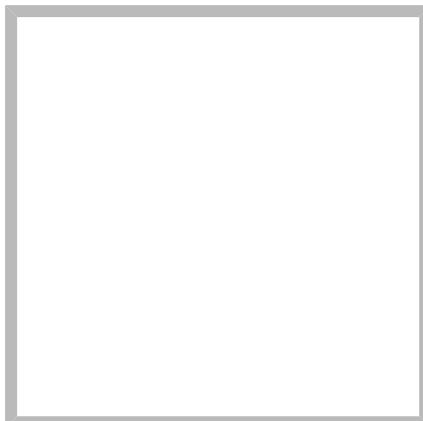


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User:Mmeixner



Name Mmeixner

Template:User

Mmeixner Created 3 years and 9 months ago

Name Mmeixner

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Mmeixner edited the article **Setup:Installation Guide /System Preparation/Windows/Git** Created 3 years and 9 months ago

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Mmeixner edited the article [Setup:Installation Guide /Installation BlueSpice WikiFarm](#) Created 3 years and 9 months ago

Mmeixner edited the article [Setup:Installation Guide /Upgrade free to pro](#) Created 3 years and 9 months ago

Setup:Installation Guide/Installation BlueSpice WikiFarm

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

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3 Creating the necessary folders for BlueSpiceWikiFarm	4
4 Creating the LocalSettingsAppend.php	4
5 Configuring the web server	5
6 Completion	5

An existing BlueSpice pro installation can easily be extended with BlueSpiceWikiFarm. The existing installation assumes the role of the main wiki (=farm management). The contents remain there and can be maintained as usually.

Note: WikiFarm is not a standard feature of BlueSpice pro and needs to be acquired separately.

PHP prerequisites

Please ensure that the PHP extension ZIP is archived, which is required for BlueSpiceWikiFarm.

Ensuring the correct path in the file system

Important for the operation of BlueSpiceWikiFarm is that BlueSpice is located in the directory `/w` of the DocumentRoot of your web server or VirtualHost.

If this is not the case, you have to move the entire codebase there.

After that, the variable `$wgScriptPath` in the `LocalSettings.php` contains the path `/w`.

```
$ wgScriptPath = "/w";
```

Creating the necessary folders for BlueSpiceWikiFarm

BlueSpiceWikiFarm needs two additional folders in the folder `/w` at the same level as the `LocalSettings.php`. You have to create these two folders:

- `_sf_instances` - all data and configurations for the respective instances are stored here
- `_sf_archive` - deleted farm instances including your database dump are stored here as ZIP archive

Make sure that these folders are writable by the web server. See also our ([notes in the helpdesk](#)) for this purpose.

Creating the LocalSettingsAppend.php

Including the extension "BlueSpiceWikiFarm" first requires an additional configuration file with the name `LocalSettingsAppend.php`. Create this file on the same level as the `LocalSettings.php` and add the following content:

```
<?php  
require_once "$IP/LocalSettings.BlueSpice.php";
```

== Including the extension "BlueSpiceWikiFarm" == In the `LocalSettings.php` replace the line

```
require_once "$IP/LocalSettings.BlueSpice.php";
```

with

```
require_once "$IP/extensions/BlueSpiceWikiFarm/BlueSpiceWikiFarm.php";
```

Configuring the web server

In the folder `extensions/BlueSpiceWikiFarm/SimpleFarmer/doc` you will find example files for RewriteRules, which are necessary for BlueSpiceWikiFarm:

- `htaccess.template` - RewriteRules for Apache
- `web.config.template` - RewriteRules for IIS

Configure these RewriteRules for the DocumentRoot level of your Web server or VirtualHost.

Completion

The installation of BlueSpiceWikiFarm is now complete. From now on, you can reach the farm administration in the main wiki under the special page "Special:SimpleFarmer".

Apache Tomcat on Windows

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

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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.



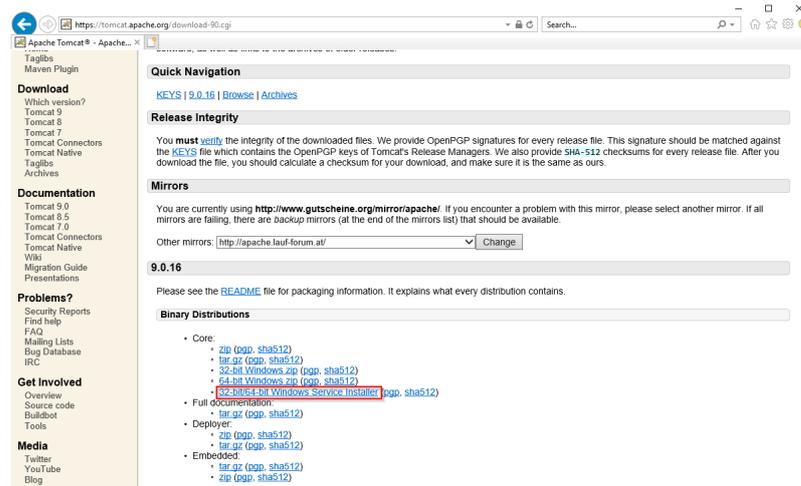
Operation of Apache Tomcat requires [OpenJDK](#). If you have not installed it, follow the link above.

Download

Open the [official download page](#) (1) in your browser and go to the [version 9 \(2\)](#) download page.

The screenshot shows the Apache Tomcat website in a browser. The address bar shows 'http://tomcat.apache.org'. The page title is 'Apache Tomcat®'. The main content area has a search bar and a 'GO' button. Below the search bar, there are several sections: 'Apache Tomcat' with a description, 'Download' with a sub-section 'Which version?' where 'Tomcat 9' is highlighted with a red box and a '2' in a red circle, 'Documentation', and 'Problems?'. The 'Download' section also features two news items: 'Tomcat 7.0.93 Released' dated 2019-02-21 and 'Tomcat 9.0.16 Released' dated 2019-02-08. The 'Tomcat 9.0.16 Released' section lists updates to the Tomcat Native Library and memory leak fixes.

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



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

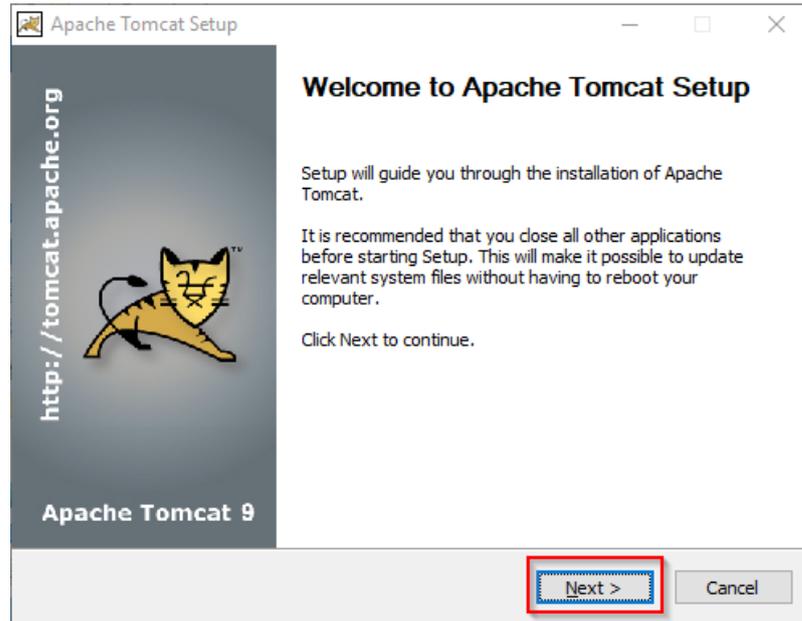


This guide uses version 9.0.16 of Apache Tomcat and is just an example of the latest version that you can download at the time of installation.

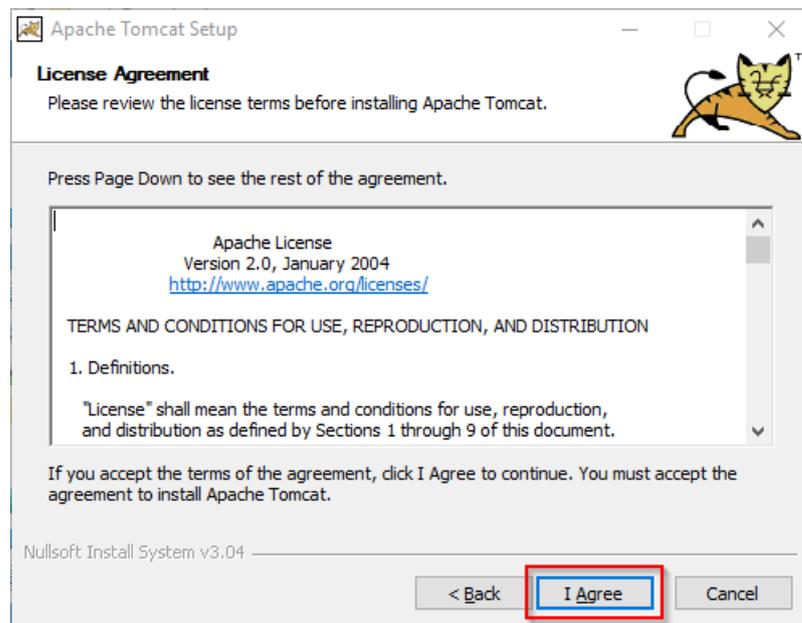
Installing Apache Tomcat

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

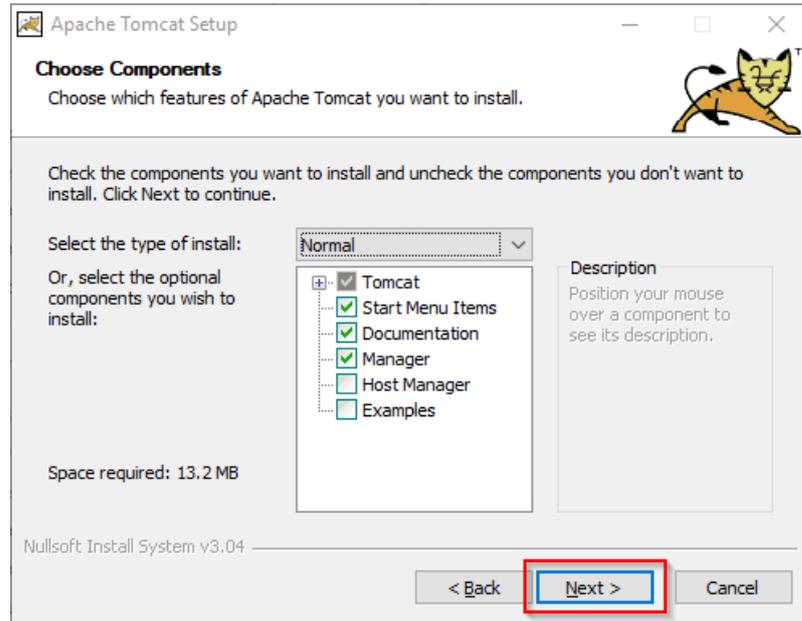
Start the installation by clicking "Next >":



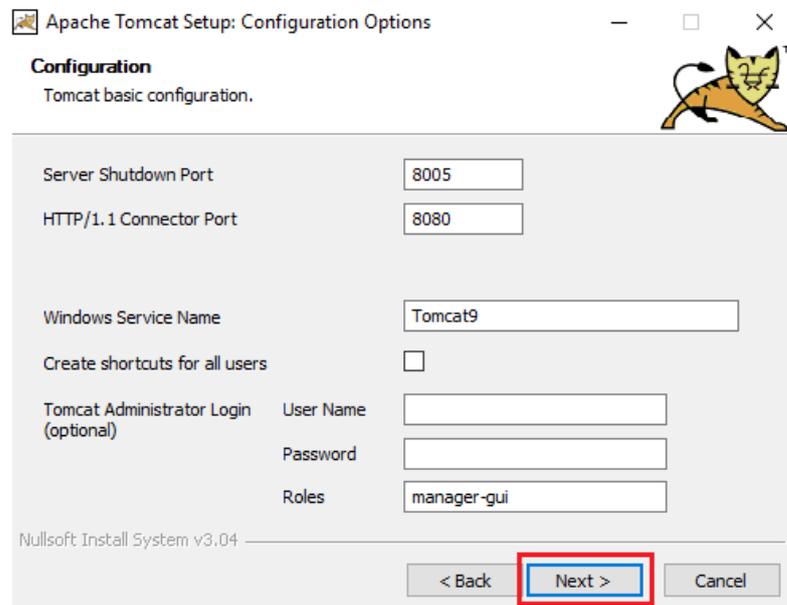
Confirm the license agreement by clicking "I Agree":



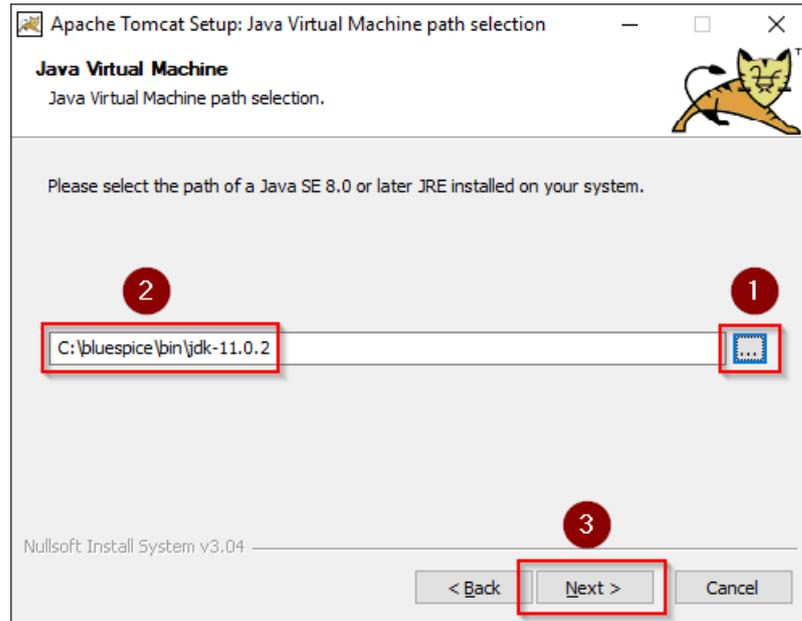
Click "Next >":



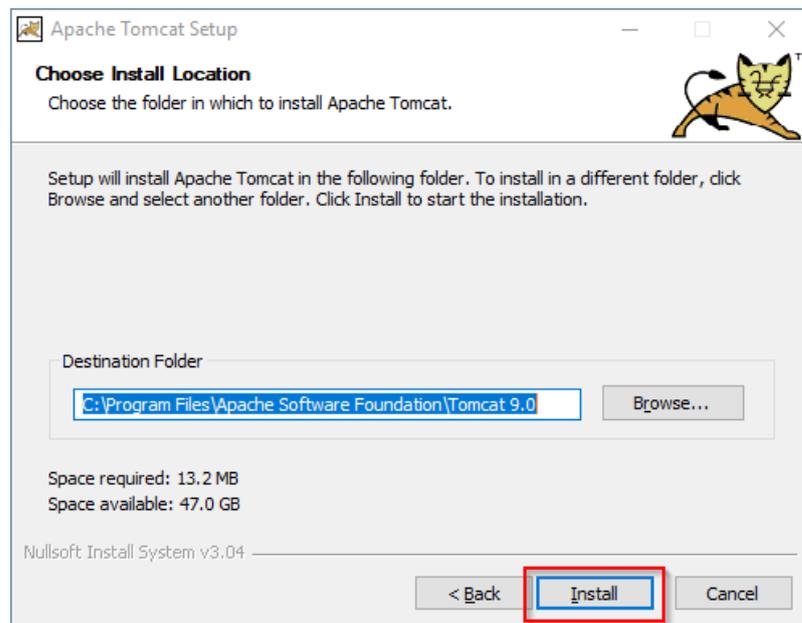
Click "Next >" again:



