

# Contents

1. Setup:Installation Guide/System Preparation/Windows	2
2. Setup:Installation Guide/System Preparation/Windows/Apache Tomcat	2
3. Setup:Installation Guide/System Preparation/Windows/Elasticsearch	12
4. Setup:Installation Guide/System Preparation/Windows/Git	17
5. Setup:Installation Guide/System Preparation/Windows/IIS Web Server	20
6. Setup:Installation Guide/System Preparation/Windows/Introduction	27
7. Setup:Installation Guide/System Preparation/Windows/MariaDB	27
8. Setup:Installation Guide/System Preparation/Windows/Node.js	36
9. Setup:Installation Guide/System Preparation/Windows/OpenJDK	43
10. Setup:Installation Guide/System Preparation/Windows/PHP 7.3	47
11. Setup:Installation Guide/System Preparation/Windows/PHP Manager	62
12. Setup:Installation Guide/System Preparation/Windows/Parsoid	
13. Setup:Installation Guide/System Preparation/Windows/Parsoid/ parsoid.service	72
14. Setup:Installation Guide/System Preparation/Windows/PhantomJS	73
15. Setup:Installation Guide/System Preparation/Windows/Python	75
16. Setup:Installation Guide/System Preparation/Windows/Visual C++ Redistributable for Visual	
Studio 2015	81



# Setup:Installation Guide/System Preparation/Windows

A quality version of this page, approved on 2 August 2021, was based off this revision.

- Introduction
- IIS Web Server
- Visual C++ Redistributable for Visual Studio 2015
- PHP Manager
- PHP 7.3
- MariaDB
- OpenJDK
- Apache Tomcat
- Elasticsearch
- Git
- Node.js
- Parsoid
- Python
- PhantomJS (BlueSpice pro only)

# **Apache Tomcat on Windows**

A quality version of this page, approved on 2 August 2021, was based off this revision.

#### Contents

1	Download	. 3
2	Installing Apache Tomcat	. 4
3	Configuring Apache Tomcat	. 8
4	Reviewing the installation	11
5	Installing the web apps	12
6	Next step	12



Ð

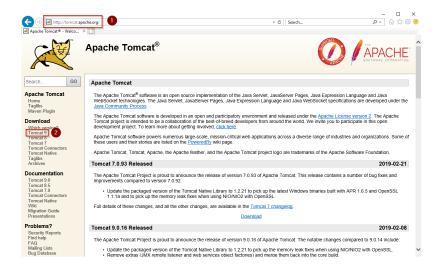
Apache Tomcat is required for the PDF export, VisualDiff (BlueSpice pro only) and the LaTeX renderer (BlueSpice pro only). The following steps are optional and only required if you want to use one or more of these services in your BlueSpice installation.



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 9 (2) download page.



Download the "32-bit/64-bit Windows Service Installer"

# Setup:Installation Guide/System Preparation /Windows



(=) Matthe https://tomca	at.apache.org/download-90.cgi 🗸 🛱 C Search 🔎 V	7 (83)
Apache Tomcat® - Apache	e×	
Taglibs		
Maven Plugin	Quick Navigation	
Download		
Which version?	KEYS   9.0.16   Browse   Archives	
Tomcat 9	Release Integrity	
Tomcat 8 Tomcat 7	release megny	
Tomcat Connectors	You must verify the integrity of the downloaded files. We provide OpenPGP signatures for every release file. This signature should be matched again	
Tomcat Native Taglibs	the KEYS file which contains the OpenPGP keys of Tomcat's Release Managers. We also provide SHA-512 checksums for every release file. After yo download the file, you should calculate a checksum for your download, and make sure it is the same as ours.	u
Archives	download the life, you should calculate a checksum for your download, and make sure it is the same as ours.	
Documentation	Mirrors	
Tomcat 9.0		
Tomcat 8.5	You are currently using http://www.gutscheine.org/mirror/apache/. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are backup mirrors (at the end of the mirrors list) that should be available.	
Tomcat 7.0 Tomcat Connectors		
Tomcat Connectors	Other mirrors: http://apache.lauf-forum.at/ Change	
Wiki		
Migration Guide Presentations	9.0.16	
	Please see the README file for packaging information. It explains what every distribution contains.	
Problems?		
Security Reports Find help	Binary Distributions	
FAQ	- Core	
Mailing Lists Bug Database	<ul> <li>zip (pgp, sha512)</li> </ul>	
IRC	• <u>tar.gz</u> (p <u>op</u> , <u>sha512</u> )	
Get Involved	<ul> <li>32-bit Windows zip (pgp, sha512)</li> <li>64-bit Windows zip (pgp, sha512)</li> </ul>	
Overview	<ul> <li>32-bit/64-bit Windows Service Installer (pgp, sha512)</li> </ul>	
Source code	Full documentation:	
Buildbot Tools	tar.gz (pgp, sha512)     Deployer:	
	• zip (pgp, sha512)	
Media	tar.gz (pgp, sha512)     Embedded	
Twitter YouTube	<ul> <li>tar gz (pap, sha512)</li> </ul>	
Blog	<ul> <li>zip (pqp, sha512)</li> </ul>	



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.



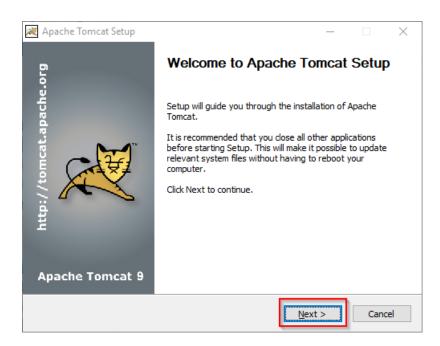
This guide uses version 9.0.16 of Apache Tomcat and is just an example of the latest version that you can download at the time of installation.

# Installing Apache Tomcat

Open the downloaded file "apache-tomcat-9.0.16.exe".

Start the installation by clicking "Next >":





Confirm the license agreement by clicking "I Agree":

😹 Apache Tomcat Setup —	
License Agreement Please review the license terms before installing Apache Tomcat.	
Press Page Down to see the rest of the agreement.	
Apache License Version 2.0, January 2004 http://www.apache.org/licenses/	^
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION 1. Definitions. "License" shall mean the terms and conditions for use, reproduction,	
and distribution as defined by Sections 1 through 9 of this document.	<b>~</b>
If you accept the terms of the agreement, click I Agree to continue. You must acce agreement to install Apache Tomcat.	pt the
Nullsoft Install System v3.04	Cancel

#### Click "Next >":



🗮 Apache Tomcat Setup		- 🗆 X
Choose Components Choose which features of Apar	che Tomcat you want to install.	
Check the components you wa install. Click Next to continue.	nt to install and uncheck the comp	onents you don't want to
Select the type of install:	Normal 🗸	
Or, select the optional components you wish to install:	Tomcat     Start Menu Items     Occumentation     Manager     Host Manager     Examples	Description Position your mouse over a component to see its description.
Space required: 13.2 MB		
Nullsoft Install System v3.04		
	< <u>B</u> ack	Next > Cancel

#### Click "Next >" again:

減 Apache Tomcat Setup: Cor	nfiguration Opt	tions	_		
Configuration				C H	m
Tomcat basic configuration.				$\sim$	
Server Shutdown Port		8005			
HTTP/1.1 Connector Port		8080			
Windows Service Name		Tomcat9			
Create shortcuts for all users					
Tomcat Administrator Login (optional)	User Name			]	
	Password			]	
	Roles	manager-gui			
Nullsoft Install System v3.04 —					
		< Back Ne	ext >	Cancel	

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



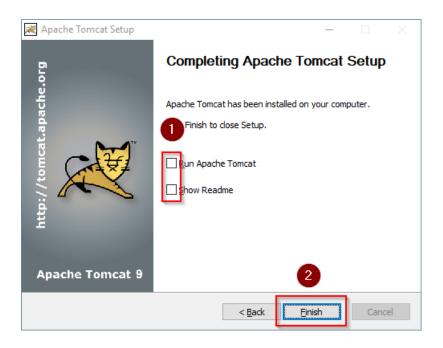
減 Apache Tomcat Setup: Java Virtual Machine path selection	_		×
Java Virtual Machine Java Virtual Machine path selection.		X	
Please select the path of a Java SE 8.0 or later JRE installed on your sy	stem.		
2 C:\pluespice\pin\jdk-11.0.2		[	
Nullsoft Install System v3.04	:>	Can	cel

Start the Tomcat Installation:

減 Apache Tomcat Setup		_		$\times$
Choose Install Location			~	24
Choose the folder in which to install Apache Tomcat.			X	X
Setup will install Apache Tomcat in the following folder. To Browse and select another folder. Click Install to start the		erent fold	der <mark>, c</mark> lick	
Destination Folder				
C:\Program Files\Apache Software Foundation\Tomca	t 9.0	B <u>r</u> ows	æ	
Space required: 13.2 MB				
Space available: 47.0 GB				
Nullsoft Install System v3.04				
< <u>B</u> ack	: <u>I</u> nstal		Canc	el

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">



📓 *C:\Program Files\Apache Software Foundation\Tomcat 9.0\conf\context.xml - Notepad++ [Administrator]	-	×
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?		х
C = = = = C = = + + + + + + + + + = = = 1 = 1 ■ = = 1 ■ = = = = = = = = =		
🔚 context uni 🖸		
<pre>1 creation="1.0" encoding="UTF-8" 2 C+1- 3 C+1- 3 C+1- 3 C+1- 4 Contributor license agreements. See the NOTICE file distributed with 5 this work for additional information regarding copyright ownership. 6 The ASP licenses this file to You under the Apache License, Version 2.0 7 (the "license"); you may not use this file except in compliance with 6 the License. You may obtain a copy of the License at 7 http://www.anache.org/licenses/LICENSE-1.0 7 Unless required by applicable law or agreed to in writing, software 7 distributed under the License is distributed on an "AS IS" BASIS,</pre>		
14     WITHOUT HARARNITIES OR CONDUTIONS OF ANY KIND, either express or implied.       15     See the License for the specific language governing permissions and       16     limitations under the License.       17    >       18     Context mapperContextRootRedirectEnabled="true";		
20 Default set of monitored resources. If one of these changes, the</td >         21 Web applications will be reloaded.</td >         23        >         24         >         25         >         26          >         27          >         28              28               29 <td></td> <td></td>		
32		INS

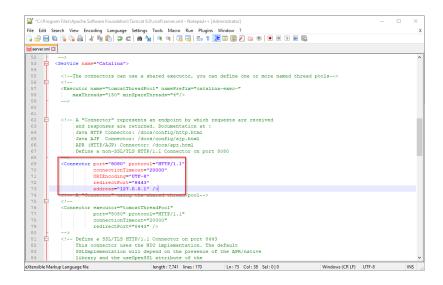
Save and close the file.

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.

Recently added Windows Server Configure Tomcat Ŀ Σ 놆 Monitor Tomcat Windows PowerShell ISE Windows PowerShell HeidiSOL ver Manage Expand ۴. <u>e</u>-E ł 7-Zip New Task Manager <u>4</u> 0 Apache Tomcat 9.0 Tomcat9 Remote Desktop nfigure Tomcat Event Viewe 8 Tomcat 9.0 Program Directory ۲ Tomcat Documentation Ľ Tomcat Home Page Ś Tomcat Manager <u>ت</u> Welcome ூ

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):



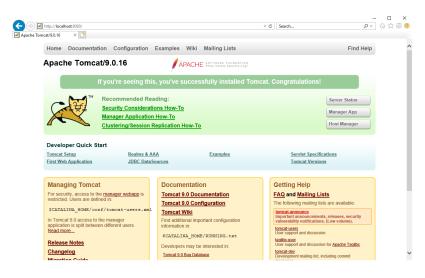
Apach	ie Tomca	t 9.0 Tom	cat9 Pro	operties			$\times$
General	Log On	Logging	Java	Startup	Shutdown		
Service	e Name:	Tomcat?	,				
Display	<u>n</u> ame:	Apache	e Tomca	t 9.0 Tomo	at9		
<u>D</u> escrip	otion:	Apache	e Tomca	t 9.0.16 Se	erver - https://t	tomcat.apache	
Path to	o executal	ble:					
			Softwa	re Foundat	tion\Tomcat 9.0	)\bin\Tomcat9.	
Startup	o typ <u>e</u> :	Automa	atic		1	~	
Service	e Status:	Stopped	1				
9	<u>S</u> tart	2	pp	P	ause	<u>R</u> estart	
_							
				ОК	3 cel	Apply	

# 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

After the successful installation of BlueSpice, please follow the next steps to install the web services and activate the respective BlueSpice extension:

- PDF-Export
- VisualDiff (BlueSpice pro only)
- LatexRenderer (nurBlueSpice pro only)

#### Next step

If you have completed all steps successfully, you can delete the previously downloaded "apachetomcat-9.0.16.exe" file from your hard drive and continue to the next step " Elasticsearch".

# **Elasticsearch on Windows**

A quality version of this page, approved on 16 December 2021, was based off this revision.

