the directory "C:\bluespice\bin\elasticsearch-6.8.21\bin" (1) and right-click on a free area of the Explorer window with the Shift key pressed. Then click "Open Windows Powershell Here" (2):



Execute the command "elasticsearch-plugin.bat install ingest-attachment" (1) and after downloading the plugin, confirm the installation request with "y" (2):





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

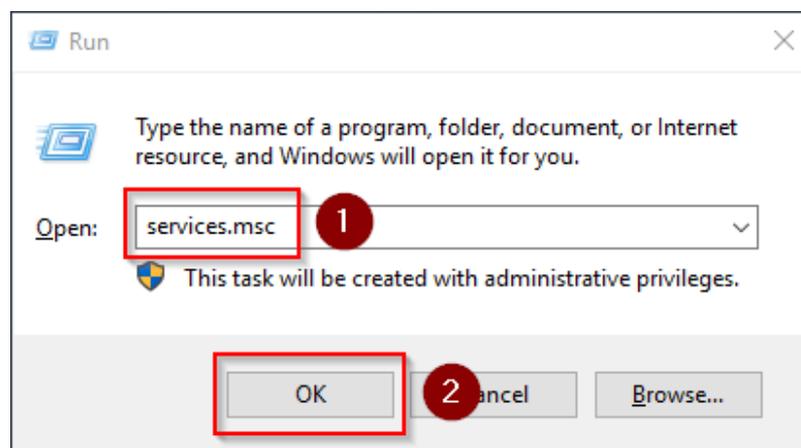
Next, run the `elasticsearch-service.bat` install command and wait for the process to complete:

```
C:\bluespice\bin\elasticsearch-7.15.0\bin>elasticsearch-service.bat install
Warning: usage of JAVA_HOME is deprecated, use ES_JAVA_HOME
Installing service : "elasticsearch-service-x64"
Using ES_JAVA_HOME (64-bit): "C:\bluespice\bin\jdk-17"
-Des.networkaddress.cache.ttl=60;-Des.networkaddress.cache.negative.ttl=10;-XX:+AlwaysPreTouch;-Xssim;-Djava.awt.headless=true;-Dfile.encoding=UTF-8;-Djna.nosys=true;-XX:-OmitStackTraceInFastThrow;-XX:+ShowCodeDetailsInExceptionMessages;-Dio.netty.noUnsafe=true;-Dio.netty.noKeySetOptimization=true;-Dio.netty.recycler.maxCapacityPerThread=0;-Dio.netty.allocator.numDirectArenas=0;-Dlog4j.shutdownhookEnabled=false;-Dlog4j2.disable.jmx=true;-Djava.locale.providers=SPI,COMPAT;--add-opens=java.base/java.io=ALL-UNNAMED;-XX:+UseG1GC;-Djava.io.tmpdir=C:\Users\ADMINI~1\AppData\Local\Temp\elasticsearch;-XX:+HeapDumpOnOutOfMemoryError;-XX:HeapDumpPath=data;-XX:ErrorFile=logs/hs_err_pid%p.log;-Xlog:gc*,gc+age=trace,safepoint:file=logs/gc.log:utctime,pid,tags:filecount=32,filesize=64m;-Xms1023m;-Xmx1023m;-XX:MaxDirectMemorySize=536870912;-XX:G1HeapRegionSize=4m;-XX:InitiatingHeapOccupancyPercent=30;-XX:G1ReservePercent=15
The service "elasticsearch-service-x64" has been installed.
C:\bluespice\bin\elasticsearch-7.15.0\bin>
```