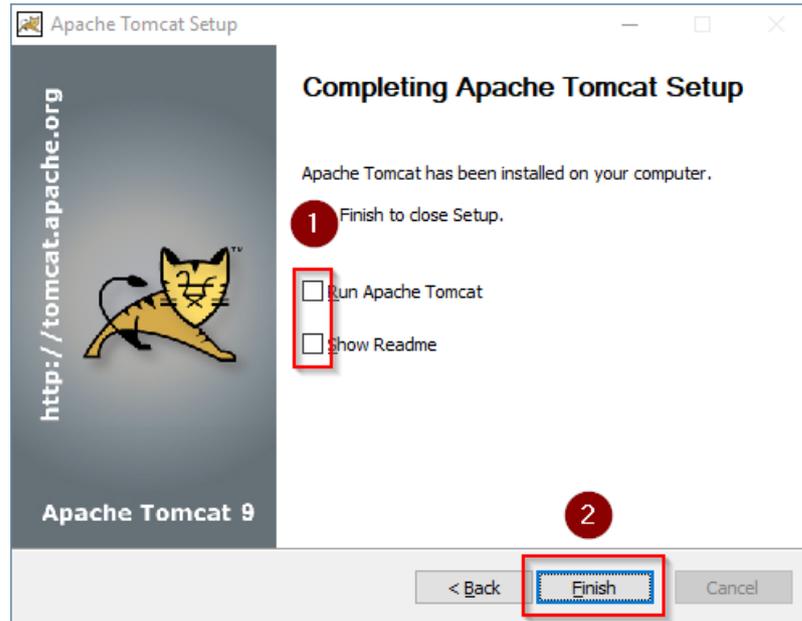
Select (1) the home directory of your [OpenJDK Installation](#) (2) and click "Next>" (3):



Start the Tomcat Installation:



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



Configuring Apache Tomcat

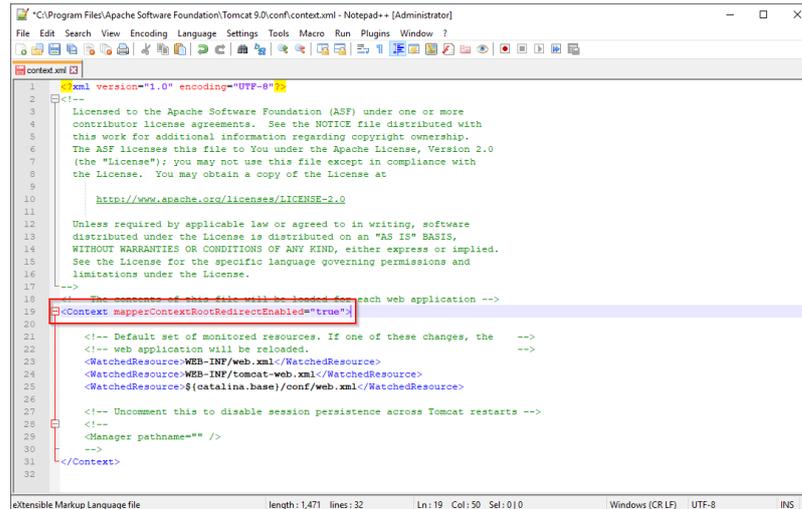
Change to the installation directory of Tomcat. By default, you can find it at `C:\Program Files\Apache Software Foundation\Tomcat 9.0\conf`.

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

```
<Context>
```

with

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



```

1  <?xml version="1.0" encoding="UTF-8" ?>
2
3  <!-- Licensed to the Apache Software Foundation (ASF) under one or more
4  contributor license agreements. See the NOTICE file distributed with
5  this work for additional information regarding copyright ownership.
6  The ASF 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
8  the License. You may obtain a copy of the License at
9
10     http://www.apache.org/licenses/LICENSE-2.0
11
12  Unless required by applicable law or agreed to in writing, software
13  distributed under the License is distributed on an "AS IS" BASIS,
14  WITHOUT WARRANTIES OR CONDITIONS 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  -->
19  <Context mapperContextRootRedirectEnabled=true" />
20
21  <!-- Default set of monitored resources. If one of these changes, the
22  <!-- web application will be reloaded. -->
23  <WatchedResource>WEB-INF/web.xml</WatchedResource>
24  <WatchedResource>WEB-INF/tomcat-web.xml</WatchedResource>
25  <WatchedResource>${catalina.base}/conf/web.xml</WatchedResource>
26
27  <!-- Uncomment this to disable session persistence across Tomcat restarts -->
28  <!--
29  <Manager pathname="" />
30  -->
31  </Context>
32

```

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"
... />

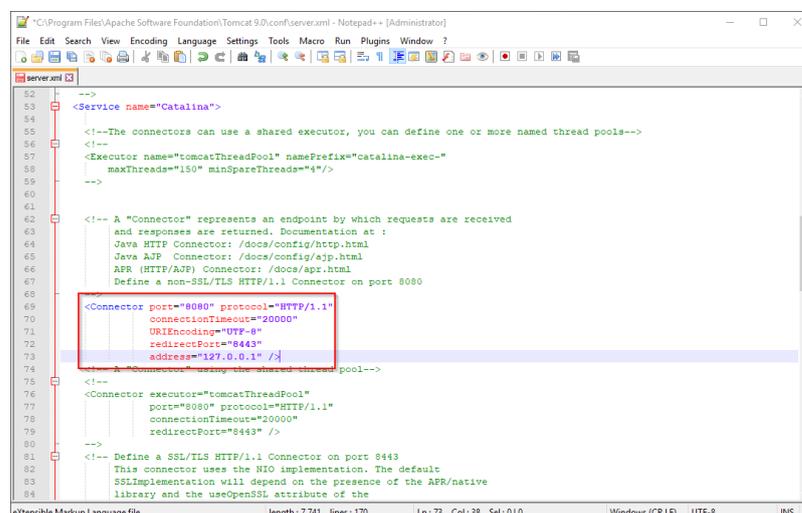
```

looks like this:

```

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

```



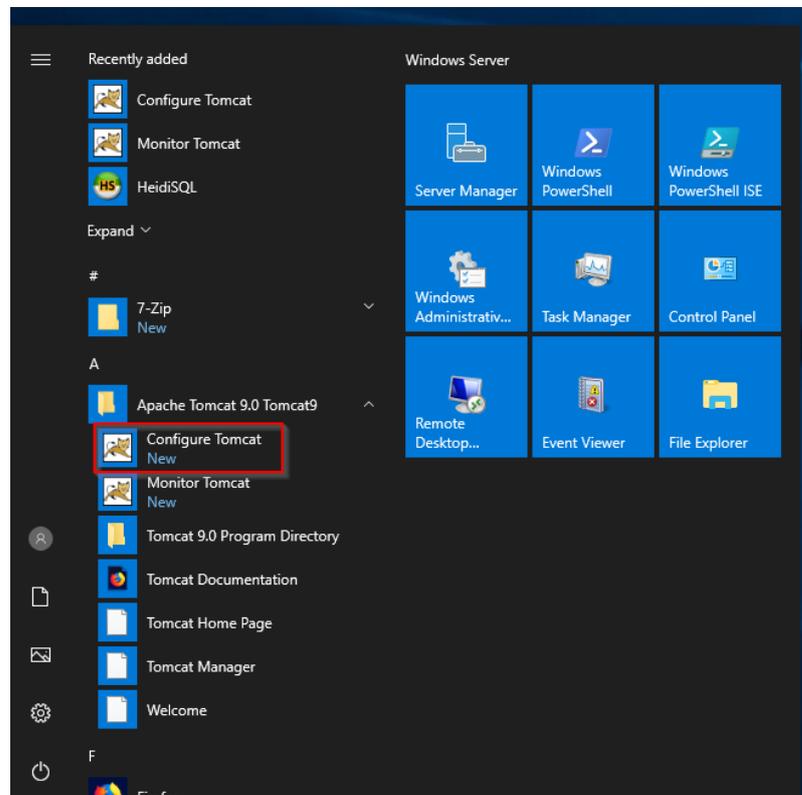
```

52  <!-->
53  <Service name="Catalina">
54
55  <!-- The connectors can use a shared executor, you can define one or more named thread pools-->
56  <!--
57  <Executor name="tomcatThreadPool" namePrefix="catalina-exec-"
58  maxThreads="150" minSpareThreads="4"/>
59  -->
60
61
62  <!-- A "Connector" represents an endpoint by which requests are received
63  and responses are returned. Documentation at :
64  Java HTTP Connector: /docs/config/http.html
65  Java AJP Connector: /docs/config/ajp.html
66  APR (HTTP/AJP) Connector: /docs/apr.html
67  Define a non-SSL/TLS HTTP/1.1 Connector on port 8080
68
69  <Connector port="8080" protocol="HTTP/1.1"
70  connectionTimeout="20000"
71  URIEncoding="UTF-8"
72  redirectPort="8443"
73  address="127.0.0.1" />
74
75  <!-- Define a standard HTTP/1.1 Connector on port 8080 -->
76  <!--
77  <Connector executor="tomcatThreadPool"
78  port="8080" protocol="HTTP/1.1"
79  connectionTimeout="20000"
80  redirectPort="8443" />
81  -->
82  <!-- Define a SSL/TLS HTTP/1.1 Connector on port 8443
83  This connector uses the NIO implementation. The default
84  SSLImplementation will depend on the presence of the APR/native
85  library and the useOpenSSL attribute of the