#### Contents

1	Download Elasticsearch	. 13
2	Unpacking Elasticsearch	. 13
3	Installing the plugin ingest-attachment	. 14
4	Installing the Elasticsearch service	. 15
5	Configuring and starting the Elasticsearch service	. 15
6	Next step	. 17





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/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):



			_			
← → ~ ↑	s PC > Local Disk (C:) > bluespice >	bin 🚺				
🖈 Quick access		Name	Date modified	Туре	Size	
		elasticsearch-7.15.0 2	05/10/2021 08:49	File folder		
E. Desktop	*	jdk-17	04/10/2021 15:12	File folder		
👆 Downloads	1	php 7.4	04/10/2021 11:48	File folder		
🗄 Documents	*					
Pictures	×					
bin 🔄						
npm						
var						
www						
📃 This PC						
i Network						

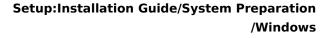
# Installing the plugin ingest-attachment

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):

· -> · 🛧 📘	→ Thi	is PC → Local Disk (C:) → bluespice →	bin > elasticsearch-7.15.0 >			✓ ひ Search elastics	earch-7 🔎
_		Name	Date modified	Туре	Size 🗟		
🖈 Quick access		bin	04/10/2021 15:47	File folder			
Desktop	*	config	05/10/2021 08:49	File folder			
👆 Downloads	1	data	05/10/2021 08:50	File folder			
🗄 Documents	1	idk	04/10/2021 15:47	File folder		View	
E Pictures	*	lib	04/10/2021 15:47	File folder		Sort by	
📕 bin		logs	08/10/2021 08:51	File folder		Group by	
npm		modules	04/10/2021 15:48	File folder		Refresh	
var		plugins	05/10/2021 08:44	File folder		Customise this folder	
		LICENSE	04/10/2021 15:47	Text Document	4 KB	Customise this Tolder	
www		NOTICE	04/10/2021 15:47	Text Document	615 KB	<u>P</u> aste	
This PC		README.asciidoc	04/10/2021 15:47	ASCIIDOC File	3 KB	Paste <u>s</u> hortcut	
						Undo Move	Ctrl-
network 🌮						対 Open with <u>V</u> isual Studio	
						🚸 Git <u>G</u> Ul Here	
						🚸 Git Bash Here	
						Open Power <u>S</u> hell window I	here 2
						<u>G</u> ive 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))	-	$\times$
etting environment for MariaDB 10.6 (x64)		-
:\Windows\system32>cd C:\bluespice\bin\elasticsearch-7.15.0\bin		
:\bluespice\bin\elasticsearch-7.15.0\bin <mark>}elasticsearch-plugin.bat install ingest-attachment 1</mark> Warning: usage of JAWA.HOME is deprecated, use ES_JAVA_HOME > Installing ingest-attachment > Downloading ingest-attachment from elastic		
continue with installation?[y/N] 2) > Installed ingest-attachment > Please restart Elasticsearch to activate any plugins installed		





BlueSpice

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

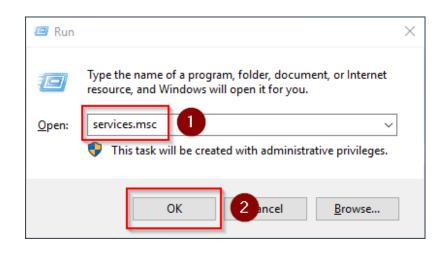
Next, run the elasticsearch-service.bat install command and wait for the process to complete:

C:\bluespice\bin\elasticsearch-7.15.0\bin>elasticsearch-service.bat install "warning: usage of JAVA HOME is deprecated, use 65 JAVA HOME Installing service : "elasticsearch-service.F64" Using E5_JAVA_HOME (64-bit): "C:\bluespice\bin\jdk-17" -Des.netuvokaddress.cache.tl=66; Des.netuvokaddress.cache.negative.ttl=10; -XX:+AlwaysPreTouch;-XsSim;-D serture;-Dfile encoding=UTF-8; -Djna.nosys=trure;-XX:-OmitStackTraceInfastThrow;-XX:+AlwaysPreTouch;-XsSim;-D o.netty.noUnsafe-true;-Djna.nosys=true;-XX:-OmitStackTraceInfastThrow;-XX:+AlwaysPreTouch;-XsSim;-D or.numDirectArenas=6;-Dlogd; ShutdownHookEnabled=false;-Dlogd;2.disable.jmx=true;-Djava.locale.providers d-opens=java.base/java.locALL-UMAWHOFD:XX:UseGdC;-Djava.io.tmgdir=C:UsersVADMINT-AlApDBatlocalTemp XX:+HeapDumpOnDutOfMemoryError;-XX:HeapDumpPath-data;-XX:ErrorFile=logs/hs_err_pidfav_10;-Qis:-Xlog;ef',gc+ag t:file=logs/sc_l.og;uttrum:pid1egaDCcupancyPercent-38;-XX:GlReservePercent-15 The service 'elasticsearch-service-xd' has been installed.	tionMessages;-Di io.netty.allocat =SPI,COMPAT;ad \elasticsearch;- e=trace,safepoin
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:



rvices Action View Help				- 0	×
rvices (Local) 📀 Services (Local)					
Select an item to view its description.	Name	Description	Status	Startup Type	Log
	Apple: 254d4	Allows Con		Manual	Loc
	Arrow DevQuery Background Disc	Enables app		Manual (Trig	Loc
	A DHCP Client	Registers an	Running	Automatic	Loc
	🖏 Diagnostic Policy Service	The Diagno	Running	Automatic (D	Loc
	🖏 Diagnostic Service Host	The Diagno		Manual	Loc
	🎑 Diagnostic System Host	The Diagno	Running	Manual	Loc
	🌼 Distributed Link Tracking Cl	Maintains li	Running	Automatic	Loc
	🌼 Distributed Transaction Coo	Coordinates	Running	Automatic (D	Net
	🆏 DNS Client	The DNS Cli	Running	Automatic (T	Net
	🖏 Downloaded Maps Manager	Windows se		Disabled	Net
	Elasticsearch 7.15.0 (elastics	Elasticsearc		Manual	Loc
	Sended 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
	<				>

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	arch-service-x64) Properties (Local Co	×			
General	Log On	Recovery	Dependencies				
Service	name:	elasticsear	rch-service-x64				
Display	name:	Elasticsean	asticsearch 7.15.0 (elasticsearch-service-x64)				
Description:		Elasticsear https://ela	rch 7.15.0 Windows Service -				
	executabl spice \bin \	· ·	h-7.15.0\bin\elasticsearch-service-x64.exe //I				
Startup	0	Automatic	· · · ·				
				1			
Service	status:	Stopped					
S	itart	<b>2</b> P	p Pause Resume				
You car from her		he start para	ameters that apply when you start the service				
Start pa	rameters:						
			3				
			OK 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.

### Contents

1	Download	18
2	Installing Git	18
3	Next step	20

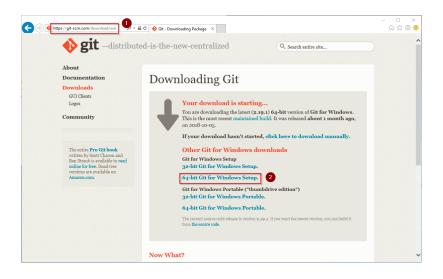




Git is an application for software version management. It is required for the installation of Node.js, which in turn is required for the operation of the rendering service "Parsoid" for the Visual Editor. The steps listed here are optional and only required if you want to use them in your BlueSpice installation.

# 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 >":

Blue Spíce MediaWiki

🚸 Git 2.19.1 Setup	_		$\times$
Information Please read the following important information before continuing.			8
When you are ready to continue with Setup, click 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 Go License is intended to quarantee your freedom to share.	eneral P	ublic	
https://gitforwindows.org/	t >	Cano	el

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

Original State Stat	Or 23.23 Mark     Sector 20.02 Mark	Alexandree Marken Marken Versteren Arte Marken M Marken Marken Mark	Australiant     Construction
<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>	O & 2.13.15.00     O	Outstand     Compares the second	<image/> <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>
Contraction			

You can close the setup program now:



🚸 Git 2.19.1 Setup	- 🗆 ×
	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".

# Setup:Installation Guide/System Preparation/Windows/IIS Web Server

A quality version of this page, approved on 2 August 2021, was based off this revision.

#### Contents

1	Introduction	21
2	The Server Manager and managing roles	21
3	Installing IIS in the Role Manager	22
4	Next step	26



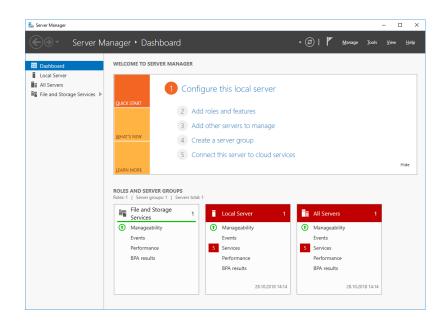
The web server delivers your BlueSpice installation to the users' browsers. Without a web server, BlueSpice cannot be used. The steps listed here are required.

### Introduction

We recommend to use the most system-optimized software possible for a live operation of BlueSpice both under Linux and under Windows. For this reason, the documentation of an installation of Apache (XAMP) under Windows is omitted. This chapter lists the steps that are necessary to install the Microsoft IIS Web Server service on Windows Server >= 2012.

# The Server Manager and managing roles

First, open the Server Manager. Unless otherwise configured, it starts automatically as soon as you log in to the server. Otherwise, you will find it in the start menu under the search term "Server Manager". You are now in the following view:



Click "Manage" (1) und then "Add Roles and Features" (2):



Server Manager				×
Gerver Ma	anager • Dashboard		• @   <b> *</b>	Manage Jols View Help Add Roles and Features Remove Roles and Features
Dashboard     Local Server     All Servers	WELCOME TO SERVER MANAGER			Add Servers Create Server Group Server Manager Properties
■ File and Storage Services ▷	QUICK START	gure this local server		Server Manager Properties
	3 Ad	d other servers to manage		
		eate a server group nnect this server to cloud service:	5	
	LEARN MORE			Hide
	ROLES AND SERVER GROUPS Roles: 1   Server groups: 1   Servers total:	1		
	File and Storage Services 1	Local Server 1	All Servers	1
	Manageability     Events	Manageability     Events	Manageabil     Events	ity
	Performance	5 Services	5 Services	
	BPA results	Performance	Performance	2
		BPA results	BPA results	
		28.10.2018 14:14		28.10.2018 14:14

# Installing IIS in the Role Manager

You are now in the Role Manager.

Click "Next >" until you reach the "Server Roles" area (1). There, you activate the role "Web Server (IIS)" (2):

Select server rol	es	DESTINATION SERVER WIN-OJ8QSBRBS0L
Before You Begin Installation Type Server Roles Features Confirmation Results	Select one or more roles to install on the selected server.  Roles  Active Directory Certificate Services Active Directory Foderation Services Active Directory Ederation Services Active Directory Rights Management Services Active Directory Rights Management Services DKS Server BKS Server BKS Server BKS Server BKS Server BKS Services BKS SErv	Description Active Directory Certificate Services (AD CS) is used to create certification authorities and related role services that allow you to issue and manage certificates used in a variety of applications.

Confirm the pop-up that shows the selection of the role with "Add Features":



Add Roles and Features Wizard × Add features that are required for Web Server (IIS)?
•
•
-
The following tools are required to manage this feature, but do not
have to be installed on the same server.
Web Server (IIS)
<ul> <li>Management Tools</li> </ul>
[Tools] IIS Management Console
[]
Laskuda managant tasla (if analisabla)
Include management tools (if applicable)
Add Features Cancel
Add reatures Cancer

#### Click "Next >":

elect server ro	les	DESTINATION SERVEI WIN-OJ8QSBRBS0
Before You Begin Installation Type Server Selection	Select one or more roles to install on the selected server. Roles Active Directory Certificate Services	Description Web Server (IIS) provides a reliable
Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Active Directory Domain Services     Active Directory Federation Services     Active Directory Lightweight Directory Services     Active Directory Rights Management Services     Device Health Attestation     DHCP Server     DNS Server     Fax Server     File and Storage Services (1 of 12 installed)     Host Guardian Service     Hyper-V     MultPoint Services     Network Policy and Access Services     Print and Document Services     Remote Decktop Services	manageable, and scalable Web application infrastructure.
	Volume Activation Services  Velume Activation Services  Vindows Deployment Services  V	

You are now in the "Features" area(1). Activate ".NET Framework 3.5 Features" (2) and click "Next >" (3):

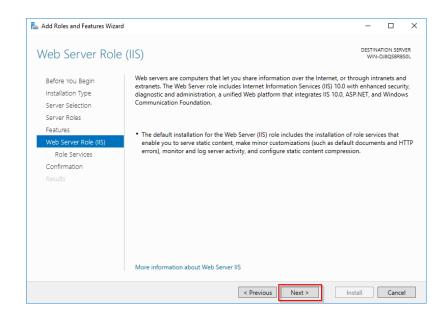


📥 Add Roles and Features Wizard		- 🗆 X
Select features		DESTINATION SERVER WIN-OJ8QSBRBSOL
Before You Begin	Select one or more features to install on the selected server.	
Installation Type	Features	Description
Server Selection Server Roles Features 1 Web Server Role (IIS) Role Services Confirmation Results	VIET Framework 3.5 Features     A     A     Seatures     A	.NET Framework 3.5 combines the power of the .NET Framework 2.0 APIs with new technologies for building applications that offer appealing user interfaces, protect your customers' personal identity information, enable seamless and secure communication, and provide the ability to model a range of business processes.
	< Previous Next	> 3 Install Cancel

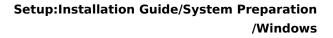


The .NET Framework 3.5 is not directly required for running IIS. However, tools that will be installed later, which are also partially connected with IIS, definitely require it. For this reason, we install it now.