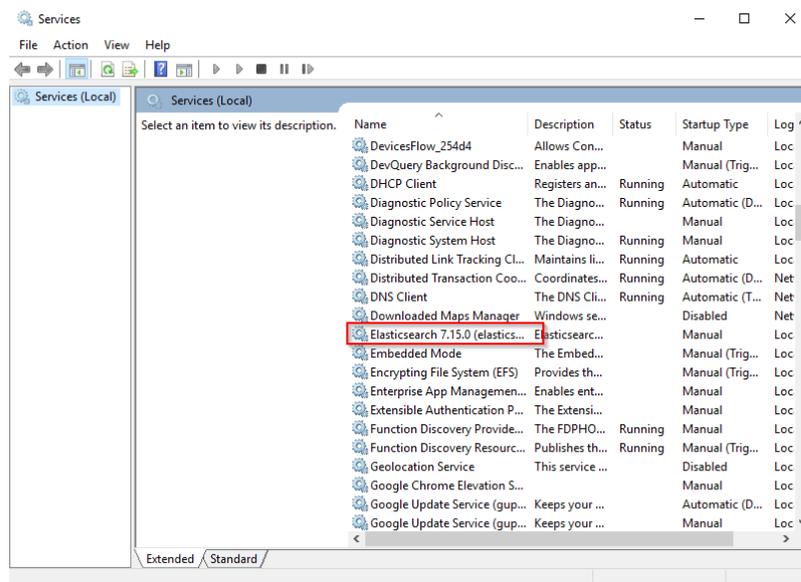
Configuring and starting the Elasticsearch service

Press the key combination Windows+R.

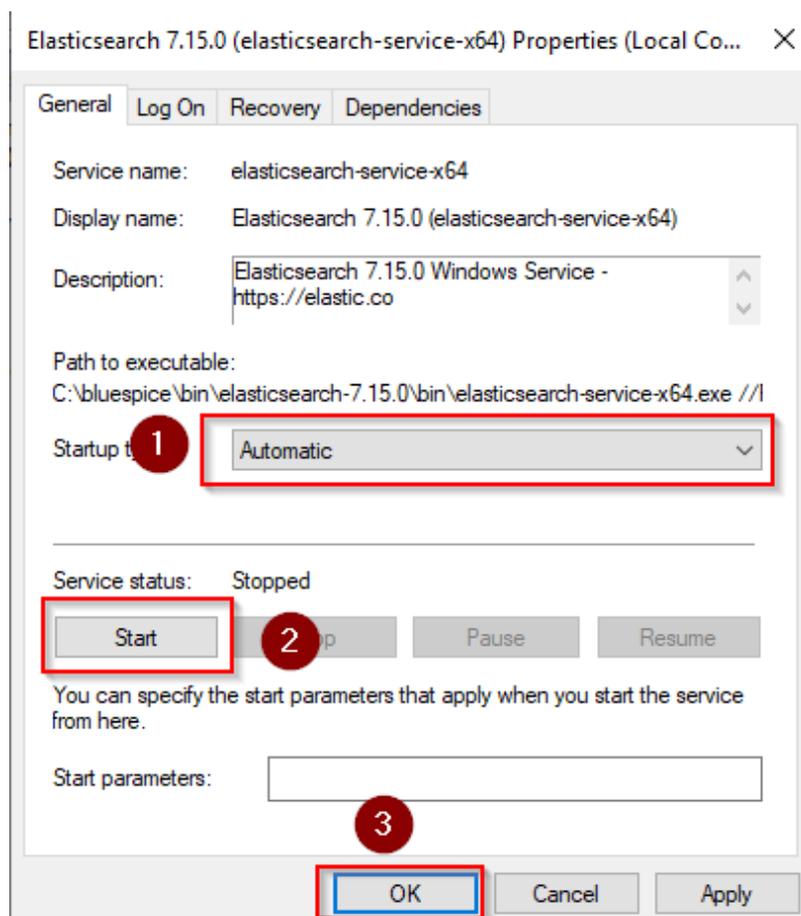
In the following dialog box, enter "services.msc" (1) und confirm with "OK" (2):



Search for the service "Elasticsearch 6.8.21" and open it with a double-click:



Select the startup type "Automatic" (1) and start the service (2). After the service is started, close the window with "OK" (3):



Next step

If you have completed all steps successfully, you can delete the previously downloaded file "elasticsearch-6.8.21.zip" from your hard disk and continue to the next step "[Git](#)".

