



SHAREPOINT SERVER 2019

A DETAILED GUIDE

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Table of Contents

About TSInfo Technologies:	2
About Authors:	2
Introduction	3
Useful Links for SharePoint Server 2019	3
SharePoint Server 2019 installation Steps	4
Hardware and software requirements for SharePoint Server 2019	4
Prerequisites for SharePoint 2019	6
SharePoint 2019 prerequisites installation.....	6
SharePoint Server 2019 Installation	11
Configure SharePoint Server 2019	16
SharePoint Installation Errors You may face.....	29
Create First Web Application	29
Create Site Collection in SharePoint Server 2019	29
Few new features in SharePoint Server 2019	33
Modern User Experiences.....	33
Modern Team Sites.....	33
Modern Site Pages.....	34
Modern List in SharePoint server 2019	34
Modern Libraries in SharePoint Server 2019	35
Communication Sites	35
OneDrive for Business.....	36
SharePoint Mobile.....	36
Large File Support, Character Restrictions, and File/Folder Names.....	36
Conclusion.....	36
Want to Learn SharePoint?.....	36

About TSInfo Technologies:

TSInfo Technologies is one of the top SharePoint development & outsourcing company in India founded by two Microsoft MVPs. We have skilled certified professionals whose focus is to deliver high-quality work. We help organizations to build intranet to collaborate more effectively.

TSInfo Technologies works in technologies like SharePoint, Office 365, Azure, PowerBI, Nintex etc.

TSInfo Technologies services includes:

SharePoint development services	SharePoint consulting services
SharePoint migration services	SharePoint/Office 365 support service
Microsoft Azure consulting service	PowerBI consulting service
SharePoint Training Service	Nintex Training Service
SharePoint/Nintex corporate training service	SharePoint Apps or Add-in development
SharePoint customization/Branding service	SharePoint workflow, web part development

For any kind of SharePoint project work or corporate training contact us:

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Sites we worked with:

<https://www.EnjoySharePoint.com> || <https://www.SPGuides.com>

About Authors:

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Bijay Kumar Sahoo is a Microsoft MVP in Office Servers and Services category specialized in SharePoint. He has more than 12+ years of experience in Microsoft technologies like SharePoint, Office 365, SharePoint Online, Azure, PowerBI, Nintex etc. Bijay is a SharePoint consultant, trainer and founder of TSInfo Technologies a SharePoint development company in India. Bijay also focuses on SharePoint technical blogging and blogs in EnjoySharePoint.com and SPGuides.com.

Note: I have taken the screenshot from the SharePoint Server 2019 preview version, the same steps can be followed for SharePoint Server 2019.

Introduction

Microsoft has released SharePoint 2019 version which you can download and install and try out the new features of SharePoint server 2019.

In SharePoint server 2019, Microsoft focused on team collaboration, user experiences across devices, and how the cloud can be blended into existing on-premises scenarios in new and compelling ways. SharePoint Server 2019 will deliver enhancements and new capabilities in three major areas:

- Modern, familiar and intuitive user experiences based on our investments in SharePoint Online
- New ways to engage with content across browsers and devices
- Robust scale, security and compliance capabilities to meet growing demands

Useful Links for SharePoint Server 2019

First of all below are few useful links of SharePoint server 2019:

Download SharePoint Server 2019

<https://www.microsoft.com/en-us/download/details.aspx?id=57462>

SharePoint Server 2019 Preview Reviewer's Guide

<https://go.microsoft.com/fwlink/?linkid=2006360>

PDF guide to install and deploy SharePoint Server 2019 Preview

<https://go.microsoft.com/fwlink/?linkid=2006253>

SharePoint Server 2019 Preview new features PDF guide

<https://go.microsoft.com/fwlink/?linkid=2006360>

SharePoint Server 2019 Preview Forum

<https://social.technet.microsoft.com/Forums/office/en-US/home?forum=SP2019>

Technical documentation for SharePoint Server 2019 Preview

<https://technet.microsoft.com/en-us/library/fp179725.aspx>

Enterprise trial product key: M692G-8N2JP-GG8B2-2W2P7-YY7J6

Standard trial product key: F2DPD-HPNPV-WHKMK-G7C38-2G22J

SharePoint Server 2019 installation Steps

This pdf contains step by step tutorial with screen shots on how to install SharePoint server 2019 in windows server 2016. The installation steps will be similar when SharePoint 2019 will be released and you will try to install. I do not think there will be any major differences.

Read an article on Windows server 2016 installation steps: <https://www.enjoysharepoint.com/windows-server-2016-installation-step-by-step-with-screen-shots/>

Also, you need to configure active directory domain services after installing Windows server 2016. Follow below article:

<https://www.sharepointsky.com/install-and-configure-windows-server-2016-active-directory-and-domain-controller/>

<https://www.sharepointsky.com/add-user-windows-server-2016/>

Before starting the installation, make sure you have gone through the hardware and software requirements for SharePoint server 2019.

The installation steps of windows server 2019 are quite similar with windows server 2016.

Below are few hardware and software requirements. But you can check the below MSDN link.

<https://docs.microsoft.com/en-us/sharepoint/install/hardware-and-software-requirements-2019>

Hardware and software requirements for SharePoint Server 2019

Below are the hardware and software requirement we should follow before installing SharePoint server 2019.

Based on your requirement there can be various installation scenarios, so make sure you should have the below guidelines for your web servers or application servers.

Installation scenario	Deployment type and scale	RAM	Processor	Hard disk space
Single server role that uses SQL Server	Development or evaluation installation of SharePoint Server 2019 Public Preview with the minimum recommended services for development environments. Use the Single-Server farm role that will let you choose which service applications to provision. For	16 GB	64-bit, 4 cores	80 GB for system drive 100 GB for second drive

	additional information on Single-Server farm role.			
Single server role that uses SQL Server	Pilot or user acceptance test installation of SharePoint Server 2019 Public Preview running all available services for development environments.	24 GB	64-bit, 4 cores	80 GB for system drive 100 GB for second drive and additional drives
Web server or application server in a three-tier farm	Development or evaluation installation of SharePoint Server 2019 Public Preview with a minimum number of services.	12 GB	64-bit, 4 cores	80 GB for system drive 80 GB for second drive
Web server or application server in a three-tier farm	Pilot, user acceptance test, or production deployment of SharePoint Server 2019 Public Preview running all available services.	16 GB	64-bit, 4 cores	80 GB for system drive 80 GB for second drive and additional drives

Operating System Requirement:

SharePoint Server 2019 will be supported any one of the below operating system:

- Windows Server 2016 Standard or Datacenter (Desktop Experience)
- Windows Server 2019 Standard or Datacenter (Desktop Experience)

Database Requirements:

SharePoint Server 2019 requires any one of the below sql server:

- Microsoft SQL Server 2016 RTM
- Microsoft SQL Server 2017 RTM for Windows

Prerequisites for SharePoint 2019

Below are the prerequisites required to install SharePoint 2019, Like SharePoint 2013, SharePoint 2019 has a Prerequisite Installer (prerequisiteinstaller.exe) which will install the required components. If not installed successfully through prerequisiteinstaller.exe, you can manually download and install the components.

- Web Server (IIS) role
- Application Server role
- Microsoft .NET Framework version 4.7.2 (<https://www.microsoft.com/net/download/dotnet-framework-runtime>)
- Microsoft SQL Server 2012 Service Pack 4 Native Client(<https://www.microsoft.com/download/details.aspx?id=56040>)
- Microsoft WCF Data Services 5.6(<https://go.microsoft.com/fwlink/p/?LinkId=320724>)
- Microsoft Identity Extensions (<https://go.microsoft.com/fwlink/?LinkId=252368>)
- Microsoft Information Protection and Control Client (MSIPC)(<https://go.microsoft.com/fwlink/p/?LinkId=544913>)
- Microsoft Sync Framework Runtime v1.0 SP1 (x64)(<https://go.microsoft.com/fwlink/p/?LinkId=618411>)
- Windows Server AppFabric 1.1(<https://go.microsoft.com/fwlink/p/?LinkId=618412>)
- Cumulative Update Package 7 for Microsoft AppFabric 1.1 for Windows Server (KB 3092423)(<https://support.microsoft.com/kb/3092423>)
- Visual C++ Redistributable Package for Visual Studio 2012(<https://go.microsoft.com/fwlink/?LinkId=627156>)
- Visual C++ Redistributable Package for Visual Studio 2017(<https://visualstudio.microsoft.com/downloads/>)

SharePoint 2019 prerequisites installation

Before installing SharePoint server 2019, we need to install prerequisites required for SharePoint 2019.

Step-1

Extract the setup file to folder and click on **prerequisiteinstaller.exe** file as shown in the below figure. This will install all the required prerequisites required for SharePoint Server 2019.

Name	Date modified	Type	Size
Catalog	8/6/2018 11:58 PM	File folder	
Files	8/6/2018 11:58 PM	File folder	
Global	8/6/2018 11:58 PM	File folder	
Setup	8/7/2018 12:01 AM	File folder	
Updates	8/7/2018 12:01 AM	File folder	
WSS.en-us	8/7/2018 12:01 AM	File folder	
autorun	7/3/2018 6:21 AM	Icon	2 KB
autorun	7/3/2018 6:21 AM	Setup Information	1 KB
default	7/3/2018 8:35 AM	HTML Application	15 KB
PrerequisiteInstaller	7/12/2018 11:34 A...	Application	5,586 KB
setup	7/3/2018 6:21 AM	Windows Comma...	1 KB
setup.dll	7/12/2018 11:34 A...	Application extens...	1,200 KB
setup	7/12/2018 11:34 A...	Application	268 KB
splash	7/3/2018 8:35 AM	HTML Application	3 KB
svrsetup.dll	7/12/2018 11:34 A...	Application extens...	16,178 KB
vcruntime140.dll	12/19/2017 1:48 PM	Application extens...	86 KB

Step-2

After clicking prerequisite installer, a Microsoft software license terms will come. Here select "I accept the terms of the License Agreement(s)" and click to next.

Microsoft® SharePoint® 2019 Products Preparation Tool

License Terms for software products.
This solution requires that you install each of the following software modules and agree to their license terms. Please review the license terms.

MICROSOFT SOFTWARE LICENSE TERMS

MICROSOFT SHAREPOINT 2019 AND PROJECT SERVER 2019 PRODUCTS PREPARATION TOOL

These license terms are an agreement between you and Microsoft Corporation (or one of its affiliates). They apply to the software named above and any Microsoft services or software updates (except to the extent such services or updates are accompanied by new or additional terms, in which

Be sure to carefully read and understand all of the rights and restrictions described in the EULA. You must accept the terms of the EULA before the products can be downloaded and installed on your computer.

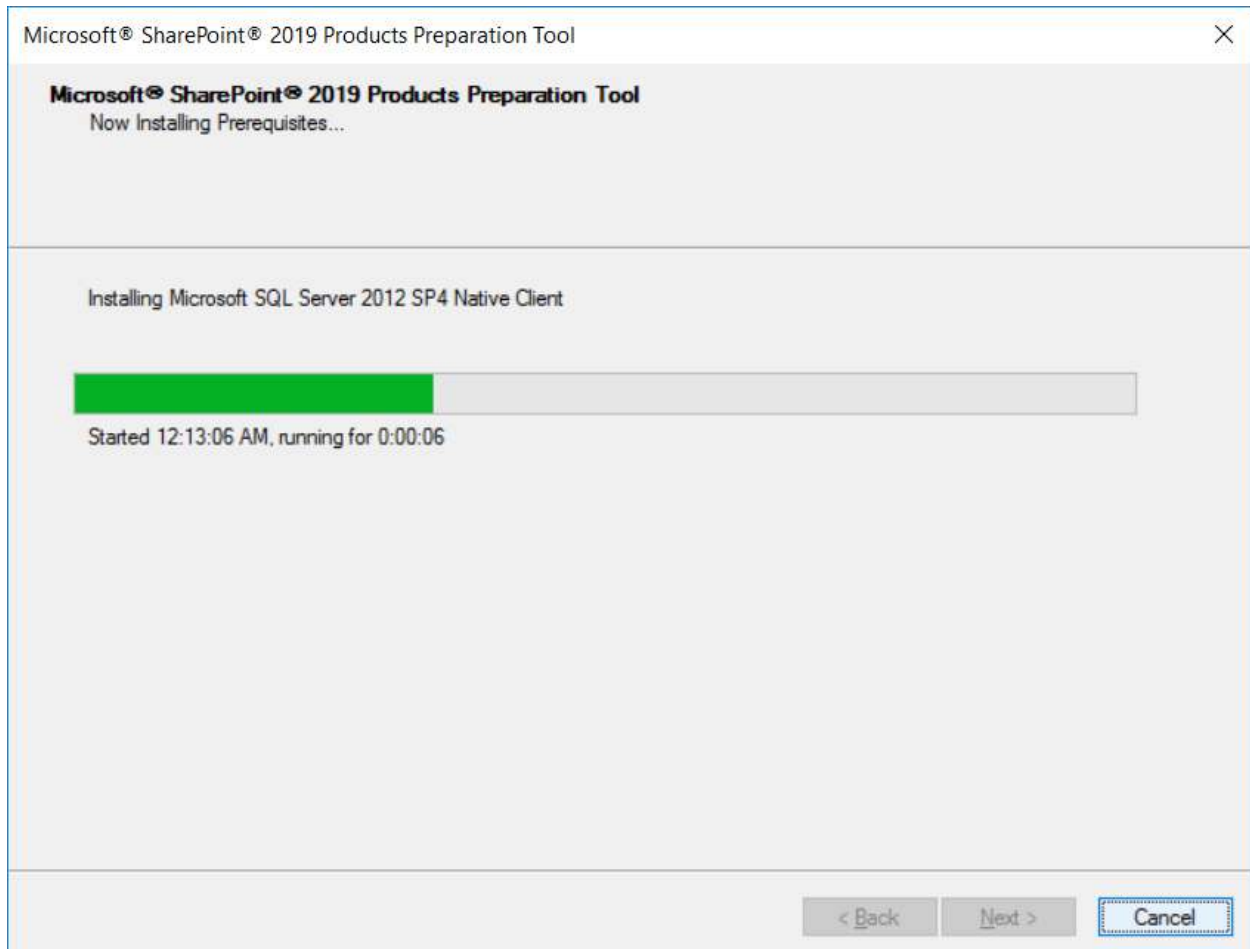
I have read, understood, and agreed to the terms of the End User License Agreement(s) and so signify by clicking "I accept the terms of the License Agreement(s)" and using these products.