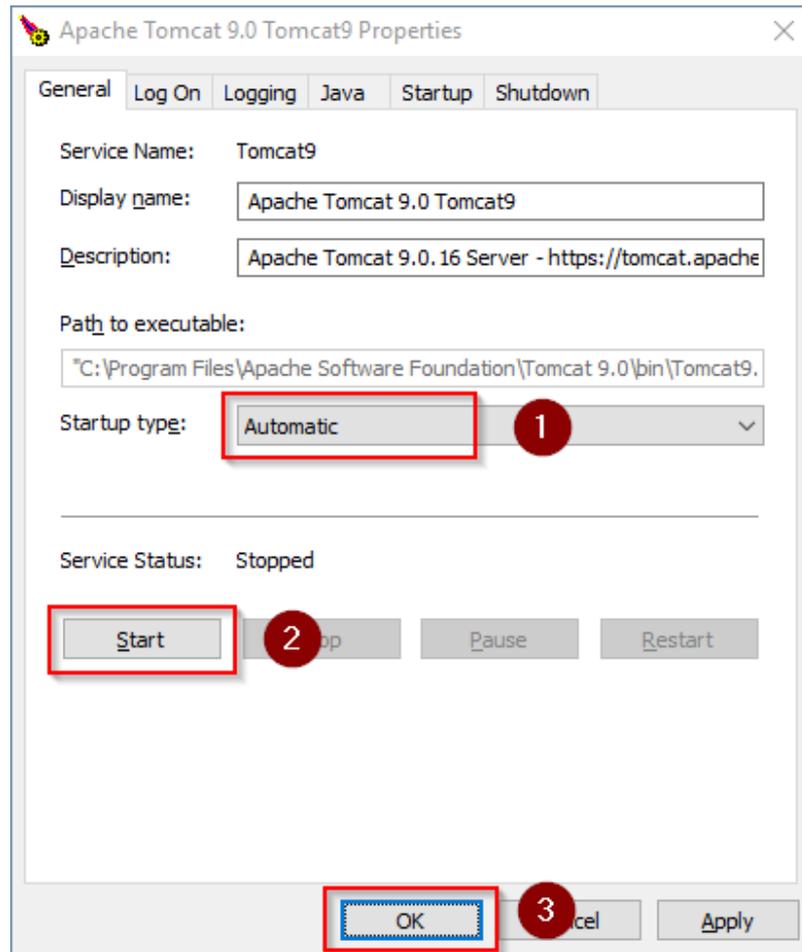
```

Save and close the file.

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



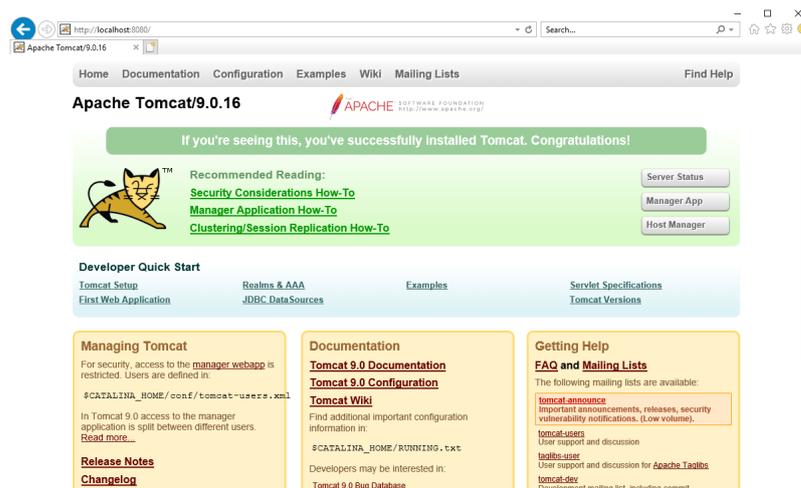
Set "Startup type" to "Automatic" (1) and start Tomcat (2). Then exit the configuration console (3):



Reviewing the installation

To check if Tomcat is working correctly, open the address <http://localhost:8080/> in a browser on the server.

You should now see the homepage of the Tomcat server:



Installing the web apps

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 "apache-tomcat-9.0.16.exe" file from your hard drive and continue to the next step "[Elasticsearch](#)".

Git on Windows

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

Contents

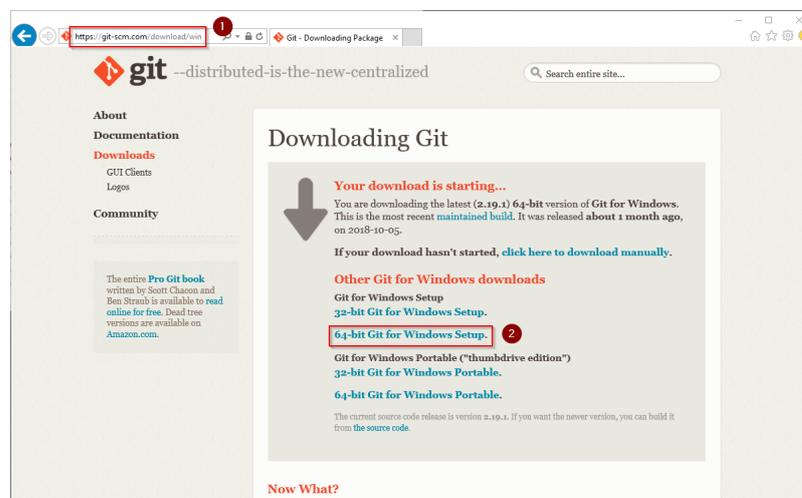
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Git is an application for software version management. It is required for the installation of Node.js, which in turn is required for the operation of the rendering service "Parsoid" for the Visual Editor. The steps listed here are optional and only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

Download

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



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



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

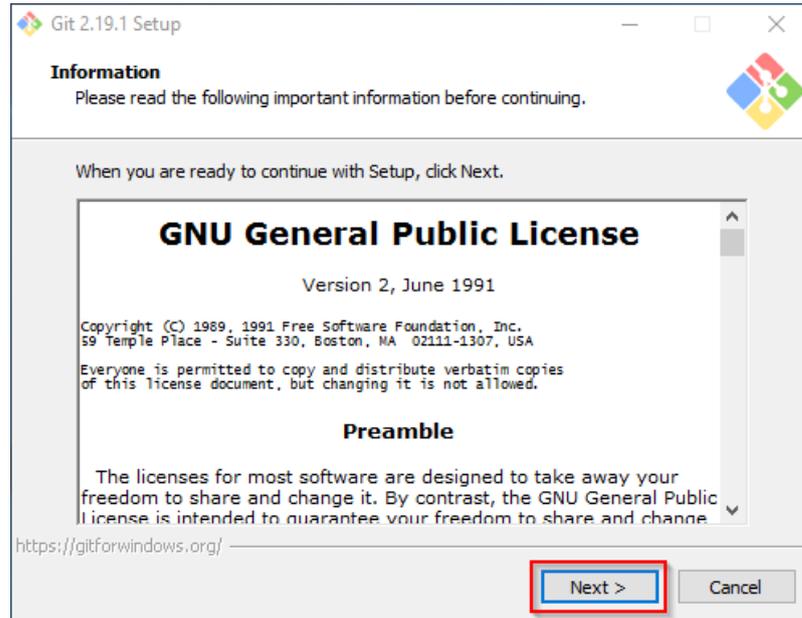


Git version 2.19.1 will be used below as an example. You can download the latest version of Git at the time of installation.

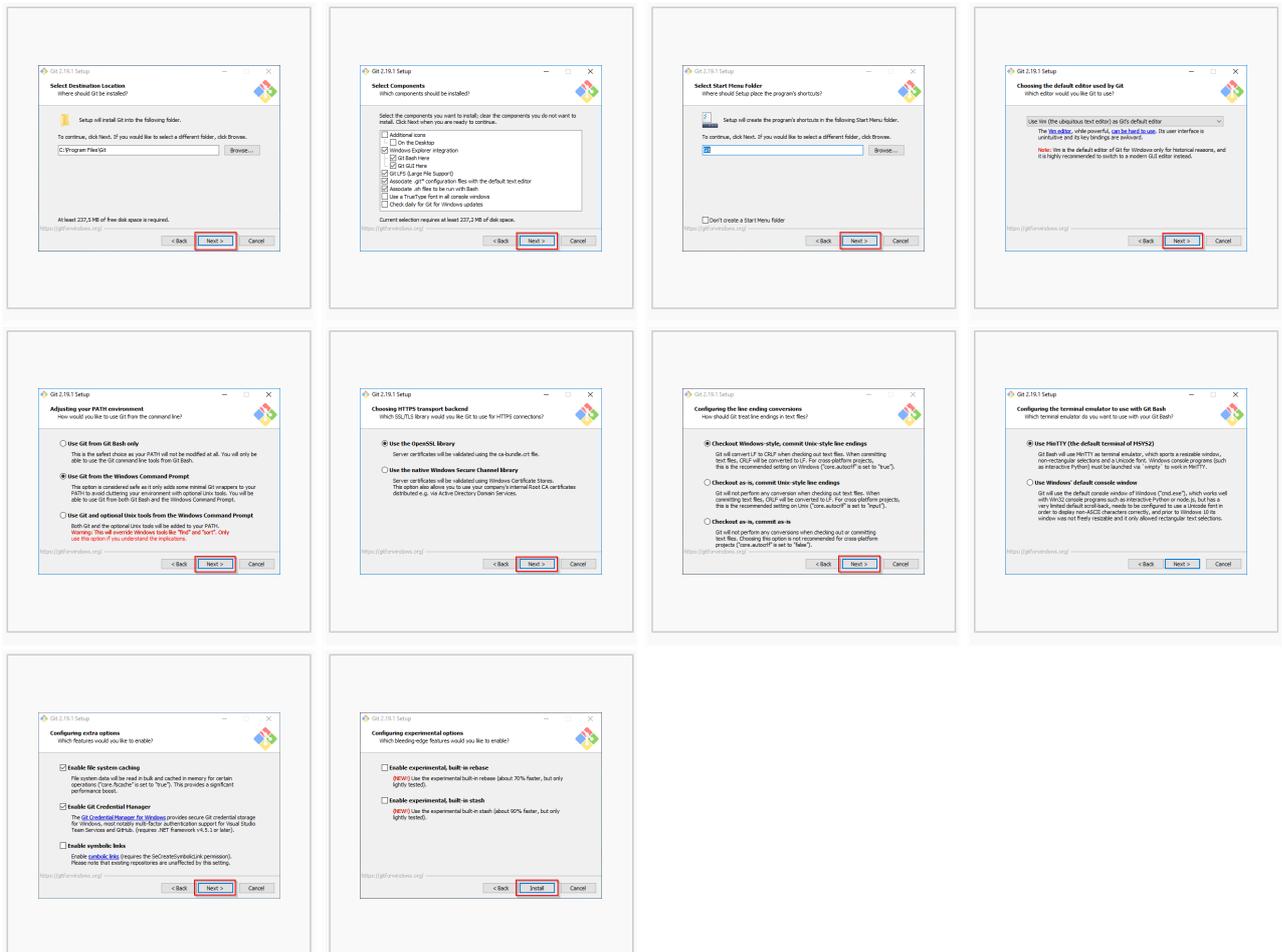
Installing Git

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

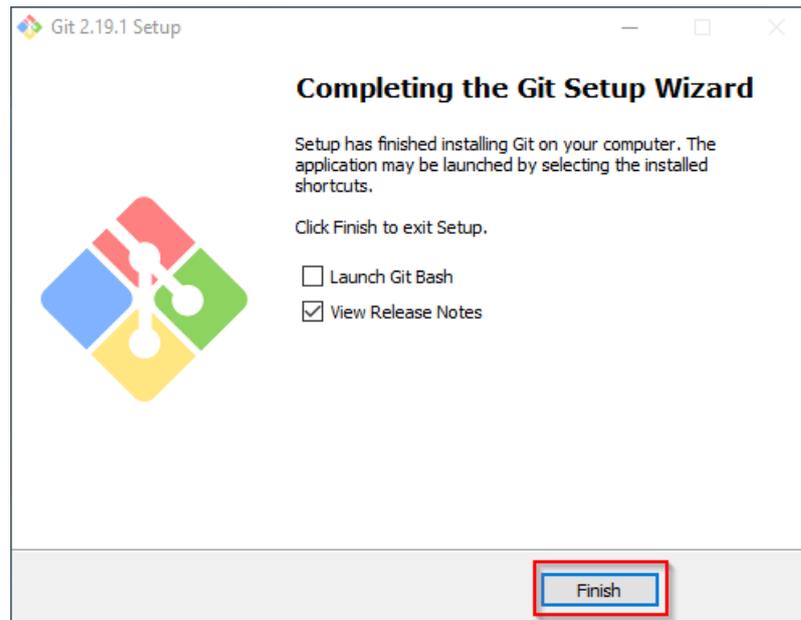
Start the installation by clicking "Next >":



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



You can close the setup program now:



Next step

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

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.

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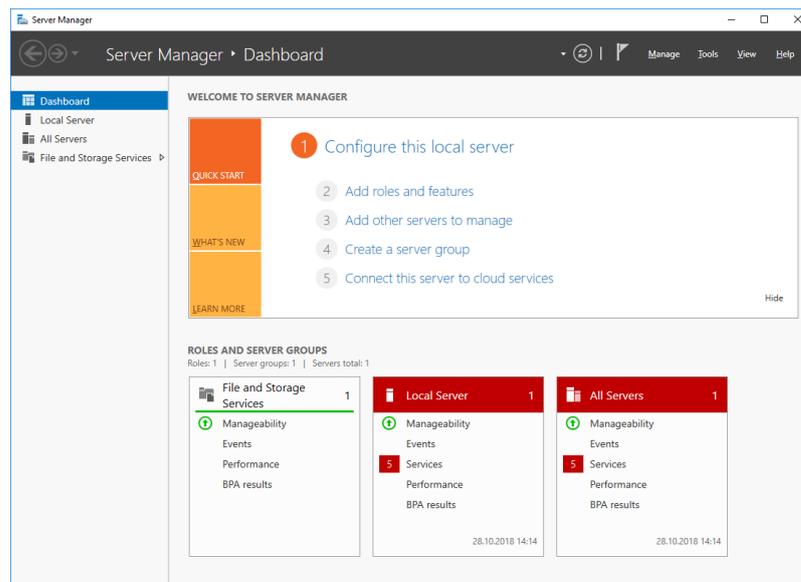
The web server delivers your BlueSpice installation to the users' browsers. Without a web server, BlueSpice cannot be used. The steps listed here are required.

Introduction

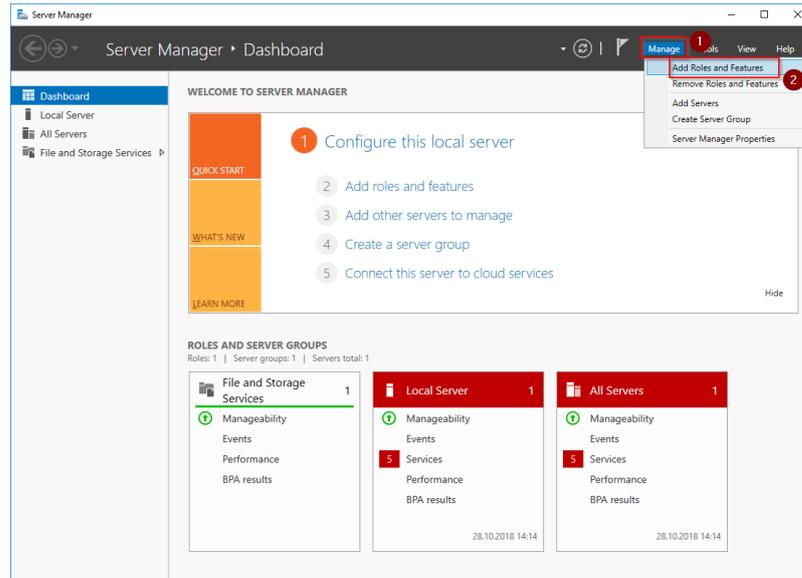
We recommend to use the most system-optimized software possible for a live operation of BlueSpice both under Linux and under Windows. For this reason, the documentation of an installation of Apache (XAMP) under Windows is omitted. This chapter lists the steps that are necessary to install the Microsoft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



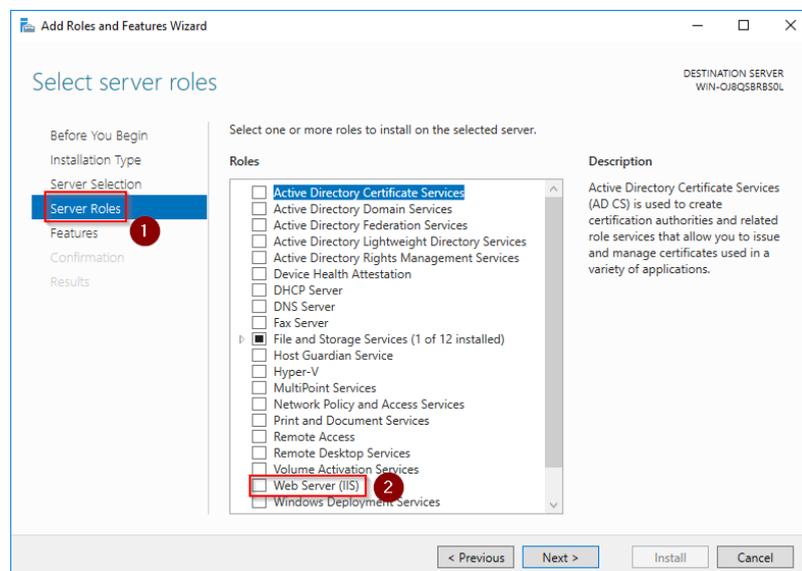
Click "Manage" (1) und then "Add Roles and Features" (2):



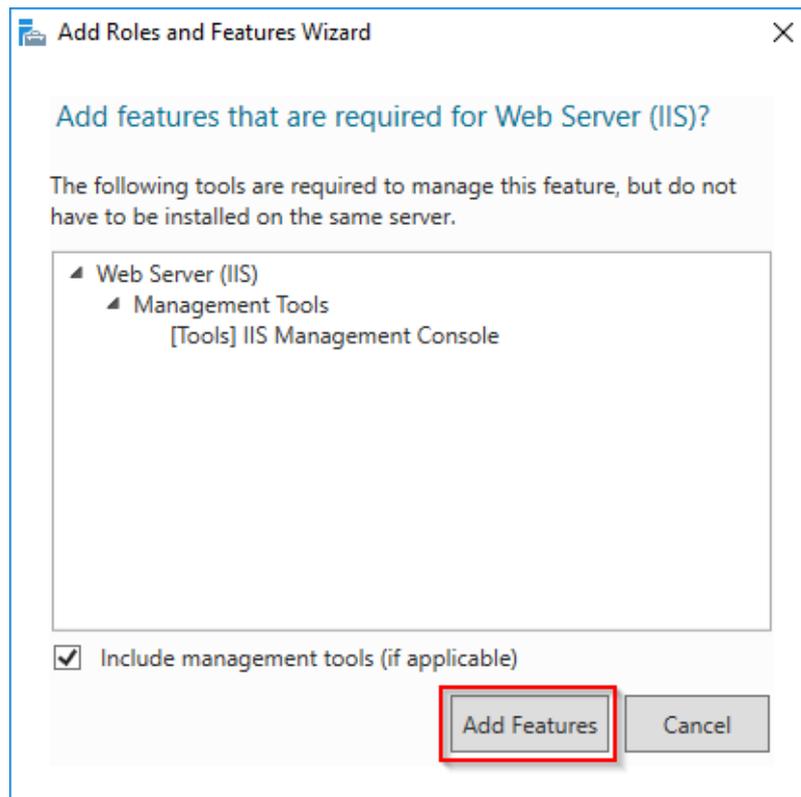
Installing IIS in the Role Manager

You are now in the Role Manager.

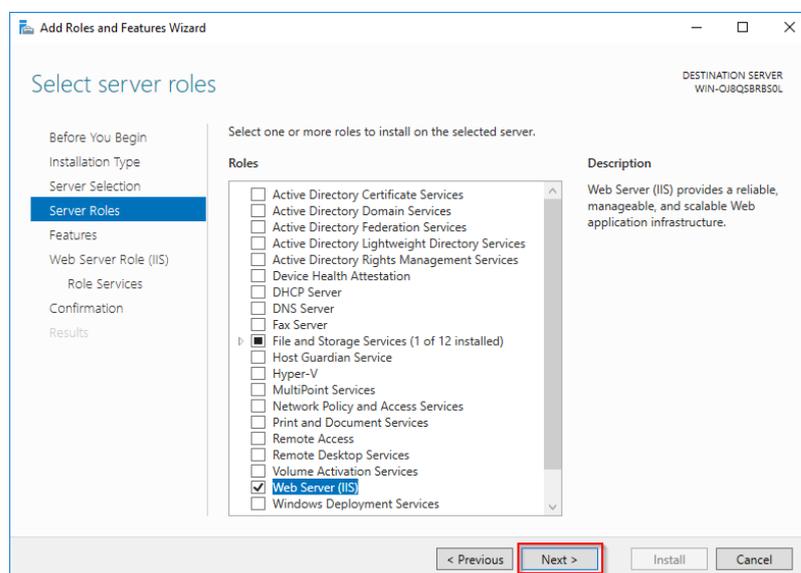
Click "Next >" until you reach the "Server Roles" area (1). There, you activate the role "Web Server (IIS)" (2):