Git on Windows

A [quality version](#) of this page, [approved](#) on *2 August 2021*, was based off this revision.

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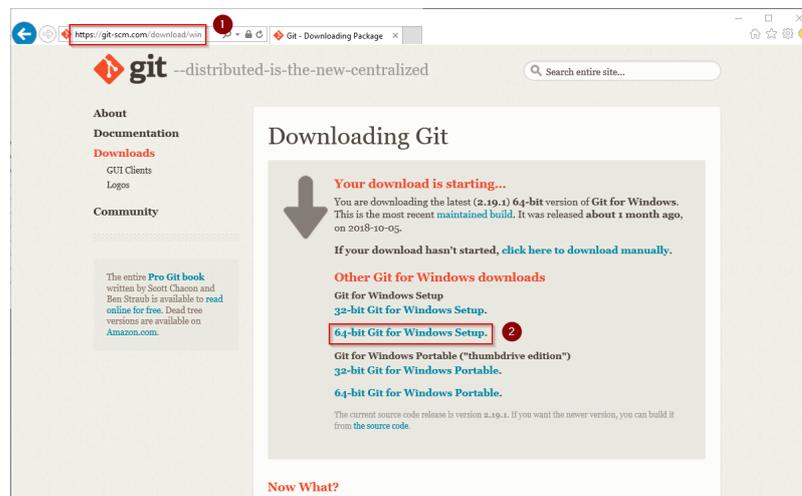
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Git is an application for software version management. It is required for the installation of Node.js, which in turn is required for the operation of the rendering service "Parsoid" for the Visual Editor. The steps listed here are optional and only required if you want to use them in your BlueSpice installation.

Download

In the Internet Explorer, open the [official download page on git-scm.com](https://git-scm.com/download/win) (1). If the optimal download for your operating system does not start automatically, click on "64-bit Git for Windows Setup" (2):



Follow the further download instructions and download the installation package to your hard disk.



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.



Git version 2.19.1 will be used below as an example. You can download the latest version of Git at the time of installation.