I accept the terms of the License Agreement(s)

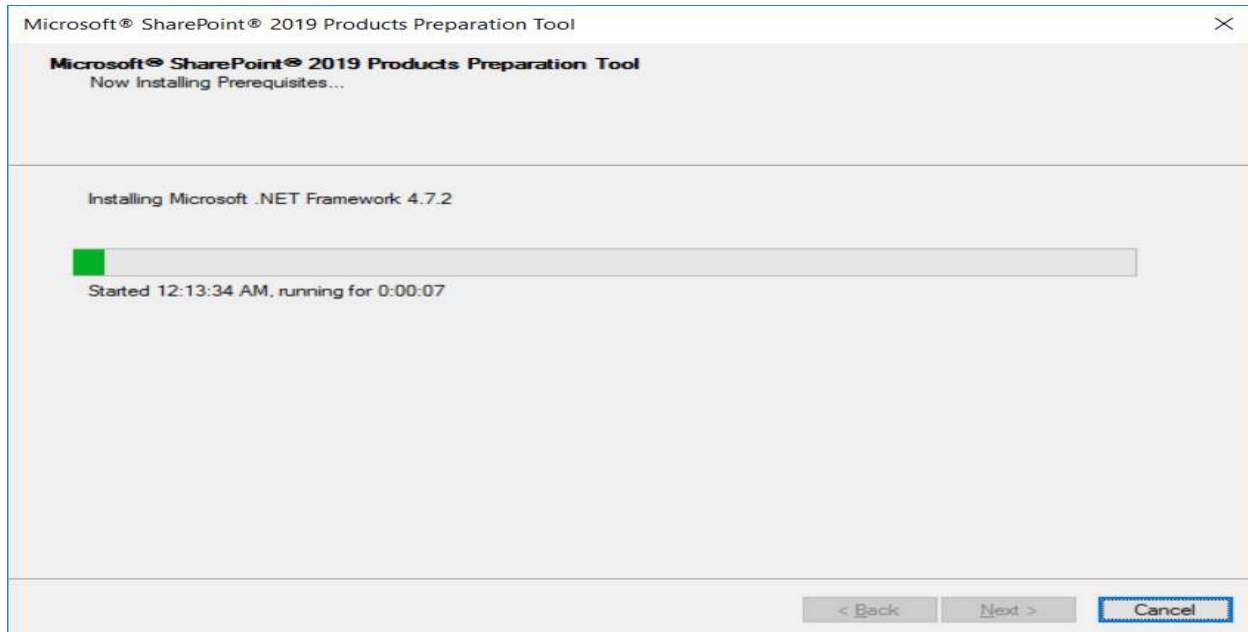
Then it will start the Prerequisites Installation and it may restart the computer couple of times.

Step-3

This will start the installation, below screen shot you can see it is installing “Microsoft SQL Server 2012 SP4 Native Client”.

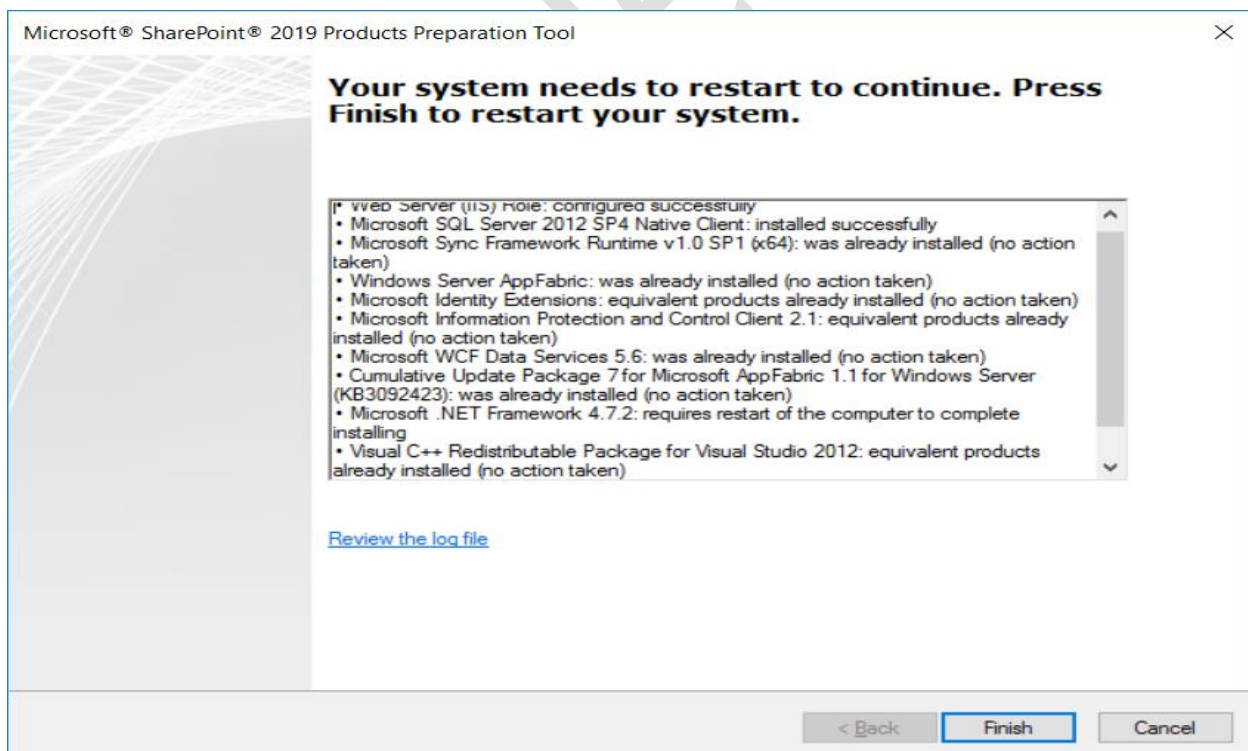


Then you can see it is trying to install “Microsoft .NET Framework 4.7.2”.

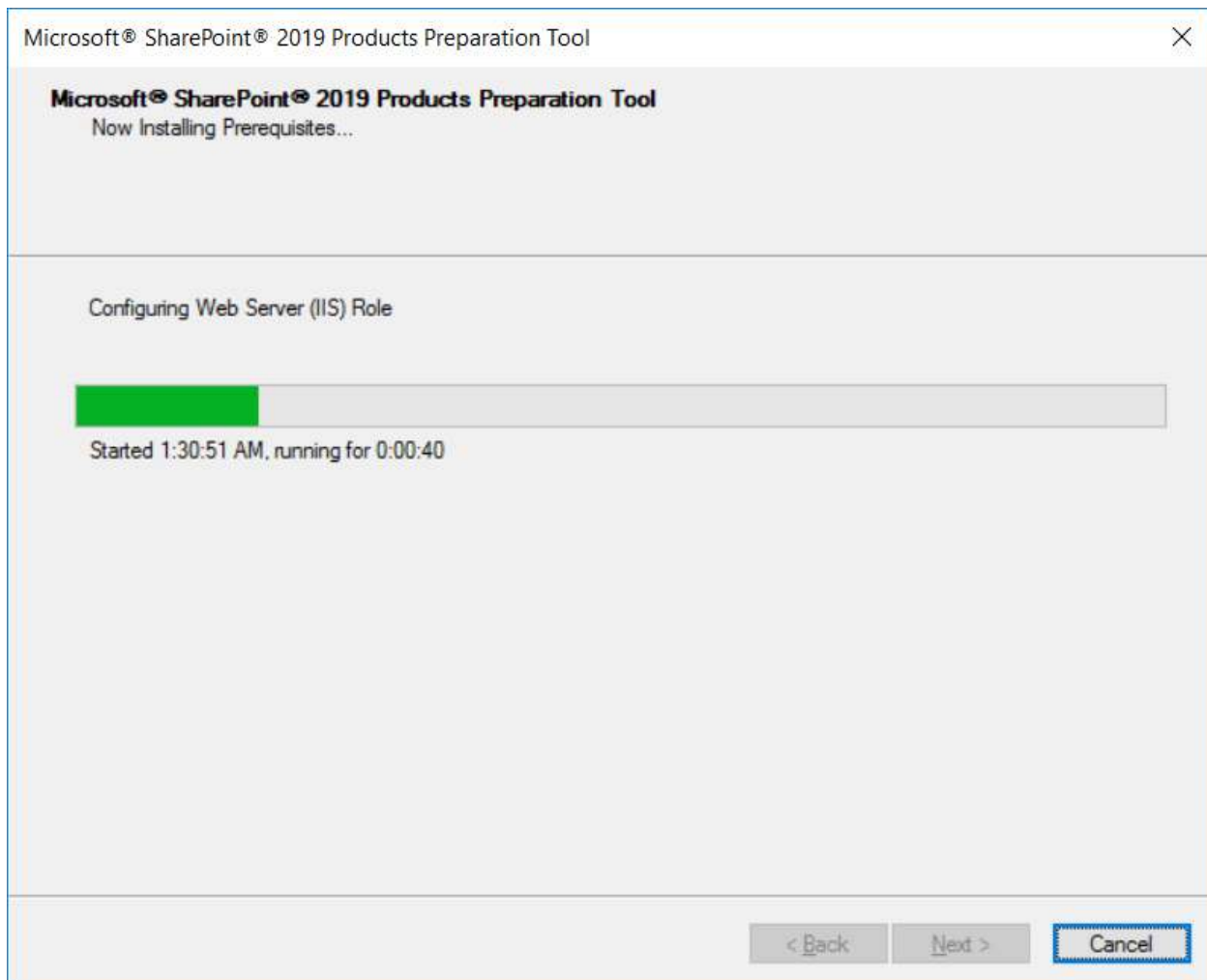


Step-4

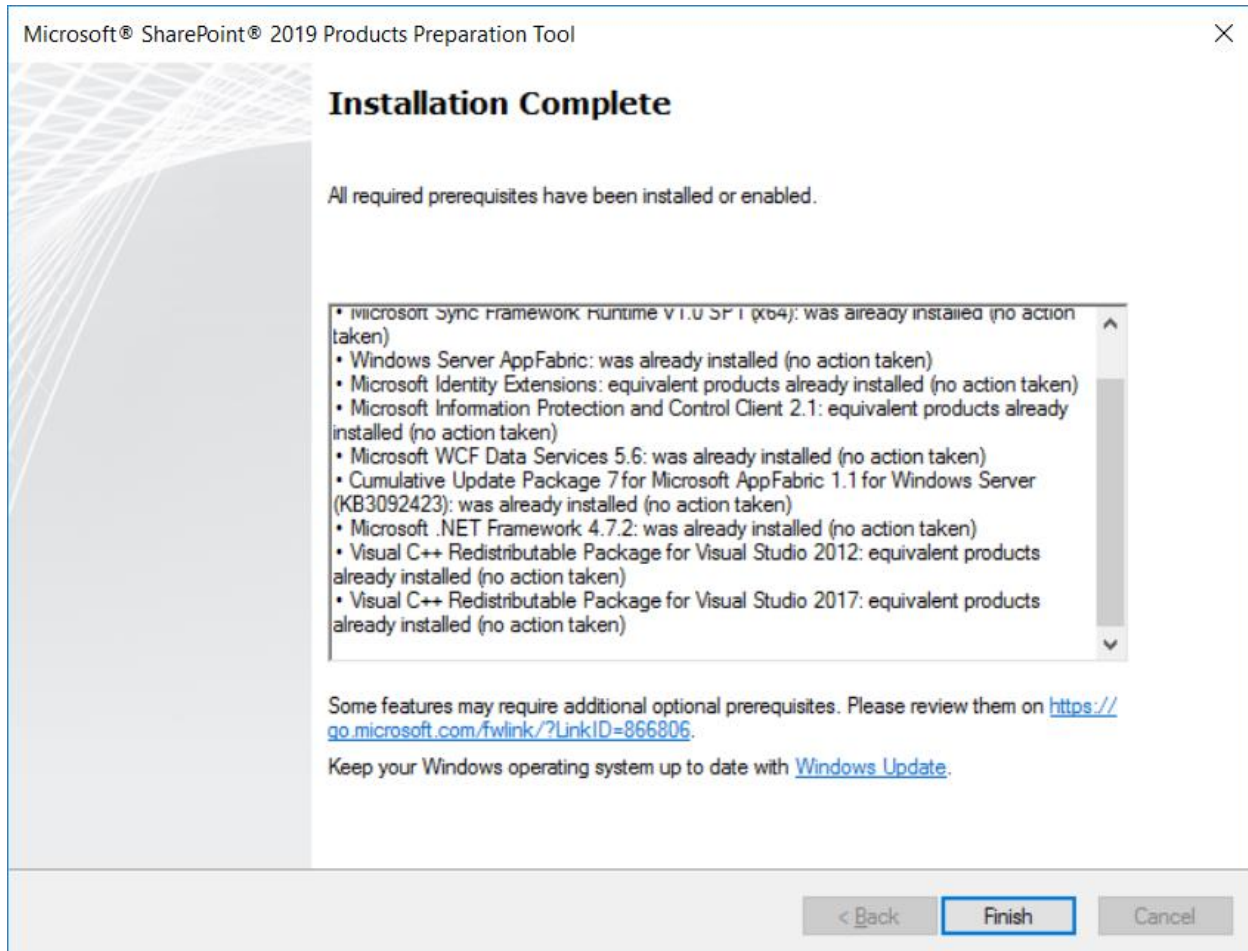
During the installation it will ask you to restart the system to continue the installation. Click Finish to continue the installation.



Note: If anyone of the prerequisites are fail, then resolve that before proceeding for SharePoint server 2019 installation process.



