SharePoint Server 2019

Quick Start Guide for Single Server Farms
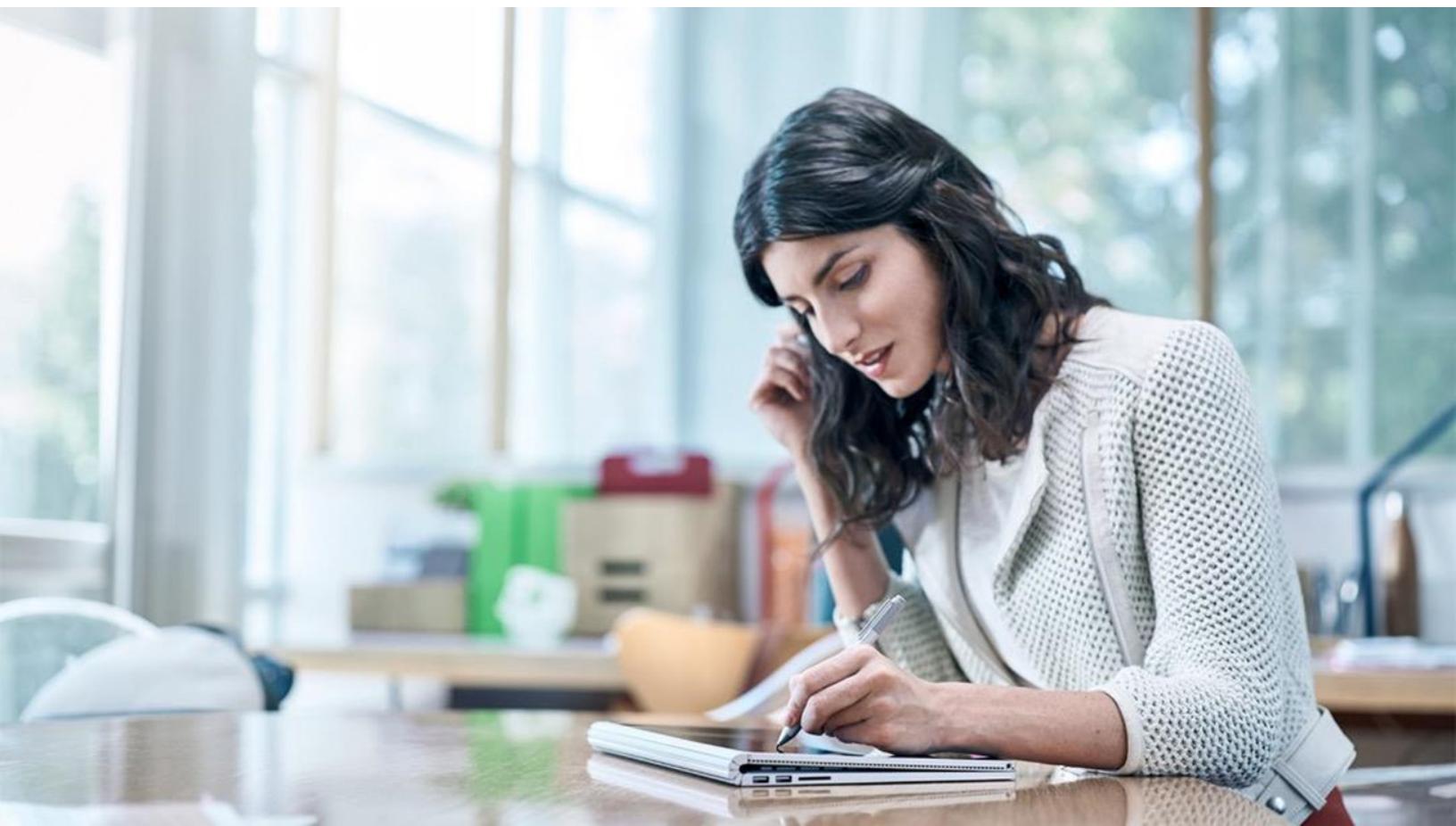
Table of contents

Hardware and software requirements

The values in the following table are minimum values for installations on a single server and for web, application, and cache servers that are running SharePoint Server 2019 in a multiple server farm installation.