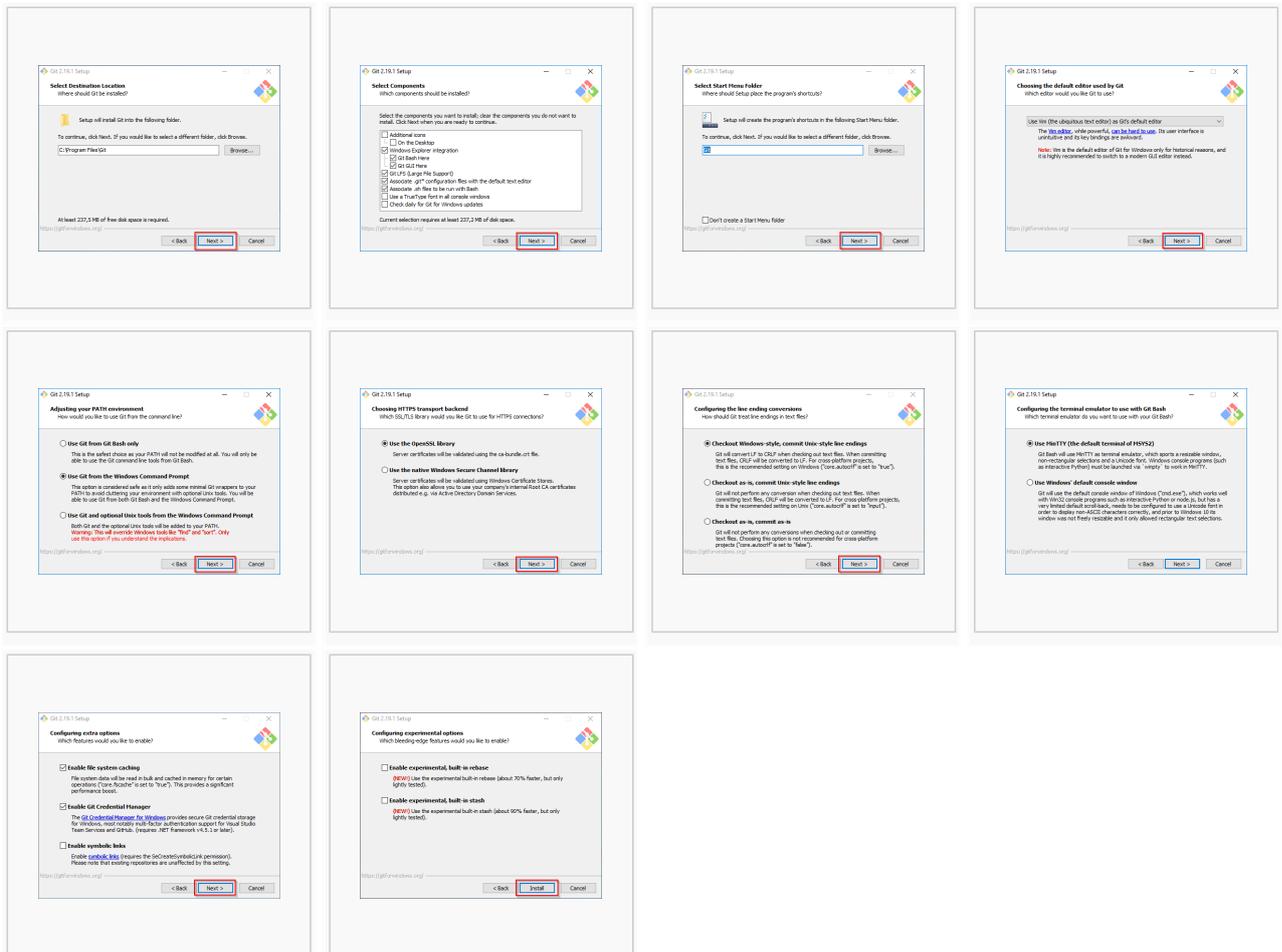
Installing Git

Open the downloaded Git-2.19.1-64-bit.exe file.

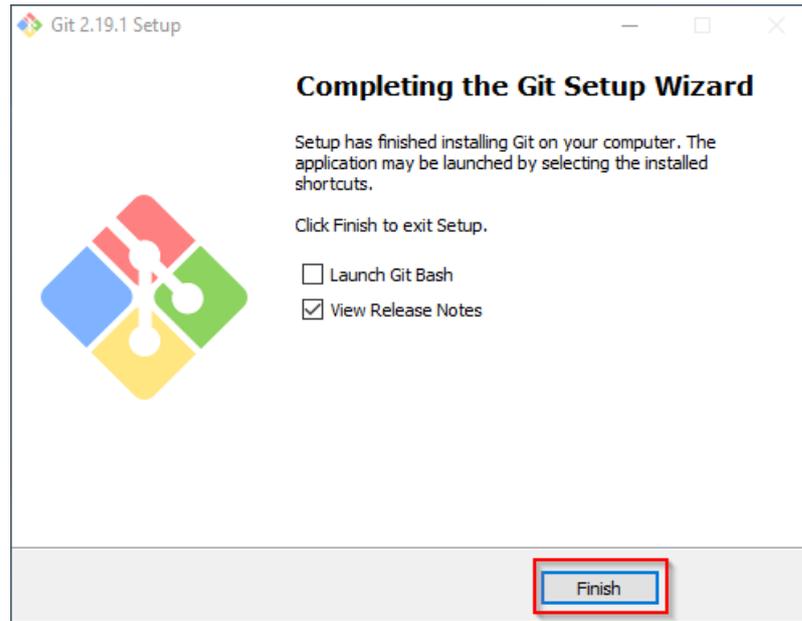
Start the installation by clicking "Next >":



Click, as pictured here, through the further installation steps:



You can close the setup program now:



Next step

If you have completed all steps successfully, you can delete the previously downloaded file "Git-2.19.1-64-bit.exe" from your hard disk and go to the next step" [Node.js](#)".