Once the installation is over, it will display **Installation Complete** screen. You can see the fig below:

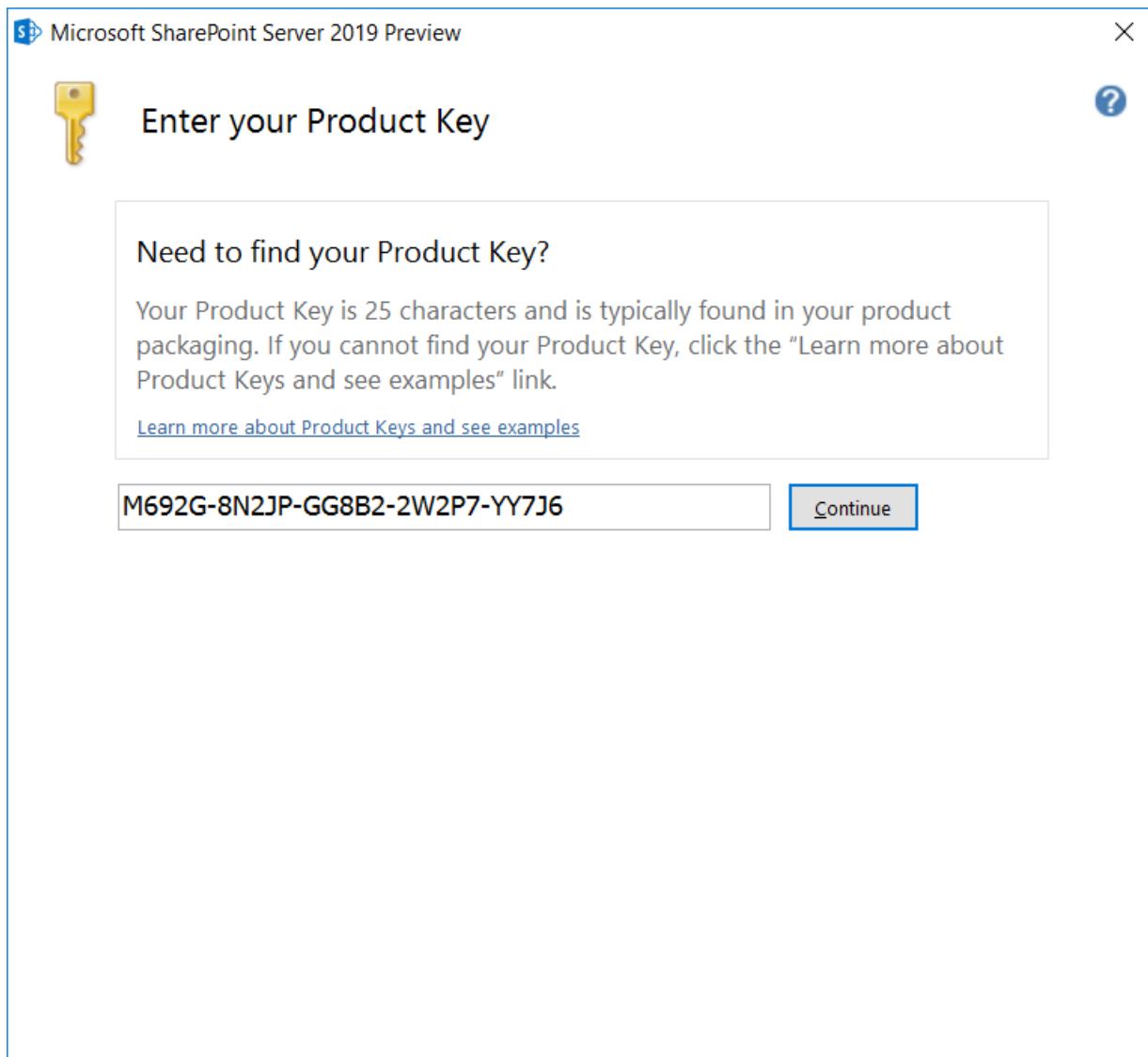


SharePoint Server 2019 Installation

Once the prerequisites installation over, we can now install SharePoint server 2019.

Step-1

Once you click on **setup.exe** file, Then it will ask you to give enter your product key which is 25 characters and click on to continue. You can insert the trial version product key as mentioned above.



The screenshot shows a dialog box titled "Microsoft SharePoint Server 2019 Preview" with a close button (X) in the top right corner. On the left, there is a yellow key icon and the text "Enter your Product Key". On the right, there is a blue question mark icon. The main content area contains the following text:

Need to find your Product Key?

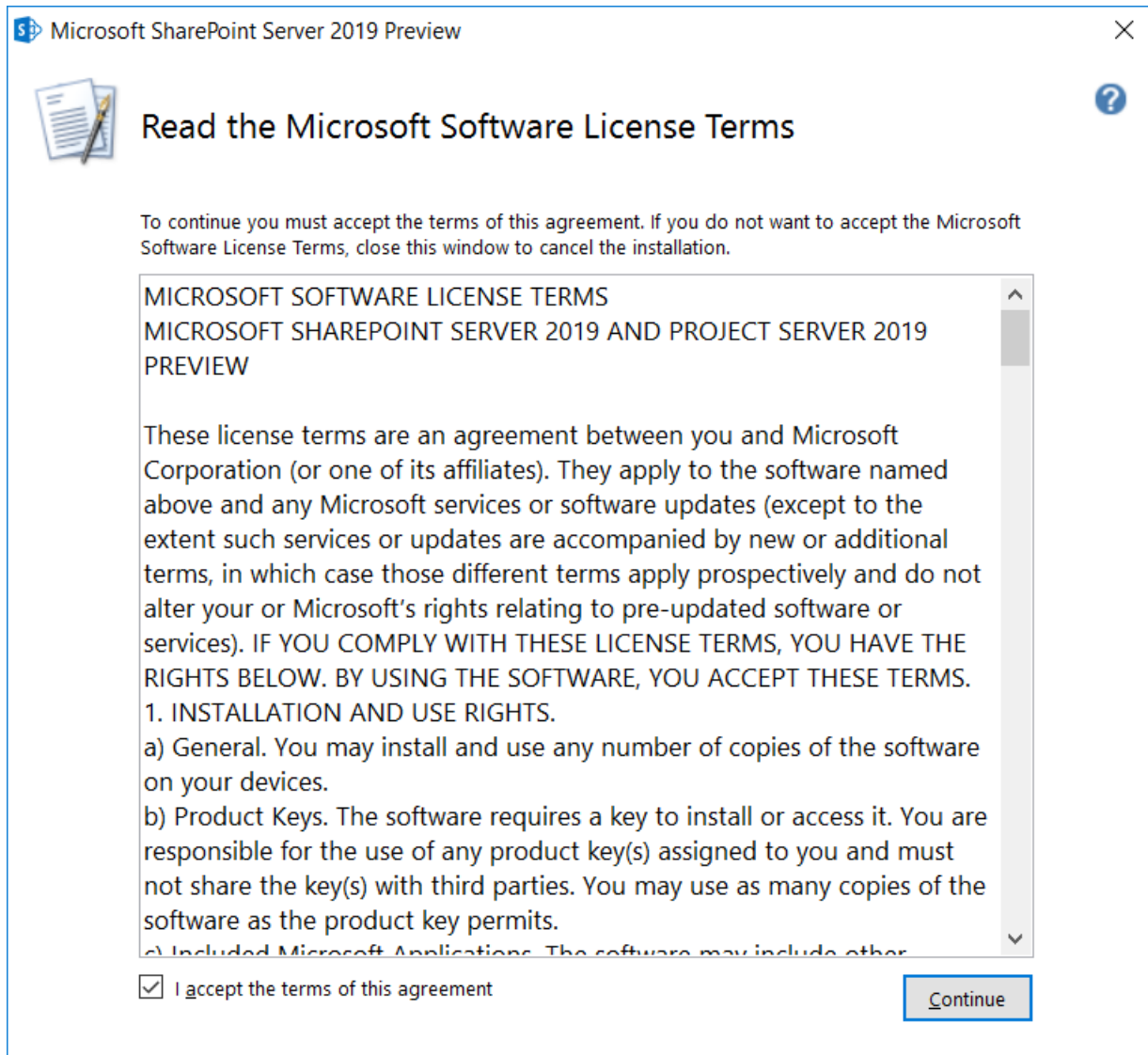
Your Product Key is 25 characters and is typically found in your product packaging. If you cannot find your Product Key, click the "Learn more about Product Keys and see examples" link.

[Learn more about Product Keys and see examples](#)

Below the text is a text input field containing the product key: **M692G-8N2JP-GG8B2-2W2P7-YY7J6**. To the right of the input field is a "Continue" button.

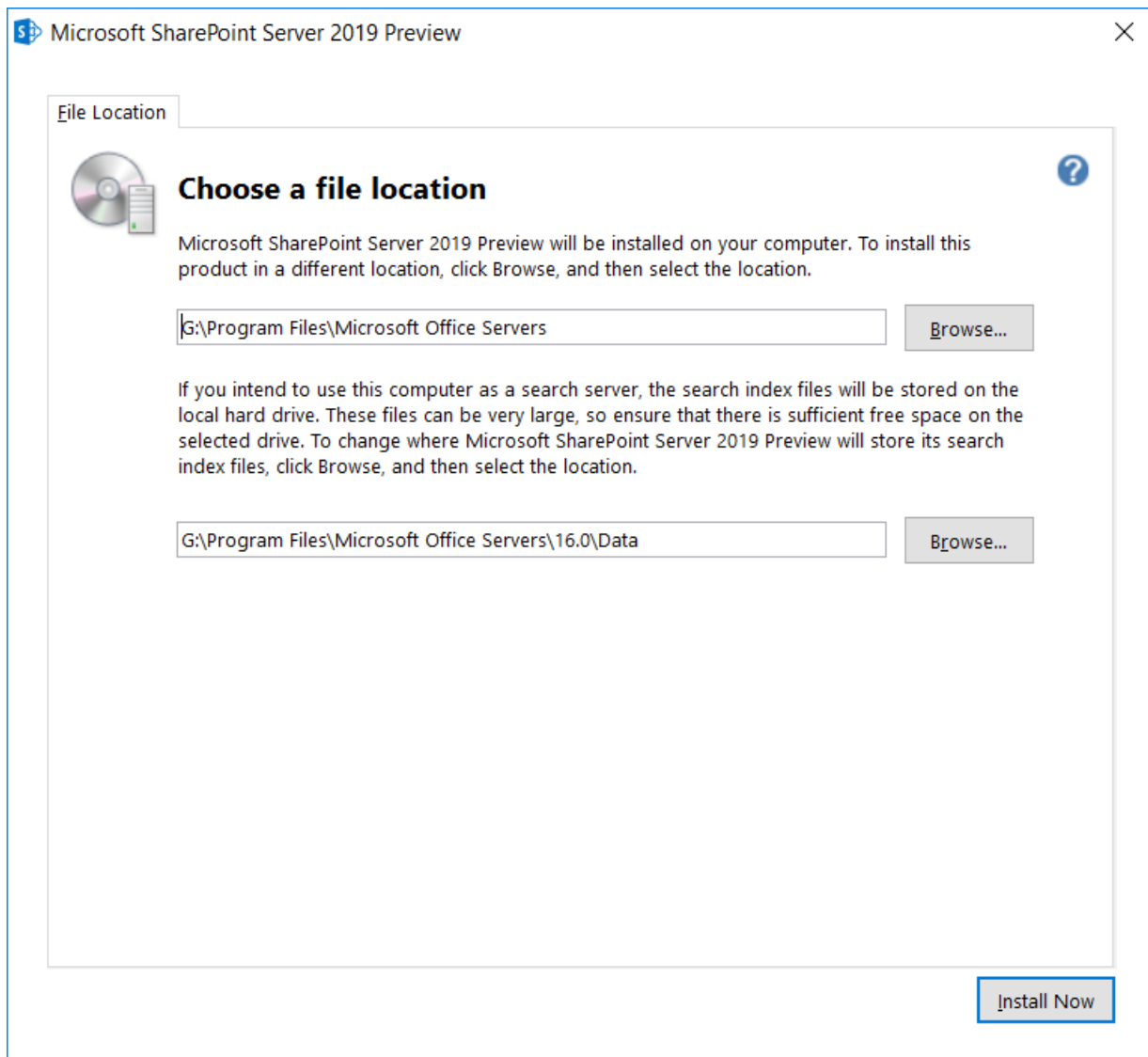
Step-2

Read the Microsoft Software License Terms of Microsoft SharePoint Server 2019. Then select the check box of **"I accept the terms of this agreement"** and click on continue like the below screenshot.