For all installation scenarios, you must have sufficient hard disk space for the base installation and sufficient space for diagnostics such as logging, debugging, creating memory dumps, and so on. For production use, you also need to have additional free disk space for day-to-day operations. In addition, you should maintain two times as much free space as you have RAM for production environments.

NOTE

Hard disk space and number of drives depends on the amount of content and the way you choose to distribute data for a SharePoint environment.

Scenario	Deployment type and scale	Processor	RAM	Hard disk
Database server running a single SQL instance	Development or evaluation installation with the minimum recommended services	64-bit, 4 cores	12-16 GB	80 GB for system drive 100 GB for second drive
Database server running a single SQL instance	Pilot, user acceptance test running all available services	64-bit, 4 cores	16-24 GB	80 GB for system drive 100 GB for second drive and additional drives
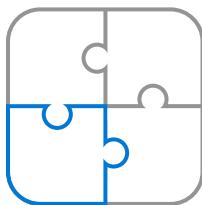
Operating system requirements

SharePoint Server 2019 is supported on Windows Server 2016 and Windows Server 2019. You can download evaluation copies of both operating systems from the Microsoft Evaluation Center:

Download Windows Server 2016
Download Windows Server 2019 Preview (LTSC)
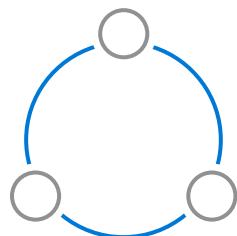
SharePoint database server requirements

SharePoint Server 2019 is supported with SQL Server 2016 and SQL Server 2017 for Windows. You can download evaluation copies of both database servers from the Microsoft Evaluation Center:

Download SQL Server 2016
Download SQL Server 2017

Prerequisites

SharePoint Server 2019 prerequisites can be installed by the SharePoint Prerequisite Installer or manually.

All the required prerequisites are installed by the SharePoint Prerequisite installer. If the server is not connected to the Internet, or if you'd prefer to install the prerequisites manually, see Hardware and software requirements for SharePoint Server 2016 to learn how to perform a manual installation. Requirements for the SharePoint Server 2019 are the same as 2016 unless explicitly called out.

Web Server (IIS) Role.

You can enable the Web Server (IIS) role in Server Manager. Additional Windows Server features are also enabled by the Prerequisite Installer. If you'd prefer to manually enable the required Windows Server roles and features using Windows PowerShell cmdlets, see Hardware and software requirements for SharePoint Server 2016 to learn how. Requirements for the SharePoint Server 2019 are the same as 2016 unless explicitly called out.

Microsoft SQL Server 2016 or Microsoft SQL Server 2017.

Installation requirements vary based on your application needs. The different editions of SQL Server accommodate the unique performance, runtime, and price requirements of organizations and individuals. The SQL Server components that you install also depend on your specific requirements. The following sections help you understand how to make the best choice among the editions and components available in SQL Server. See Requirements for Installation of SQL Server

Microsoft Sync Framework Runtime v1.0 SP1 (x64)

Microsoft Sync Framework is a comprehensive synchronization platform that enables collaboration and offline scenarios for applications, services, and devices. Developers can build synchronization ecosystems that integrate any application and any type of data, using any protocol over any network. This service pack is intended to fix a handful of bugs as well as to transition to a public-facing change tracking API that is new in SQL Compact 3.5 SP2.

Windows Server AppFabric 1.1

AppFabric is a set of integrated technologies that make it easier to build, scale, and manage web and composite applications that run on IIS. AppFabric targets applications built using ASP.NET, Windows Communication Foundation (WCF), and Windows Workflow Foundation (WF).

It provides out-of-the-box capabilities for you to easily build and manage composite applications, including:

Enhanced design and development tools in Visual Studio to build rich composite applications.

Management and monitoring of services and workflows via integration with IIS Manager and Windows PowerShell.

Distributed in-memory application cache to improve application performance.

Cumulative Update Package 7 for Microsoft AppFabric 1.1 for Windows Server (KB3092423)

This hotfix package resolves several issues and adds several features that are described at Microsoft Support.

Microsoft Identity Extensions

Microsoft Identity Extensions enable interoperable federated access to SharePoint sites using the WS-Federation standard. It is built using Windows Identity Foundation and supports the use of Active Directory Federation Services (ADFS) as an identity provider.

