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Setup:Installation Guide/System Preparation/Windows /Elasticsearch

A [quality version](#) of this page, [approved](#) on *16 December 2021*, was based off this revision.

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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.



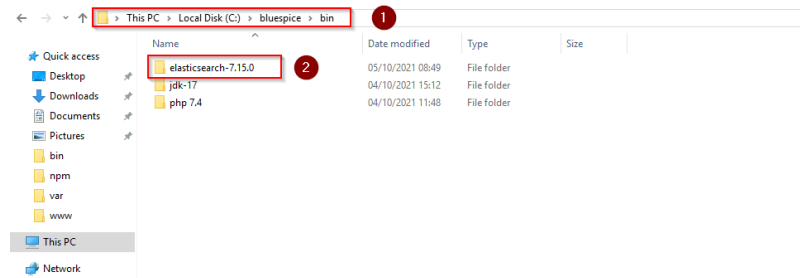
Please note that the download on your Windows Server with Internet Explorer will only work if you have configured the Internet Explorer Advanced Security Settings in the Server Manager. Please refer to the technical documentation from Microsoft.



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.

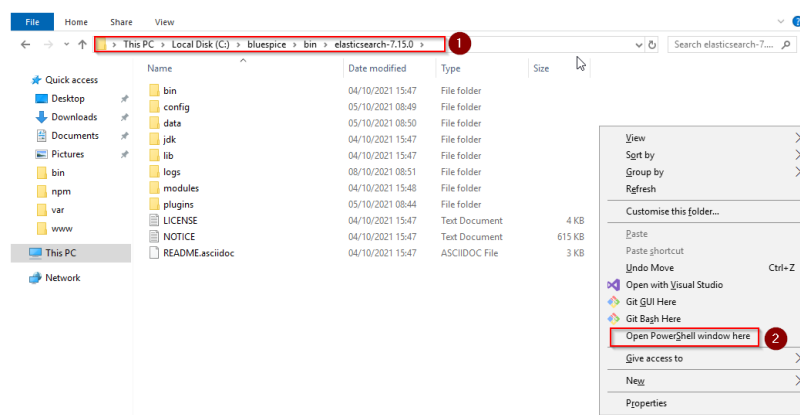
Unpacking Elasticsearch

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):

```
Administrator: Command Prompt (MariaDB 10.6 (x64))
Setting environment for MariaDB 10.6 (x64)
C:\Windows\system32>cd C:\bluespice\bin\elasticsearch-7.15.0\bin
C:\bluespice\bin\elasticsearch-7.15.0\bin>elasticsearch-plugin.bat install ingest-attachment 1
Warning: usage of JAVA_HOME is deprecated, use ES_JAVA_HOME
-> Installing ingest-attachment
-> Downloading ingest-attachment from elastic
[*****] 100%
WARNING: plugin requires additional permissions
*****
* java.lang.RuntimePermission accessDeclaredMembers
* java.lang.RuntimePermission getClassLoader
* java.lang.reflect.ReflectPermission suppressAccessChecks
* java.security.SecurityPermission createAccessControlContext
See http://docs.oracle.com/javase/8/docs/technotes/guides/security/permissions.html
for descriptions of what these permissions allow and the associated risks.
Continue with installation? [y/N]y 2
-> Installed ingest-attachment
-> Please restart Elasticsearch to activate any plugins installed
```



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

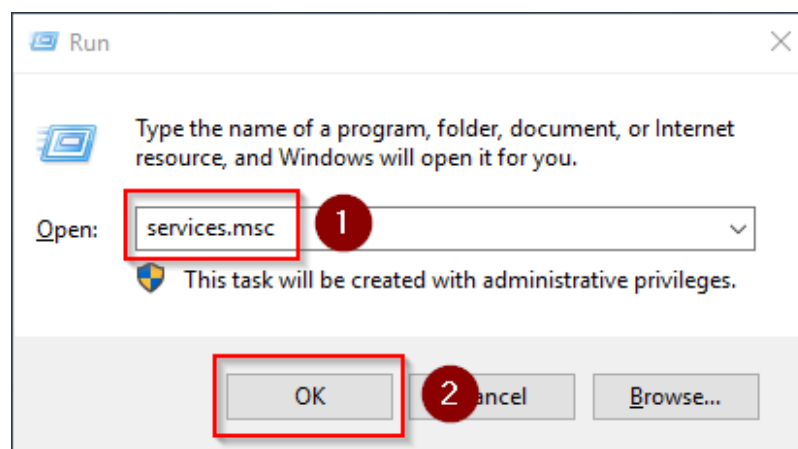
Next, run the `elasticsearch-service.bat` install command and wait for the process to complete:

```
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;-Xss1m;-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.allocation.pool.numDirectArenas=0;-Dlog4j.shutdownHookEnabled=false;-Dlog4j2.disable.jmx=true;-Djava.locale.providers=SPI,COMPAT;-Dopends-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>
```