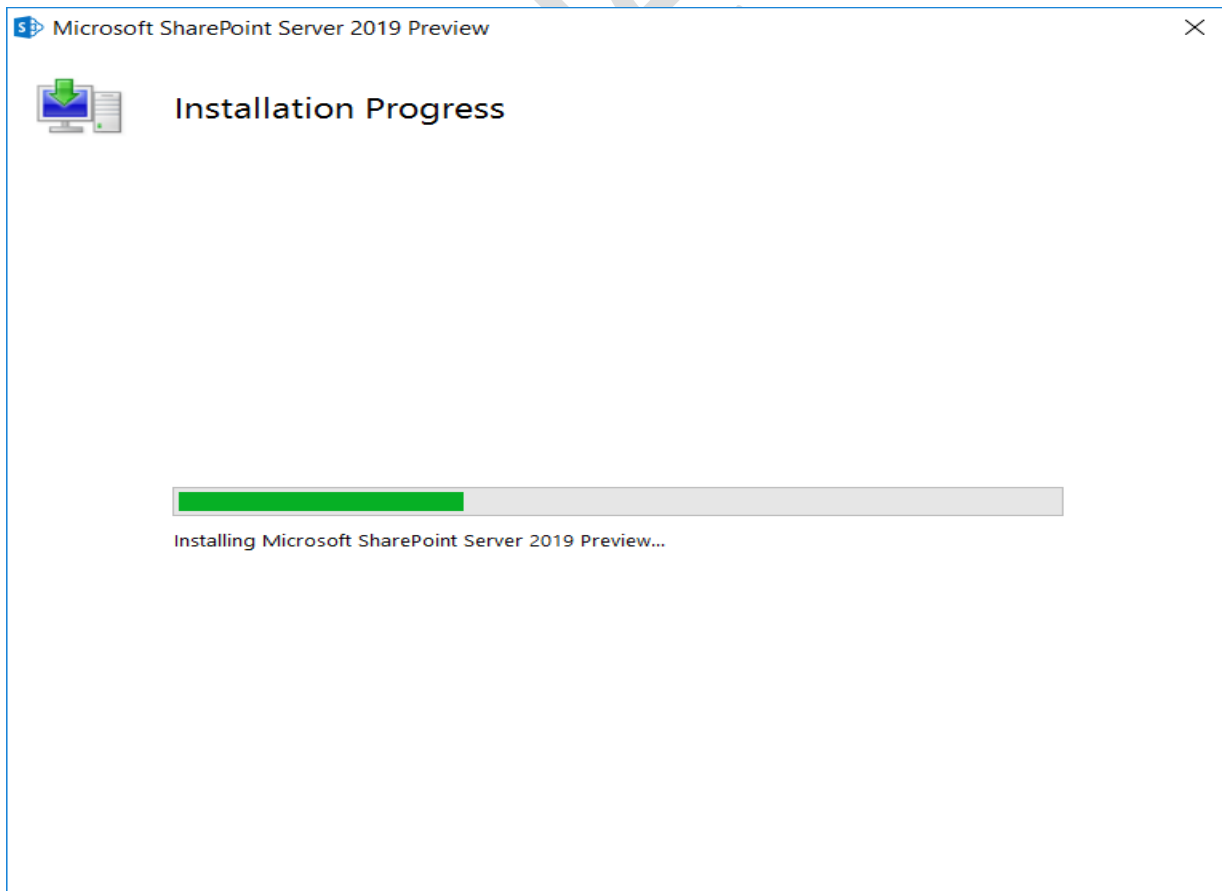
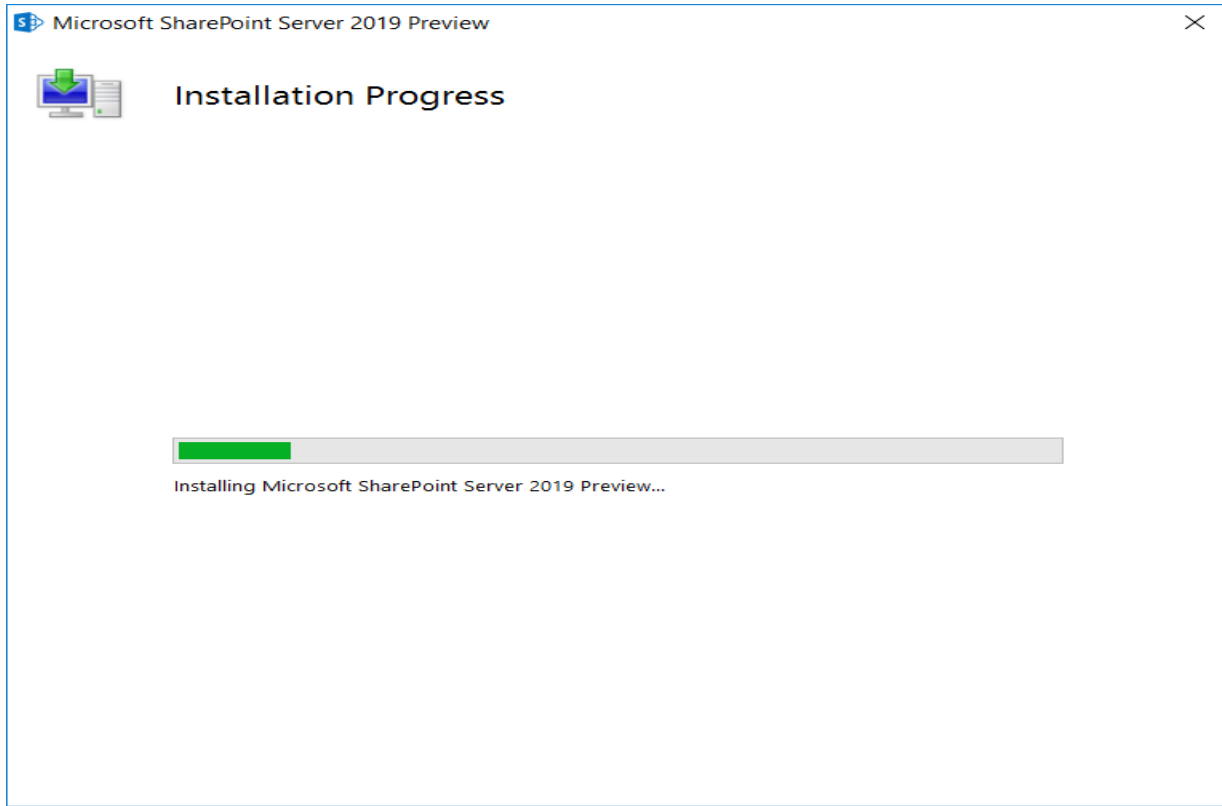
Step-3

In this "Choose a file location", no need to browse anything. So just go for 'Install Now' as below in the screenshot of Microsoft SharePoint Server 2019. If you want to change the installation location, you can change also by using the "Browse" option like below screenshot.



Step-4

Then you can see the installation progress in the “**installation progress**” dialog box in Microsoft SharePoint Server 2019. The installation will be running and it will take some time to complete the installation process like below figure.

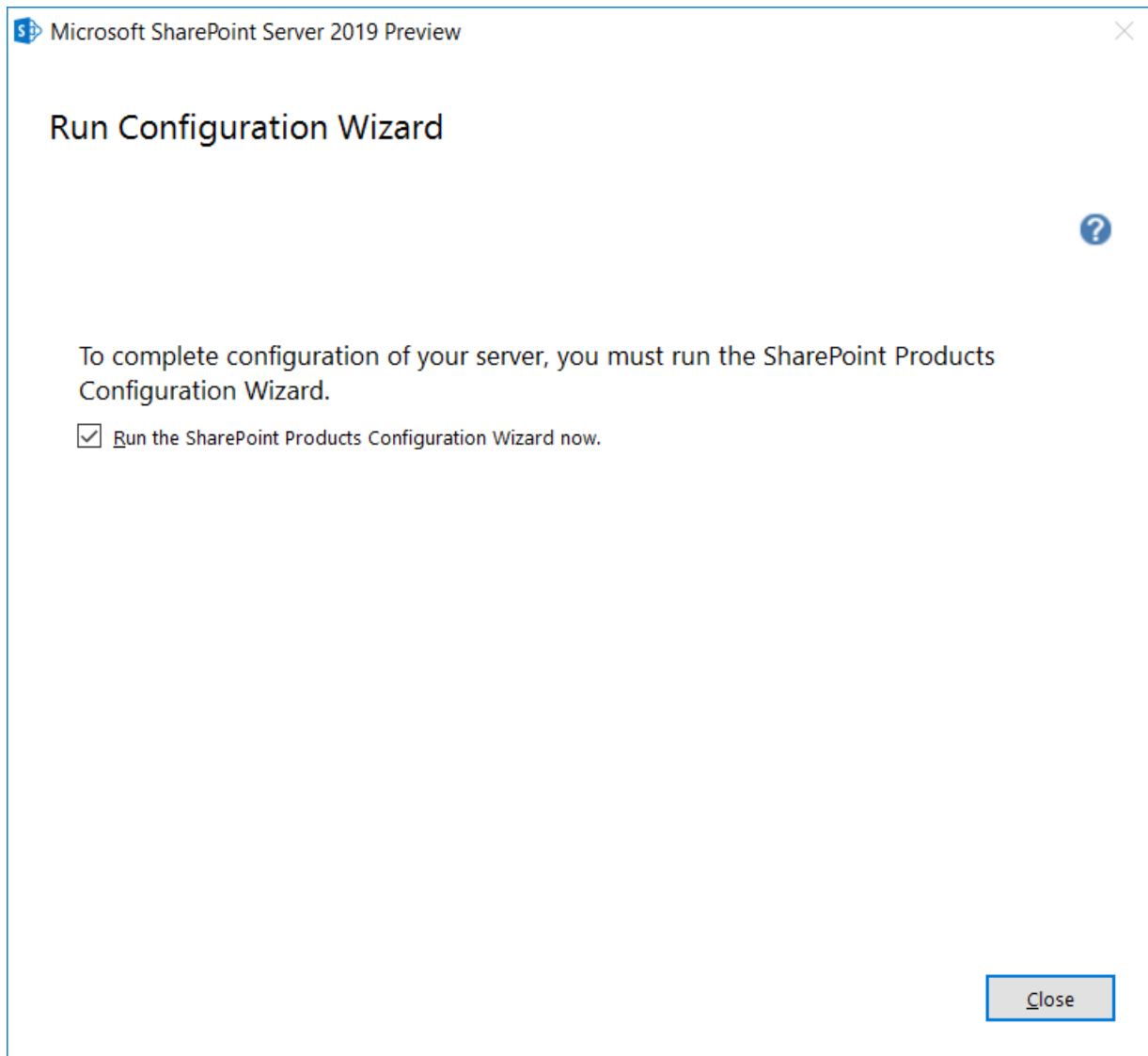


Configure SharePoint Server 2019

Once the installation over, we can start the SharePoint server 2019 Preview configuration wizard.

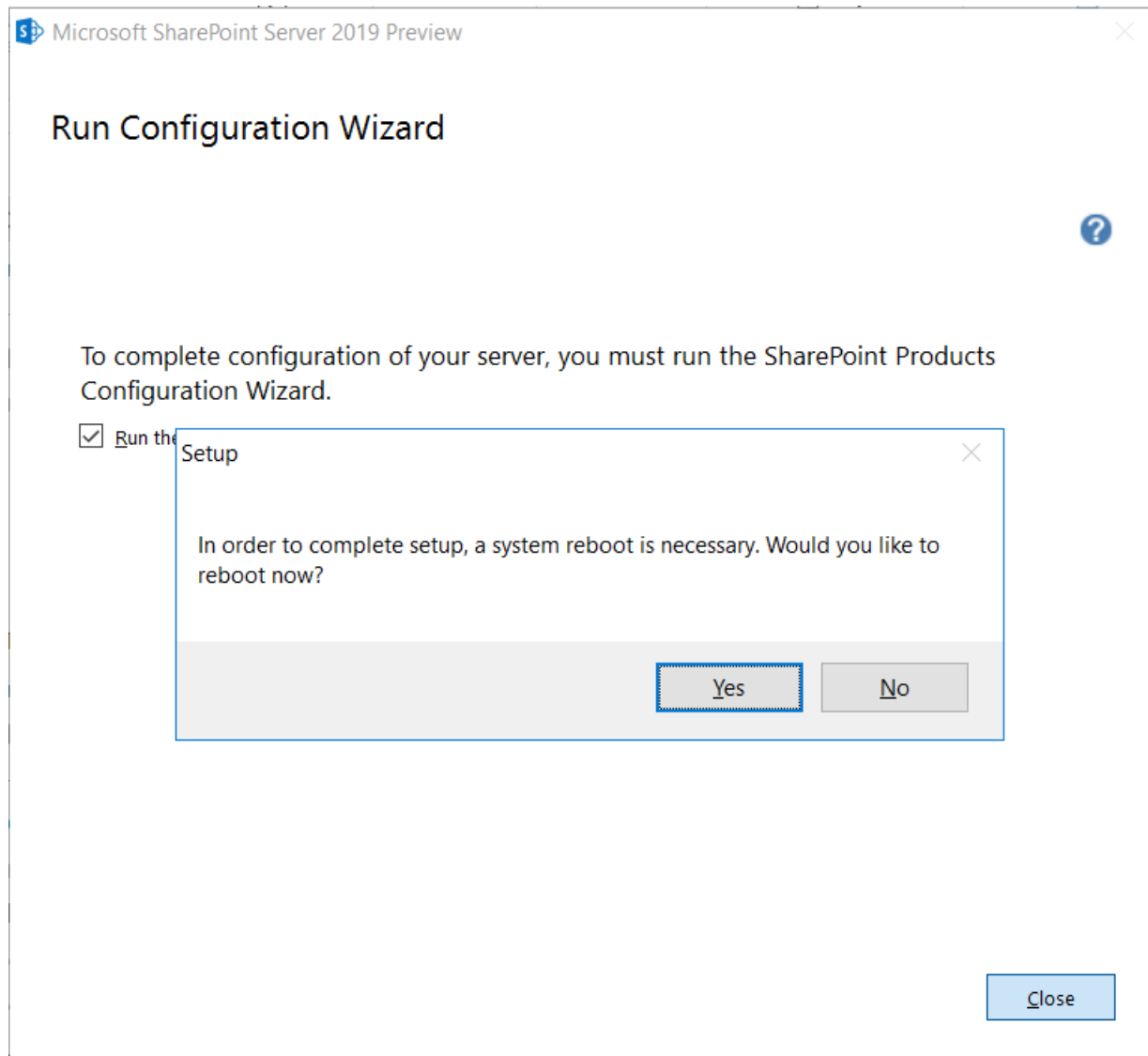
Step-1

After installation complete, it will open the “**Run Configuration Wizard**”. To configure your server, just select the check box of ‘Run the SharePoint Products Configuration Wizard now’ and click to close as like below screenshot.



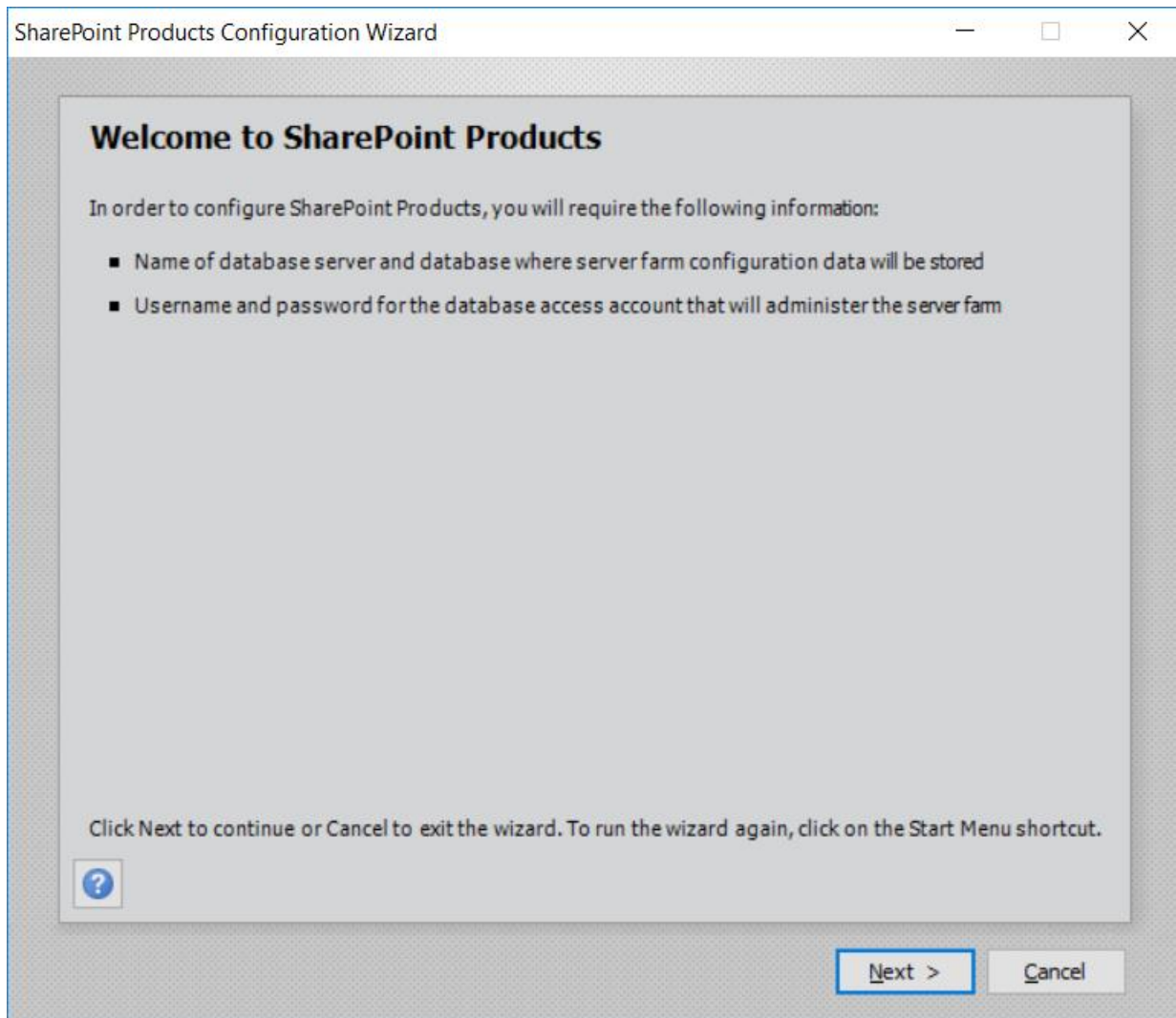
Step-2

After closing the “Run Configure Wizard”, A Setup box will come where a system necessary to reboot. If you want to reboot at that configuration time, then click on “Yes” and if you don’t want to reboot, then click on “No” and again click on “Close” option for closing the Run Configuration Wizard.