Microsoft Information Protection and Control Client

Active Directory Rights Management Services (AD RMS) Client 2.1 is software designed for your computers to help protect access to and usage of information flowing through applications that use AD RMS.

Microsoft WCF Data Services 5.6

WCF Data Services enables creation and consumption of data services for the web or an intranet by using the Open Data Protocol (OData). OData enables you to expose your data as resources that are addressable by URIs.

Microsoft .NET Framework 4.7.2

Microsoft .NET Framework 4.7.2 is a highly compatible, in-place update to Microsoft .NET Framework 4, 4.5, 4.5.1, 4.5.2, 4.6, 4.6.1, 4.6.2, 4.7, and 4.7.1. However, it can run side by side with the .NET Framework 3.5 Service Pack 1 (SP1) and earlier versions of the .NET Framework.

Visual C++ Redistributable Package for Visual Studio 2017

The Visual C++ Redistributable Package installs run-time components, which are required to run applications that are developed by using Visual Studio 2017, on computers that don't have Visual Studio 2017 installed.

The prerequisite installer creates log files at %TEMP%\ prerequisiteinstaller.<date>.<time>. log. You can check these log files for specific details about all changes the installer makes to the target computer.

In scenarios where installing prerequisites directly from the internet is not possible, you can download the prerequisites and then install them from a network share. For more information, see Install prerequisites for SharePoint Server from a network share
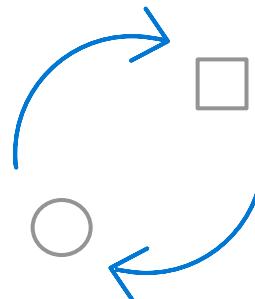
Installation

Verify that the user account that is performing this procedure is the Setup user account. For information about the Setup user account, see Initial deployment administrative and service accounts in SharePoint Server.

On the **SharePoint 2019 Start** page, click Install SharePoint Server

On the **Enter Your Product Key** page, enter the evaluation product key M692G-8N2JP-GG8B2-2W2P7-YY7J6 and then click **Continue**.

NOTE
The evaluation product key is valid for 180 days.

On the Read the Microsoft Software License Terms page, review the terms, select the I accept the terms of this agreement check box, and then click Continue.

On the File Location tab, set your default installation and data locations, and then click Install Now.

When the installation finishes, Setup prompts you to complete the configuration of your server. Ensure that the Run the SharePoint Products Configuration Wizard now check box is selected.

Click Close to start the configuration wizard.

If prompted to reboot the computer, click Yes. The Configuration Wizard will automatically start after the reboot if the Run the SharePoint Products Configuration Wizard now check box is selected.

SharePoint products and Configuration Wizard

To complete the configuration of the SharePoint Server 2019, run the SharePoint Products Configuration Wizard.

1. Verify that the user account that is performing this procedure is the Setup user account. For information about the Setup user account, see Initial deployment administrative and service accounts in SharePoint Server.

2. If you have closed the SharePoint Products Configuration

    Wizard, click Start, click Microsoft SharePoint

    2019 Products, and then click SharePoint 2019 Products Configuration Wizard. If the User Account Control dialog box appears, click Continue.

3. On the Welcome to SharePoint Products page, click Next.

4. In the dialog box that notifies you that some services might have to be restarted during configuration, click Yes.

5. On the Connect to a server farm page, click Create a new server farm and then click Next.

6. On the Specify Configuration Database Settings page, do the following:

    a) In the Database server box, type the name of the computer that is running SQL Server.

    b) In the Database name box, type a name for your configuration database or use the default database name. The default name is SharePoint_Config.

    c) In the Username box, type the user name of the server farm account. Ensure that you type the user name in the format DOMAIN\user name.

    d) In the Password box, type the password of the server farm account.

7. Click Next.

8. On the Specify Farm Security Settings page, type a passphrase and then click Next.

   Although a passphrase resembles a password, it is usually longer to improve security. It is used to encrypt credentials of accounts that are registered in SharePoint Server 2019. For example, the SharePoint Server 2019 server farm account that you provide when you run the SharePoint Products Configuration Wizard.

   Ensure that you remember the passphrase because you must use it every time that you add a server to the farm.

