

# Symbio system requirements

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# 1 Symbio Web

## 1.1 Overview

Symbio Web provides several installation scenarios. Currently, these installations include a single server with a local SQL Server and a two-server installation with a web server and a database server. This article describes the hardware and software requirements for Symbio Web in each of the two scenarios.

**Important:** The information in this article apply to Symbio Web only. Other listed products in this article have their own software and hardware requirements. Please contact the manufacturer of the specified product in order to get more information.

### 1.1.1 Single server installation

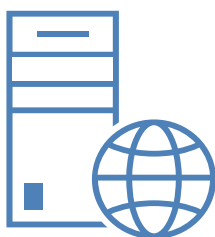
*Web server with local database*



- Web pages
- Local services
- Different plugins for different needs
- Multitenancy
- Local SQL Server database

### 1.1.2 Two server installation

*Web server*



- Web pages
- Local services
- Different plugins for different needs
- Multitenancy

*Database server*









- Hosts the Symbio databases
- Can be mirrored or clustered
- To increase performance and capacity consider adding disks to the database server or adding database servers (depending on the bottleneck)



## 1.2 Minimum hardware requirements for server

The values in the following table are minimum values for installations on a single server with a local database and for web and database servers in a two-server installation.

Installation Scenario		Deployment type and scale	RAM	Processor	Hard disk space
	<b>Single server</b>	Development or evaluation installation	4 GB	64-bit, 4 cores	1 GB plus space depending on data
	<b>Single server</b>	Production deployment	12 GB	64-bit, 4 cores	5 GB plus space depending on data
	<b>Two server</b> – web server	Development or evaluation installation	4 GB	64-bit, 4 cores	1 GB plus space depending on data
	<b>Two server</b> – web server	Production deployment	12 GB	64-bit, 4 cores	5 GB plus space depending on data
	<b>Two server</b> – database server	Development or evaluation installation	4 GB	64-bit, 4 cores	1 GB plus space depending on data
	<b>Two server</b> – database server	Production deployment	8 GB	64-bit, 4 cores	5 GB plus space depending on data

Hard disk space depends on how much content that you have in your deployment.

## 1.3 Minimum software requirements for server

This section provides minimum software requirements for each server.

Minimum requirements for *database server* including local database server in case of single server deployment:

- One of the following:
  - 64-bit edition of Microsoft SQL Server 2017 (**recommended**)  
For more information about requirements please visit [https://msdn.microsoft.com/en-us/library/ms143506\(v=sql.130\).aspx](https://msdn.microsoft.com/en-us/library/ms143506(v=sql.130).aspx)
  - 64-bit edition of Microsoft SQL Server 2016  
For more information about requirements please visit [https://msdn.microsoft.com/en-us/library/ms143506\(v=sql.130\).aspx](https://msdn.microsoft.com/en-us/library/ms143506(v=sql.130).aspx)



- 64-bit edition of Microsoft SQL Server 2014 **(deprecated)**  
For more information about requirements please visit [https://msdn.microsoft.com/en-us/library/ms143506\(v=sql.120\).aspx](https://msdn.microsoft.com/en-us/library/ms143506(v=sql.120).aspx)  
(No longer supported after May 2020)
- For **evaluation scenarios** you can use 64-bit edition of Microsoft SQL Server 2016 or 2017 Express Edition with Advanced Services.  
<https://www.microsoft.com/en-us/download/details.aspx?id=52679>  
Please note that SQL Server 2016 Express LocalDB is not supported because of missing full text feature.

Minimum requirements for a *web server or single server*:

- One of the following:
  - 64-bit edition of Windows Server 2019 Standard/Datacenter **(recommended)**
  - 64-bit edition of Windows Server 2016 Standard/Datacenter
  - 64-bit edition of Windows Server 2012 R2 Standard/Datacenter **(deprecated)**  
*Symbio still runs on Windows Server 2012 R2, if possible, a newer Windows version should be used. Automated installation scripts may cause problems under Windows Server 2012 R2.*
- Web Server (IIS) role
- Microsoft .NET Framework version 4.7.1
- For Symbio microservices: Microsoft .NET Core 3.1

## 1.4 Minimum requirements for client computers

This section provides minimum software requirements for a client computer in order to work with Symbio.