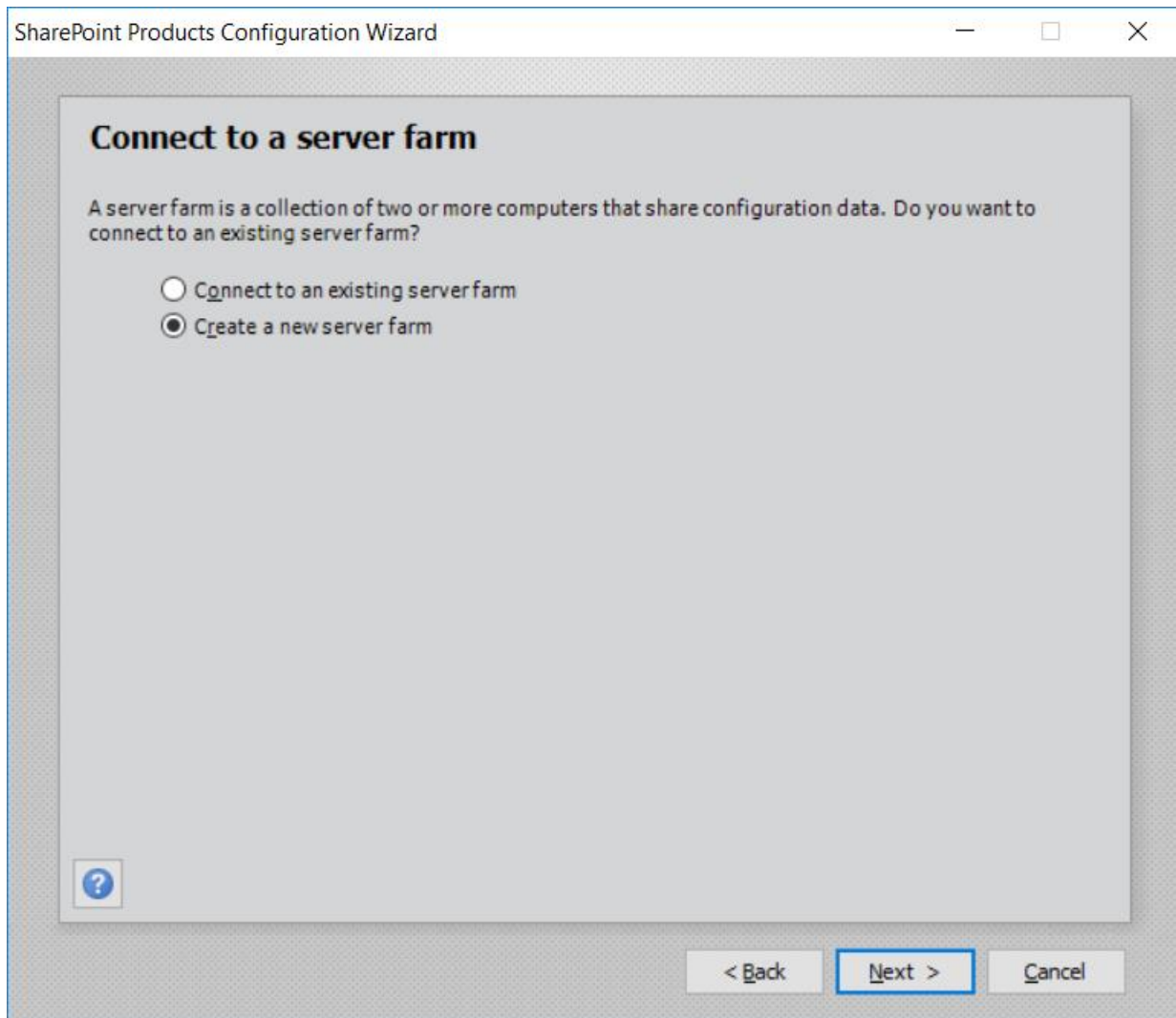
Step-3

Then it will display the Welcome to SharePoint Products dialog box in SharePoint Products Configuration Wizard. Here it will ask to keep the Name of the databases server and database and also to keep the Username and password to access the database. Those things will required in the following screens. Then click "Next" to continue the Wizard.



Step-4

After clicking "Next" to the Wizard, it will display a page named as "Connect to a server farm". Here choose "create a new server farm" for creating a new server farm and then click on to next. If you want to connect to an existing farm, then you can choose Connect to an existing server farm.



Step-5

After clicking “Next” of Server Farm. Here it will ask you to provide

- Database server
- Database name
- Username – This should be a domain account, else it will give error.
- Password

SharePoint Products Configuration Wizard

Specify Configuration Database Settings

All servers in a server farm must share a configuration database. Type the database server and database name. If the database does not exist, it will be created. To reuse an existing database, the database must be empty. For additional information regarding database server security configuration and network access please see [help](#).

Database server:

Database name:

Specify Database Access Account

Select an existing Windows account that this machine will always use to connect to the configuration database. If your configuration database is hosted on another server, you must specify a domain account.

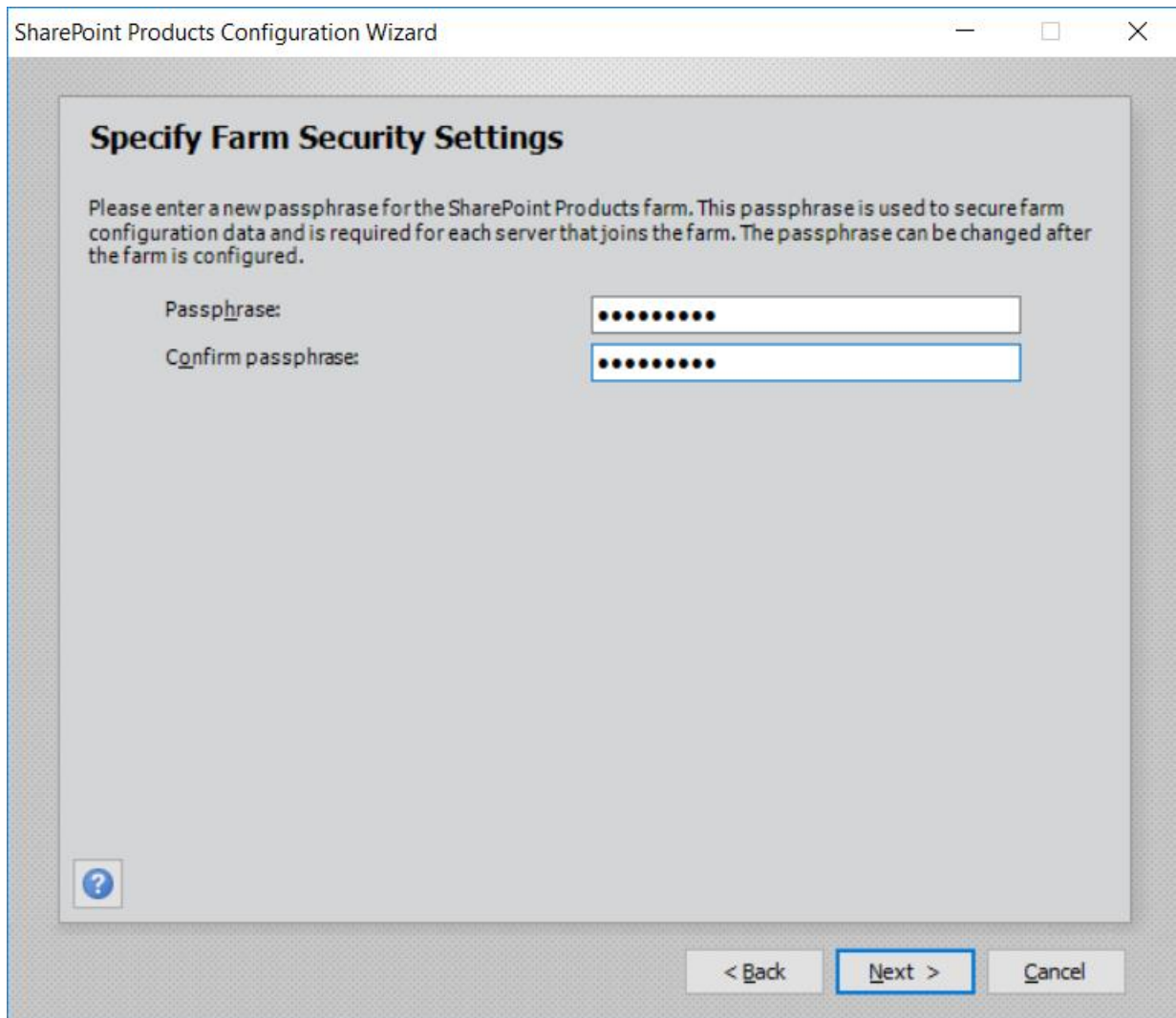
Type the username in the form DOMAIN\User_Name and password for the account.

Username:

Password:

Step-6

Then it will ask the Passphrase and Confirm passphrase. This is required when you want to join servers to the farm.



SharePoint Products Configuration Wizard

Specify Farm Security Settings

Please enter a new passphrase for the SharePoint Products farm. This passphrase is used to secure farm configuration data and is required for each server that joins the farm. The passphrase can be changed after the farm is configured.

Passphrase:

Confirm passphrase:

< Back Next > Cancel

Step-7

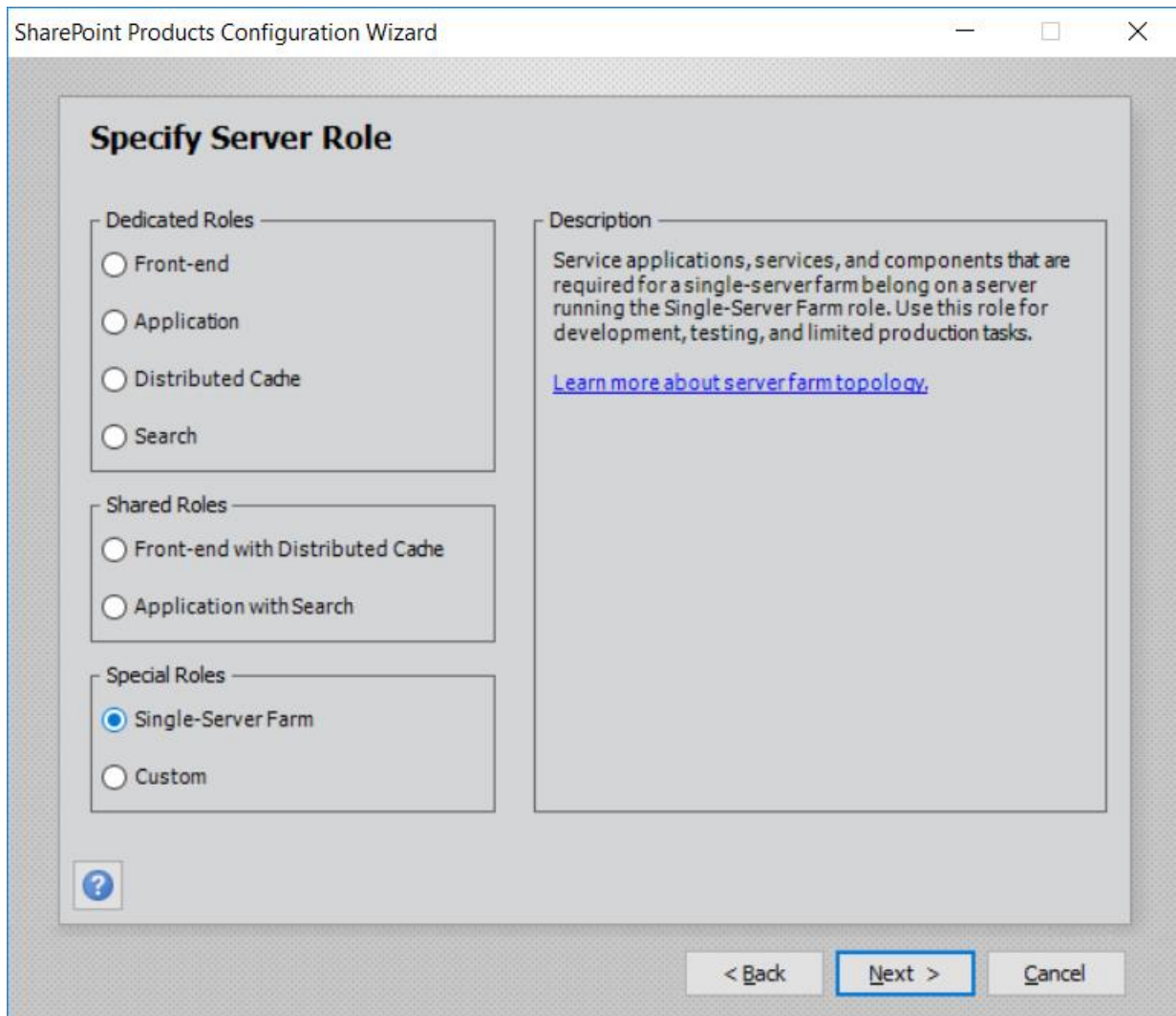
The next step is very important and little different from SharePoint server 2016 installation screen. This is known as MinRole and we need to specify the role of the server here.