   Ensure that the passphrase meets the following criteria:

- Contains at least eight characters

- Contains at least three of the following four character groups:

  ▪ English uppercase characters (from A through Z)

  ▪ English lowercase characters (from a through z)

  ▪ Numerals (from 0 through 9)

  ▪ Nonalphabetic characters (such as !, $, #, %)

9. On the Specify Server Role page, select Single-Server Farm from the list of available options. This role is suitable for evaluation environments and installs all service applications, services, and components required for a single-machine farm.

10. On the Configure SharePoint Central Administration Web Application page, do the following:

a) Either select the Specify port number check box and type the port number that you want the SharePoint Central Administration web application to use, or leave the Specify port number check box cleared if you want to use the random port number chosen by default.

   b) Click either NTLM or Negotiate (Kerberos).

11. Click Next.

12. After you complete the SharePoint Products Configuration Wizard page, review your configuration settings to verify that they are correct and then click Next.

13. On the Configuration Successful page, click Finish. When the wizard closes, it opens the web browser and connects to the SharePoint Central Administration website.

14. If the SharePoint Products Configuration Wizard fails, check the PSCDiagnostics log files, which are located on the drive on which SharePoint Server 2019 is installed, in the %COMMONPROGRAMFILES%\Microsoft Shared\Web Server Extensions\16\LOGS folder.

If you are prompted for your user name and password, you might have to add the SharePoint Central Administration website to the list of trusted sites and configure user authentication settings in Internet Explorer. You might also want to disable the Internet Explorer Enhanced Security settings. If you see a proxy server error message, you might have to configure proxy server settings so that local addresses bypass the proxy server. Instructions for configuring proxy server settings are provided in the following section. For more information about how to configure browser and proxy settings, see Configure browser settings.

Farm Configuration Wizard

You have now completed setup and created a SharePoint Server 2019 farm. You have also created the SharePoint Central Administration website. You can now configure your farm and sites, and you can select services by using the Farm Configuration Wizard.

1. Verify that the user account that is performing this procedure is the Setup user account. For information about the Setup user account, see Initial deployment administrative and service accounts in SharePoint Server.

2. On the SharePoint Central Administration home page, click Configuration Wizards and then click Launch the Farm Configuration Wizard.

3. On the Help us improve SharePoint and OneDrive page, click one of the following options and then click OK:

    • Yes, I am willing to participate (Recommended). If you select this option, you must also provide an email address in the Email address field. This email address will not be sent outside of this farm, not even to Microsoft. Instead, it is used in combination with other farm data to generate a unique hash value to represent your farm when uploading telemetry data to Microsoft.

    • No, I don't want to participate.
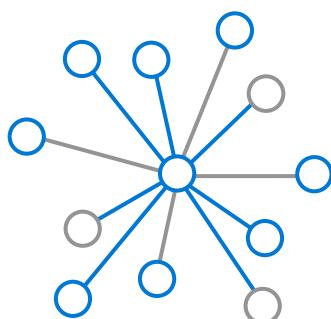
4. On the Configure your SharePoint farm page, next to Yes, walk me through the configuration of my farm using this wizard, click Start the Wizard.

5. On the Service Applications and Services page, in the Service Account section, click the service account option that you want to use to configure your services.

6. In the Service Applications section, review the service applications that you want to use in the farm.

7. In the Services section, review the services that you want to use in the farm, and then click Next.

8. On the Create Site Collection page, do the following:

a) In the Title and Description section, in the Title box, type the name of your new site.

b) Optional: In the Description box, type a description of what the site contains.

c) In the Web Site Address section, select a URL path for the site.

d) In the Template Selection section, in the Select a template list, select the template that you want to use for the top-level site in the site collection.

9. Click OK.

10. On the Configure your SharePoint farm page, review the summary of the farm configuration, and then click Finish.

Upgrade

SharePoint Server 2019 supports upgrade from SharePoint Server 2016. When you upgrade from SharePoint Server 2016 to SharePoint Server 2019, you must use a database attach upgrade, which means that you upgrade only the content for your environment and not the configuration settings.

After you have configured a new SharePoint Server 2019 environment, you can copy the content and service application databases from the SharePoint Server 2016 environment to the SharePoint Server 2019 environment. You use a backup and restore process to copy the database, and you can also choose to set the databases to read-only in the SharePoint Server 2016 environment so that users can continue to access their information, but not change it.

For more information about upgrade, see https://go.microsoft.com/fwlink/?linkid=2006134.