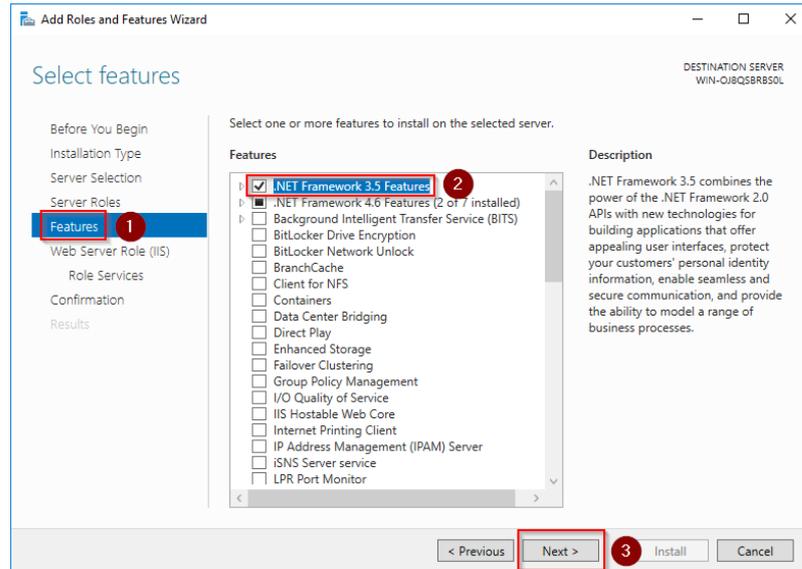
Confirm the pop-up that shows the selection of the role with "Add Features":



Click "Next >":

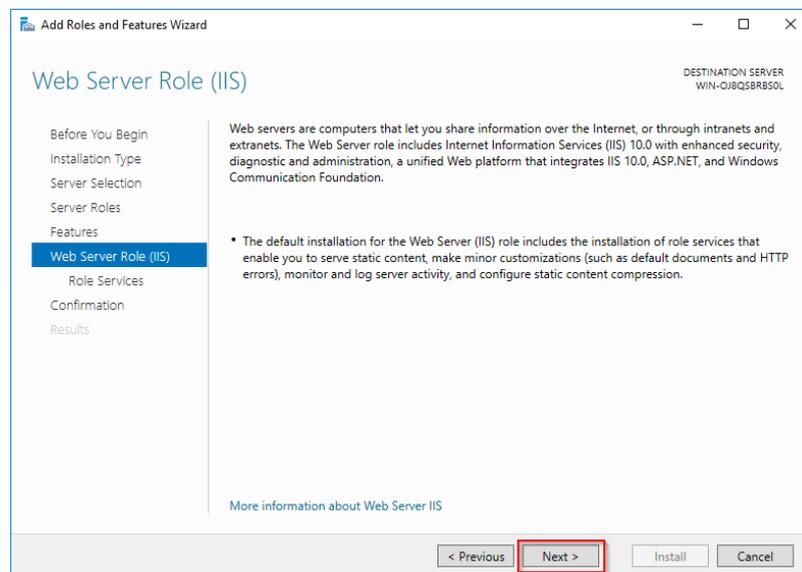


You are now in the "Features" area(1). Activate ".NET Framework 3.5 Features" (2) and click "Next >" (3):

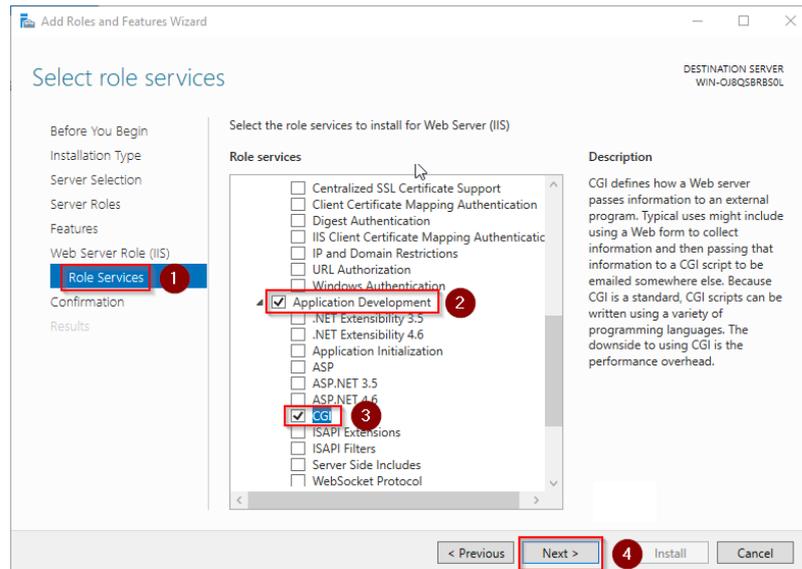


The .NET Framework 3.5 is not directly required for running IIS. However, tools that will be installed later, which are also partially connected with IIS, definitely require it. For this reason, we install it now.

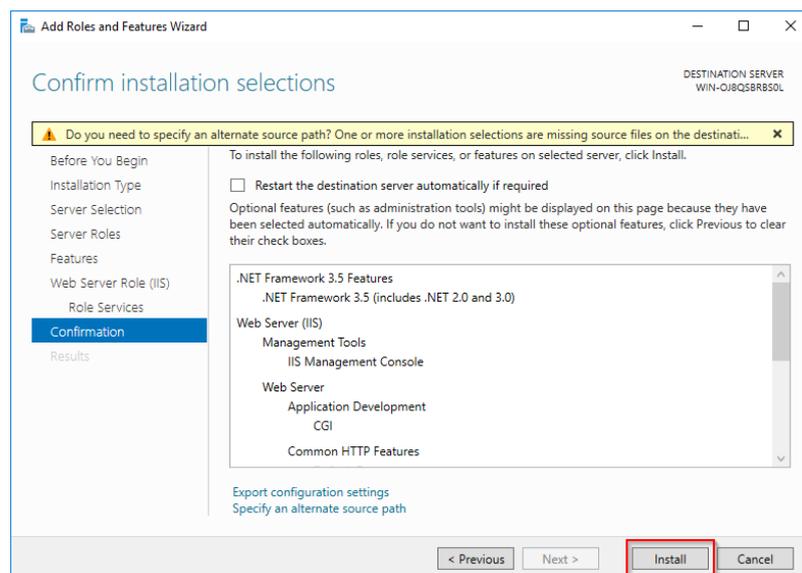
Confirm the following dialog with "Next >":



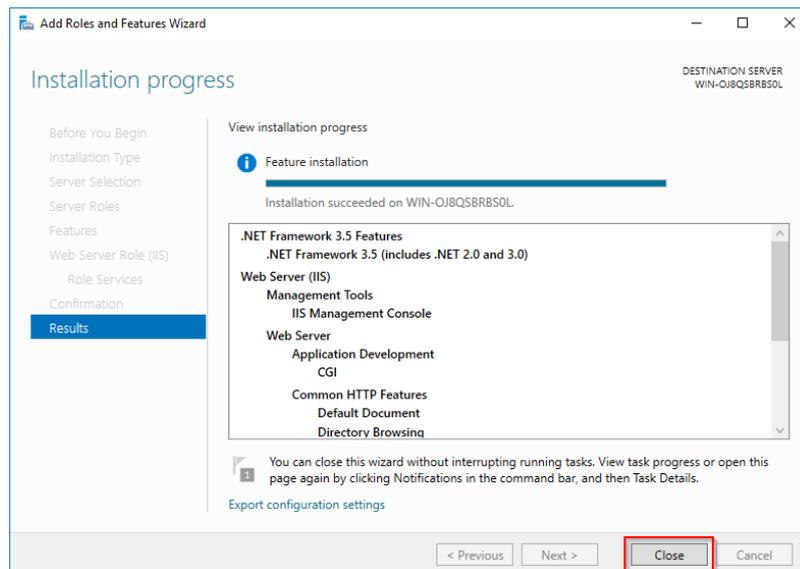
Under "Role Services" (1) select "Application Development" (2) with the option "CGI" (3) and confirm with "Next >" (4):



Click "Install" to start the installation:

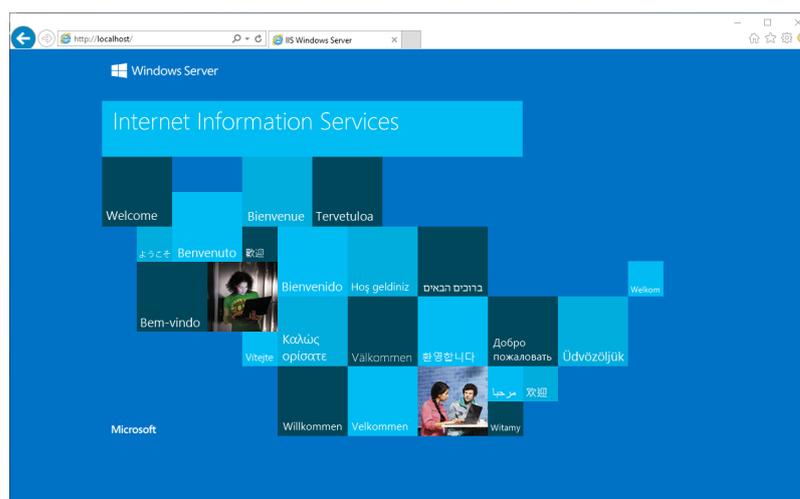


As soon as the installation has finished, click "Close" to exit the dialog box.



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](#)".

MariaDB on Windows

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

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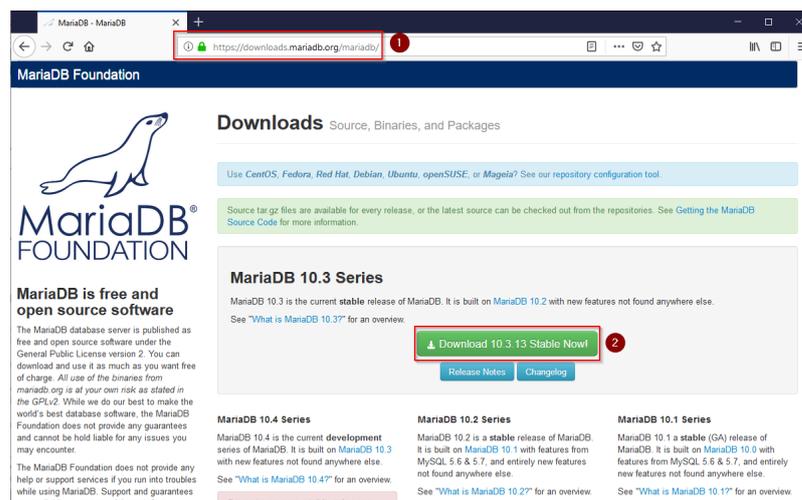
BlueSpice stores your content in a database for which you need to install a corresponding server. The steps listed here are required.

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](https://downloads.mariadb.org/mariadb/) (1). Click on the corresponding download link (2).



Select the MSI package in the 64bit version:

File Name	Package Type	OS / CPU	Size	Meta
mariadb-10.3.13.tar.gz	source tar.gz file	Source	70.7 MB	Checksum Instructions
Galera 25.3.25 source and packages				
For best results with RPM and DEB packages, use the Repository Configuration Tool .				
mariadb-10.3.13-winx64-debugsymbols.zip	ZIP file	Windows x86_64	144.0 MB	Checksum Instructions
mariadb-10.3.13-winx64.zip	ZIP file	Windows x86_64	69.5 MB	Checksum Instructions
mariadb-10.3.13-winx64.msi	MSI Package	Windows x86_64	54.5 MB	Checksum Instructions
mariadb-10.3.13-winx32.zip	ZIP file	Windows x86	62.5 MB	Checksum Instructions
mariadb-10.3.13-winx32-debugsymbols.zip	ZIP file	Windows x86	111.9 MB	Checksum Instructions
mariadb-10.3.13-winx32.zip	ZIP file	Windows x86	49.1 MB	Checksum Instructions

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.

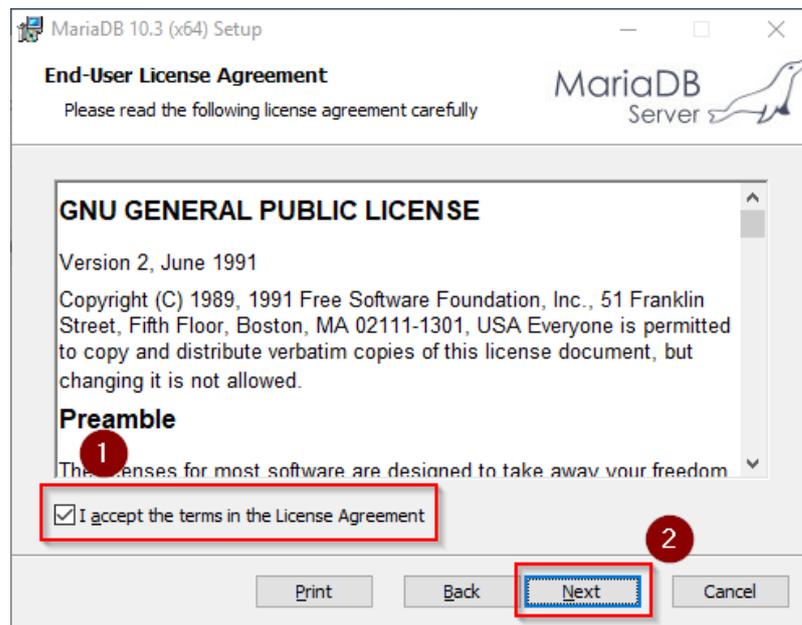
Installing MariaDB

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

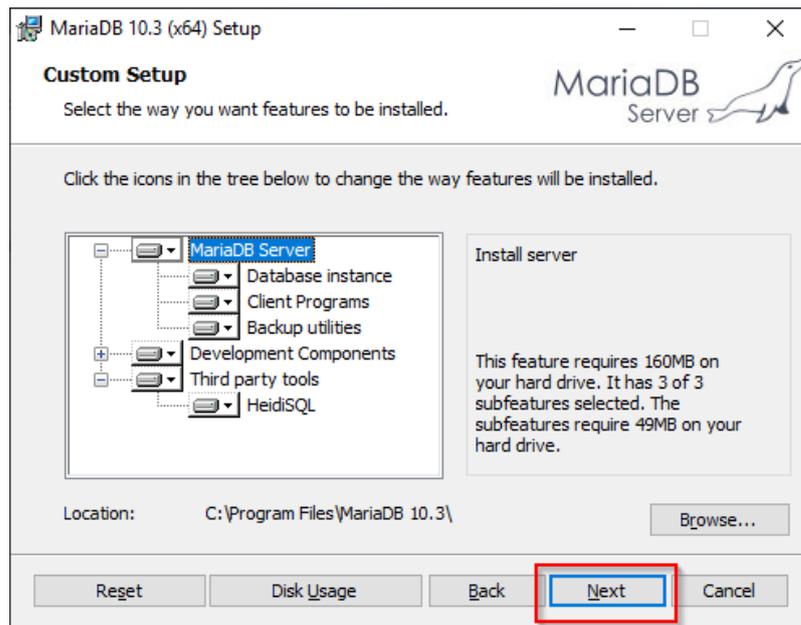
Start the installation by clicking "Next":



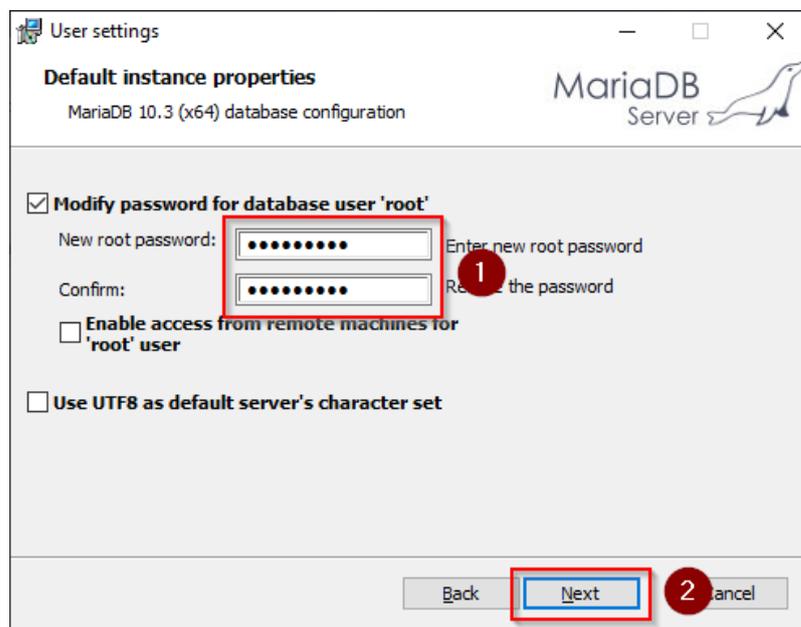
Confirm the license agreement (1) and click "Next" (2):



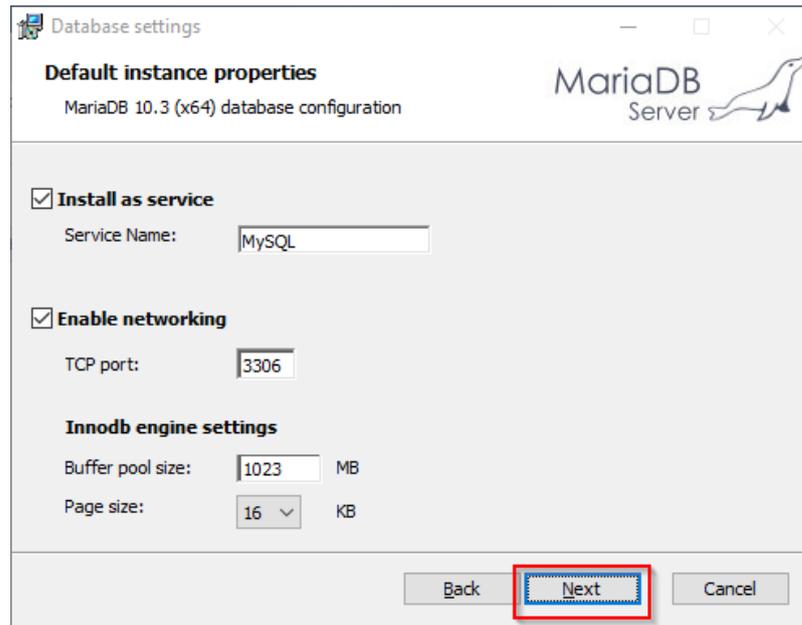
The next step you confirm by clicking on "Next".



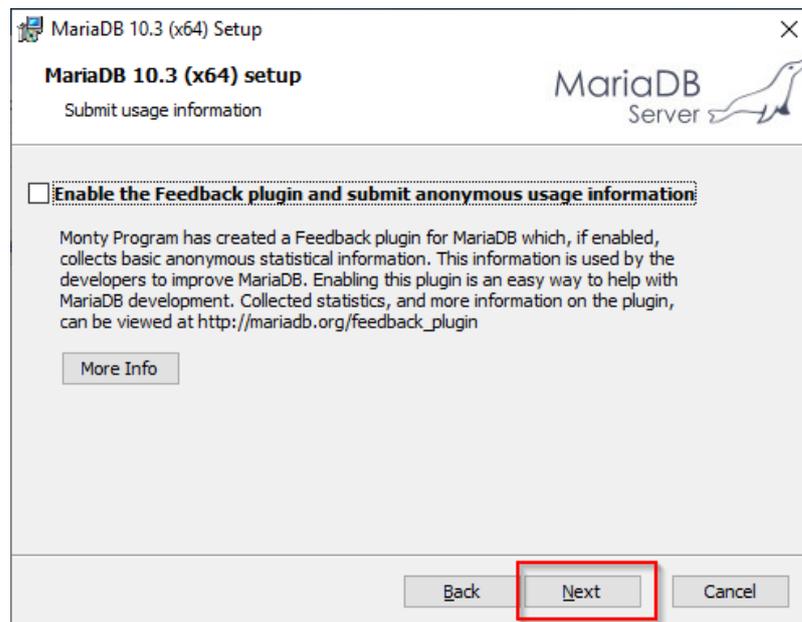
Provide a password. It will be used for the administrative user ("root") of the database server (1). Then, click "Next" (2):



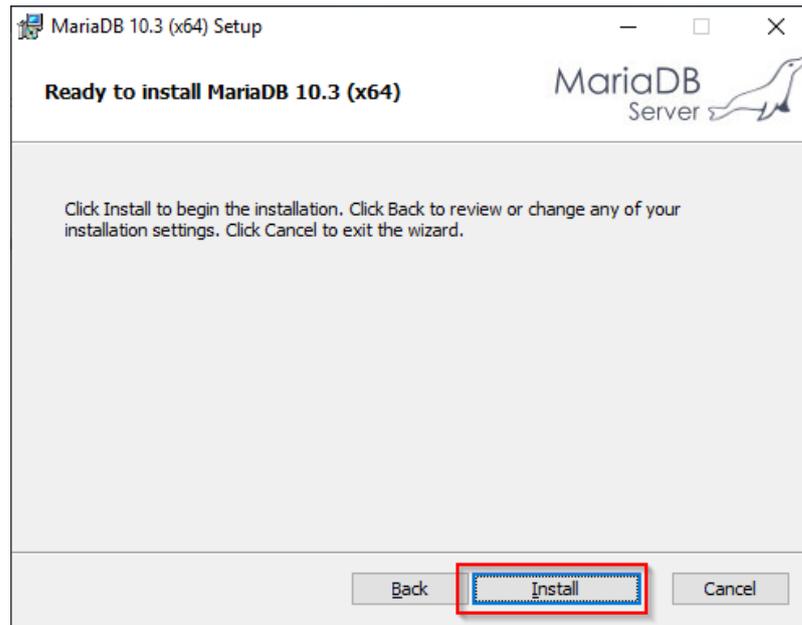
