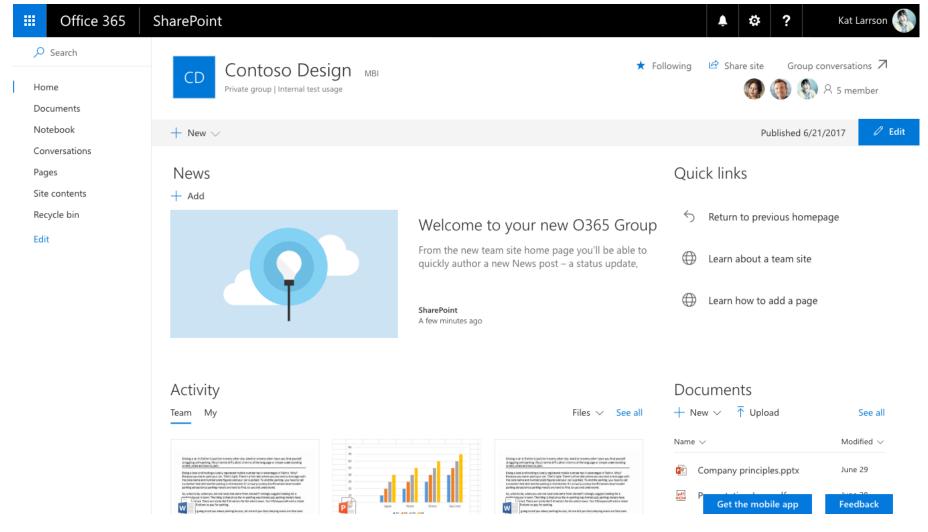
SharePoint Server: The Ultimate Installation and Configuration Guide

Gursher Singh
Jason Dhaliwal
Jevin Heer

What is SharePoint





What is SharePoint

- Web based Collaborative platform developed by Microsoft
- Provides a centralized and secure location for organizations with many different features

<u>Versions</u>

- Cloud Version
- On-Permise Version (Sharepoint Server)



How To Use SharePoint and Get The Most Out Of It

The Main Uses

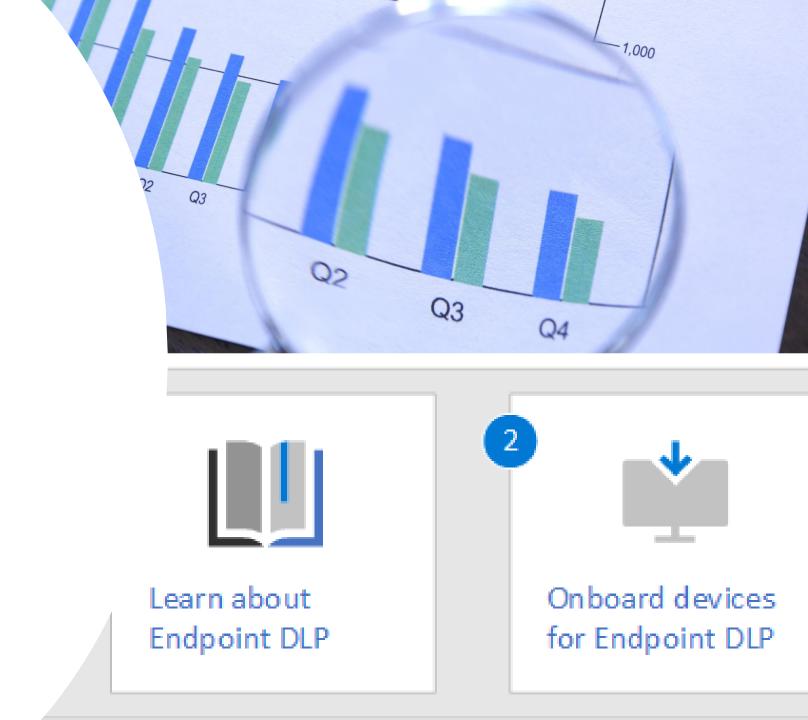
- Storing of Data
 - Document Management
- Sharing
 - Security and Permissions

Other Common Uses

- Customization
- Communication Sites and Team sites
- Intranet
- DLP Capabilities
- Sharepoint Workflow
- Mobile Access