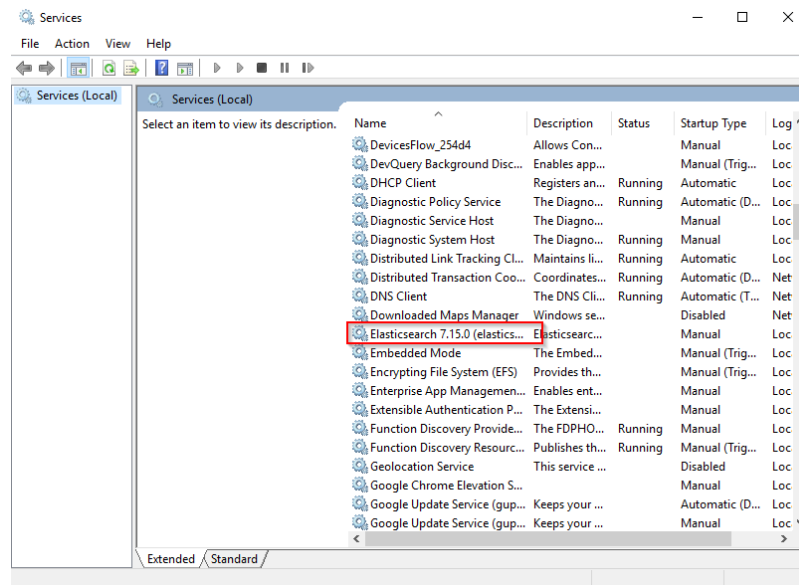
Configuring and starting the Elasticsearch service

Press the key combination Windows+R.

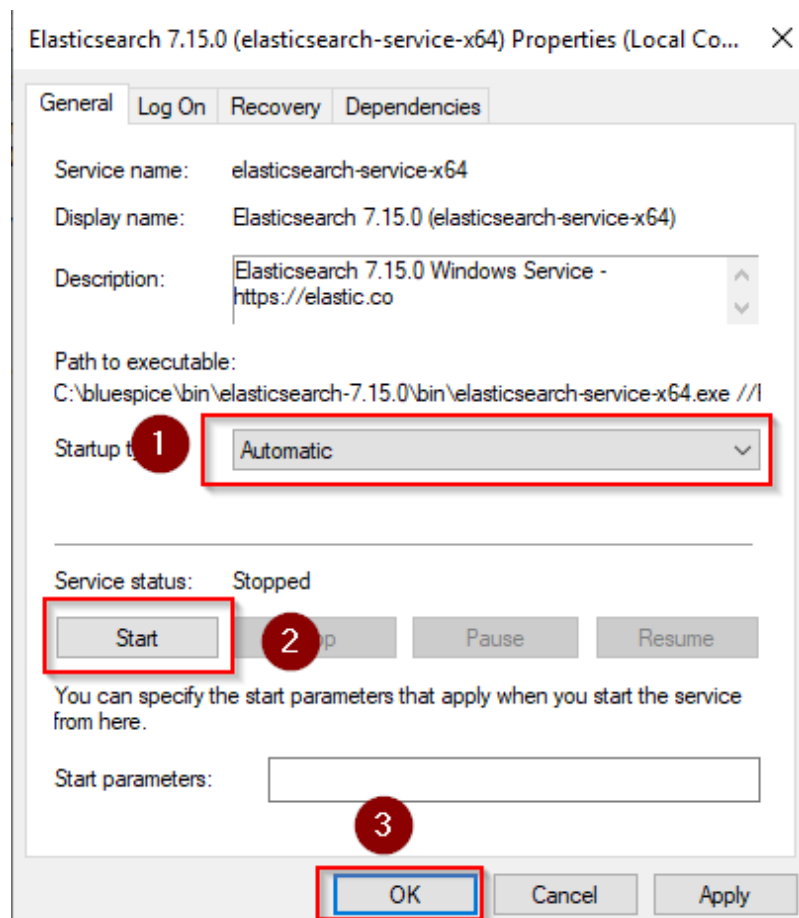
In the following dialog box, enter "services.msc" (1) and confirm with "OK" (2):



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](#)".