Confirm the following dialog with "Next >":



Under "Role Services" (1) select "Application Development" (2) with the option "CGI" (3) and confirm with "Next >" (4):





Add Roles and Features Wizard	s	DESTINATION SERVER WIN-OJØQSBRBSOL
Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Slect the role services to install for Web Server (IIS)	Description CGI defines how a Web server passes information to an external program. Typical uses might include using a Web form to collect information and then passing that information to a CGI script to be emailed somewhere else. Because CGI is a standard, CGI scripts can be written using a variety of programming languages. The downside to using CGI is the performance overhead.
	< Previous Next	> 4 Install Cancel

Click "Install" to start the installation:

onfirm installa	tions and notions. DESTINATION	ON SER
oniim instalia	UON SEIECUONS WIN-OU	aQSBRB
Do you need to specify	an alternate source path? One or more installation selections are missing source files on the destina	ti
Before You Begin	To install the following roles, role services, or features on selected server, click Install.	
Installation Type	Restart the destination server automatically if required	
Server Selection	Optional features (such as administration tools) might be displayed on this page because the	
Server Roles	been selected automatically. If you do not want to install these optional features, click Previou their check hores.	us to c
Features	their check boxes.	
Web Server Role (IIS)	.NET Framework 3.5 Features	
Role Services	.NET Framework 3.5 (includes .NET 2.0 and 3.0)	
	Web Server (IIS)	
Confirmation	Management Tools	
	IIS Management Console	
	Web Server	
	Application Development	
	CGI	
	Common HTTP Features	
	Export configuration settings	

As soon as the installation has finished, click "Close" to exit the dialog box.



nstallation prog	ress	ATION SER OJ8QSBRE	
	View installation progress		
	Feature installation		
	Installation succeeded on WIN-OJ8QSBRBS0L		
	.NET Framework 3.5 Features		Ţ
	.NET Framework 3.5 (includes .NET 2.0 and 3.0)		
	Web Server (IIS)		
Confirmation	Management Tools IIS Management Console		
Results	Web Server		l
	Application Development		
	CGI		
	Common HTTP Features Default Document		
	Directory Browsing		
	You can close this wizard without interrupting running tasks. View task pro page again by clicking Notifications in the command bar, and then Task Du	open thi	5
	Export configuration settings		



If the installation terminates with a problem, this is usually caused by the .NET Framework 3.5 in combination with a WSUS server in your domain. The easiest solution for this is to remove the server from the domain, repeat all of the above steps, and then re-adding the server to the domain.

With the successful completion of all these steps, the IIS web server is now installed. Check the functionality by starting Internet Explorer on the server and calling the URL http://localhost/. If installed correctly, you will see the welcome page of the IIS Web server:



# Next step

When you have successfully completed all the steps above, go to the next step "Visual C++ Redistributable for Visual Studio 2015".



# Introduction to the Bluespice installation guide for Windows

A quality version of this page, approved on 25 June 2020, was based off this revision.

To make sure your BlueSpice installation is successful, we show you how to prepare a complete Windows Server environment before running BlueSpice on it.

The documentation is as detailed as possible and illustrated with screenshots.

Nevertheless, we assume that you already have some previous experience in the installation and operation of Windows Server systems.

Prerequisite is an already installed Windows Server from version 2012 without already additionally installed software.

First start with Installing the IIS Web Server.

### **MariaDB on Windows**

A quality version of this page, approved on 2 August 2021, was based off this revision.

#### Contents

1	Introduction	28
2	Download	28
3	Installing MariaDB	29
4	Setting the environment variable	33
5	Next step	36



1

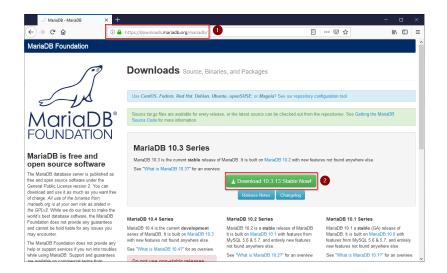
BlueSpice stores your content in a database for which you need to install a corresponding server. The steps listed here are required.

# Introduction

Alternatively, you can use MySQL at this point, but we recommend the database server MariaDB as described below.

### Download

In Internet Explorer, open the official download page (1). Click on the corresponding download link (2).



Select the MSI package in the 64bit version:



A MariaDB 10.3.13 Stable - Marial X							-		
<) → ୯ ŵ 🛛 🔍	https://downloads.mariadb.org/	mariadb/10.3	13/		F	… ⊠ ☆	li	\	
	MariaDB 10.3.13 Release Notes Changelog Affordable,enterprise class pro Foundation's release sponsor.	duct support,	professional services, an					release	s
MariaDB is free and	MariaDB Corporation at sales(			Jour menn an	d their services for	manapp, wsit their websi	te, or email		
open source software									
he MariaDB database server is published as ree and open source software under the	File Name	Package Type	OS / CPU	Size	Meta	Want to learn more abo out our whitepapers.	ut MariaDB	? Check	
Seneral Public License version 2. You can ownload and use it as much as you want free f charge. All use of the binaries from	mariadb-10.3.13.tar.gz	source tar.gz file	Source	70.7 MB	Chedisum				
nariadb.org is at your own risk as stated in he GPLv2. While we do our best to make the	Galera 25.3.25 source and packages		Source			Operating System			
rorld's best database software, the MariaDB oundation does not provide any guarantees	For best results with RPM and DEB packages, use the Repository Configuration Tool.					DEB Package			
nd cannot be hold liable for any issues you nay encounter. he MariaDB Foundation does not provide any	mariadb-10.3.13-winx64- debugsymbols.zip	ZIP file	Windows x86_64	144.0 MB	Chedsum	Generic Linux			
elp or support services if you run into troubles hile using MariaDB. Support and guarantees re available on commercial terms from	mariadb-10.3.13-winx64.zip	ZIP file	Windows x86_64	69.5 MB	Chedsum	Source Code			
nultiple MariaDB vendors. There are alse nany resources you can use to learn MariaDB	mariadb-10.3.13-winx64.msi	MSI Package	Windows x86_64	54.5 MB	Chedaum				
nd support yourself or get peer support nline. Supported and certified	mariadb-10.3.13-win32.zip	ZIP file	Windows x86	62.5 MB	Chedsum	Package Type			
binaries available from commercial vendors	mariadb-10.3.13-win32- debugsymbols.zip	ZIP file	Windows x86	111.9 MB	Chedsum	MacOS pkg     DEB Package     RPM Package			
here multiple MariaDB vendors that provide lifferent kinds of quarantees based on the	mariadb-10.3.13-win32.msi	MSI Package	Windows x86	49.1 MB	Checksum	☐ MSI Package □ ZIP file			

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.



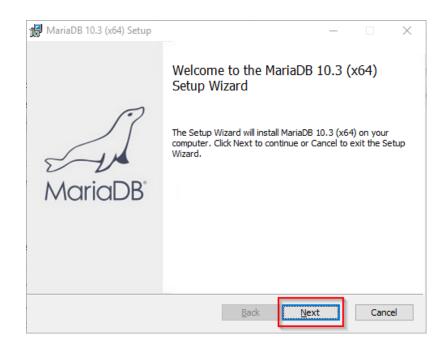
In the following the MariaDB version 10.3.13 is used and serves as an example only for the latest version, which you can download at the time of your installation.

#### Installing MariaDB

Open the file that you just downloaded: "mariadb-10.3.13-winx64.msi".

Start the installation by clicking "Next":





Confirm the license agreement (1) and click "Next" (2):

🛃 MariaDB 10.3 (x64) Setup		$\times$
End-User License Agreement Please read the following license agreement carefully	MariaDB Server 2	A
GNU GENERAL PUBLIC LICENSE		^
Version 2, June 1991		
Copyright (C) 1989, 1991 Free Software Foundation Street, Fifth Floor, Boston, MA 02111-1301, USA E to copy and distribute verbatim copies of this licens changing it is not allowed.	Everyone is permitte	d
Preamble	e away your freedor	n ¥
☑ I <u>a</u> ccept the terms in the License Agreement	2	
Print Back	<u>N</u> ext Ca	ancel

The next step you confirm by clicking on "Next".



/ MariaDB 10.3 (x64) Setup	- 🗆 X
Custom Setup Select the way you want features to be installed.	MariaDB Server
Click the icons in the tree below to change the way	features will be installed.
▼       MariaDB Server         ●       Database instance         ○       Client Programs         Backup utilities         ●       Development Components         Third party tools         ●       HeidiSQL	Install server This feature requires 160MB on your hard drive. It has 3 of 3 subfeatures selected. The subfeatures require 49MB on your hard drive.
Location: C:\Program Files\MariaDB 10.3\	Browse
Re <u>s</u> et Disk <u>U</u> sage	Back Next Cancel

Provide a password. It will be used for the administrative user ("root") of the database server (1). Then, click "Next" (2):

🛃 User settings	– 🗆 X
Default instance properties MariaDB 10.3 (x64) database configuration	MariaDB Server
Modify password for database user 'root' New root password: Confirm: Enable access from remote machines to 'root' user Use UTF8 as default server's character set	
	Back Next 2 ancel

Confirm the next step by clicking "Next":



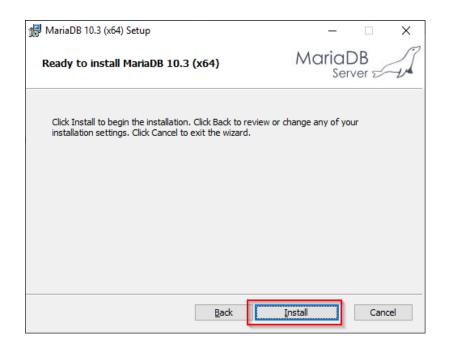
记 Database settings			_	
Default instance properties			MariaD	BR
MariaDB 10.3 (x64)	) database configuratior	י	Serv	
✓ Install as service Service Name:	MySQL			
🗹 Enable networkin	g			
TCP port:	3306			
Innodb engine s	ettings			
Buffer pool size:	1023 MB			
Page size:	16 ∨ KB			
		<u>B</u> ack	<u>N</u> ext	Cancel

Confirm the next step by clicking "Next":

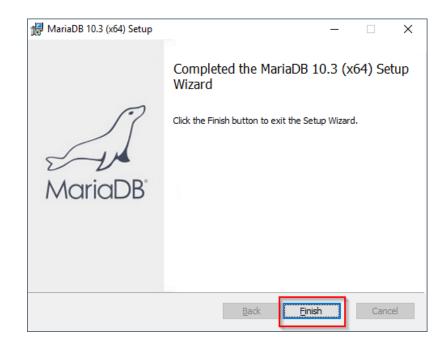
🕼 MariaDB 10.3 (x64) Setup	×
MariaDB 10.3 (x64) setup Submit usage information	MariaDB Server
Enable the Feedback plugin and submit a	nonymous usage information
Monty Program has created a Feedback plugin f collects basic anonymous statistical information. developers to improve MariaDB. Enabling this pl MariaDB development. Collected statistics, and can be viewed at http://mariadb.org/feedback_	. This information is used by the lugin is an easy way to help with more information on the plugin,
More Info	
	Back Next Cancel

Now start the installation:





When the installation is complete, exit the installer:



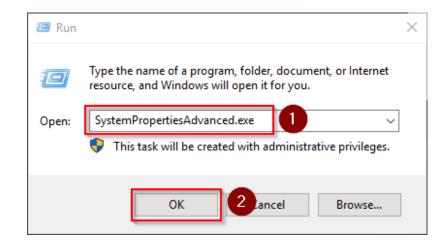
# Setting the environment variable

To use MariaDB easily on the command line of Windows, it is necessary to configure an environment variable in Windows accordingly. To do this, perform the following steps:

Enter the key combination Windows + R.

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

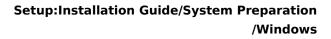




#### Click "Environment Variables":

System Propertie	25				$\times$
Computer Name	Hardware	Advanced	Remote		
You must be lo	gged on as	an Administra	tor to make most	t of these changes.	
Performance					
Visual effects	, processor s	cheduling, m	emory usage, an	nd virtual memory	
				Settings	
User Profiles					
Desktop settir	ngs related to	o your sign-in			
				Settings	
Startup and R	ecovery				
System startup	p, system fai	lure, and deb	ugging informatio	on	
				Settings	
			Enviro	onment Variables	]
		OK	Cance	el Apply	

In the bottom pane of the now opened window double-click on the line "Path":





	Value	
Path	C:\Users\Administrator\AppData\Local\Microsoft\WindowsApps;	
TEMP	C:\Users\Administrator\AppData\Local\Temp	
TMP	C:\Users\Administrator\AppData\Local\Temp	
	<u>N</u> ew <u>E</u> dit <u>D</u> elete	
ystem variables		
vstem variables Variable	Value	
	Value C:\Windows\system32\cmd.exe	
Variable		
Variable ComSpec	C:\Windows\system32\cmd.exe	
Variable ComSpec DriverData	C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData	,
Variable ComSpec DriverData NUMBER_OF_PROCESSORS	C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1	,
Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS	C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1 Windows_NT	,
Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS Path	C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1 <u>Windows_NT</u> C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;	,
Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS Path PATHEXT	C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1 <u>Windows_NT</u> C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem; .COM;.EXE;.BAT;.CMD;.VBS;.VBE;JS;JSE;.WSF;.WSF;.WSF;.MSC	

#### Click "New":

Edit environment variable	×
%SystemRoot%\system32	New
%SystemRoot%	
%SystemRoot%\System32\Wbem	<u>E</u> dit
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\	
%SYSTEMROOT%\System32\OpenSSH\	Browse
	<u>D</u> elete
	Move <u>U</u> p
	Move D <u>o</u> wn
	Edit <u>t</u> ext
	Luit Lext
OK	Cancel





Add the path to your installation of MariaDB, which contains i.a. the file mysql.exe is located. By default, this is the path C:\Program Files\MariaDB 10.3\bin .