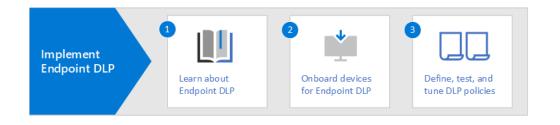


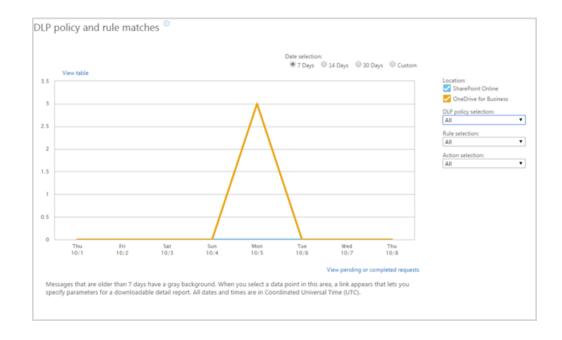
Data Loss Prevention Capabilities



Data Loss Prevention Capabilities

- Within sharepoint we have features to protect sensitive data and prevent it from being shared within the environment
 - Policy Creation:
 - Content Inspection:
 - User Notifications:
 - Monitoring and Reporting:
 - Integration with Microsoft 365:





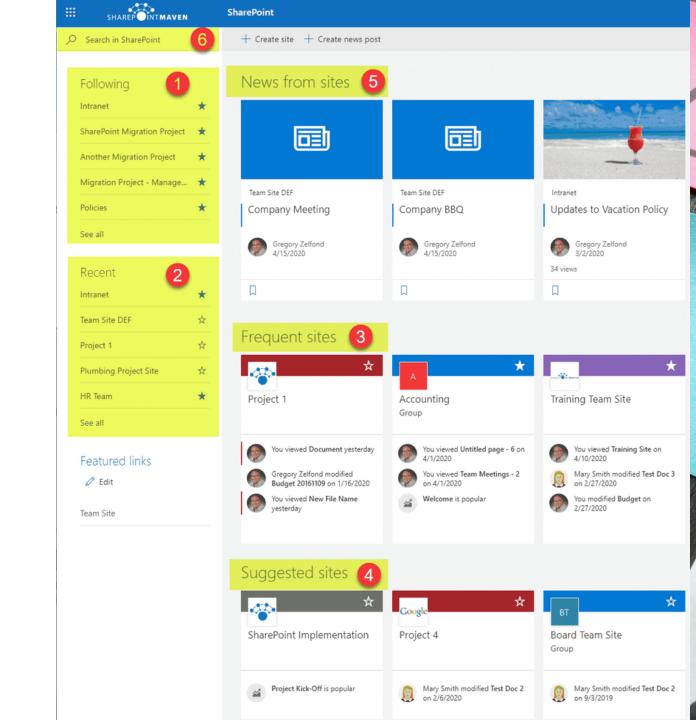
Communication Sites and Team sites

Communication Sites

- Designed for interacting with a broad audience
 - Examples: Broadcasting news, updates and content to large groups like all employees