Confirm the next step by clicking "Next":



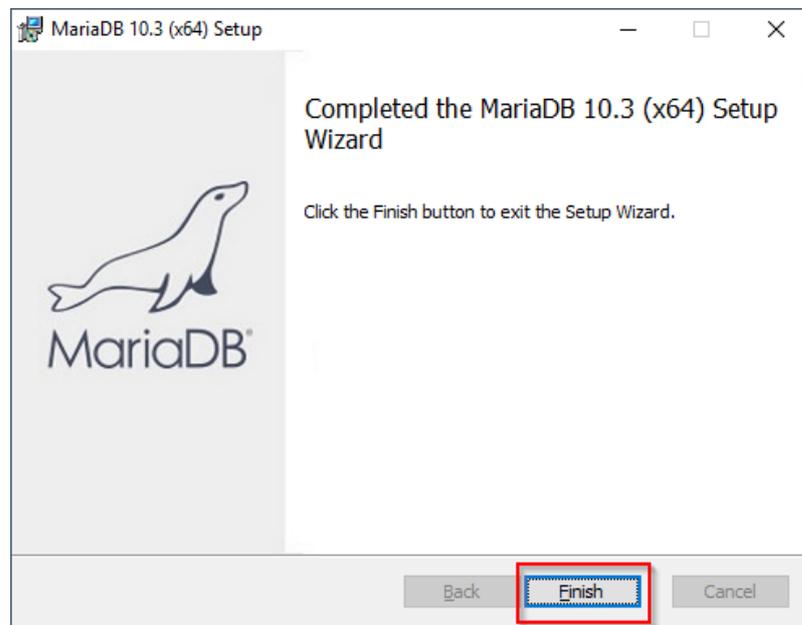
Confirm the next step by clicking "Next":



Now start the installation:



When the installation is complete, exit the installer:

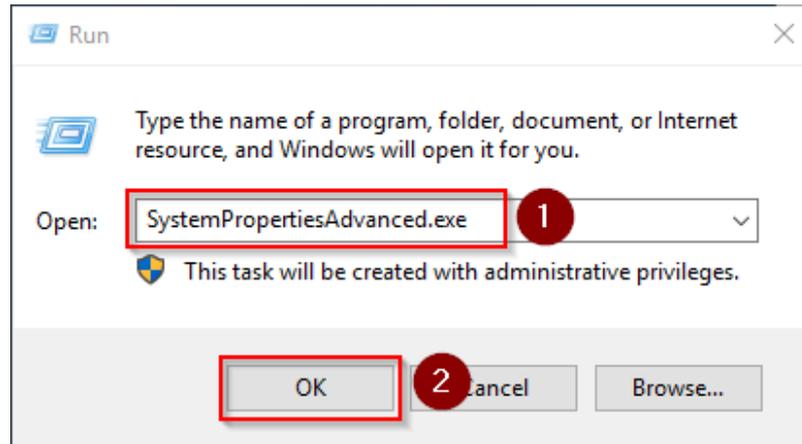


Setting the environment variable

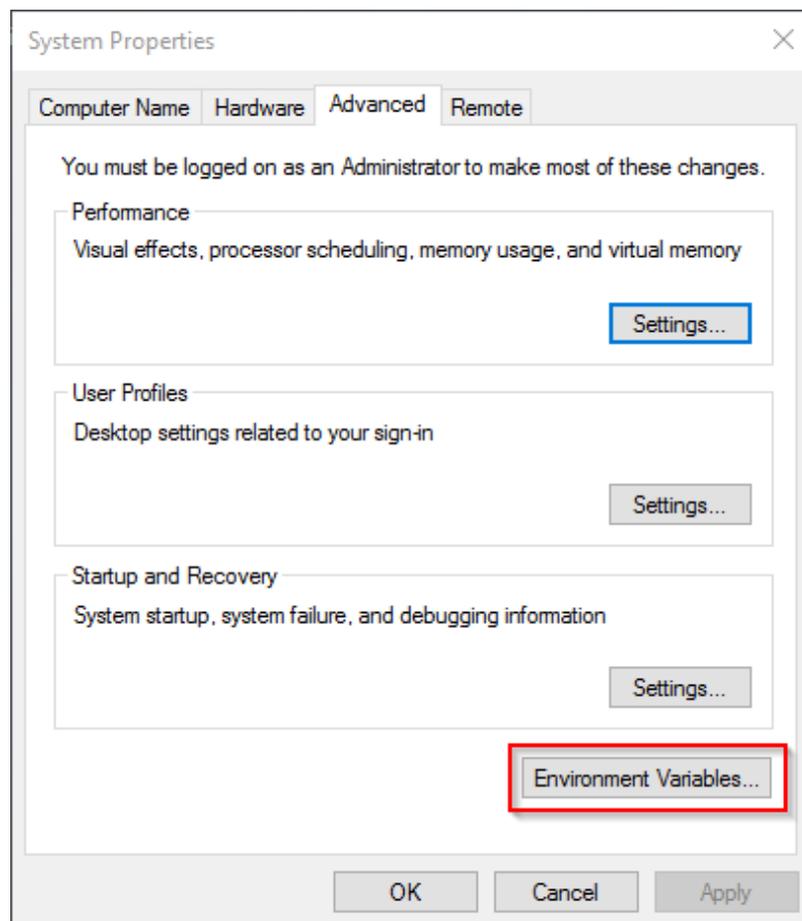
To use MariaDB easily on the command line of Windows, it is necessary to configure an environment variable in Windows accordingly. To do this, perform the following steps:

Enter the key combination Windows + R.

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

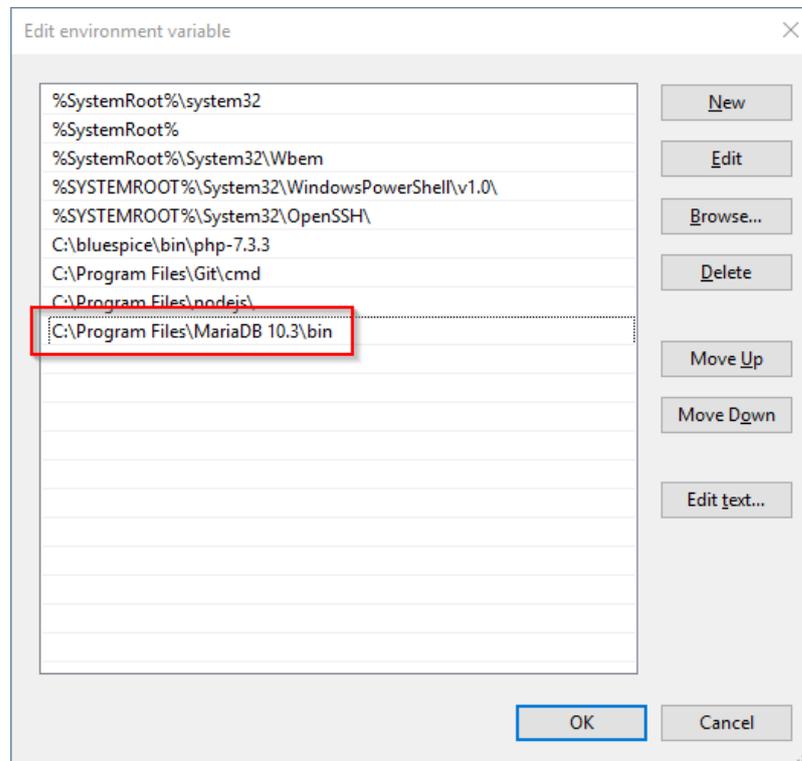


Click "Environment Variables":



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

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`.



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](#)".

PHP 7.3 on Windows

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

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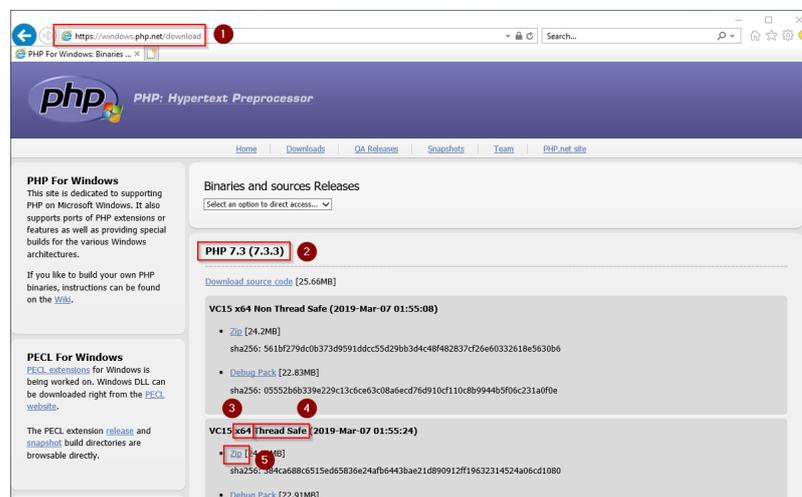
The source code of BlueSpice is based on the scripting language "PHP". It must be installed on your server in order to operate BlueSpice. The steps listed here are required.

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):



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.



This documentation assumes the [recommended folder structure](#).

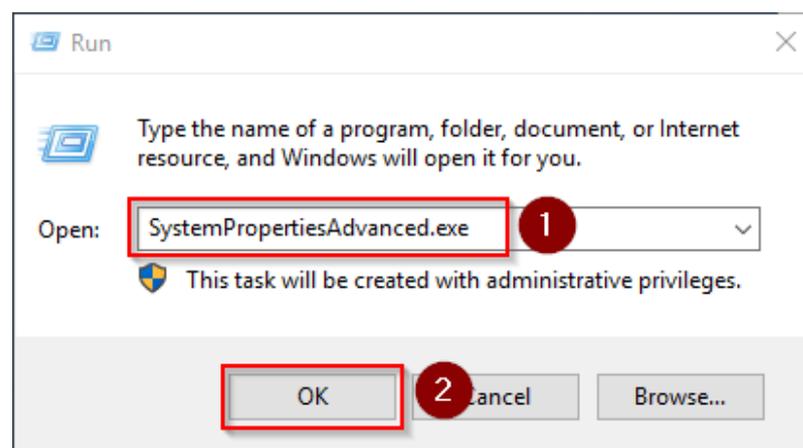
For this reason PHP will be unpacked into the folder C:\bluespice\bin\php-7.3.3. If you have a different folder structure, you must adapt these paths accordingly.

Setting the environment variable

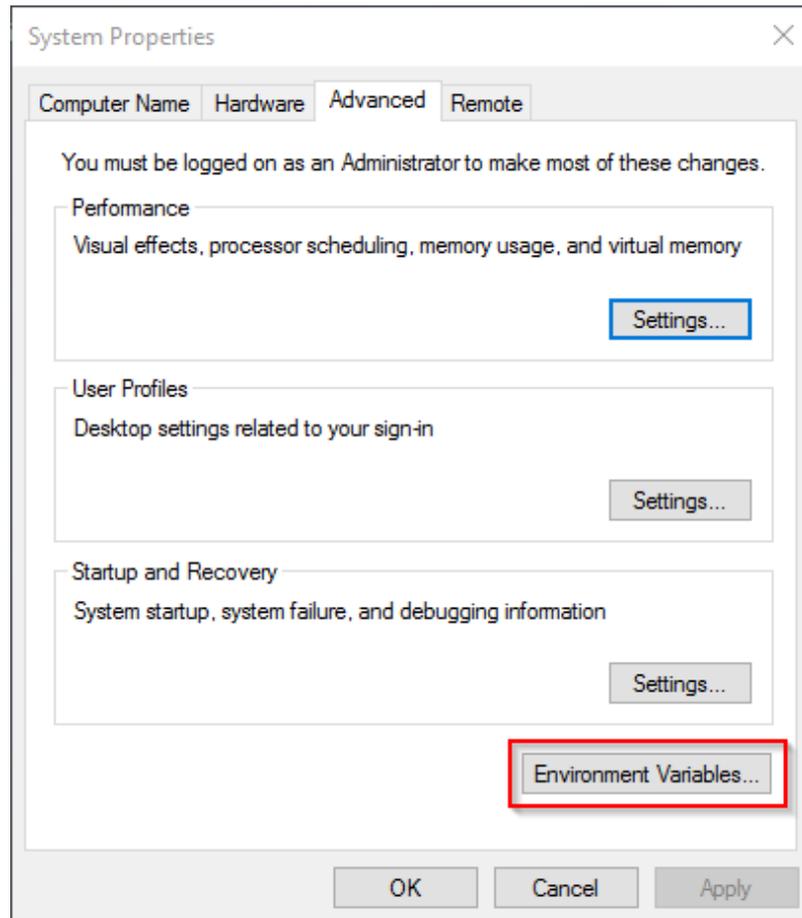
In order to use PHP easily on the command line of Windows, it is necessary to configure an environment variable in Windows accordingly. To do this, perform the following steps:

Enter the key combination Windows+R.

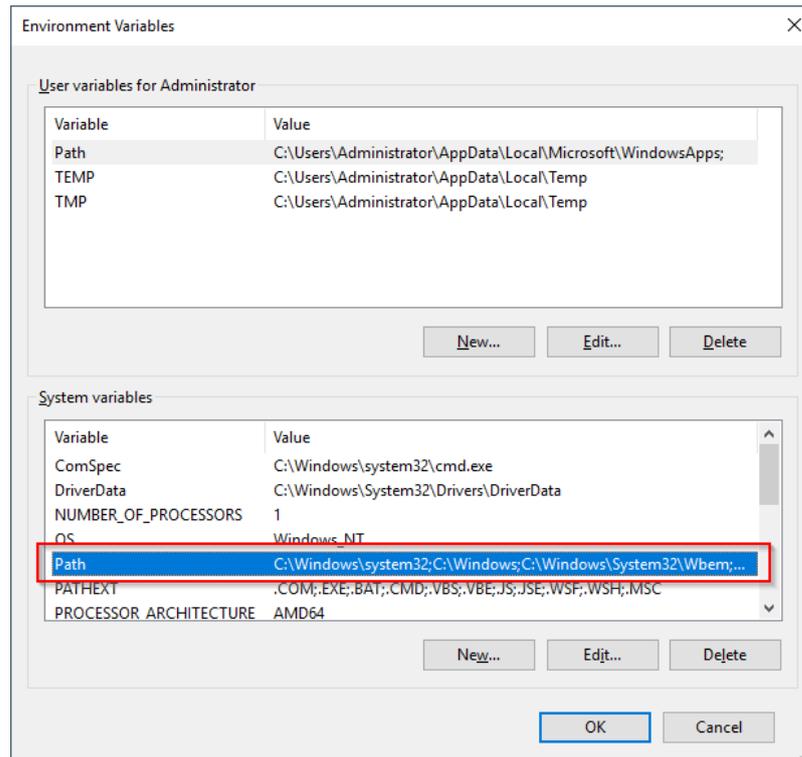
In the following dialog enter "SystemPropertiesAdvanced.exe" (1) and confirm with OK (2):



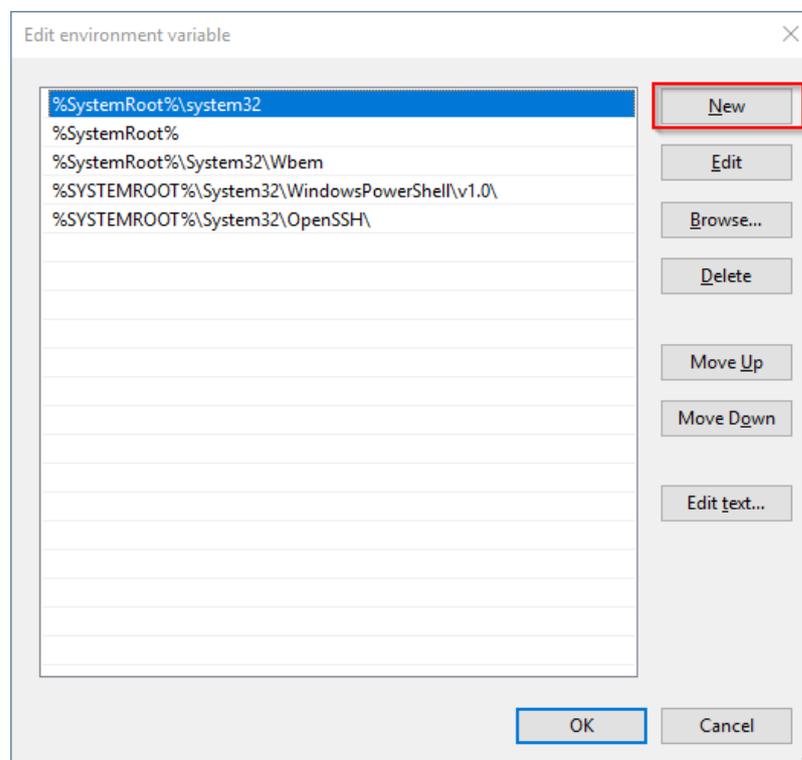
Click "Environment variables":



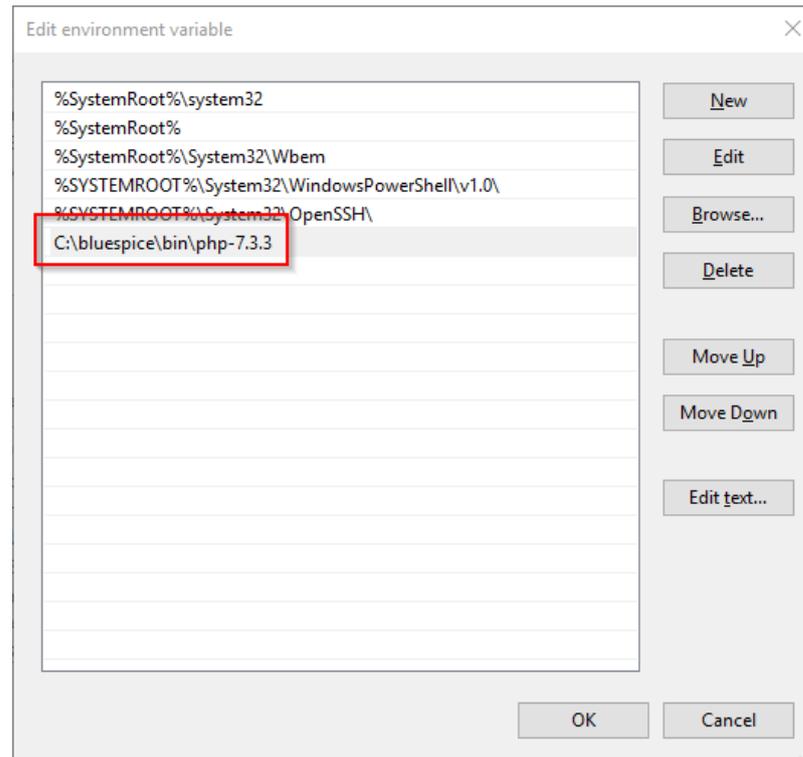
In the lower part of the now opened window double-click on the line "Path":



Click "New":



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



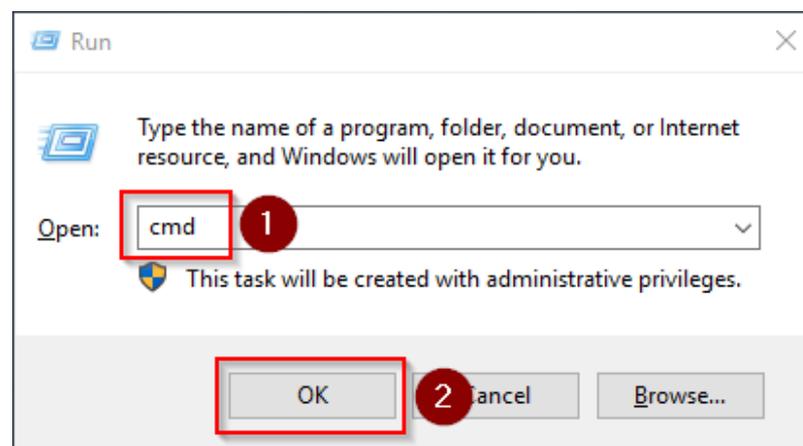
Close all newly opened windows one after the other by clicking on "OK".

Checking the environment variable

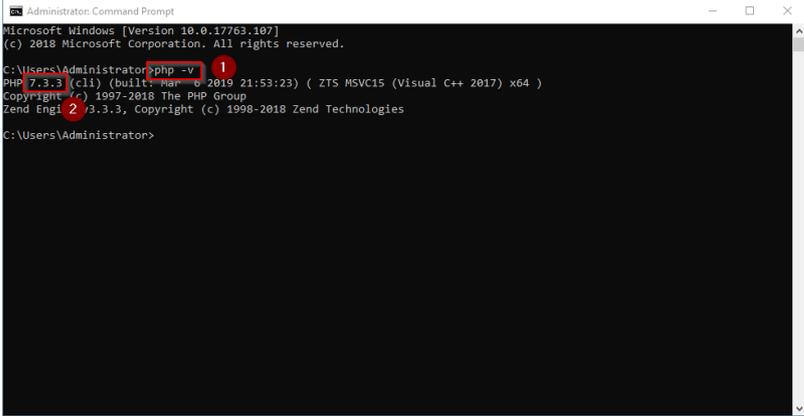
To make sure the environment variable is set correctly, perform the following steps:

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).



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.17763.107]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>php -v 1
PHP 7.3.3 (cli) (built: Mar  6 2019 21:53:23) ( ZTS MSVC15 (Visual C++ 2017) x64 )
Copyright (c) 1997-2018 The PHP Group
Zend Engine 2 7.3.3, Copyright (c) 1998-2018 Zend Technologies

C:\Users\Administrator>
```