%SystemRoot%\system32	New
%SystemRoot%	
%SystemRoot%\System32\Wbem	Edit
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\	
%SYSTEMROOT%\System32\OpenSSH\	Browse
C:\bluespice\bin\php-7.3.3	
C:\Program Files\Git\cmd	<u>D</u> elete
C\Program Files\nodejs\	
C:\Program Files\MariaDB 10.3\bin	
	Move <u>U</u> p
	Move D <u>o</u> wr
	Edit <u>t</u> ext

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

#### Next step

If you have completed all steps successfully, you can delete the previously downloaded "mariadb-10.3.13-winx64.msi" file from your hard disk and continue to the next step "OpenJDK".

# Node.js on Windows

A quality version of this page, approved on *9 June 2021*, was based off this revision.

Contents	
1 Download	
2 Installing Node.js	
3 Adjusting the Installation path of the Node.js packages	
4 Installing the Windows Build Tools	
5 Next step	





Node.js 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 plan to use them in your BlueSpice installation.

# Download



This guide uses the Node.js version 10.13.0 as an example. You can download any 10.x version of Node.js.

BlueSpice is NOT compatible with a Node.js version greater than 10.x!

In Internet Explorer, open the official website of Node.js (1). Download the latest LTS version 10. x.

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



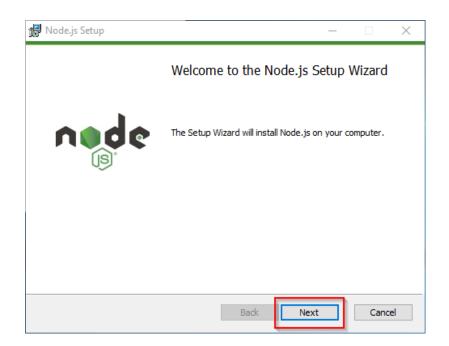
Please note that the download on your Windows Server with Internet Explorer only works if you have configured the Internet Explorer Advanced Security Settings in the Server Manager. Please refer to the technical documentation from Microsoft.

# Installing Node.js

Open the downloaded file "node-v10.13.0-x64.msi".

Start the installation by clicking "Next>":





Confirm the license (1) and click "Next >" (2):

Node.js Setup —		
Ind-User License Agreement Please read the following license agreement carefully	d	¢
Node.js is licensed for use as follows:		^
Copyright Node.js contributors. All rights reserved.		
Permission is hereby granted, free of charge, to any person obtaining	ng	
a copy of this software and associated documentation files (the		
"Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish,		
distribute, sublicense, and/or sell copies of the Software, and to		
permit persons to whom the Software is furnished to do so, subject	t	4
J accept the terms in the License Agreement		
Print Back Next	2 lan	cel



#### Confirm the further installation steps by clicking "Next >":

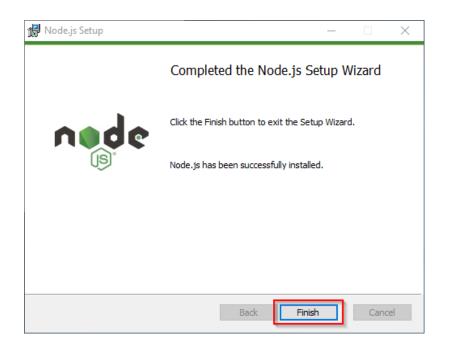
Destination Folder Choose a custom location or click Next to install.	nede	Custom Setup Select the way you want features to be installed.	nede	Tools for Native Modules Optionally install the tools necessary to comple native modules.	nede
bertal Node, ji to: C:Program Flan (todg) Danga		torn package manager     Orine documentation shortcuts     i) Add to PATH	Joud II we care tools an untime (tools area). This feature require 2240 on your face diver, 11 look 247 1 and database require 2020 on your had diver.	Sever rpm modules need to be consider from CC++ when realisting the realistic should be considered from CC++ when realistic to addite the transmission of the realistic should be the realistic should be real	i Tools) need to be instal Boxatarter and tallation completes.
Tack	Next Cancel	Reset Disk Usage	Back Next Cancel	Tack N	ext Cancel

Start the installation by clicking "Install":

🔀 Node.js Setup	_		×
Ready to install Node.js	ń	øde	•
Click Install to begin the installation. Click Back to revie installation settings. Click Cancel to exit the wizard.	ew or change any of y	our	
Back	Install	Cancel	

You can close the setup program after finishing the installation:





# Adjusting the Installation path of the Node.js packages

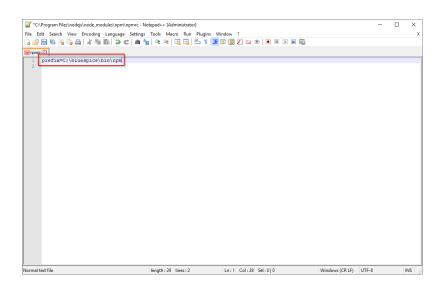
By default, Node.js installs its packages in the profile directory of the logged-in user. Since Node. js is intended solely to operate as a user-independent server application under BlueSpice, it is strongly recommended that you change the default path for these packages:

In the Node.js installation folder, open the file node\_modules\npm\npmrcin a text editor:

• -> • 🛧 📙 >	This	PC > Local Disk (C:) > Program Fil	es > nodejs > node_modules	> npm 🚺		v Ö	Search npm	م
		Name	Date modified	Туре	Size			
📌 Quick access		bin	3/12/2019 5:02 AM	File folder				
Desktop	*	changelogs	3/12/2019 5:02 AM	File folder				
🕹 Downloads 👘	*	doc	3/12/2019 5:02 AM	File folder				
Documents	*	html	3/12/2019 5:02 AM	File folder				
E Pictures	*	lib	3/12/2019 5:02 AM	File folder				
		man	3/12/2019 5:02 AM	File folder				
This PC		node modules	3/12/2019 5:02 AM	File folder				
3D Objects		scripts	3/12/2019 5:02 AM	File folder				
E Desktop		test	3/12/2019 5:02 AM	File folder				
Documents		.mailmap	8/2/2018 4:56 PM	MAILMAP File	4 KB			
🕹 Downloads		.npmignore	8/3/2018 6:00 AM	NPMIGNORE File	1 KB			
Music		.travis.yml	3/5/2019 1:14 PM	YML File	2 KB			
Pictures		appveyor.yml	8/2/2018 4:56 PM	YML File	1 KB			
Videos		AUTHORS	3/5/2019 1:14 PM	File	23 KB			
-		CHANGELOG.md	3/5/2019 1:14 PM	MD File	61 KB			
Local Disk (C:)		Configure	8/2/2018 4:56 PM	File	1 KB			
💣 Network		CONTRIBUTING.md	11/15/2018 10:29	MD File	5 KB			
		LICENSE	8/2/2018 4:56 PM	File	10 KB			
		💿 make.bat	8/2/2018 4:56 PM	Windows Batch File	1 KB			
		Makefile	8/2/2018 4:56 PM	File	6 KB			
		npmrc 2	8/2/2018 4:56 PM	File	1 KB			
		package.json	3/5/2019 1:14 PM	JSON File	8 KB			
		README.md	11/15/2018 10:29	MD File	5 KB			

Edit this file and enter the new default path for your Node.js packages:





Save the file and close the editor.



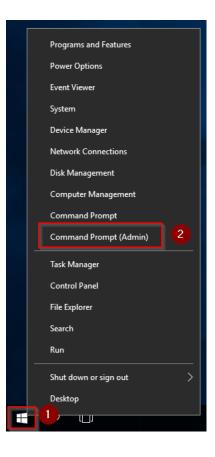
This documentation is based on the folder structure recommended by us. For this reason, the default path for the Node.js packages is set to the folder C:\bluespice\bin\npm. If you have different requirements, you must adapt these paths accordingly.

## Installing the Windows Build Tools

The Node.js package windows-build-tools is required for installing the relevant BlueSpice applications.

To install, first open the Windows command prompt as administrator. To do this, right-click "Start" (1) and select "Command Prompt (Administrator)" (2):





Execute the command "npm install --global --production windows-build-tools":

npm	-		×
crosoft Windows [Version 10.0.14393] ) 2016 Microsoft Corporation. All rights reserved.			
\Windows\system3 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ing installabl	e statu	



BlueSpice

This command may take a long time and not show any activity for a long time. However, it is still active and must not be canceled! Additionally, Windows Server may restart during the process without warning. In this case, restart the installation as described above.

After successful installation, you can close the command prompt:



Es Administrator: Command Prompt	-	<
Successfully installed Visual Studio Build Tools.		^
Successfully installed Python 2.7		
Now configuring the Visual Studio Build Tools and Python		
All done!		
+ windows-build-tools@5.0.0 updated 1 package in 968.779s		
C:\Windows\system32>		
		~

## Next step

If you have completed all steps successfully, you can delete the previously downloaded file "nodev10.13.0-x64.msi" from your hard disk and continue to the next step " Parsoid".

# **OpenJDK on Windows**

A quality version of this page, approved on 25 June 2020, was based off this revision.

Contents	
1 Introduction	44
2 Download	44
3 Unpacking the ZIP archive	45
4 Setting the environment variable	45
5 Next step	47





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.

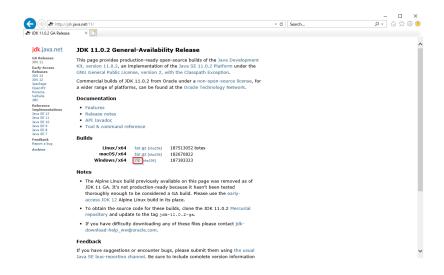
# Download

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.

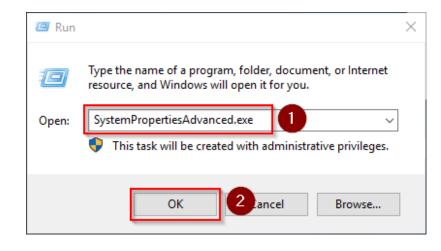
{{Template:Hint|text=This documentation is based on the [[Setup: Installation Guide/Advanced /Windows\_Folder\_Sructure | folder structure recommended by us ]. For this reason, OpenJDK is unpacked into the folder C:\bluespice\bin\jdk-11.0.2. If you have different folder requirements, you must adapt these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

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 ... ":



Variable	Value	
Path	C:\Users\Administrator\AppData\Local\Microsoft\WindowsApps;	
TEMP	C:\Users\Administrator\AppData\Local\Temp	
тмр	C:\Users\Administrator\AppData\Local\Temp	
	New Edit Delete	
stem variables		
rstem variables Variable	Value	
Variable	Value	
Variable ComSpec	Value C:\Windows\system32\cmd.exe	
Variable ComSpec DriverData	Value C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData	
Variable ComSpec DriverData NUMBER_OF_PROCESSORS	Value C:\Windows\system32\cmd.exe C:\Windows\System32\Driver\DriverData 1	
Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS	Value C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1 Windows_NT	
Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS Path	Value 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	
Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS Path PATHEXT	Value 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	

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: Variable <u>v</u> alue:	JAVA_HOME C:\bluespice\bin\jdk-11.0.2 2	
Browse Directory	3 Browse <u>File</u> OK 4 ncel	

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".

# **PHP 7.3 on Windows**

A quality version of this page, approved on 2 August 2021, was based off this revision.

# BlueSpice

# Contents

1	Introduction	49
2	Downloading PHP	49
3	Unzipping the ZIP archive	50
	Setting the environment variable	
5	Checking the environment variable	53
6	Configuring IIS for PHP	54
7	Next step	62



The source code of BlueSpice is based on the scripting language "PHP". It must be installed on your server in order to operate BlueSpice. The steps listed here are required.

# Introduction

PHP is not installed with a "classic installation package", but the sources are downloaded and integrated in IIS via the previously installed PHP Manager.

# **Downloading PHP**

In your browser, open the official download page for Windows on php.net (1). Find the latest version 7.3.x (2) 64-bit (3) Thread-Safe (4) and download it here (5):

C C C C C C C C C C C C C C C C C C C	Noad 🚺 - 👜 Ć 🛛 Search	- ₽- @☆@
РНР: Ну	portext Preprocessor	
	Home Downloads QA Releases Snapshots Team PHP.net site	
PHP For Windows This site is dedicated to supporting PHP on Microsoft Windows. It also supports ports of PHP extensions or features as well as providing special	Binaries and sources Releases Select an option to direct access v	
builds for the various Windows architectures. If you like to build your own PHP binaries, instructions can be found	PHP 7.3 (7.3.3) 2 Download source code (25.66MB)	
on the <u>Wiki</u> .	VC15 x64 Non Thread Safe (2019-Mar-07 01:55:08)     Zie [24.248]	
PECL For Windows PECL extensions for Windows is being worked on. Windows DLL can	eha256: 561b7279dc0b373d9591ddcc55d29bb3d4c49f482837cf26e60332618e5630b6 • Cebug-Pack [22.83M6]	
be downloaded right from the PECL website.	sha256: 05552b6b339e229c13c6ce63c08a6ecd76d910cf110c8b9944b5f06c231a0f0e 3 4	
The PECL extension release and <u>snapshot</u> build directories are browsable directly.	VCI5 <mark>/641/hread Safe</mark> 2019-Mar-07 01:55:24) • 2019 - 591 sh256: 594a886c515ed65836e24a8be43bae21d890912ff19632314524a06cd1080	
	Debug Pack [22.91MB]	

Follow the download instructions.



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.



The following is PHP version 7.3.3 and is only an example of the latest version 7.3.x that you can download at the time of your installation.



# Unzipping the ZIP archive

Unzip the ZIP archive just downloaded into a useful system path on your hard drive.



BlueSpice

This documentation assumes the recommended folder structure.