Below are 8 roles will be there:

- Front-end
- Application
- Distributed Cache
- Search
- Front-end with Distributed Cache
- Application Search
- Single-Server Farm

Here we are trying for a Single server farm, so choose “Single-Server Farm” like below:

Custom

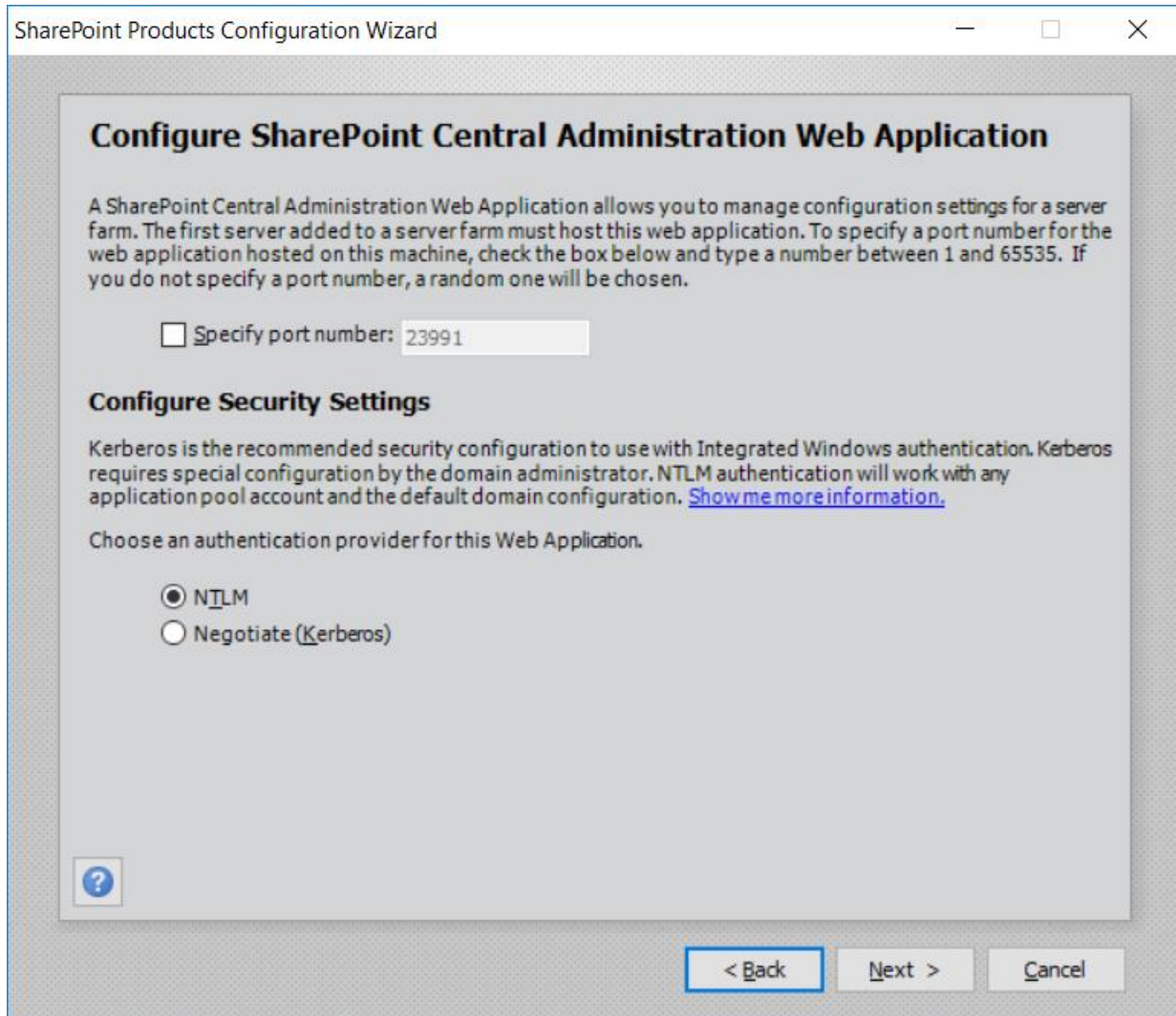


The screenshot shows the 'Specify Server Role' step of the SharePoint Products Configuration Wizard. The window title is 'SharePoint Products Configuration Wizard'. The main content area is divided into two columns. The left column contains three sections of radio button options: 'Dedicated Roles' with options for 'Front-end', 'Application', 'Distributed Cache', and 'Search'; 'Shared Roles' with options for 'Front-end with Distributed Cache' and 'Application with Search'; and 'Special Roles' with options for 'Single-Server Farm' (which is selected) and 'Custom'. The right column is titled 'Description' and contains text explaining that service applications, services, and components for a single-server farm belong on a server running the Single-Server Farm role, and it is used for development, testing, and limited production tasks. A link '[Learn more about server farm topology.](#)' is provided. At the bottom of the wizard, there are three buttons: '< Back', 'Next >' (which is highlighted with a blue border), and 'Cancel'. A help icon (?) is located in the bottom left corner of the main content area.

Step-8

Then it will display the default port number which you can change if you want to by check the checkbox and providing the new port number.

Also leave the authentication provider as NTLM like below:



SharePoint Products Configuration Wizard

Configure SharePoint Central Administration Web Application

A SharePoint Central Administration Web Application allows you to manage configuration settings for a server farm. The first server added to a server farm must host this web application. To specify a port number for the web application hosted on this machine, check the box below and type a number between 1 and 65535. If you do not specify a port number, a random one will be chosen.

Specify port number:

Configure Security Settings

Kerberos is the recommended security configuration to use with Integrated Windows authentication. Kerberos requires special configuration by the domain administrator. NTLM authentication will work with any application pool account and the default domain configuration. [Show me more information.](#)

Choose an authentication provider for this Web Application.

NTLM
 Negotiate (Kerberos)

Step-9

Then in the next screen, it will display all the configuration settings details like below:

SharePoint Products Configuration Wizard


Completing the SharePoint Products Configuration Wizard

The following configuration settings will be applied:

■ Configuration Database Server	TSINFOTECH
■ Configuration Database Name	SharePoint_Config
■ Host the Central Administration Web Application	yes
■ Central Administration URL	http://tsinfotech:23991/
■ Authentication provider	NTLM
■ Local Server Role	Single-Server Farm

Click Next to apply configuration settings.

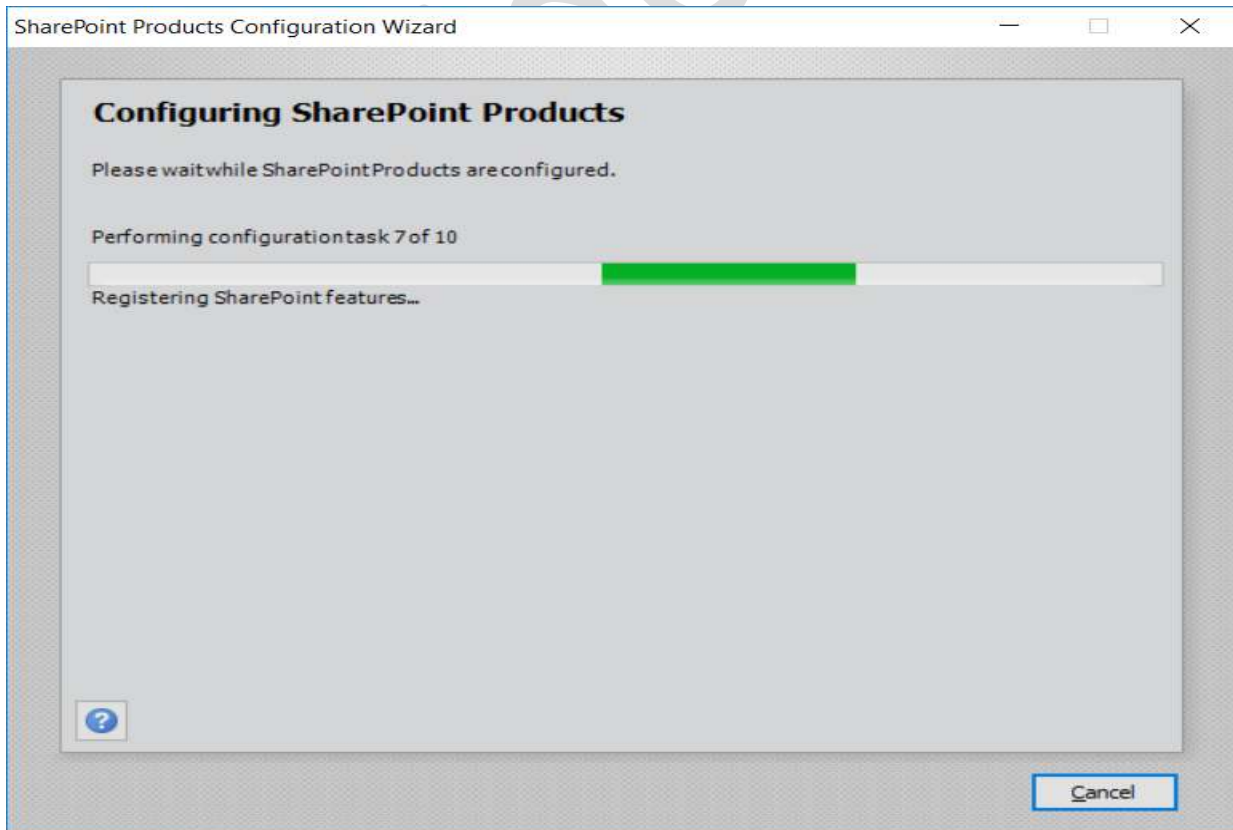
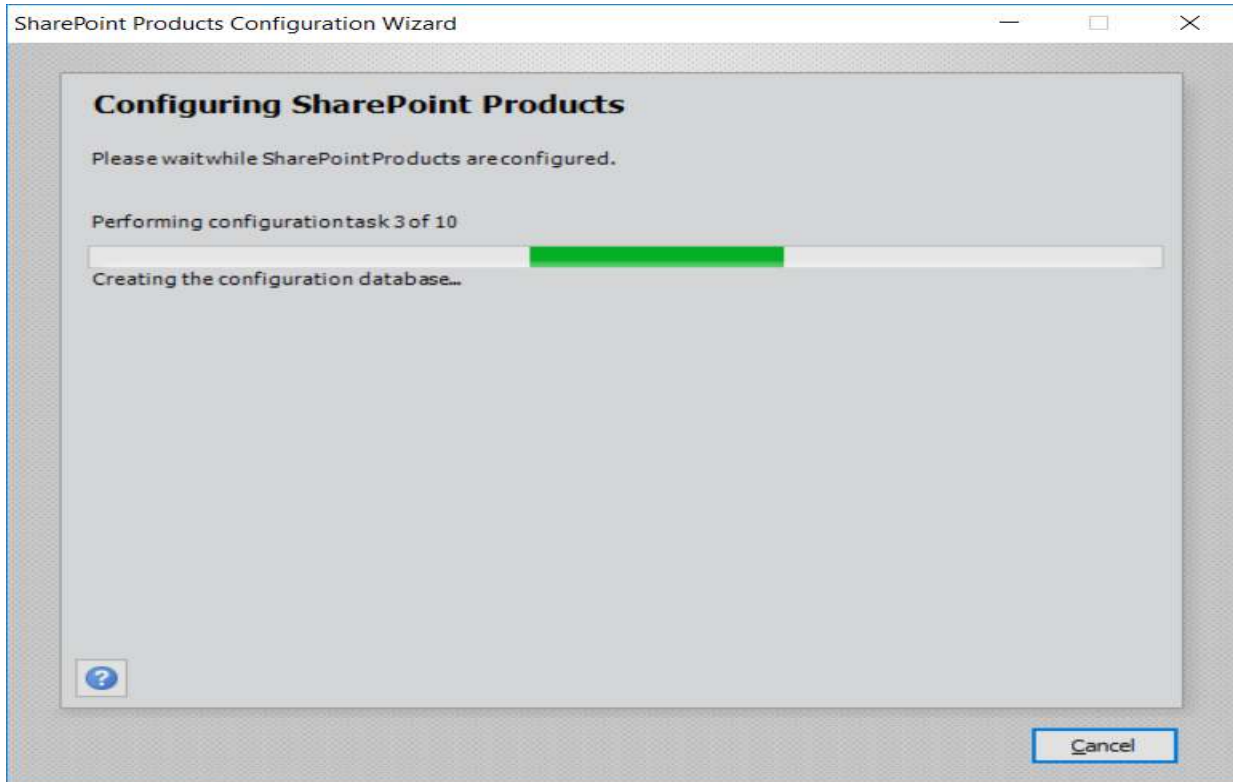
[Advanced Settings](#)