OpenJDK on Windows

A [quality version](#) of this page, [approved](#) on *25 June 2020*, was based off this revision.

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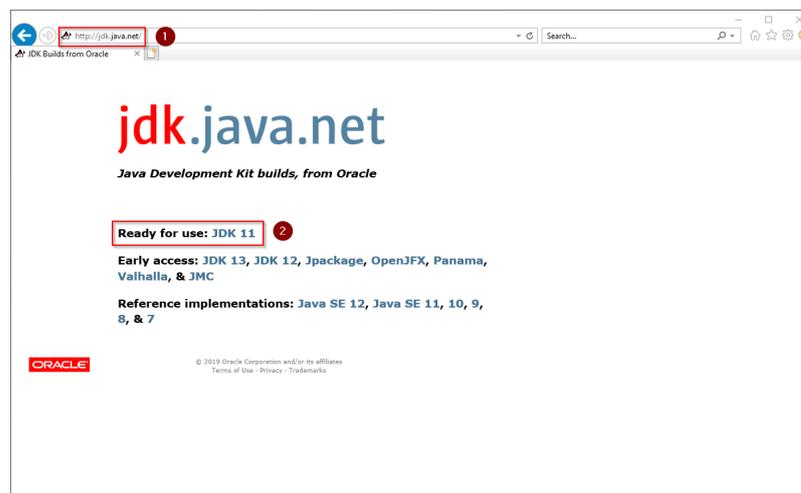
Java is a prerequisite for the operation of Advanced Search, PDF export, VisualDiff (BlueSpice pro only) and the LaTeX renderer (BlueSpice pro only). The steps listed here are optional and only required if you plan to use one or more of these services in your BlueSpice installation.

Introduction

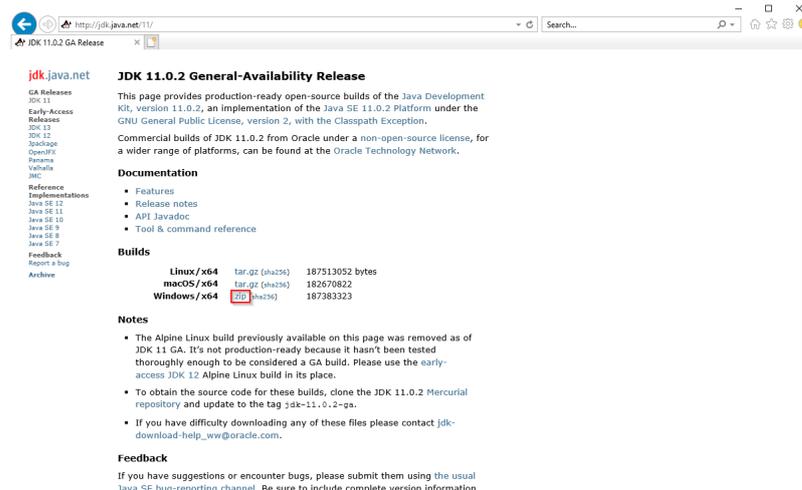
For licensing reasons, we decided to use the alternative OpenJDK published under the [GPL](#) instead of the Java Runtime Environment. Of course, you are free to use the JRE of <https://java.com/>, but here we only document OpenJDK.

Download

Open the [official download page](#) (1) in your browser and select the version marked "Ready for use" (2).