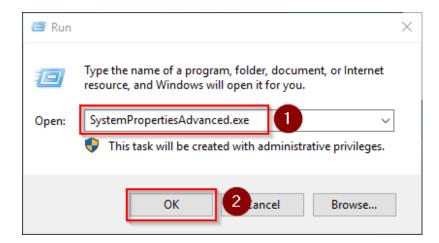
For this reason PHP will be unpacked into the folder C:\bluespice\bin\php-7.3.3. If you have a different folder structure, you must adapt these paths accordingly.

## Setting the environment variable

In order to use PHP easily on the command line of Windows, it is necessary to configure an environment variable in Windows accordingly. To do this, perform the following steps:

Enter 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.	
Visual effects, processor scheduling, memory usage, and virtual memory	
Settings	
User Profiles	1
Desktop settings related to your sign-in	
Settings	
Startup and Recovery System startup, system failure, and debugging information	
Settings	
Environment Variables	
OK Cancel Apply	

In the lower part of the now opened window double-click on the line "Path":



	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	
	Value
Variable	Value C:\Windows\system32\cmd.exe
Variable ComSpec	
Variable ComSpec DriverData	C:\Windows\system32\cmd.exe
Variable ComSpec DriverData NUMBER_OF_PROCESSORS	C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData
Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS	C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1
Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS Path	C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1 Windows_NT
Variable ComSpec DriverData NUMBER_OF_PROCESSORS OS Path PATHEXT	C:\Windows\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 1 <u>Windows_NT</u> C:\Windows\system32;C:\Windows\System32\Wbem;
stem variables Variable 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;.WSF;.MSC

#### Click "New":

Edit environment variable	×
%SystemRoot%\system32	New
%SystemRoot%	
%SystemRoot%\System32\Wbem	Edit
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\	
%SYSTEMROOT%\System32\OpenSSH\	Browse
	<u>D</u> elete
	· · · · ·
	Move <u>U</u> p
	Move D <u>o</u> wn
	WOVE Down
	Edit <u>t</u> ext
	-
ОК	Cancel

Add the path to your unpacked PHP version, which contains the php.exe file:



Edit environment variable	×
%SystemRoot%\system32	New
%SystemRoot%	
%SystemRoot%\System32\Wbem	Edit
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\	
%SYSTEMROOT%\System32\ C:\bluespice\bin\php-7.3.3	<u>B</u> rowse
C:\bitespice\bit\php-7.5.5	<u>D</u> elete
	Move <u>U</u> p
	Move D <u>o</u> wn
	Edit <u>t</u> ext
ОК	Cancel

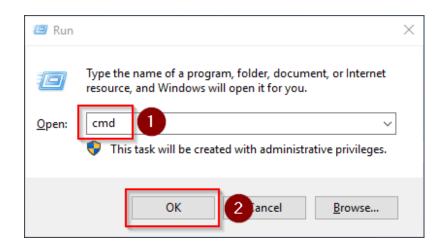
Close all newly opened windows one after the other by clicking on "OK".

## Checking the environment variable

To make sure the environment variable is set correctly, perform the following steps:

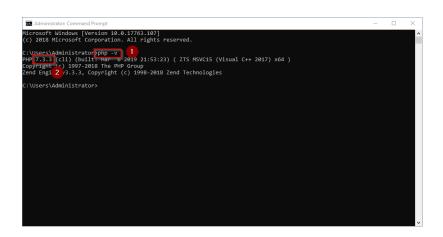
Enter the key combination Windows+R.

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



At the command prompt, type "php -v" (1) and press the Enter key. The found PHP version will be displayed (2).





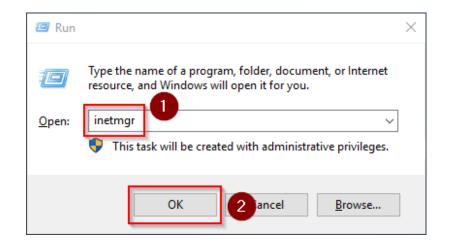
If this is not the case, then the path to the php.exe file in the environment variables was incorrectly specified.

# Configuring IIS for PHP

In the following steps, PHP will be included in IIS and IIS will be configured to provide a working basic setup:

First, call IIS Manager. To do this, enter the key combination Windows+R.

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

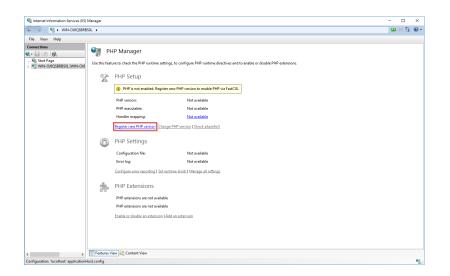


In the left pane, select your server name (1) and then double-click "PHP Manager" (2):



	RRBSOL >	🗰 🖂 🟠 (
File View Help		
The View Help sourcestone ↓ ■ ↓ ⊕ ↓ ↓ ⊕ ↓ ⊕ ↓ ⊕ ↓ ⊕ ↓ ⊕ ↓ ⊕ ↓ ⊕ ↓ ⊕ ↓ ⊕ ↓ ⊕	Authentic CGI Compression Default Directory Enrir Papes EnuCGI Handler HTTE BAPInd Logging Decurrent Browsing Settings Mepping Regen CG Restri Logging MME Types Modules Output PPP Repett Server Wolker	Action: Manage Server Provide Control of the service of the serv

Click "Register new PHP version":



In the following window select the browse "(...)" button:

Register new PHP version		?	×
Provide a path to the php executable file	(php-cgi.exe):		
Example: C:\PHP\php-cgi.exe			_
	ОК	Cancel	

To manage the PHP settings in the next window:



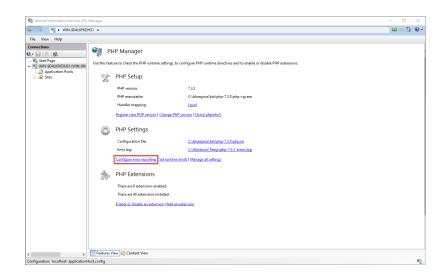
Change to the path to which you previously unzipped PHP (1), mark the "php-cgi.exe" (2) and confirm the dialog with "Open" (3):

Select PHP executable file						$\times$
← → × ↑ 🔒 > Thi	s PC > Local Disk (C:) > blu	Jespice > bin > php-7.3.3		✓ ひ Search ph	p-7.3.3	,c
Organize 🔻 New folde						0
🖺 Documents 🖈 ^	Name	Date modified	Туре	Size		
📰 Pictures 🛛 🖈	dev	3/6/2019 2:41 PM	File folder			
This PC	ext	3/6/2019 2:41 PM	File folder			
3D Objects	extras	3/6/2019 2:49 PM	File folder			
Desktop	lib	3/6/2019 2:41 PM	File folder			
	sasl2	3/6/2019 2:41 PM	File folder			
Documents	php php-cgi	3/6/2019 2:41 PM	Application	72 KB		
Downloads						
b Music						
Pictures						
Videos						
Local Disk (C:)						
🖆 CD Drive (D:) SSS						
×						
File <u>n</u> a	me:			PHP exec	utable (php-cgi.exe)	~
				<u>O</u> pe	n Cance	1 

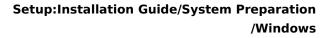
Confirm again with "OK":

Register new PHP version	?	$\times$
Provide a path to the php executable file (php-cgi.exe):		
C:\bluespice\bin\php-7.3.3\php-cgi.exe		
Example: C:\PHP\php-cgi.exe		
ОК	Cancel	

Click on "Configure error reporting":



Activate the item "Production machine" (1) and select a path and a file of your choice where PHP should save its log (2). Confirm with "Apply" (3):





😋 🕥 🛛 😫 🕨 WIN-9D4LKFKI	DHS1 >	🖼 🔟 🚺 🛛
File View Help		
Gamerologia 	Type of sover         Sets as sover put how ill influence, how the errors will be reported and fogged.         Opendigment machine.         This is a development machine. A webcise error reporting will be used. All errors, warning and the loss of the loss o	Image: Second secon



This documentation assumes the recommended folder structure. If the path you specify here does not yet exist, please create it before clicking "Apply".

#### Click "Manage all settings":

Internet Information Services (II	S) Manager			
← → 📲 ► WIN-0J8Q588	RBSOL +			🗰 🖂 🔂 (
File View Help				
Connections ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,	Un this fact	IP Manager ure to check the PHP runtime se	ttings, to configure PHP runtime directives and to enable or disable PHP extensions.	
	2	PHP Setup		
		Not optimal PHP configu 0	ration detected on this machine. <u>View recommendations.</u>	
		PHP version:	7.2.11	
		PHP executable:	C:\bluespice\bin\php+7.2.11\php+cgi.exe	
		Handler mapping:	Local	
		Register new PHP version   Ch	ange PHP version   Check phpinfo()	
	0	PHP Settings		
		Configuration file:	C:\bluespice\bin\php-7.2.11\php.ini	
		Error log:	Chbluespicehvarhloghphp-7.2.11 errors.log	
		Configure error reporting   Set	rantime limits. Manage all settings	
	*	PHP Extensions		
		There are 8 extensions enable	d.	
		There are 40 extensions instal	led.	
		Enable or disable an extension	Add an extension	
>	Features V	iew 🚉 Content View		
nfiguration: 'localhost' applicatio				

#### Adjust the following settings:

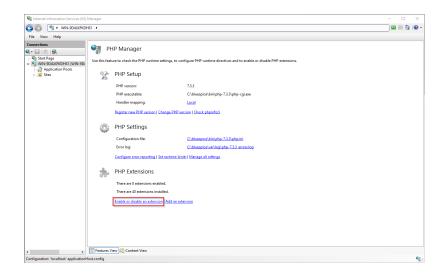
Name	Value	Section
date.timezone	"Europe/Berlin" or your timezone	Date
uale.timezone	or your timezone	Date
max_execution_time	600	PHP
post_max_size	128M	PHP
upload_max_filesize	128M	PHP



To find these options faster, you can also use the filter (1). Go back afterwards (2):

2 I NIN-OJBQSBRB:	SOL >			🖬 🔤 🟠
ile View Help	-			Actions
• 🗔 🖄 😣	PHP Settings			Add
Start Page				Open php.ini
> S WIN-OJ8QSBRBSOL (WIN-OJ8			ng control all aspects of PHP runtime, such error reporting, security, sessions and others.	Back to main page
	Filter	- Show All   Group by:	Section •	
	Name	Value	Section	A Help
	PHP		*	
	allow_url_fopen	On	PHP	
	allow_url_include	Off	PHP	
	auto_append_file		PHP	
	auto_globals_jit	On	PHP	
	auto_prepend_file		PHP	
	cgi.fix_pathinfo	1	PHP	
	cgi.force_redirect	0	PHP	
	default_charset	"UTF-8"	PHP	
	default_mimetype	"text/html"	PHP	
	default_socket_timeout	60	PHP	
	disable_classes		PHP	
	disable_functions		PHP	
	display_errors	Off	PHP	
	display_startup_errors	Off	PHP	
	doc_root		PHP	
	enable_dl	Off	PHP	
	engine	On	PHP	
	error_log	"C:\bluespice\var\log\php-7	PHP	
	error_reporting	E_ALL & ~E_DEPRECATED	PHP	
	expose_php	On	PHP	
	extension_dir	"C:\bluespice\bin\php-7.2.11	PHP	
	fastcgi.impersonate	1	PHP	
	fastcgi.logging	0	PHP	
	file_uploads	On	PHP	
	html_errors	Off	PHP	
	innore reneated errors	Off	PHD	~

In the main window, click "Enable or disable an extension":



Make sure that the following extensions are enabled:



C 😫 🛛 WIN-9D4LKFKDF	151 /		) 🖬 🔟 🚹 I
File View Help			
Connections	I PHP Exten	sions	Actions
🖓 🔒 🖄 😣	PHP Exten	sions	Add
VIN-9D4LKFKDHS1 (WIN-9D4	PHP extensions provide a	Enable	
<ul> <li>WIN-9D4LKFKDHS1 (WIN-9D4</li></ul>	PHP extensions and to co	Open php.ini	
	Filten	• 🐨 Go - 🖵 Show All   Group by: State •	🔶 Back to main page
/ Second	Name	State	Help
	Enabled		
	php_curl.dll	Enabled	
	php_fileinfo.dll	Enabled	
	php_gd2.dll	Enabled	
	php.gettext.dll	Enabled	
	php_intl.dll	Enabled	
	php_mbstring.dll	Enabled	
	php_mysqli.dll	Enabled	
	php_openssl.dll	Enabled	
	php_soap.dll	Enabled	
	php_tidy.dll	Enabled	
	php_xmlrpc.dll	Enabled	
	Disabled	*	
	php_bz2.dll	Disabled	
	php_com_dotnet.dll	Disabled	
	php_dba.dll	Disabled	
	php_enchant.dll	Disabled	
	php_exif.dll php_ftp.dll	Disabled	
	php_mp.dll	Disabled	
	php_gmp.dll php_imap.dll	Disabled	
	php_interbase.dll	Disabled	
	php_interoase.un	Disabled	
	php oci8 12c.dll	Disabled	
	php_odbc.dll	Disabled	
	php opcache.dll	Disabled	

To activate an extension, select it in the "Disabled" section (1) and activate it by clicking on "Enable" (2):