### 1.4.1 Browser support matrix

The following table summarizes the support levels of typically used web browsers

Browser	Supported	Basic support	Not supported
Microsoft Internet Explorer 11	X <sup>1</sup>		
Microsoft Internet Explorer 10 <sup>2</sup>			X
Microsoft Internet Explorer 9 <sup>3</sup>			X
Microsoft Internet Explorer 8,7,6 <sup>4</sup>			X
Microsoft Edge	X		
Mozilla Firefox ESR 31 or higher	X		

<sup>1</sup> IE 11 is fully supported, for user-experience reasons (performance) we recommend (especially) for editors to use a modern browser (Chrome, FF, Edge). In some cases, certain functions in IE 11 can only be used to a limited extent

<sup>2</sup> [Support for older versions of Internet Explorer ended on January 12th, 2016](#)

<sup>3</sup> [Support for older versions of Internet Explorer ended on January 12th, 2016](#)

<sup>4</sup> [Support for older versions of Internet Explorer ended on January 12th, 2016](#)



Google Chrome	X		
Opera		X	
Apple Safari for Mac OS		X	

Basic support means that we do not explicitly test these browsers or the user experience is not the same as in supported browsers.

## 1.5 Recommended bandwidth ranges

This section provides generally recommended bandwidth ranges.

Bandwidth ranges of 3 megabits per second (Mbps) (dual T1) and greater with latencies no greater than 250 milliseconds (ms)

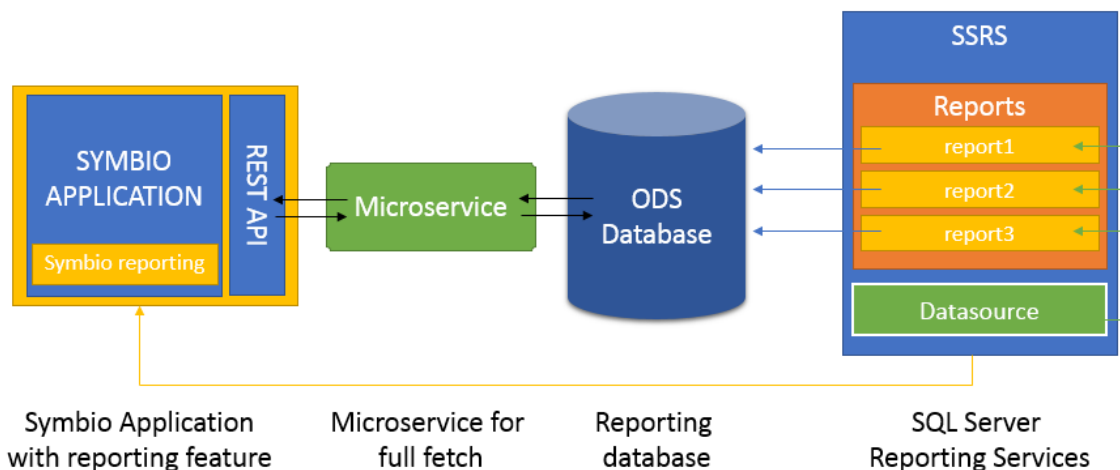


## 2 Symbio Reporting

### 2.1 Overview

Symbio reporting is important feature of Symbio. Symbio provides number of predefined reports for users to generate and print. For enabling reporting features, some additional software needs to be installed and configured. For reporting purposes standard Symbio database cannot be used, and new ODS Database must be created for reporting. Symbio uses SQL Server Reporting Services for deploying and generating reports. For end user SQL Server Reporting Services are completely transparent because reports are fully integrated into Symbio. For ODS database creation Symbio specialized REST API (RESTful Application Programming Interface) is used by Microservice, which is fetching all data from Symbio and generating data in ODS database.

#### 2.1.1 Architecture



### 2.2 Minimum software requirements for server

This section provides minimum software requirements for each server.

Minimum requirements for *reporting server* including local database server in case of single server deployment:

- One of the following:
  - 64-bit edition of Microsoft SQL Server 2017 Reporting Services (**recommended**)  
For more information about requirements please visit [https://msdn.microsoft.com/en-us/library/ms143506\(v=sql.130\).aspx](https://msdn.microsoft.com/en-us/library/ms143506(v=sql.130).aspx)
  - 64-bit edition of Microsoft SQL Server 2016 Reporting Services  
For more information about requirements please visit [https://msdn.microsoft.com/en-us/library/ms143506\(v=sql.130\).aspx](https://msdn.microsoft.com/en-us/library/ms143506(v=sql.130).aspx)



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