Select the ZIP archive in the 64bit version for Microsoft Windows



Follow the further download instructions and download the ZIP archive to your hard disk.



Please note that the download on your Windows Server with Internet Explorer will only work if you have configured the Internet Explorer Advanced Security Settings in the Server Manager. Please refer to the technical documentation from Microsoft.



In this guide, version 11.0.2 of OpenJDK is used and serves only as an example for the latest version, which you can download at the time of your installation.

Unpacking the ZIP archive

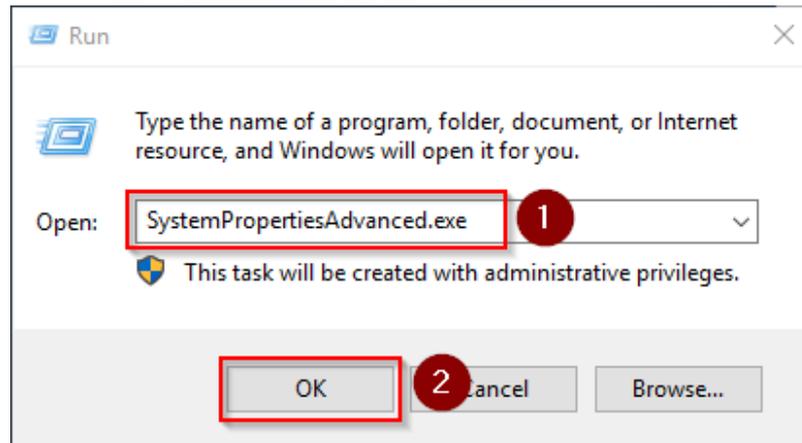
Unzip the ZIP archive that you just downloaded into a suitable system path on your hard drive.

{{Template:Hint|text=This documentation is based on the [[Setup: Installation Guide/Advanced /Windows_Folder_Sructure | folder structure recommended by us]]. For this reason, OpenJDK is unpacked into the folder C:\bluespice\bin\jdk-11.0.2. If you have different folder requirements, you must adapt these paths accordingly.}}