→ ♥ WIN-0J8QSBRB	50L +		🔛 🖂 🟠
File View Help			
onnections V III 2018 V III 2018 VIN-OJ8QSBRBSOL (WIN-OJ8	PHP Exten: PHP extensions provide av PHP extensions and to co	Sions difficult functionality to PHP nuttime, such as database connectivity, caching, debugging and others. Use this feature to enable or disable ingure PHP extensions settings.	Actions Add Enable 2 Open php.ini
- 2 Application Pools	Filter	• T Go - T Show All   Group by: State	💠 Back to main page
	Name           Chabled         php. (sinted. all php. spit.ed. all php.ed. all php. spit.ed. all php.ed. all p	Sate  Sate Sate	€ Hop
	php_odbc.dll php_opcache.dll	Disabled Disabled	
	nho ndo firehird.dll	Disabled	

In the next step, expand the tree on the left until the "Default Web Site" becomes visible:

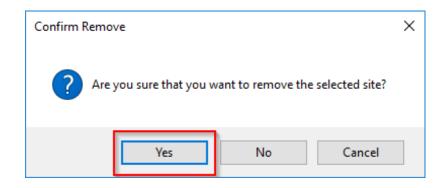


← →  ♦ WIN-0J8QSBRBS	iOL + Sites +					🖬 🖂 🟠 🔞
File View Help						
File York Help Conservations Let I be the second	File: File: Harre Ordewit Web Site	ID	- C Show A Status Started (ht	1 Group by: No Grouping • Ending *B0 (http)	Path SúystenDivetNinetpub/www.root	Kon And Website Set Website Defaults Help
	🔟 Features View 💦 🕻	ontent View				

Right-click (1) and then click "Remove" (2):

	ISOL + Sites +				 <b>1</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Add A Add V Edit B Mana V Refres Renar	Name III P Defut Web Ste T e ermissions pplication irtual Directory ndings p Website > h h re	) Status	t Group by: No Grouping • Einding =40 (http:)	Path XiyytamDriveXiinstpubiwwww.root	Actions

Confirm the following dialog with "Yes":



Right-click on "Sites" (1) and click on "Add Website" (2):



← →  i > WIN-0.8QSBR	DOUL > Sittes >			🗰 🔤 🖥				
File View Help				Actions				
ionnections .• 🔜 🖄 😣 - Start Page	Sites							
PolicicaBESSA, (WH-OulicaBESSA, (WH-OulicaBESSA, (WH-OulicaBESSA, (WH-OulicaBESSA, (WH-OulicaBESSA, WH-OulicaBESSA, WH-O	Name ID	Status Binding	Path	e Help				
ady >	Features View 💦 Content View							

Enter the site name "BlueSpice" (1) and select the path on your server where your BlueSpice installation will be located later (2). Confirm with "OK" (3):

Add Website	?	Х
Site name: Application pool:		
BlueSpice BlueSpice Select		
Content Directory		
Physical path:		
C:\bluespice\var\www Pass-through authentication		
Connect as Test Settings		
Binding		
Type: IP address: Port:		
http      All Unassigned     80		
Host name:		
Example: www.contoso.com or marketing.contoso.com		
Start Website immediately		
ОК 3	Cancel	



This documentation assumes the recommended folder structure. If the path you specify here does not yet exist, please create it before clicking "OK".



The new page is now listed in the IIS overview page:

ile View Help						
nnections	<b>A 1</b>					Actions
• 🗟 🖄 🥵	Sites					🥩 Add Website
Start Page WIN-OJ8QSBRBS0L (WIN-OJ8	Filter	- 3	Go 🕞 🥁 Show	All Group by: No Group	ing •	Set Website Defaults
Application Pools	Name	ID	Status	Binding	Path	😢 Help
Generation      Generation	BlueSpice	1	Started (ht	*:80 (http)	C:\bluespice\var\www	
	Features View					

# Next step

If you have successfully completed all these steps, you can proceed to the next step " MariaDB".

# **PHP Manager on Windows**

A quality version of this page, approved on *2 August 2021*, was based off this revision.

# Contents

1	Download	63
2	Installing PHP Manager	64
3	Next step	65





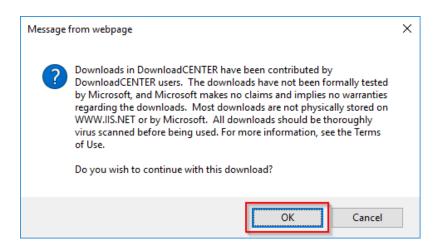
PHP Manager conveniently integrates PHP into your IIS installation. The steps listed here are required.

# Download

In Internet Explorer, open the official download page on iis.com (1). Click "Download this extension" (2).

(i) This site uses of	cookies for analytics, p	ersonalized contenand a	ids. By continuing	to browse this site, you	agree to this use.			Learn more	•
Microsoft					Search all of IIS.NET		٩	Sign In	Join
IS Home	Manage	Downloads	Learn	Reference	Solutions	Blogs	Forums		
Il Downloads Comn	nunity Contributed	Downloads Microsof	t Supported Dov	wnloads Free Web	Platform Installer				
me > Downloads > Cor	mmunity Contributed	Downloads > PHP Manage	ar 1.5.0 for IIS 10						
ome > Downloads > Cor	mmunity Contributed	Downloads > PHP Manage	er 1.5.0 for IIS 10						
ome > Downloads > Cor	mmunity Contributed I	Downloads > PHP Manage	er 1.5.0 for IIS 10						
		-	er 1.5.0 for IIS 10						
'HP Manager	1.5.0 for IIS	-	er 1.5.0 for IIS 10		his extension	2			
ome + Downloads + Cor PHP Manager This is a Community Cont	1.5.0 for IIS	-	er 1.5.0 for IIS 10		his extension	2			
This is a Community Cont	1.5.0 for IIS tributed Download	10	er 1.5.0 for IIS 10			2			
HP Manager This is a Community Cont	1.5.0 for IIS tributed Download	-	er 1.5.0 for IIS 10			9			
HP Manager This is a Community Cont Category icense	1.5.0 for IIS tributed Download Host App Free	10	er 1.5.0 for IIS 10			2			
HP Manager This is a Community Cent ategory iccense upported by	1.5.0 for IIS tributed Download Host App Free Knowled	10 Dications, Manage	er 1.5.0 for IIS 10			0			
HP Manager This is a Community Cont Category icense imported by Vorks With	1.5.0 for IIS tributed Download Free Knowled IIS 7, IIS 7	10 Nications, Manage ge base, Forums				2			
'HP Manager	1.5.0 for IIS tributed Download Free Knowled IIS 7, IIS 7	10 dications, Manage ge base, Forums 7.5, IIS 8, IIS 8.5, IIS 10 ager 1.5.0 for IIS 10 Doct				2			

Confirm the following dialog with "OK":



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

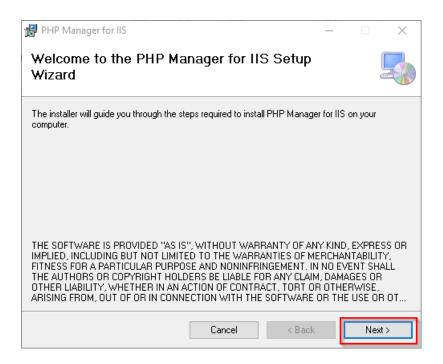


Please note that the download on your Windows server with Internet Explorer only works if you have configured the Internet Explorer Advanced Security Settings in the Server Manager. Please note the technical documentation from Microsoft.

# Installing PHP Manager

Open the downloaded PHPManagerForIIS\_V1.5.0.msi file.

Start the installation by clicking "Next >":



Confirm the license (1) and click on "Next >" (2):



🔀 PHP Manager for IIS 🦳 —		$\times$
License Agreement		
Please take a moment to read the license agreement now. If you accept the terms Agree'', then ''Next''. Otherwise click ''Cancel''.	below, click	μ
The MIT License (MIT)		^
Copyright (c) 2016 Ronald Carter		
Permission is hereby granted, free of charge, t person obtaining a copy of this software and associated documentation f	-	
(the "Software"), to deal in the Software without restriction, including		;
limitation the rights		~
O I Do Not Agree		
Cancel < Back 2	Next>	

The installation is now executed and completed without further confirmation. You can close the setup program when finished:

🔀 PHP Manager for IIS	_		$\times$
Installation Complete			
PHP Manager for IIS has been successfully installed.			
Click "Close" to exit.			
Please use Windows Update to check for any critical updates to the .NET	Framewo	ork.	
Cancel < Back		Cl	ose

# Next step

If you have completed all steps successfully, you can delete the previously downloaded "PHPManagerForIIS\_V1.5.0.msi" file from your hard disk and continue to the next step "PHP 7.3".



# **Installing Parsoid on Windows**

A quality version of this page, approved on 4 November 2021, was based off this revision.

# Contents

1	Installing Parsoid	67
2	Creating the configuration file	68
3	Parsoid installation and configuration check	68
4	Installation as a service	69
5	Next step	72



Ð

Parsoid is the rendering service for the Visual Editor. The steps listed here are optional and only required if you want to use Visual Editor in your BlueSpice installation. After your BlueSpice Installation, you still have to activate VisualEditor.



For the installation and operation of Parsoid, Git and Node.js are required. If you have not installed them yet, follow the links that are provided here.

# Installing Parsoid

**Important!** Please make sure to use the correct version of Parsoid during installation. The currently supported version is Parsoid 0.10.0.

1. First, open the Windows Command Prompt as administrator. To do this, right-click "Start" (1) and select "Command Prompt (Administrator)" (2):



2. Change into the directory C:\bluespice\bin\npm\node\_modules and execute the command:



npm install --global parsoid

3. Change into the parsoid directory C:\bluespice\bin\npm\node\_modules\parsoid:

cd parsoid

4. Execute the command:

npm install

Keep the command prompt open and complete the next steps.

# Creating the configuration file

In the BlueSpice codebase you will find two files in the folder extensions /BlueSpiceVisualEditorConnector/docs/parsoid :

- config.yaml
- localsettings.js

Copy them into the folder C:\bluespice\bin\npm\node\_modules\parsoid\.

File Home Shar	e View				$\sim$
> 1 <mark>· 📙</mark> « L	ocal Disk (C:) > bluespice > bin > npm	> node_modules > parsoid	1 ් Searc	h parsoid	J
^	Name	Date modified	Туре	Size	
📌 Quick access	eslintianore	10/26/1985 1:15 AM	ESLINTIGNORE File	1 KB	
📃 Desktop 🛛 🖈	eslintrc	10/26/1985 1:15 AM	ESLINTRC File	2 KB	
👆 Downloads 🖈		10/26/1985 1:15 AM	GITREVIEW File	1 KB	
🗎 Documents 🖈	.nsprc	10/26/1985 1:15 AM	NSPRC File	1 KB	
📰 Pictures 🛛 🖈	.travis.yml	10/26/1985 1:15 AM	YML File	1 KB	
This are	AUTHORS.txt	10/26/1985 1:15 AM	Text Document	1 KB	
This PC	CODE_OF_CONDUCT.md	10/26/1985 1:15 AM	MD File	1 KB	
3D Objects	config.example.yaml	10/26/1985 1:15 AM	YAML File	5 KB	
E Desktop	config.yaml	3/11/2019 5:06 PM	YAML File	1 KB	
Documents	COPYING.txt	10/26/1985 1:15 AM	Text Document	18 KB	
🕹 Downloads	core-upgrade.js	10/26/1985 1:15 AM	JavaScript File	1 KB	
Music	HISTORY.md	10/26/1985 1:15 AM	MD File	13 KB	
Pictures	jsdoc.json	10/26/1985 1:15 AM	JSON File	3 KB	
Videos	S localsettings.example.js	10/26/1985 1:15 AM	JavaScript File	1 KB	
SLat	🖉 localsettings.js 🛛 🕄	3/11/2019 5:06 PM	JavaScript File	1 KB	
Local Disk (C:)	npm-shrinkwrap.json	10/26/1985 1:15 AM	JSON File	100 KB	

This provides an already finished configuration of Parsoid, which should work in the standard setup without further iadjustments.

#### Parsoid installation and configuration check

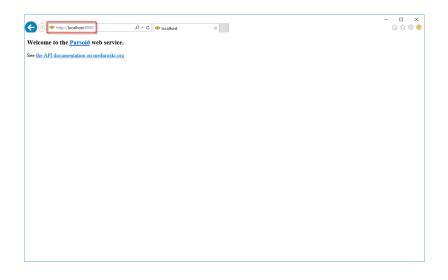
To test the installation and configuration, go back to the command prompt.



Change into the directory C:\bluespice\bin\npm\node\_modules\parsoid (1) and start the service with the command "node bin\server.js" (2):

Administrator: Command Prompt - node bin\server.js	-		×
crosoft Windows [Version 10.0.14393]			
) 2016 Microsoft Corporation. All rights reserved.			
\Windows\system32>cd \bluespice\bin\npm\node_modules\parsoid			
\bluespice\bin\npm\node_modules\parsoid_node_bin\server.js name":"parsoid","hostname":"WIN-038Q58R859L_, pid :4044, iev.2_30,"levelPath":"info/service-runner","	msg":"	master	(404
<pre>initializing 2 workers","time":"2018-11-1519:00:57.8362","0""10} name":"lib/index.js","hostname":"WIN-038Q58R850L","pid":4516,"level":30,"levelPath":"info","msg":"load 018.11-15170:01:01.00392","0":10</pre>	ling	.","ti	me"
name":"lib/index.js","hostname":"WIN-0J8QSBRBS0L","pid":4516,"level":30,"levelPath":"info","msg":"read :"2018-11-15T19:01:01.234Z","v":0}	ly on ::	8000",	"tin
name":"lib/index.js","hostname":"\UN-OJ8QSBRBS0L","pid":520,"level":30,"levelPath":"info","msg":"loadi 18-11-15T19:01:03.673Z","v":0}			
name":"lib/index.js","hostname":"WIN-OJ8QSBRBS0L","pid":520,"level":30,"levelPath":"info","msg":"ready "2018-11-15T19:01:03.767Z","v":0}			
name":"parsoid","hostname":"WIN-OJ8QSBRB50L","pid":4044,"level":40,"levelPath":"warn/service-runner"," shed","time":"2018-11-15T19:01:03.806Z","v":0}	msg":"	Startu	pf:

The service should now start without an error message. For further review, call the URL " http://localhost: 8000" in Internet Explorer. You should see the following page:



Change back to the command prompt and quit Parsoid by pressing "Ctrl+C". Keep the command prompt open and go to the next step.