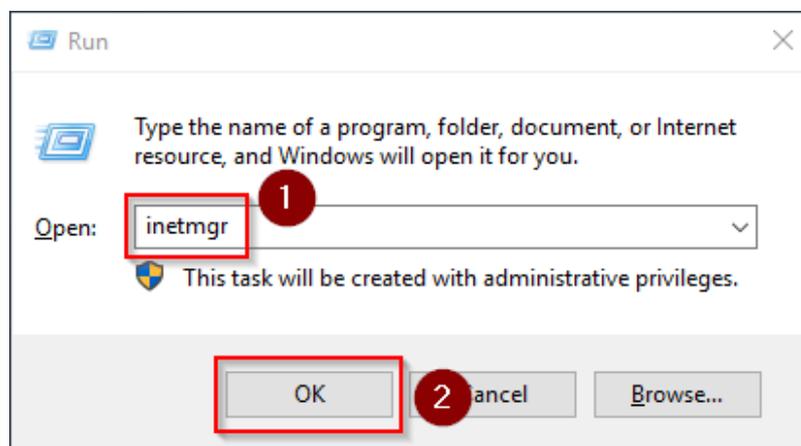
If this is not the case, then the path to the php.exe file in the environment variables was incorrectly specified.

Configuring IIS for PHP

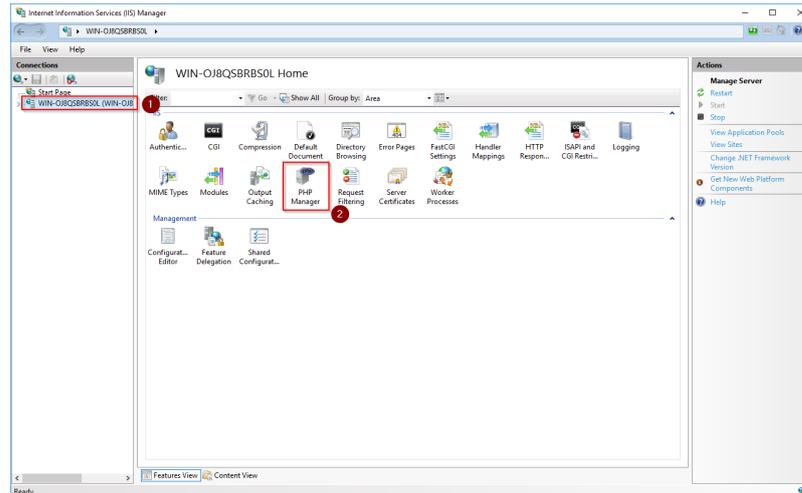
In the following steps, PHP will be included in IIS and IIS will be configured to provide a working basic setup:

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

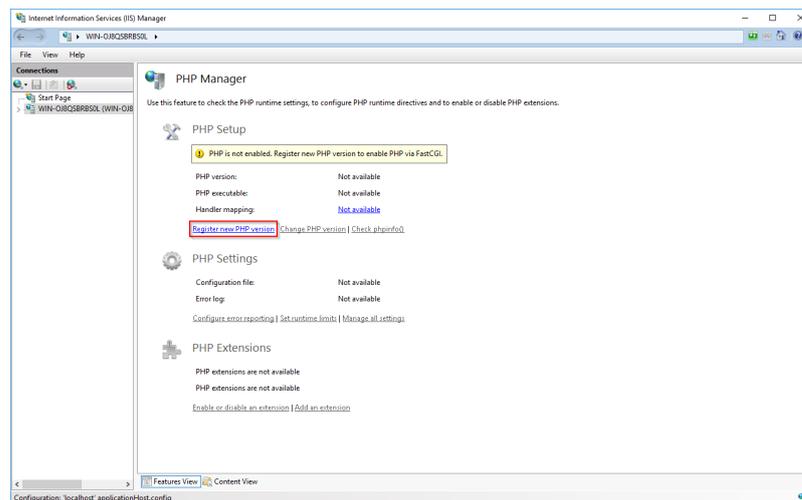
In the following dialog, enter "inetmgr" (1) and confirm with "OK" (2):



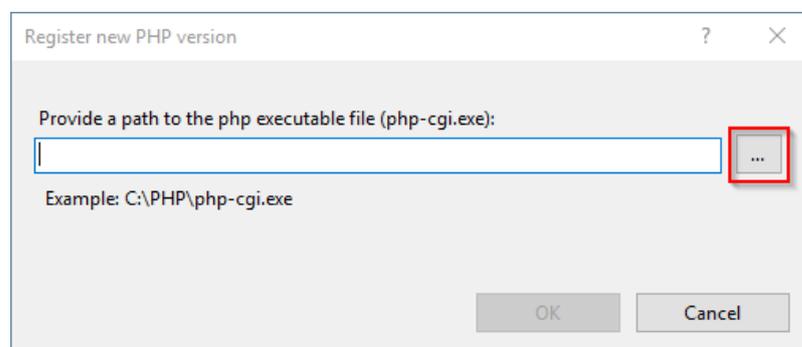
In the left pane, select your server name (1) and then double-click "PHP Manager" (2):



Click "Register new PHP version":

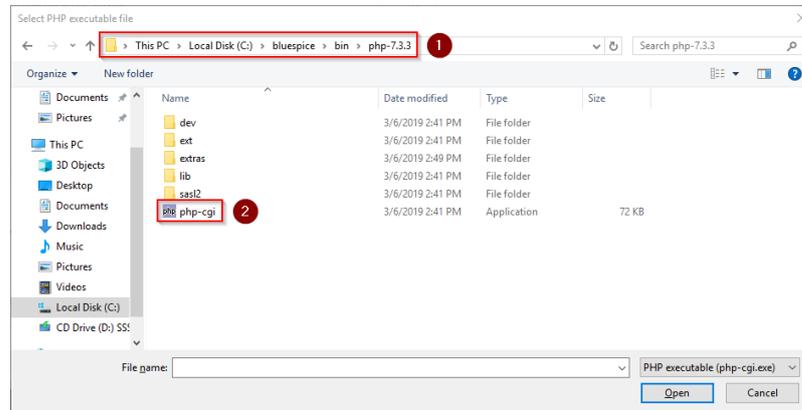


In the following window select the browse "(...)" button:

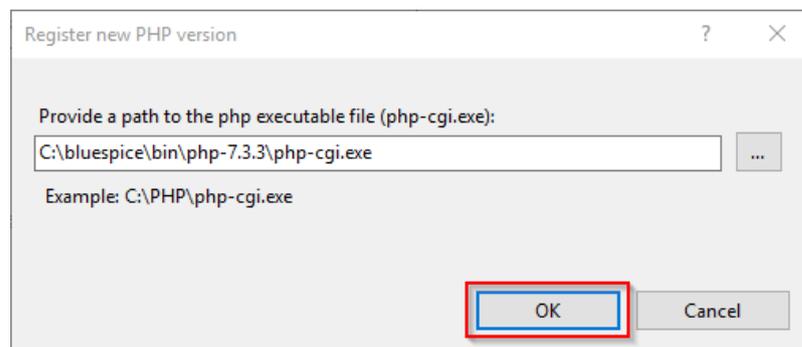


To manage the PHP settings in the next window:

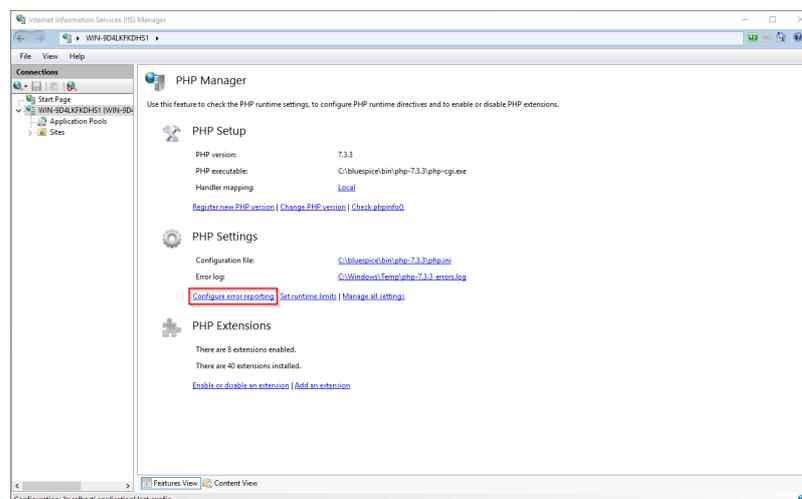
Change to the path to which you previously unzipped PHP (1), mark the "php-cgi.exe" (2) and confirm the dialog with "Open" (3):



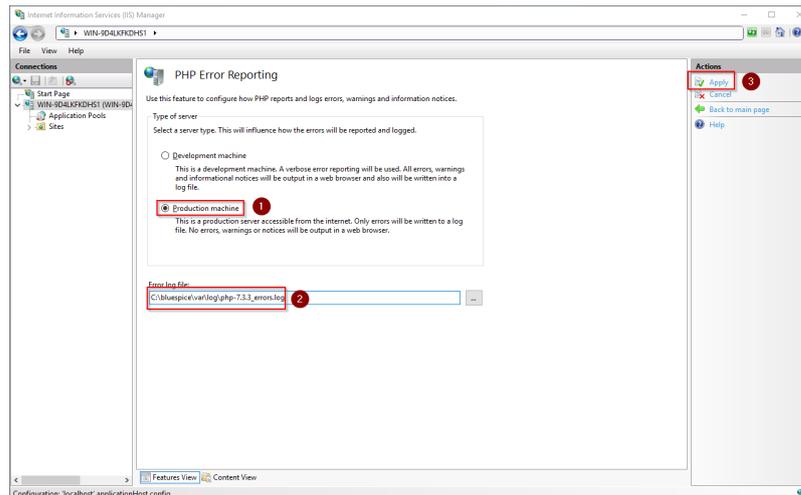
Confirm again with "OK":



Click on "Configure error reporting":

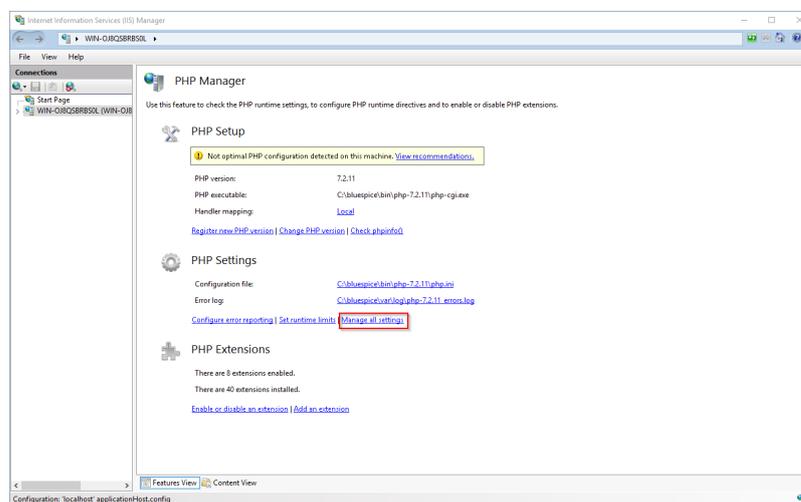


Activate the item "Production machine" (1) and select a path and a file of your choice where PHP should save its log (2). Confirm with "Apply" (3):



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

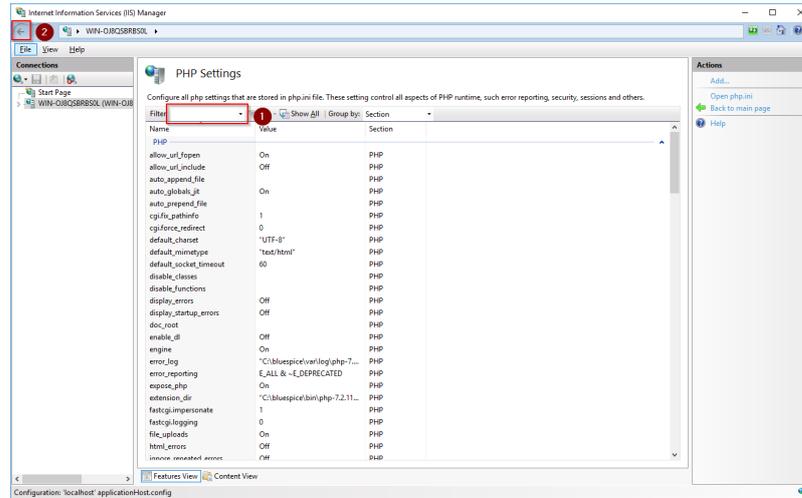
Click "Manage all settings":



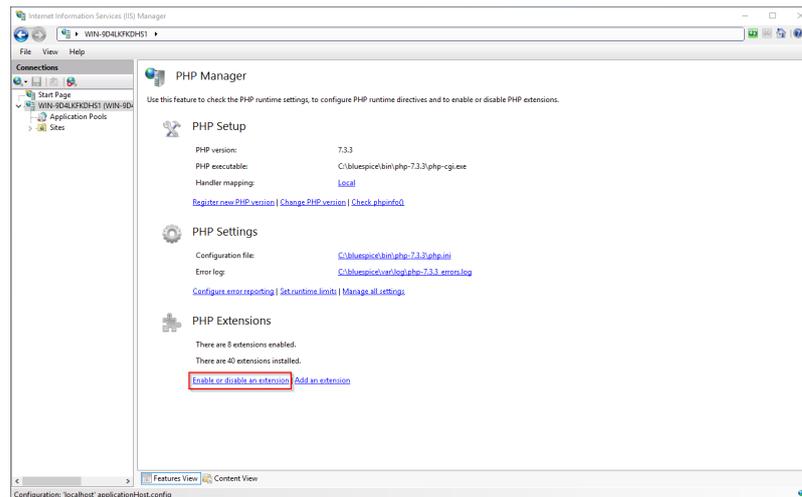
Adjust the following settings:

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

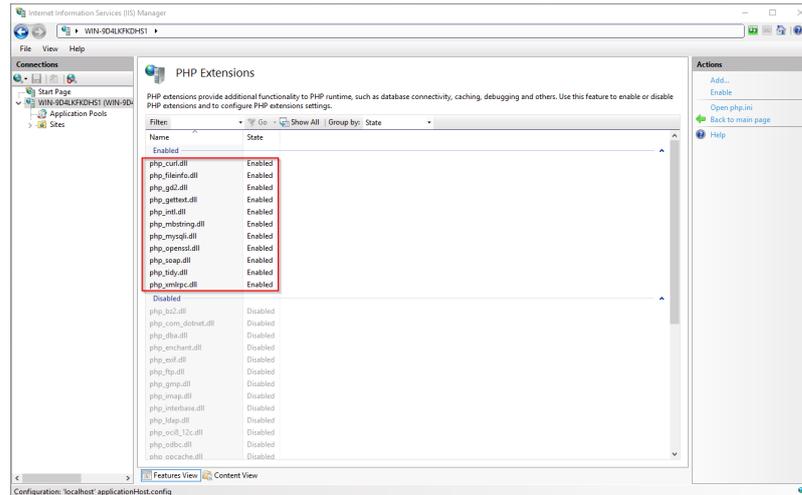
To find these options faster, you can also use the filter (1). Go back afterwards (2):



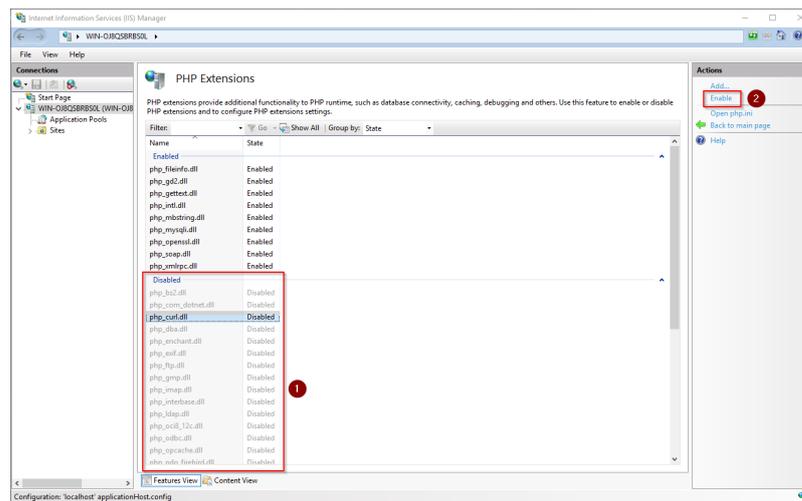
In the main window, click "Enable or disable an extension":



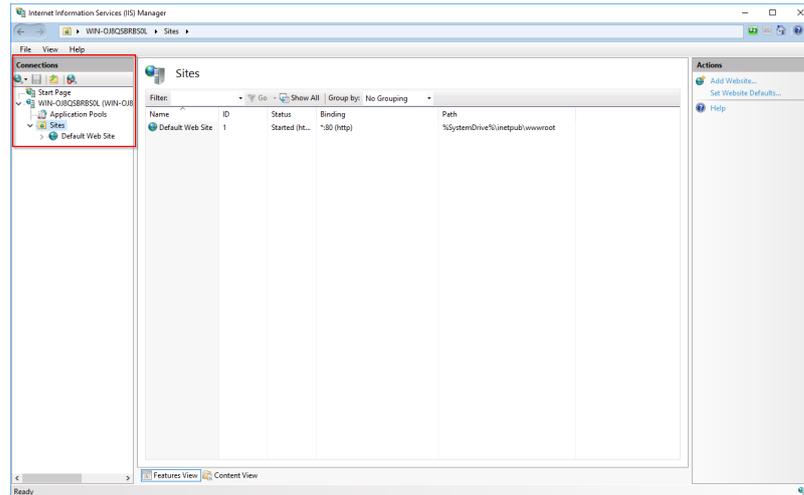
Make sure that the following extensions are enabled:



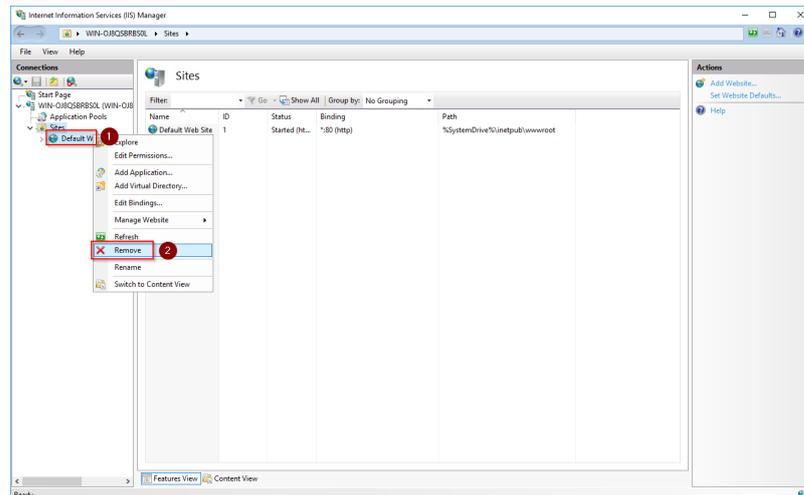
To activate an extension, select it in the "Disabled" section (1) and activate it by clicking on "Enable" (2):