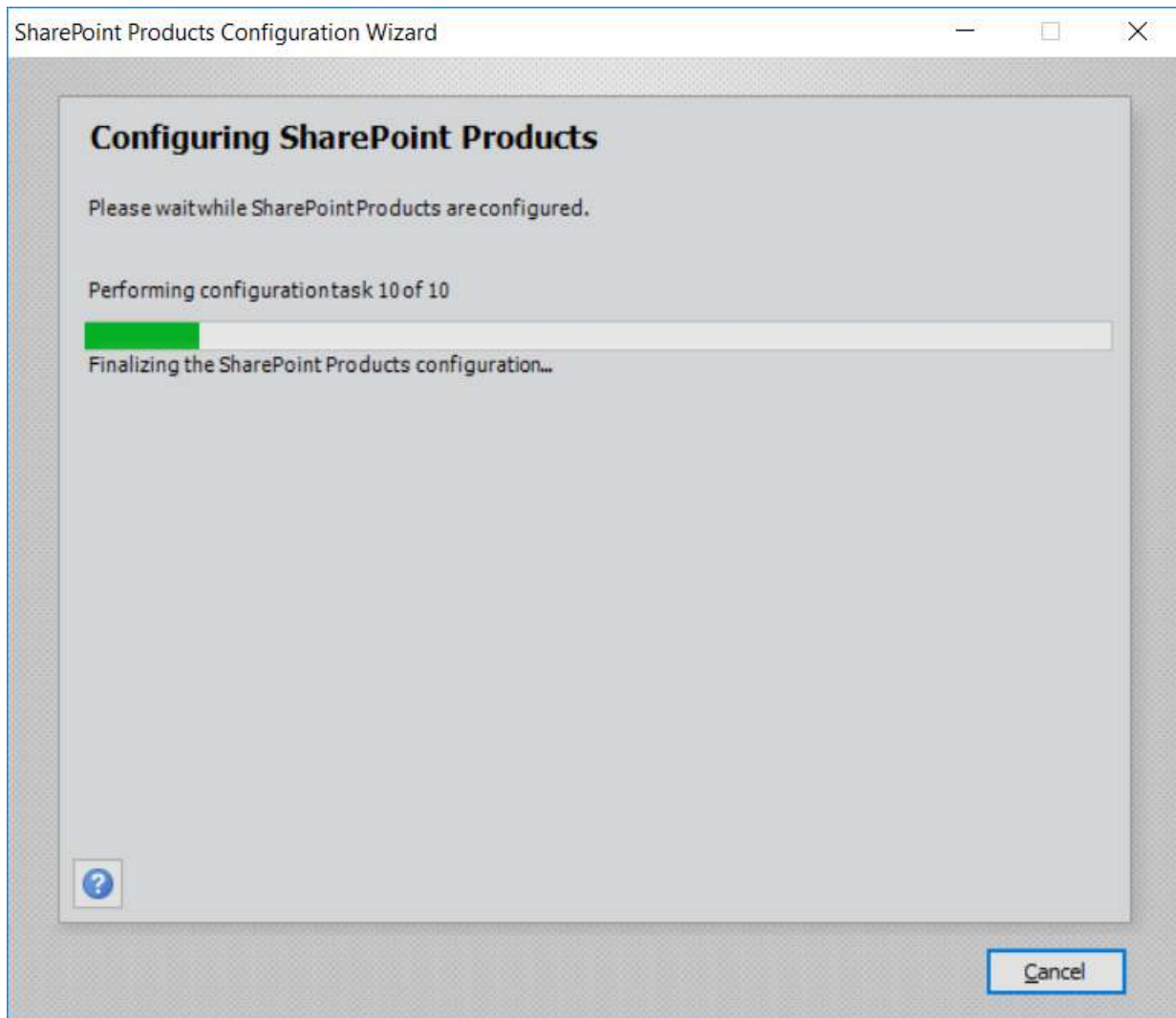


< Back **Next >** Cancel

Step-10

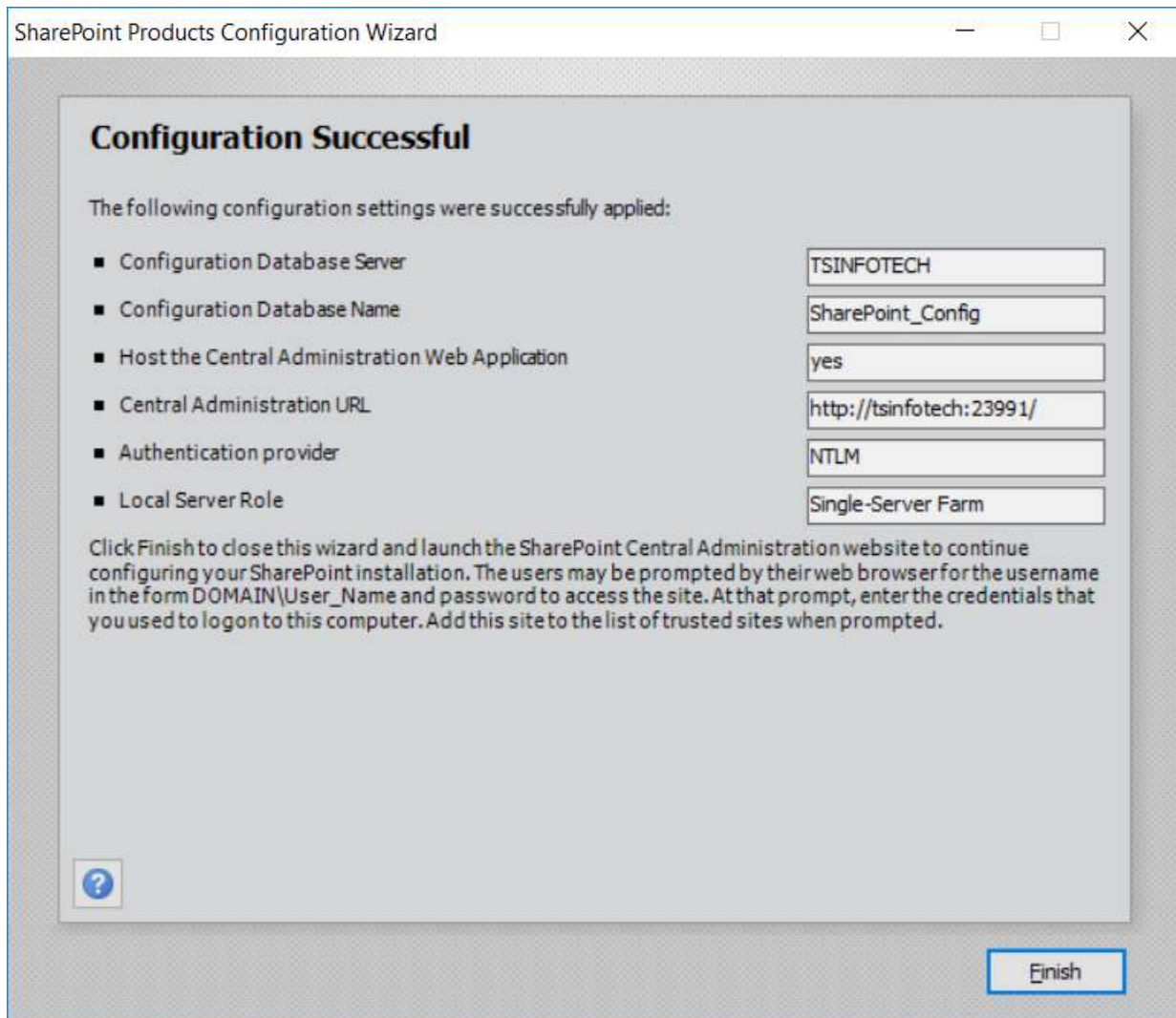
Once you click on Next, it will start the configuration. The first few steps will require some time, keep the system open.





Step-11

Once the configuration is over, it will display Configuration Successful message like below. It will display the configuration database details, as well as SharePoint 2019 central administration URL etc.



Step-12

Once you will click on Finish, it will display the Configure your SharePoint farm wizard.

Then you can also access the SharePoint server 2019 Central administration which looks exactly similar to SharePoint 2016 or SharePoint 2013.

SharePoint Installation Errors You may face

Below are few Errors you may get and solutions which you can follow for the solution:

Microsoft .net framework 4.6 installation error SharePoint 2016

<https://www.spguides.com/microsoft-net-framework-4-6-installation-error-sharepoint-2016/>

The RPC server is unavailable error in SharePoint 2016

<https://www.spguides.com/the-rpc-server-is-unavailable-sharepoint-2016/>

microsoft sql server 2012 native client download error sharepoint 2016

<https://www.spguides.com/microsoft-sql-server-2012-native-client-download-error-sharepoint-2016/>

microsoft sync framework runtime v1.0 sp1 (x64) download error sharepoint 2016

<https://www.spguides.com/sharepoint-2016-prerequisites-sync-framework-download-error/>

Windows Server Appfabric: download error

<https://www.spguides.com/windows-server-appfabric-download-error/>

Create First Web Application

You can create your first web application from SharePoint 2019 central administration or you can create by using PowerShell.

Here we will create web application using PowerShell. Below is the PowerShell command.

```
Add-PSSnapin "Microsoft.SharePoint.PowerShell"
```

```
$authentication = New-SPAuthenticationProvider -UseWindowsIntegratedAuthentication -  
DisableKerberos
```

```
New-SPWebApplication -Name "SharePoint 2019 Web App New" -Port 80 -ApplicationPool  
"SP2019AppPoolNew" -ApplicationPoolAccount (Get-SPManagedAccount "TSINFO\Padmini") -  
AuthenticationMethod NTLM -AuthenticationProvider $authentication
```

Please change the names according to your machine and farm.

To create the web application from SharePoint 2019 central administration, you can follow the below URL:

<https://www.spguides.com/create-sharepoint-web-application/>

Create Site Collection in SharePoint Server 2019

After creating web application we can now create our first site collection. Open SharePoint 2019 central administration. From Application Management click on Create site collections.

It will ask for Site collection Title, Description, URL and Template and Primary site collection administrator and Secondary site collection administration.

In the template section, you can see two templates:

- Team Site
- Team Site (Classic Experience)

You can see below we have chosen Team Site and it will create a team site with modern experience.

SPGuides.com

Create Site Collection ⓘ

Web Application

Select a web application.

Web Application: <http://tsinfotech/> ▼

To create a new web application go to [New Web Application](#) page.

Title and Description

Type a title and description for your new site. The title will be displayed on each page in the site.

Title:

Description:

Web Site Address

Specify the URL name and URL path to create a new site, or choose to create a site at a specific path.

URL:

<http://tsinfotech> /sites/ ▼ SC2

To add a new URL Path go to the [Define Managed Paths](#) page.

Template Selection

Select a template:

Collaboration
Enterprise
Publishing
Custom

- Team site
- Team site (classic experience)
- Blog
- Developer Site
- Project Site
- Community Site

A site with no connection to an Office 365 Group.

Primary Site Collection Administrator

Specify the administrator for this site collection. Only one user login can be provided; security groups are not supported.

User name:

Secondary Site Collection Administrator

Optionally specify a secondary site collection administrator. Only one user login can be provided; security groups are not supported.

User name:

Quota Template

Select a predefined quota template to limit resources used for this site collection.

Select a quota template:

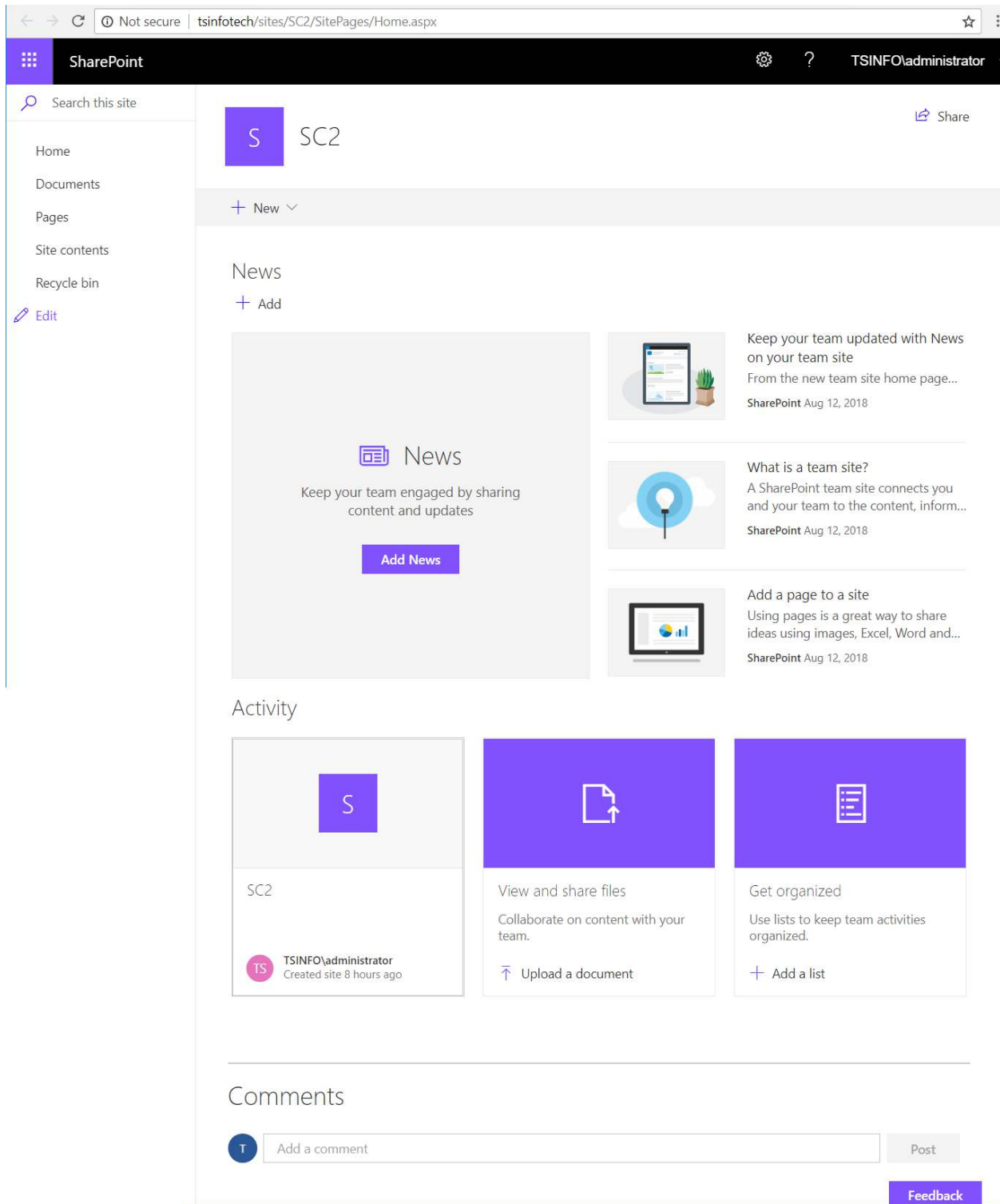
 ▼

To add a new quota template, go to the [Manage Quota Templates](#) page.