#### Installation as a service

To run Parsoid in the background in the future, you need to install Parsoid in a Windows service. To do this, proceed as follows:

In the command prompt, change to the directory "C:\bluespice\bin\npm" (1) and execute the command "npm install node-windows" (2):



📾 Administrator: Command Prompt	-		<
4) initializing 2 workers", "time":"2018-11-15T19:00:57.8362", "v":0} {"name":"lib/index.js", "hostname": "WIN-030258R850L", "pid":4516, "level":30, "levelPath":"info", "msg":"loading "2018-11-1519:01:01.0982", "v":0}	;",	"time"	î
<pre>2010-11-1319:01:01:0362, y 05; {"name":"lib/index.js", 'hostname":"WIN-0J8QSBRBS0L","pid":4516,"level":30,"levelPath":"info","msg":"ready ( e":"2018-11-15T19:02:01.2342","v":0}</pre>	n :800	00","ti	
{"name":"lib/index.js","hostname":"WIN-038Q5BRB50L","pid":520,"level":30,"levelPath":"info","msg":"loading 2018-11-15719:01:03.673Z","v":0}			
<pre>{("name":"lib/index.js","hostname":"WIN-0J8Q58R850L","pid":520,"level":30,"levelPath":"info","msg":"ready or ":"2018-11-1519:01:03.767Z","v":0} ("name":"parsoid","hostname":"WIN-0J8Q58R850L","pid":4044,"level":40,"levelPath":"warn/service-runner","msj</pre>			
nished","time":"2018-11-15T19:01:03.806Z","v":0} {"name":"parsoid","hostname":"WIN-038Q5BRBS0L","pid":4044,"level":30,"levelPath":"info/service-runner/mastr			
ter shutting down, killing workers","time":"2018-11-15T19:07:38.8002","v":0} {"name":"parsoid","hostname":"WIN-03005888501","pid":4044,"level":30,"levelPath":"info/service-runner/mast ting master","time":"2018-11-15T19:07:38.8182","v":0}	er","ms	g":"Ex:	
C:\bluespice\bin\npm\node_modules\parsoid cd C:\bluespice\bin\npm			
C:\bluespice\bin\npm inpm install node-windows npm <mark>WARN</mark> saveError E <del>NSENT, no such file on directo</del> ry, open 'C:\bluespice\bin\npm\package.json'			
npm <mark>MARN encent ENCENT: no such file or direct 2</mark> , open 'C:\bluespice\bin\npm\package.json' npm MARN npm No description npm MARN nom No repository field.			
npm <mark>WARN</mark> npm No README data npm <mark>WARN</mark> npm No license field.			
+ node-windows@0.1.14 added 3 packages from 8 contributors in 9.488s			
C:\bluespice\bin\npm>			~

Using a text editor, create the file "C:\bluespice\bin\npm\node\_modules\parsoid\ parsoid.service" with the help of this linked content:

parsoid.service - Notepad	_		×	
File Edit Format View Help				
<pre>var Service = require('node-windows').Service;</pre>			,	~
<pre>// Create a new service object var svc = new Service({     name:'Parsoid Web Service',     description: 'Parsoid Web Service for MediaWiki',     script: 'C:\\bluespice\\bin\\npm\\node_modules\\parsoid\\bin });</pre>	n/\se	rver.	js'	
<pre>// Listen for the "install" event, which indicates the // process is available as a service. svc.on('install',function(){    svc.start(); });</pre>				
<pre>svc.install();</pre>				4
<			>	

In the command prompt, change into the directory "C:\bluespice\bin\npm\node\_modules\ parsoid" (1) and execute the command "node parsoid.service" (2):

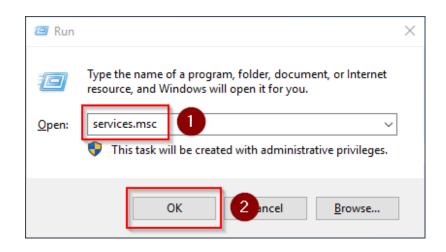
Administrator: Command Prompt	- 🗆 ×
":"2018-11-15719-81:41.2342","""-0) "name":"1b/164e.3;5","Nostname":"INI-038Q58R850L","pid":520,"level":30,"levelPath":"1 018-11-15719-81:83.6732","V"-0) "name":"1b/164e.3;5","Nostname":"INI-038Q58R850L","pid":520,"level":30,"levelPath":"1 "2018-11-15719:01:83.7672","V"-0) "name":"1b/164","fib/163.7672","V"-0) "name":"2018-11-15719:01:83.8662","V:16","pid":4044,"level":40,"levelPath":"info/ "name":"parsoid","hostname":"NIN-038Q58R850L","pid":4044,"level":40,"levelPath":"info/ "name":"parsoid","hostname":"NIN-038Q58R850L","pid":4044,"level":30,"levelPath":"info/ "name":"parsoid","hostname":"NIN-038Q58R850L","pid":4044,"level":30,"levelPath":"info/ "name":"parsoid","hostname":"NIN-038Q58R850L","pid":4044,"level":30,"levelPath":"info/ "name":"parsoid","hostname":"NIN-038Q58R850L","pid":4044,"level":30,"levelPath":"info/ "name":"parsoid","hostname":"NIN-038Q58R850L","pid":4044,"level":30,"levelPath":"info/ "name":"parsoid","hostname":"NIN-038Q58R850L","pid":4044,"level":30,"levelPath":"info/	nfo","msg":"ready on :8000","time 'service-runner","msg":"Startup fi 'service-runner/master","msg":"mas
:\bluespice\bin\npm\node_modules\parsoid>cd C:\bluespice\bin\npm	
:\bluespice\bin\npm>npm install node-windows pm MEAN_saveError ENDENT: no such file or directory, open 'C:\bluespice\bin\npm\package pm MEAN_soneert ENDENT: no such file or directory, open 'C:\bluespice\bin\npm\package.j pm MEAN_npm No description pm MEAN_npm No repository field. pm MEAN_npm No license field.	
node-windows@0.1.14 dded 3 packages from 8 contributors in 9.488s	
:\bluespice\bin\npm\cd C:\bluespice\bin\npm\node_modules\parsoid	
::\bluespice\bin\npm\node_modules\parsoid>node parsoid.service	
C:\bluespice\bin\npm\node modules\parsoid>	

You can now close the command prompt.



Then enter the key combination Windows+R.

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



Find the service "Parsoid Web Service" and open it with a double-click:

Services File Action View	Help					- 0	)
Services (Local)	O Services (Local)						
	Select an item to view its description.	Name	Description	Status	Startup Type	Log On As	
	Select an item to view is description.	KtmRm for Distributed Tran			Manual (Trig	Network S	
		Link-Layer Topology Discov			Manual Manual	Local Service	
		Local Session Manager	Core Windo	Running	Automatic	Local Syste	
		Microsoft (R) Diagnostics H		Kunning	Manual	Local Syste	
		Microsoft Account Sign-in			Manual (Trig	Local Syste	
		Microsoft App-V Client			Disabled		
		Microsoft iSCSI Initiator Ser	Manages A Manages In		Manual	Local Syste Local Syste	
		Microsoft Passport	-				
			Provides pr		Manual (Trig	Local Syste Local Service	
		Microsoft Passport Container			Manual (Trig		
		Microsoft Software Shadow			Manual Manual	Local Syste	
		Microsoft Storage Spaces S	Host service			Network S	
		Mozilla Maintenance Service	Der Mozilla		Manual	Local Syste	
		Net.Tcp Port Sharing Service	Provides abi		Disabled	Local Service	
		Q Netlogon	Maintains a		Manual	Local Syste	
		Network Connection Broker	Brokers con	Running	Manual (Trig	Local Syste	
		Network Connections	Manages o		Manual	Local Syste	
		Network Connectivity Assis			Manual (Trig	Local Syste	
		Network List Service	Identifies th	Running	Manual	Local Service	
		Network Location Awareness		Running	Automatic	Network S	
		Network Setup Service	The Networ		Manual (Trig	Local Syste	
		Network Store Interface Ser		Running	Automatic	Local Service	
		Offline Files	The Offline		Disabled	Local Syste	
		Optimize drives	Helps the c		Manual	Local Syste	
		Arsoid Web Service	Parsoid We		Automatic	Local Syste	
		Performance Counter DLL	Enables rem		Manual	Local Service	
		🍓 Performance Logs & Alerts	Performanc		Manual	Local Service	
		A Phone Service	Manages th		Manual (Trig	Local Service	
		🥋 Plug and Play	Enables a c	Running	Manual	Local Syste	
		Approximation Provide Antheory Portable Device Enumerator	Enforces gr		Manual (Trig	Local Syste	
		Nower 2010	Manages p	Running	Automatic	Local Syste	
		🖏 Print Spooler	This service	Running	Automatic	Local Syste	

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



Parsoid W	/eb Servio	ce Properties (Local Computer)	×
General	Log On	Recovery Dependencies	
Service	name:	parsoidwebservice.exe	
Display	name:	Parsoid Web Service	
Descript	tion:	Parsoid Web Service for MediaWiki	4
	executable espice\bin	e: \npm\node_modules\parsoid\bin\daemon\parsoidwebs	er
Startup	ty	Automatic	<ul> <li></li> </ul>
			-
Service	status:	Stopped	
S	itart	2 op Pause Resume	
You car from her		he start parameters that apply when you start the service	
Start pa	rameters:		
		OK 3 Icel Apply	/

In Internet Explorer, check the URL "http://localhost:8000", as already explained in the previous step, whether the Parsoid service started successfully.

## Next step

If you have completed all steps successfully, you can proceed to the next step " Python".

# Parsoid-Service Installation File "parsoid.service"

A quality version of this page, approved on *2 August 2021*, was based off this revision.

This is the content for the file "parsoid.service". You can find detailed information on the Parsoid documentation page:

```
var Service = require('node-windows').Service;
// Create a new service object
var svc = new Service({
    name:'Parsoid Web Service',
    description: 'Parsoid Web Service for MediaWiki',
    script: 'C:\\bluespice\\bin\\npm\\node_modules\\parsoid\\bin\\server.js'
});
```



## Installing and configuring PhantomJS on Windows

A quality version of this page, approved on *12 October 2020*, was based off this revision.

#### Contents

1	DownloadS	74
2	Installing PhantomJS	75
3	Configuring BlueSpice	75
4	Finishing the system preparation	75



PhantomJS is a so-called headless browser that can render screenshots of web pages. This is required for the web page preview in Advanced Search and the Recent Changes Overview in your BlueSpice installation. These are functionalities of BlueSpice pro. For this purpose, the steps listed here are reqired for BlueSpice pro.

#### DownloadS

In Internet Explorer, open the official website of the project (1). Click "Install" (2).

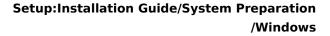
🕒 🛞 🔝 📶 🖉 D - 🛱 d 🔒 Phartonyl - Scriptale Hex. X	×
PhantomJS - Scriptable Headless Browser	
Important: PhantomJS development is suspended until further notice (more details).	
PhantomJS is a headless web browser scriptable with JavaScript. It runs on Windows, macOS, Linux, and FreeBSD.	
Using QtWebKit as the back-end, it offers fast and native support for various web standards: DOM handling, CSS selector, JSON, Canvas, and SVG.	
The following simple script for PhantomJS loads Google homepage, waits a bit, and then captures it to an image.	
<pre>ver.pqs -rempt/_stage_).creat(); pgs_roper(tht/micing)(.exc(i)) ( satisfiend(function)) ( rpgs_roper(tht/micing)); rpgs_roper(tht/micing)); }; };</pre>	
Phantom/S is an optimal solution for:	
Descention           Access webpages and extract information using the standard DOM APL or with usual libraries like jQuery.           Screen capture           Programmatically capture web contents, including SVG and Canves. Create web site screenshots with thumbnail preview.           Headless website testing           Run functional tests with finemeworks such as Jamine, QUrik, Mocha, WebDirker, etc.           Hetwork monotoring           Monitor page leading and export as standard HAR files. Automate performance analysis using YSlow and Jenkins.	
Ready to play with PhantomJS[Instal] = (2) llow the Quick Start guide.	
Want to learn more? Read the FAQ, explore more examples, and study the complete <u>API documentation</u> .	
For the source code, issue tracker, and other development information, visit github.com/ariya/phantomjs.	
C 2010-2018 Phantomic combinators. Distributed under the ISD Torene (RDR: ISD: 2. Cleared)	

Download the appropriate ZIP archive for Windows.