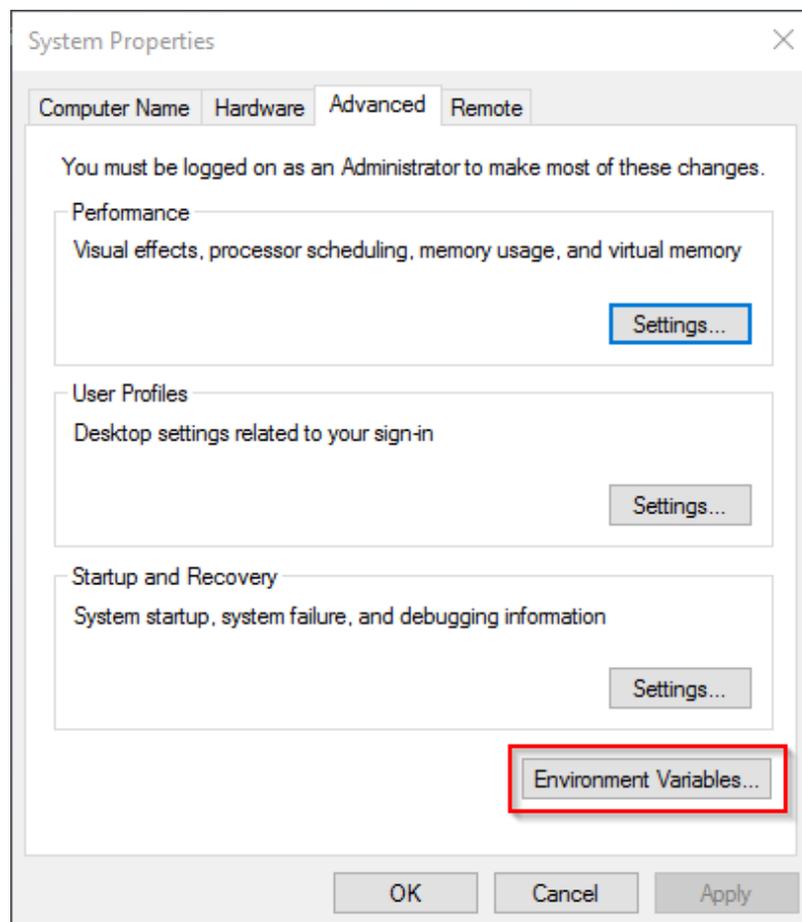
Setting the environment variable

Press the key combination Windows+R.

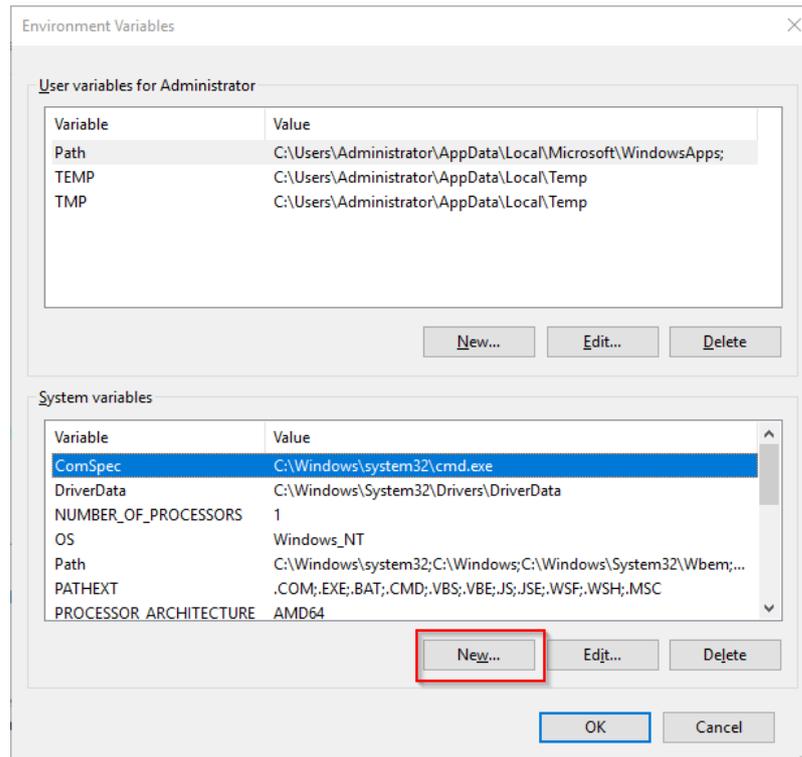
In the following dialog, enter "SystemPropertiesAdvanced.exe" (1) and confirm with OK (2):



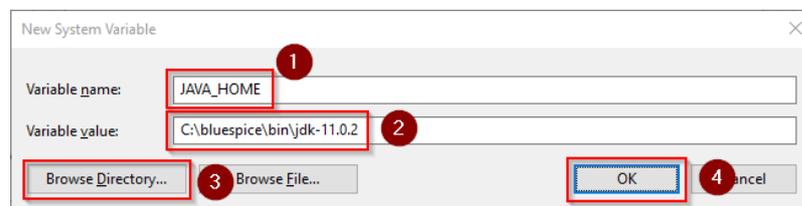
Click "environment variables":



Click "New...":



Set the name of the variable "JAVA_HOME" (1). As the value of the variable, specify the directory of your OpenJDK installation that you have just copied to C:\ bluespice\bin (2). Here you can use the "browse directory" button (3). Then click "OK" (4):



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

Next step

If you have completed all steps successfully, you can delete the previously downloaded "openjdk-11.0.2_windows-x64_bin.zip" file from your hard disk and go to the next step "[Apache Tomcat](#)".