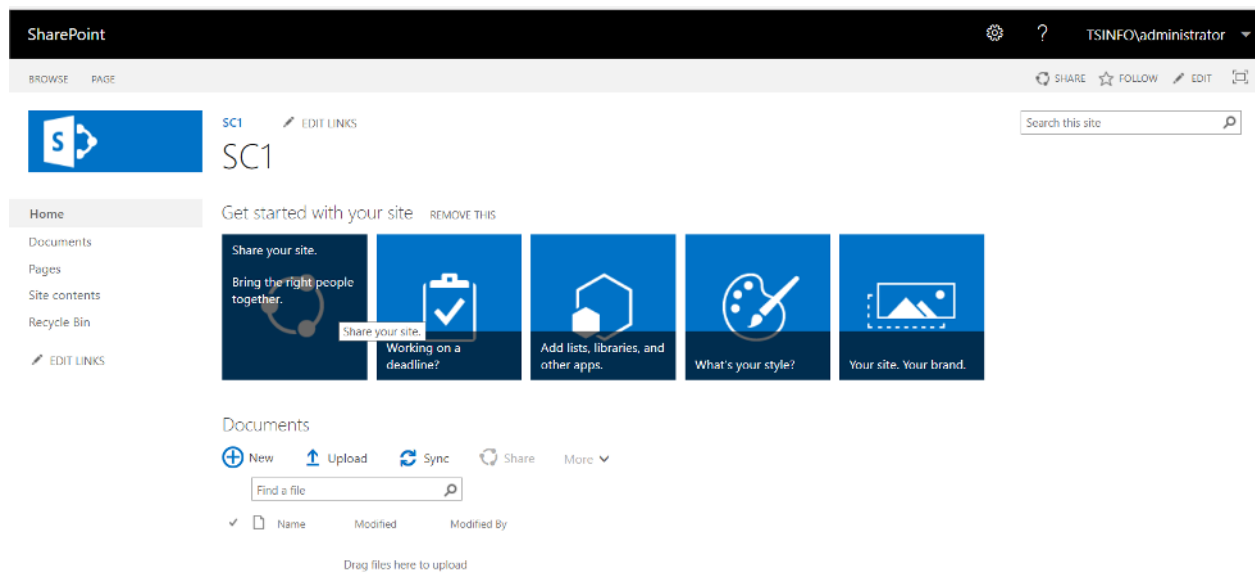
Storage limit:

Number of invited users:

Once you will click on Create, it will create a modern team site like below:



And if you will chose Team Site (Classic Experience), you will be able to see a classic team site like below:



Few new features in SharePoint Server 2019

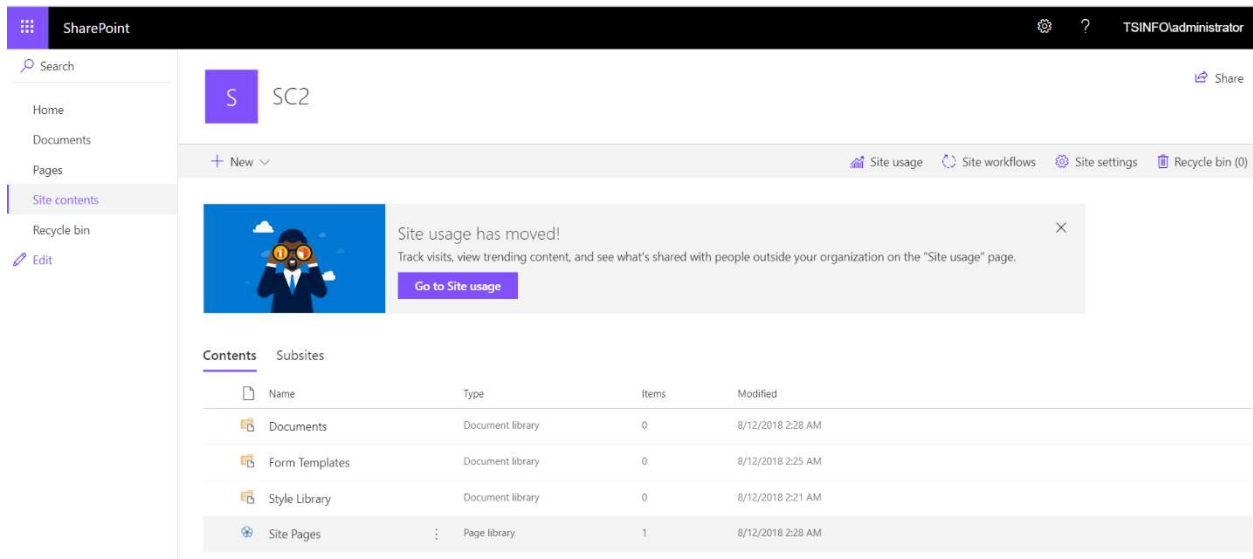
As SharePoint server 2019 built on the same platform of SharePoint online, you will see lots of similar features like SharePoint online.

Modern User Experiences

Like SharePoint Online, on SharePoint server 2019, we can see the modern user experience. You will have similar look and feel like SharePoint online. Modern user experiences are easy to use, and ensure reliability, performance, and security under real-world pressures of scale and complexity. Read SharePoint Online Modern Experience tutorial.

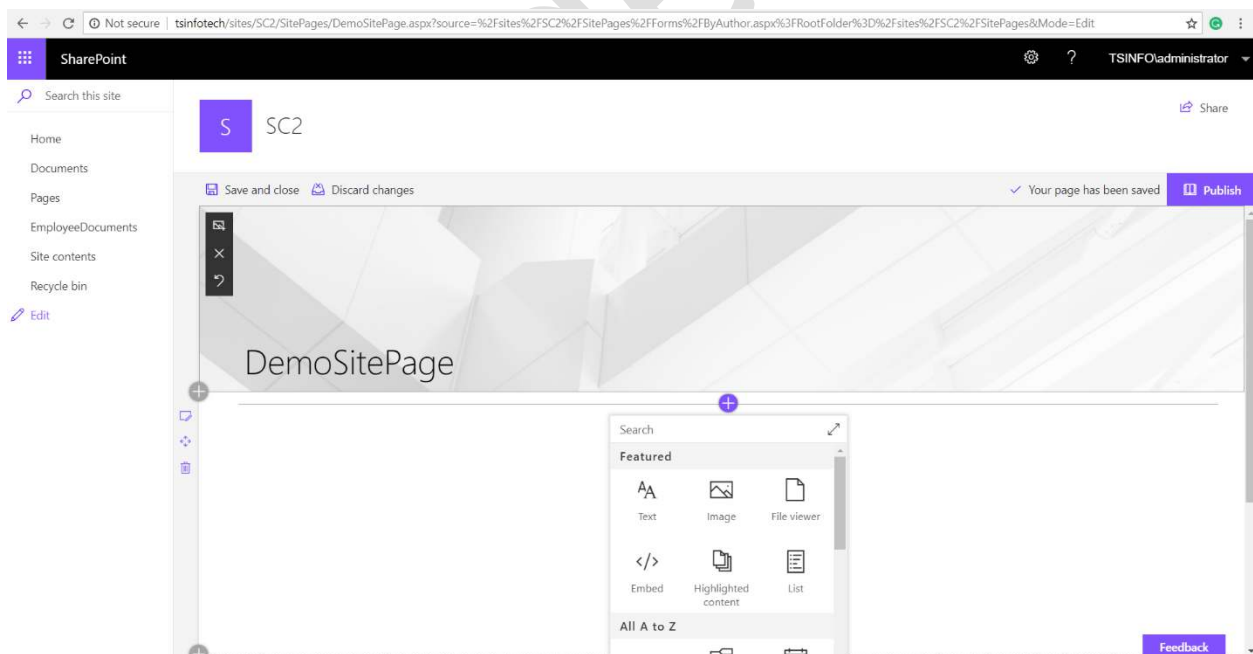
Modern Team Sites

All most all the organizations use team sites to connect with the team across the organization. In SharePoint server 2019, you will see the modern team site experience, you will have an engaging home page like SharePoint online. Check out a figure taken from the Microsoft Official site. This is how the Site Contents page looks like:



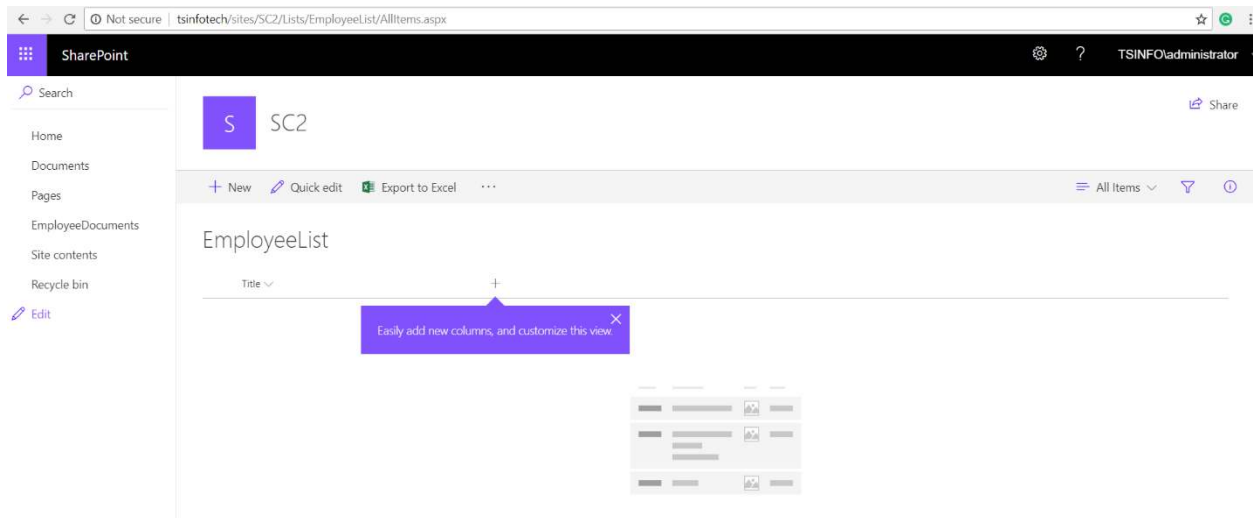
Modern Site Pages

In SharePoint Server 2019, you will have modern site pages. Modern pages is a great way to share ideas using images, Excel, Word and PowerPoint documents, embed video content, and more. You can create and publish modern pages quickly and easily, and they look great on any device. Modern pages are built with web parts, which you can customize according to your needs. You can add documents, embed videos, images, site activities, Yammer feeds, and more.



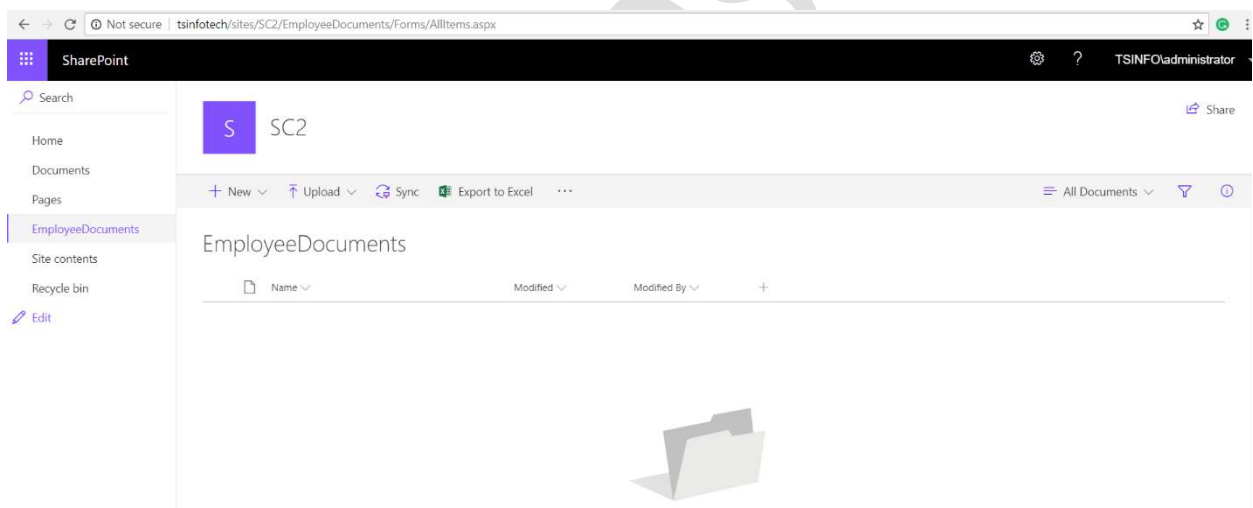
Modern List in SharePoint server 2019

In SharePoint server 2019, Microsoft has introduced modern list experience like SharePoint Online for teams to access, share, and collaborate around structured data and to bring information from other systems into SharePoint to support a business process. People can create, curate, and interact with information with a rich set of capabilities that work across devices and browsers.



Modern Libraries in SharePoint Server 2019

Similarly, SharePoint server 2019 introduced modern document libraries which provide better user experiences, is faster, more intuitive and responsive. Modern document libraries have an updated user interface that offers an experience similar to OneDrive, so it's more intuitive to create a new folder and upload files in the browser.



Communication Sites

Communication sites have been introduced to SharePoint online and quite popular to provide collaboration features, helps people to work together on files, lists, and libraries. SharePoint server 2019 introduces Communication sites which will allow you to communicate to people throughout your organization with beautiful, dynamic, mobile-ready communication sites and pages that keep everyone informed and engaged.

<https://www.spguides.com/create-communication-site-sharepoint-online-powershell/>

<https://www.spguides.com/sharepoint-online-team-site-vs-communication-site/>

OneDrive for Business

SharePoint Server 2019 provides improved mobile access to content, people, and applications along with engaging and responsive experiences across devices and screen sizes. It makes file storage and document collaboration more people-centric with new support for the latest generation of sync clients with OneDrive for Business.

SharePoint Mobile

SharePoint Server 2019 makes your intranet more accessible on the go, more intelligent, and more personalized, based on your activities across sites, the people you work with, the content you work on and the business processes you drive.

Large File Support, Character Restrictions, and File/Folder Names

There is a huge change in the file size allowed in SharePoint server 2019, SharePoint server 2019 allows you to upload files up to 15 GB.

SharePoint Server 2019 delivers support for a broad array of types and naming conventions to include support for # and % as supported characters in file and folder names across document libraries in SharePoint and OneDrive for Business. This will allow people to create, store, and sync files containing # and % characters whether those characters are used as a prefix or suffix to the file or folder name.

SharePoint Server 2019 increases the URL path length restrictions from 260 Unicode code units to 400.

Conclusion

The PDF contains below items:

- Introduction to SharePoint Server 2019
- Hardware and Software requirements for SharePoint server 2019
- Prerequisites to SharePoint Server 2019
- SharePoint Server 2019 installation steps
- Create a web application using PowerShell in SharePoint 2019
- Create Site Collection in SharePoint Server 2019
- New Features of SharePoint Server 2019

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https://sharepointsky.teachable.com/p/sharepoint-training-course-bundle/?product_id=1522804&coupon_code=BFS46

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