- G	2 @ <del>0</del>
Download PhantomJS	^
New to PhantomJS? Read and study the <u>Quick Start</u> guide.	
Windows	
Downlose phantomjs:2.1.1-windowszip ( <sup>1</sup> 7.4 MB) and extract (unzip) the content.	
The executable phantomys.exe is ready to use.	
Note: For this static build, the binary is self-contained with no external dependency. It will run on a fresh install of Windows Vista or later versions. There is no requirement to install Qt, WebKit, or any other libraries.	
Mac OS X	
Download phantomis-21.1_macosx.zip (16.4 MB) and extract (unzip) the content.	
Note: For this static build, the binary is self-contained with no external dependency. It will run on a fresh install of OS X 10.7 (Lion) or later versions. There is no requirement to install Qt or any other libraries.	
Linux 64-bit	
Download phantomis-21.1-linux-386 64.tar.brz (22.3 MB) and extract the content.	
Note: For this static build, the binary is self-contained. There is no requirement to install QL WebRit, or any other libraries. It however still relies on Fontconfig (the package Tourcourty, or libfontconfig, depending on distribution). The system must have GUBCOC(3.49 and GUBC_2.7.	the
Linux 32-bit	
Download phantomis-2.1.1-linux-i686.tar.bz2 (23.0 M8) and extract the content.	
Note: For this static build, the binary is self-contained. There is no requirement to install QL WebRit, or any other libraries. It however still relies on Fontconfig (the package Fontconfig) or Tarforsconfig), depending of the distribution). The system must have GUBCOC3.4.9 and GUBC 2.7.	on
FreeBSD	
Binary packages are available via pkg:	
\$ sudo phg install phantomjs	
Source Code	
To get the source code, check the official git repository: github.com/ariya/ghantomjs.	
To compiled Phantom/S from source (not recommended, unless it is absolutely necessary), follow the build instructions.	~



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.





BlueSpice

In this guide, we use PhantomJS version 2.1.1 as an example. You can download the latest version at the time of installation.

#### Installing PhantomJS

PhantomJS does not need to go through a setup process. Unpack the downloaded ZIP archive. In the folder phantomjs-3.1.1-windows\bin you will find the executable file phantomjs.exe.

```
Simply move tit to C:\bluespice\bin .
```

{{Template:Hint|text=This guide is based on the folder structure recommended by us [[Setup: Installation Guide/Advanced/Windows Folder Structure|recommended by us]. For this reason, the default path to the folder C:\bluespice\bin is set here. If you have other requirements, you must adapt these paths accordingly.}}

#### **Configuring BlueSpice**

BlueSpice must have knowledge of the location of phantomjs.exe. After the BlueSpice installation, proceed as follows:

- 1. Open the folder of your BlueSpice installation
- 2. Switch to the subfolder settings.d
- 3. In this subfolder, create a new file named 090-PhantomJS.php
- 4. Fill this file with the following content:

#### <?php

Contents

\$bsgArticlePreviewCapturePhantomJSExecutable = "C:\\bluespice\\bin\\phantomjs.exe";

#### Finishing the system preparation

If you have completed all steps successfully, you can now continue with installing BlueSpice.

## **Installing Python on Windows**

A quality version of this page, approved on 25 October 2021, was based off this revision.

## 

# BlueSpice

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

io dic		
2	Installing Python	78
3	Installing Pygmentize	79
4	Next step	80



Python with the extension Pygmentize is needed for the rendering of the MediaWiki extension "SyntaxHighlight", which is part of BlueSpice. The steps listed here are required.

#### **Downloading Python**

In Internet Explorer, open the official download page (1). Switch to the download page for Windows (2).

🤁 þýu			Donate Search	GO Socia
Dov Looki Linux, Want Docke	vnload Python 3.10.0 ng for Python with a different O (UNIX, marOS, Other to help test development versio er images	ons of Python? <u>Prereleases</u> ,		
Active Python				
Active Python For more informati				
Active Python	Releases		End of support	Release schedule
Active Python For more informati	Releases	Guide.	End of support 2020-10	Release schedule FEP 019
Active Python For more informati Python version	Releases ion visit the Python Developer's Maintenance status	Guide. First released		
Active Python For more informati Python version 3.10	Releases ion visit the Python Developer's Maintenance status bugitx	Guide. First released 2022-10-04	2026-10	PEP 619
Active Python For more informati Python version 3.10 3.9	Releases Maintenance status bugtix bugtix	Guide. First released 2022-10-04 2020-10-05	2026-10 2025-10	PEP 619 PEP 596
Active Python For more informati Python version 3.10 3.9 3.8	Releases Naintenance status bugitx bugitx security	Guide. First released 2021-10-04 2020-10-05 2020-10-05 2020-10-14	2026-10 2025-10 2024-10	PEP 619 PEP 596 PEP 509

Select the "executable installer" (64-bit):

O Python.org/downloads/windows/	] 🕕	
	Download Windows help file	Download Windows x86 web-based installer
	<ul> <li>Download Windows Installer (32-bit)</li> </ul>	<ul> <li>Python 3.9.0rc2 - Sept. 17, 2020</li> </ul>
	<ul> <li>Download Windows installer (64-bit)</li> </ul>	Download Windows help file
	<ul> <li>Python 3.9.1 - Dec. 7, 2020</li> </ul>	<ul> <li>Download Windows x86-64 embeddable zip file</li> </ul>
	Note that Python 3.9.1 cannot be used on Windows 7 or earlier.	<ul> <li>Download Windows x86-64 executable installer</li> </ul>
	<ul> <li>Download Windows embeddable package (32-bit)</li> </ul>	<ul> <li>Download Windows x86-64 web-based installer</li> </ul>
	Download Windows embeddable package (64-bit)	<ul> <li>Download Windows x86 embeddable zip file</li> </ul>
	Download Windows help file	<ul> <li>Download Windows x86 executable installer</li> </ul>
	Download Windows installer (32-bit)	<ul> <li>Download Windows x86 web-based installer</li> </ul>
	<ul> <li>Download Windows Installer (64-bit)</li> </ul>	<ul> <li>Python 3.5.10rc1 - Aug. 22, 2020</li> </ul>
	<ul> <li>Python 3.9.0 - Oct. 5, 2020</li> </ul>	<ul> <li>No files for this release.</li> </ul>
	Note that Python 3.9.0 cannot be used on Windows 7 or earlier.	<ul> <li>Python 3.9.0rc1 - Aug. 11, 2020</li> </ul>
		<ul> <li>Download Windows help file</li> </ul>
	<ul> <li>Download Windows help file</li> </ul>	<ul> <li>Download Windows x86-64 embeddable zip file</li> </ul>
	<ul> <li>Download Windows x86-64 embeddable zip file</li> </ul>	<ul> <li>Download Windows x86-64 executable installer</li> </ul>
	Download Windows x86-64 executable installer     2	<ul> <li>Download Windows x86-64 web-based installer</li> </ul>
	<ul> <li>Download Windows x86-64 web-based installer</li> </ul>	<ul> <li>Download Windows x86 embeddable zip file</li> </ul>
	<ul> <li>Download Windows x86 embeddable zip file</li> </ul>	<ul> <li>Download Windows x86 executable installer</li> </ul>
	<ul> <li>Download Windows x86 executable installer</li> </ul>	<ul> <li>Download Windows x86 web-based installer</li> </ul>
	<ul> <li>Download Windows x86 web-based installer</li> </ul>	<ul> <li>Python 3.9.0b5 - July 20, 2020</li> </ul>
	<ul> <li>Python 3.8.6 - Sept. 24, 2020</li> </ul>	<ul> <li>Download Windows help file</li> </ul>
	Note that Python 3.8.6 cannot be used on Windows XP or earlier.	<ul> <li>Download Windows x86-64 embeddable zip file</li> </ul>

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



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.





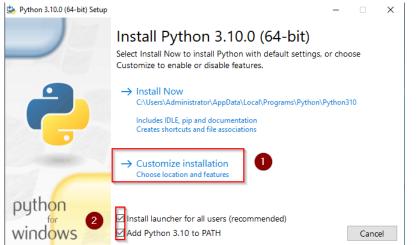
In this guide, Python is used in version 3.10.0 as an example. You can download the latest version at the time of installation.

### **Installing Python**

Open the just-downloaded python-3.10.0-amd64.exe file.

Start the installation by clicking "Next".

Confirm both checkboxes (1) and then click "Customize installation" (2):



#### Confirm the next step with "Next":

🄄 Python 3.10.0 (64-bit) Setup	– 🗆 X
	Optional Features
	☑ Documentation
	Installs the Python documentation file.
	🗹 pip
	Installs pip, which can download and install other Python packages.
	☑ tcl/tk and IDLE
	Installs tkinter and the IDLE development environment.
	✓ Python test suite
	Installs the standard library test suite.
	🗹 py launcher 🛛 for all users (requires elevation)
	Upgrades the global 'py' launcher from the previous version.
python	
python windows	
windows	Back Next Cancel

Make sure to install Python for all users (1). Choose an appropriate path, if possible without spaces and special characters (2), and start the installation by clicking "Install" (3).

BlueSpice MediaWiki			Se	tup:Ir
嬦 Python 3.10.0 (64-bit) Setup		_		×
	Advanced Options Install for all users Associate files with Python (requires the py launcher) Create shortcuts for installed applications Add Python to environment variables Precompile standard library Download debugging symbols Download debug binaries (requires VS 2017 or later)			
python windows	Customize install location C:\bluespice\bin\python3.10.0 Back		Brows	



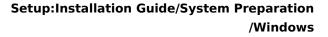
This documentation is based on the folder structure recommended by us. For this reason, the default path for Python installation is set to the folder C:\bluespice\bin\python-3.10.0. If you have different requirements, you must adapt these paths accordingly.

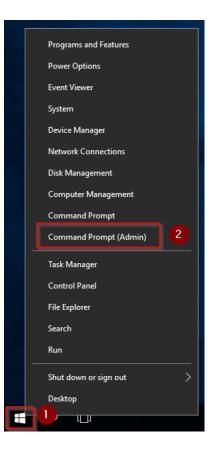
#### Finish the installation by clicking "Close":

🄄 Python 3.10.0 (64-bit) Setup	—	$\times$
	Setup was successful	
-	New to Python? Start with the <u>online tutorial</u> and <u>documentation</u> . At your terminal, type "py" to launch Python, or search for Python in your Start menu.	
C	See <u>what's new</u> in this release, or find more info about <u>using</u> <u>Python on Windows</u> .	
python windows		
wind <mark>ows</mark>		lose

#### **Installing Pygmentize**

Open the command prompt with admin permissions. To do this, right-click "Start" (1) and select "Command Prompt (Administrator)" (2):





Enter the command "*pip install pygments*" and wait for the process to finish:



**Important!** The pygmentize binary needs to be executable by the webserver user (see installation instructions for SyntaxHighlight).

#### Next step

BlueSpíce

If you have completed all steps successfully, you can delete the previously downloaded file "python-3.10.0-amd64.exe" from your hard drive. If you install BlueSpice pro, go to the next step "PhantomJS". If you install BlueSpice free, you can now continue with Installing BlueSpice.



## Setup:Installation Guide/System Preparation/Windows/Visual C++ Redistributable for Visual Studio 2015

A quality version of this page, approved on *25 June 2020*, was based off this revision.

#### Contents

1	Download at Microsoft	82
2	Installing Visual C++ Redistributable for Visual Studio 2015	83
3	Next step	84



The installation of Visual C ++ Redistributable for Visual Studio 2015 is required to run PHP in version 7.x on Windows. The steps listed here are required.

#### Download at Microsoft

In Internet Explorer open the Microsoft download page (1). Select your language (2) and click "Download" (3).

C	- □ × 命命®
A fast and secure browser that's designed for Windows 10	No thanks Get started
Microsoft Download Center Windows Office Web browsers	Developer tools Xbox More $\smile$ All Microsoft $\sim$ , O $\overline{\!$
New Surface Pro 6 Stand out from the ordinary SHOP NOW >	
Visual C++ Redistributable for Visual Studio 2015	
Important/Selecting a language below will dynamically change the complete page content t Select Language 20 English	o that language.

On the following page, select the 64-bit version (1) and click "Next" (2):

🗲 🛞 👫 https://www.microse	oft.com/en-us/dowr 🎗 👻 🗎 C	nload Visual C++ Redi	is×		- □ × 分分缀 <sup>(1)</sup>
Choose the do	wnload you want				Sign in 🛞
File Name			Size		
vc_redist.x64.exe			13.9 MB	Download Summary: KBMBGB	
vc_redist.x86.exe			13.1 MB	1. vc_redistx64.exe	
				Total Size: 13.9 MB	
					2 Next
Important! Selecting a la					

Follow the additional download instructions and download the installation package to your hard drive.

Please note that the download on your Windows Server with Internet Explorer will only work if

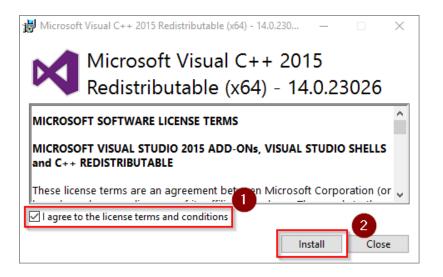


you have configured the Internet Explorer Advanced Security Settings in the Server Manager. Please refer to the technical documentation from Microsoft.

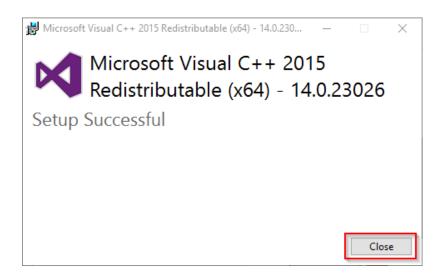
#### Installing Visual C++ Redistributable for Visual Studio 2015

Open the downloaded file "vc\_redist.x64.exe".

Start the installation by confirming the license (1) and by clicking on "Install" (2):



The installation is now executed and completed without further confirmation. You can close the setup program when finished:





#### Next step

If you have completed all steps successfully, you can delete the previously downloaded file "vc\_redist.x64.exe" from your hard drive and proceed to the next step "PHP Manager".