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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):





_						
·← → ~ ↑ 📘	> Thi	is PC > Local Disk (C:) > bluespice > bin				
		Name	Date modified	Туре	Size	
📌 Quick access		elasticsearch-7150	05/10/2021 08:49	File folder		
Desktop	1	idk-17	04/10/2021 15:12	File folder		
👆 Downloads	*		04/10/2021 11:48	File folder		
Documents	*	pub us	04/10/2021 11:40	The folder		
Pictures	*					
📙 bin						
npm						
var						
www						
This PC						
💣 Network						
pm var mwww						

### 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):

File Home Share	View					~ 🕐
🔶 🔶 × 🛧 🚺 > Thi	s PC > Local Disk (C:) > bluespice >	bin > elasticsearch-7.15.0 >			✓ ひ Search elasticsearch	n-7 P
	Name	Date modified	Туре	Size 🔓		
Desktop *	bin config data	04/10/2021 15:47 05/10/2021 08:49 05/10/2021 08:50	File folder File folder File folder			
Documents  Pictures	jdk lib	04/10/2021 15:47 04/10/2021 15:47	File folder File folder		View Sort by	>
bin npm var	ogs modules plugins	08/10/2021 08:51 04/10/2021 15:48 05/10/2021 08:44	File folder File folder File folder		Group by R <u>e</u> fresh Customise this folder	<i>``</i>
www	ILCENSE NOTICE README.asciidoc	04/10/2021 15:47 04/10/2021 15:47 04/10/2021 15:47	Text Document Text Document ASCIIDOC File	4 KB 615 KB 3 KB	Paste Paste shortcut	
🧼 Network					Undo Move Open with <u>V</u> isual Studio Git <u>G</u> UI Here Git Bagh Here Open PowerShell window here	Ctrl+Z
					Give access to New Properties	>

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))	-	$\times$
Setting environment for MariaDB 10.6 (x64)		^
C:\Windows\system32>cd C:\bluespice\bin\elasticsearch-7.15.0\bin		
:\bluespice\bin\elasticsearch-7.15.0\bin\elasticsearch-plugin.bat install ingest-attachment warning: usage of JAVA.HOME is deprecated, use ES_JAVA.HOME > Installing ingest-attachment from elastic - Downloading ingest-attachment from elastic - Downloading ingest-attachment from elastic - MANING plugin requires additional permission @		
Continue with installation?[y/N]y] 2 -> Installed ingest-attachment -> Please restart Elasticsearch to activate any plugins installed		



#### Setup:Installation Guide/System Preparation /Windows/Elasticsearch



If your server does not have an active internet connection, then download the plug-in ingestattachment 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.headles
s=true;-Dfile.encoding=UTF-8;-Djna.nosys=true;-XX:-OmitStackTraceInFastThrow;-XX:+ShowCodeDetailsInExceptionMessages;-Di
o.netty.noUnsafe=true;-Dio.netty.noKeySetOptimization=true;-Dio.netty.recycler.maxCapacityPerThread=0;-Dio.netty.allocat
or.numDirectArenas=0;-Dlog4j.shutdownHookEnabled=false;-Dlog4j2.disable.jmx=true;-Djava.locale.providers=SPI,COMPAT;ad
d-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,safepoin
t: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:

#### Setup:Installation Guide/System Preparation /Windows/Elasticsearch



🌼 Services					- 0	×
File Action View	Help					
	🖗 🚺 🕨 🕨 🔳 💵					
Services (Local)	Services (Local)					
	Select an item to view its description.	Name	Description	Status	Startup Type	Log ^
		DevicesFlow_254d4	Allows Con		Manual	Loc
		DevQuery Background Disc	Enables app		Manual (Trig	Loc
		Client	Registers an	Running	Automatic	Loc
		Diagnostic Policy Service	The Diagno	Running	Automatic (D	Loc
		Diagnostic Service Host	The Diagno	<b>.</b> .	Manual	Loc
		Diagnostic System Host	The Diagno	Running	Manual	Loc
		Distributed Link Tracking Cl	Maintains II	Running	Automatic	Loc
		Distributed Transaction Coo	Coordinates	Running	Automatic (D	Net
		S DNS Client	The DNS Cli	Running	Automatic (T	Net
		Downloaded Maps Manager	Windows se		Disabled	Net
		Elasticsearch 7.15.0 (elastics	Elasticsearc		Manual	Loc
		Embedded Mode	The Embed		Manual (Trig	Loc
		Encrypting File System (EFS)	Provides th		Manual (Trig	Loc
		Enterprise App Managemen	Enables ent		Manual	Loc
		Extensible Authentication P	The Extensi		Manual	Loc
		Function Discovery Provide	The FDPHO	Running	Manual	Loc
		Function Discovery Resourc	Publishes th	Running	Manual (Trig	Loc
		Geolocation Service	This service		Disabled	Loc
		Google Chrome Elevation S			Manual	Loc
		🧠 Google Update Service (gup	Keeps your		Automatic (D	Loc
		Google Update Service (gup	Keeps your		Manual	Loc Y
		<				>
	Extended Standard					