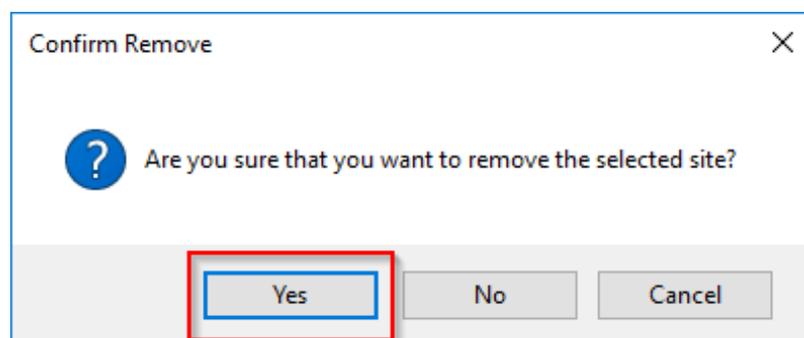
In the next step, expand the tree on the left until the "Default Web Site" becomes visible:



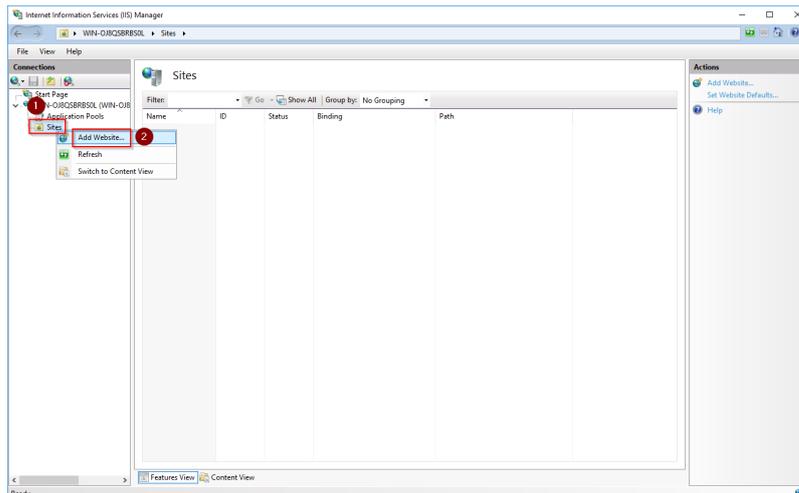
Right-click (1) and then click "Remove" (2):



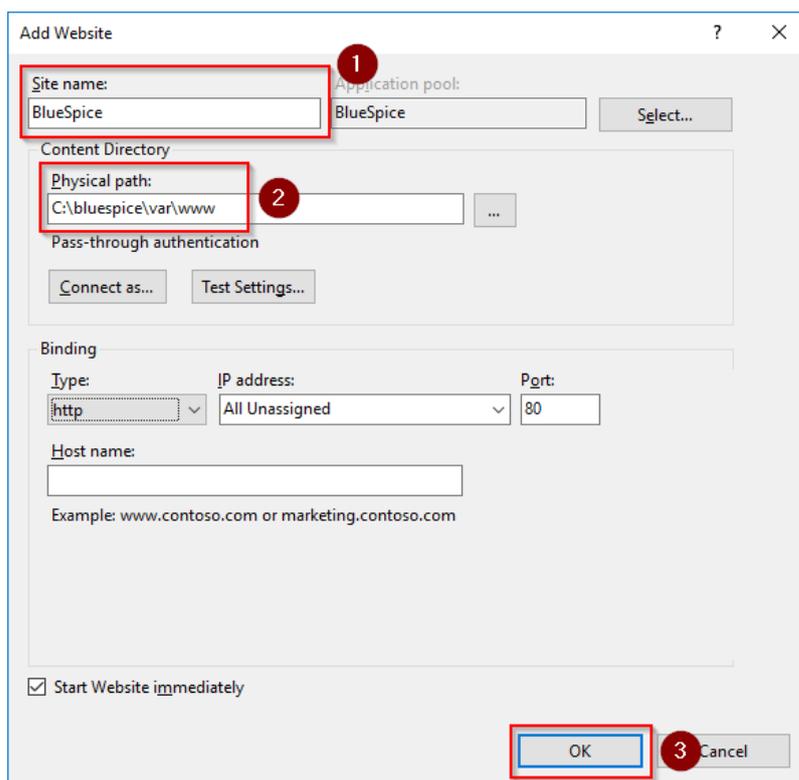
Confirm the following dialog with "Yes":



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

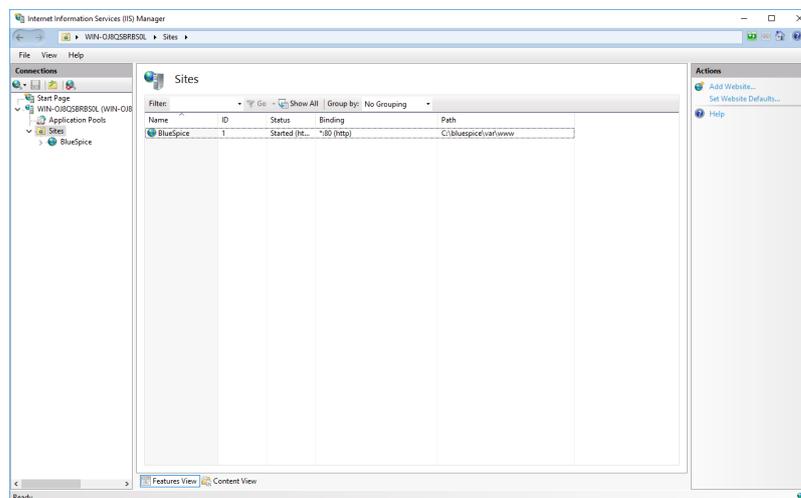


Enter the site name "BlueSpice" (1) and select the path on your server where your BlueSpice installation will be located later (2). Confirm with "OK" (3):



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:



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

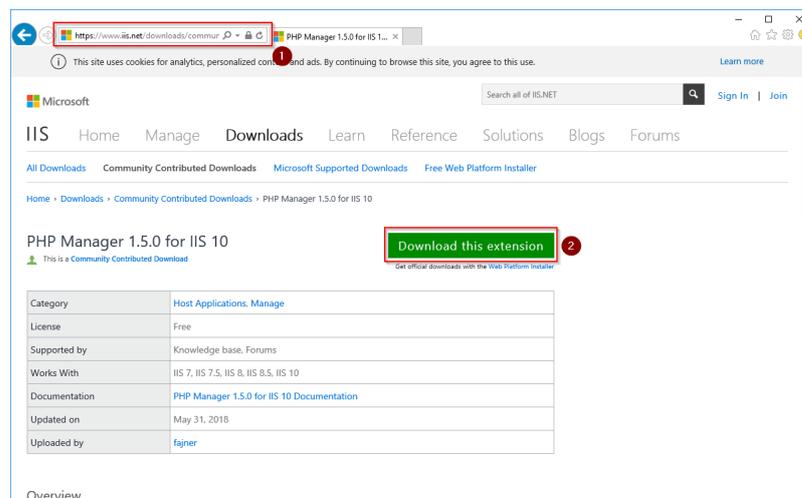
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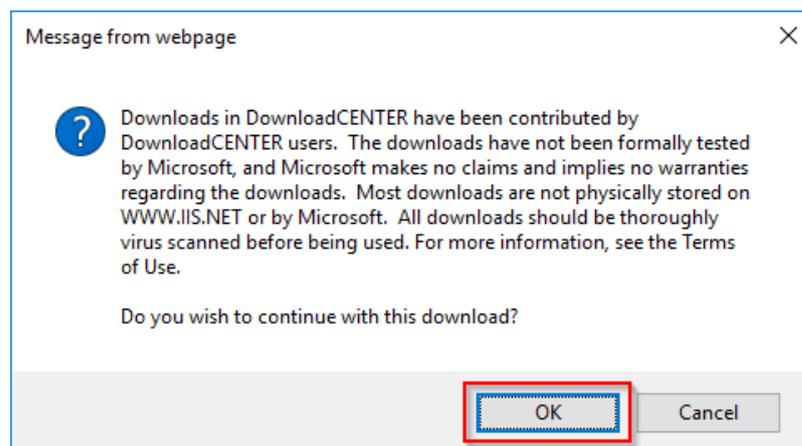
PHP Manager conveniently integrates PHP into your IIS installation. The steps listed here are required.

Download

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



Confirm the following dialog with "OK":



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

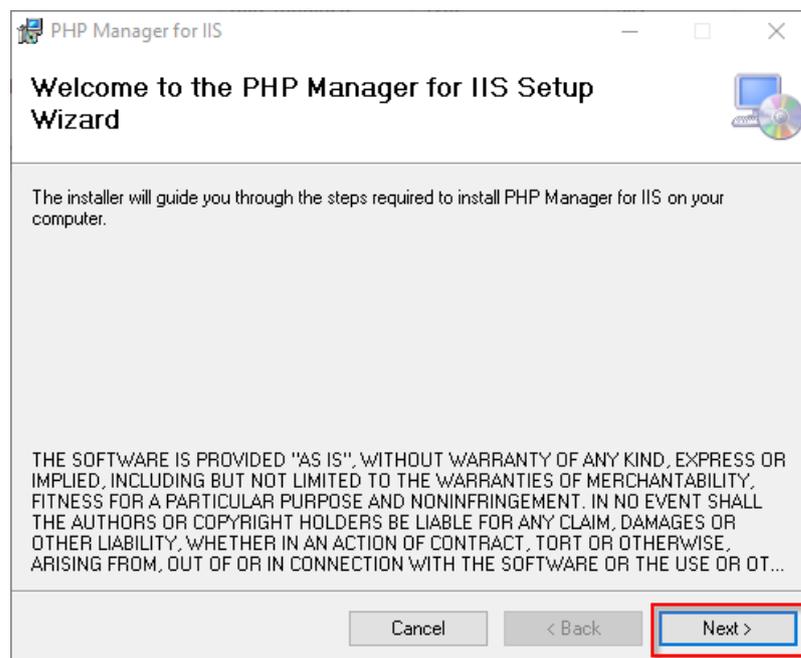


Please note that the download on your Windows server with Internet Explorer only works if you have configured the Internet Explorer Advanced Security Settings in the Server Manager. Please note the technical documentation from Microsoft.

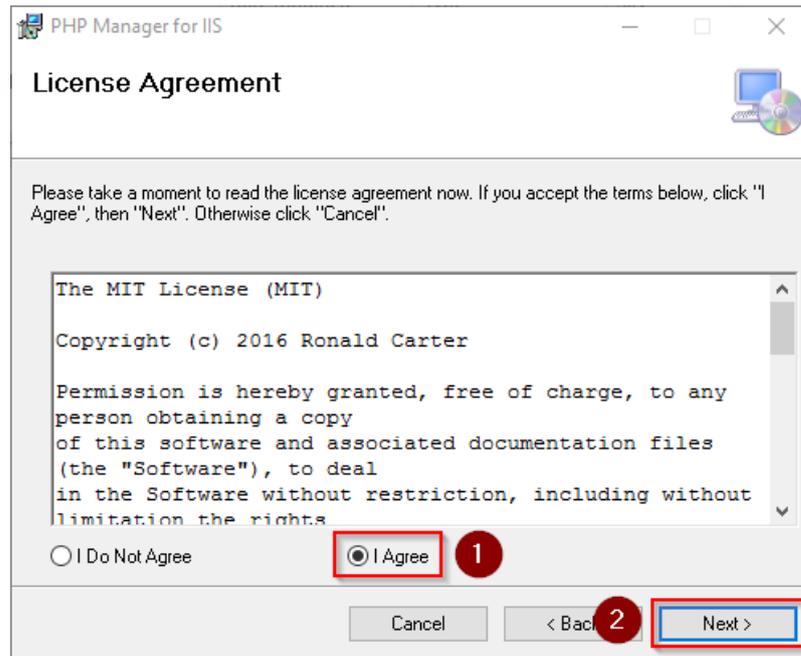
Installing PHP Manager

Open the downloaded PHPManagerForIIS_V1.5.0.msi file.

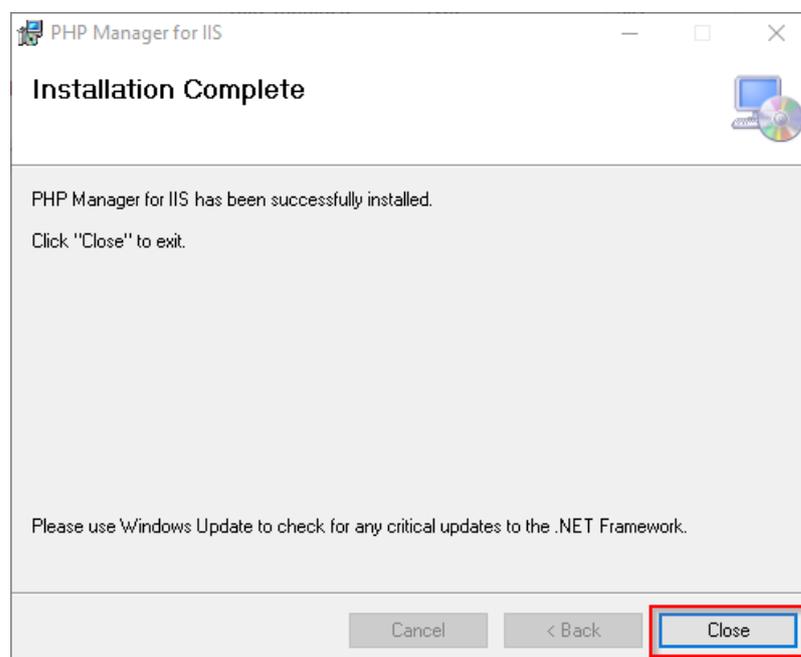
Start the installation by clicking "Next >":



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



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 "PHPManagerForIIS_V1.5.0.msi" file from your hard disk and continue to the next step ["PHP 7.3"](#).

Upgrade 3.x free to 3.x pro

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

To upgrade from **BlueSpice free 3.x to BlueSpice pro 3.x** (under Linux), follow these instructions:

1. **Create backup:** Make a database dump and save it together with the complete codebase to another storage location.
2. **Patch-update BlueSpice free (optional):** Check your current version on the Special: Version page. Compare your version with the current version of BlueSpice free. If you have not installed a relatively current version, apply a [patch update](#).
3. **Replace the codebase:** Overwrite the codebase of your current version with the new codebase of BlueSpice pro.
4. **Start the update:**
 1. Open a console and switch to the installation directory (the level of LocalSettings.php)
 2. Execute: `php maintenance/update.php`
5. **Re-index the search:**
 1. Delete search index: `php extensions/BlueSpiceExtendedSearch/maintenance/initbackends.php`
 2. Create new search index: `php extensions/BlueSpiceExtendedSearch/maintenance/rebuildIndex.php --quick`
 3. Run jobs: `php maintenance/runJobs.php`