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

Elasticsea	rch 7.15.	0 (elasticsea	rch-service-x64	1) Properties	(Local Co X	<
General	Log On	Recovery	Dependencies			
Service	name:	elasticsearc	h-service-x64			
Display	name:	Elasticsearc	ch 7.15.0 (elastic	search-servic	:e-x64)	
Descrip	tion:	Elasticseard https://elas	ch 7.15.0 Windo tic.co	ws Service -	$\sim$	
Path to C:\blue	executabl spice \bin \	e: elasticsearch	1-7.15.0\bin\elas	ticsearch-sen	vice-x64.exe //I	
Startup	0	Automatic			~	
Service	status:	Stopped				
S	itart	<b>2</b> P	Pa	use	Resume	
You car from her	n specify t re.	he start parar	neters that apply	when you sta	art the service	
Start pa	rameters:					
			3			
		I	ОК	Cancel	Apply	



#### 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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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 (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 >":

Oit 2.19.1 Setup	_		$\times$
<b>Information</b> Please read the following important information before continuing.			<b>&gt;</b>
When you are ready to continue with Setup, dick Next.			
GNU General Public Licen	se	^	
Version 2, June 1991			
Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA			
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.			
Preamble			
The licenses for most software are designed to take aw freedom to share and change it. By contrast, the GNU Ge License is intended to quarantee your freedom to share a	ay your eneral Pu and char	ublic v	
https://gitforwindows.org/	t>	Cance	el

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

Image: State Strategy     Image: State Strategy       Image: State Strategy     Image: State Strategy       Image: State Strategy     Image: State Strategy       Image: State Strategy     Image: State Strategy	O 2.1.1.1.1mg     O C C C C C C C C C C C C C C C C C	OR MERSTANDING     OF MERSTANDING	Australian     Construction
<section-header></section-header>	C 02.333.54mg - 0 X C 02.000 C 000	<page-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></page-header>	<page-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></page-header>
	Oran Songer generation and an		

You can close the setup program now:



🚸 Git 2.19.1 Setup	– 🗆 X
	Completing the Git Setup Wizard
	Setup has finished installing Git on your computer. The application may be launched by selecting the installed shortcuts.
	Click Finish to exit Setup.
	Launch Git Bash
	View Release Notes
	Finish

#### 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

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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":

System Properties	$\times$
Computer Name Hardware Advanced Remote	
You must be logged on as an Administrator to make most of these changes Performance Visual effects, processor scheduling, memory usage, and virtual memory Settings	l.
User Profiles Desktop settings related to your sign-in Settings	
Startup and Recovery System startup, system failure, and debugging information Settings	
Environment Variables	
OK Cancel Apply	

Click "New ... ":





	value	
Path	C:\Users\Administrator\AppData\Local\Microsoft\WindowsApps;	
TEMP	C:\Users\Administrator\AppData\Local\Temp	
ТМР	C:\Users\Administrator\AppData\Local\Temp	
		_
	<u>N</u> ew <u>E</u> dit <u>D</u> elete	
stem variables		
Variable	Value	
Tanabie		
ComSpec	C:\Windows\system32\cmd.exe	
ComSpec DriverData	C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData	
ComSpec DriverData NUMBER_OF_PROCESSORS	C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1	
ComSpec DriverData NUMBER_OF_PROCESSORS OS	C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1 Windows_NT	
ComSpec DriverData NUMBER_OF_PROCESSORS OS Path	C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1 Windows_NT C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;	
ComSpec DriverData NUMBER_OF_PROCESSORS OS Path PATHEXT	C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1 Windows_NT C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem; .COM;.EXE;.BAT;.CMD;.VBS;.VBE;JS;JSE;.WSF;.WSF;.MSC	
ComSpec DriverData NUMBER_OF_PROCESSORS OS Path PATHEXT PROCESSOR ARCHITECTURE	C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1 Windows_NT C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem; .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;JSE;.WSF;.WSH;.MSC AMD64	

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):

New System Variable	-	$\times$
Variable <u>n</u> ame:	JAVA_HOME	
Browse <u>D</u> irectory	3 Browse <u>File</u> OK 4 Incel	

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".