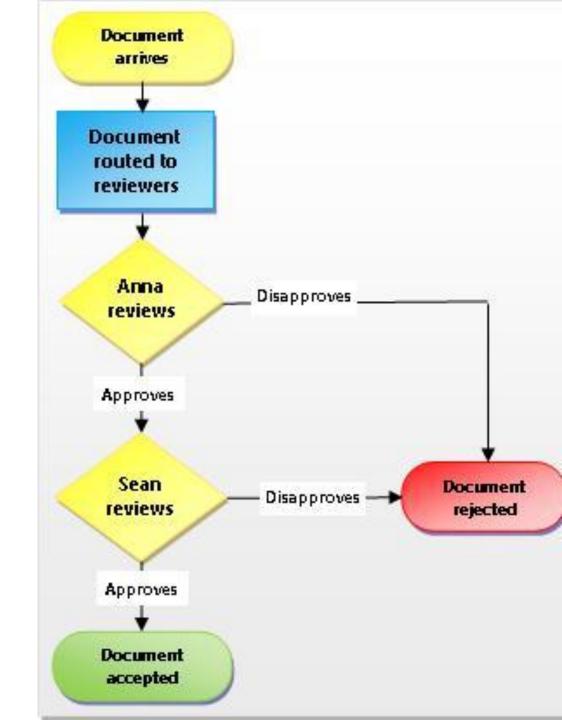
Team Sites

 Designed for groups users working together or projects



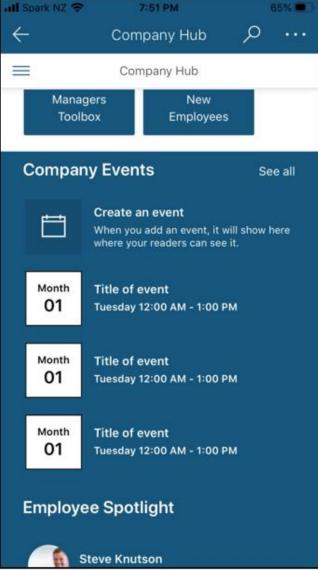
SharePoint WorkFlow

- SharePoint workflows are pre-programmed miniapplications designed to automate various business processes.
- Workflows streamline tasks, such as collecting signatures, feedback, approvals, and tracking procedure statuses.
- The main goals of SharePoint workflows are to save time, improve efficiency, and maintain consistency in recurring tasks.
- Workflows can be applied to a wide range of scenarios within SharePoint, making them versatile tools for process automation.



Mobile Access





What Is Office 365 Cloud-Based SharePoint?

Brief Overview

- Office 365 SharePoint is a cloud-based service that allows organizations to store, organize, share and access information from any device using only a web browser.
- With the cloud-based SharePoint we do not need to install and deploy SharePoint Servers on-site, but rather subscribe to Microsoft 365 or to SharePoint Online to share documents and information throughout the organization

Benefits vs Standard SharePoint Server

- Subscription pricing: Businesses only pay for the licenses they need. This makes it easy to manage and cost-effective.
- Cloud-based: Office 365 SharePoint is a cloud-based service hosted by Microsoft. This means that businesses do not need to invest in expensive hardware or software to run SharePoint.
- Office 365 SharePoint also has the benefits of a regular SharePoint server such as scalability, ease of use, and supporting effortless real time collaboration.

Drawbacks vs Standard SharePoint Server

- Data Security: While SharePoint offers advanced security features, some businesses may be reluctant to store sensitive data in the cloud. This can be a disadvantage for businesses that require a high level of data security.
- Internet Connectivity: Office 365 SharePoint requires an internet connection to access and use. This can be a disadvantage for businesses that have limited or unreliable internet connectivity.
- Limited Customization: Office 365 SharePoint has some limitations when it comes to customization. While it is possible to customize cloud-based SharePoint, it is not as flexible as on-site SharePoint, this can be a disadvantage for businesses that require a high degree of customization.

Use in Industry

- Government: Government agencies use SharePoint to manage documents, automate workflows, and improve collaboration between teams.
- Finance: Financial institutions use SharePoint to manage documents, automate workflows, and improve collaboration between teams.
- Education: Educational institutions use SharePoint to manage student records, collaborate on research, and improve communication between faculty and staff.
- Manufacturing: Manufacturing companies use SharePoint to manage product development, improve supply chain management, and improve collaboration between teams.
- Healthcare: Healthcare organizations use SharePoint to manage patient records, collaborate on research, and improve communication between healthcare providers.

Summary

- In summary, Office 365 SharePoint is a powerful tool that can help organizations improve collaboration, productivity, and efficiency. It provides a centralized hub for document sharing, document and project management, as well as real-time collaboration. It is scalable, quite secure, and easy to use.
- Office 365 cloud-based SharePoint is ideal for small to medium businesses who do not want to invest in a local SharePoint server, and would rather pay a subscription for a SharePoint server hosted by Microsoft.

Environment for Demo Sharepoint Server

Active Directory and DNS Server

Hostname: CA-Van-JGJ-DC1

IP Address: 192.168.7.1

vCPU - 4

Memory – 4

Domain – Carabinieri.com

Sharepoint Server

Hostname: CA-Van-SP

IP Address: 192.168.7.4

vCPU - 4

Memory – 6

Domain – Carabinieri.com



SQL Server

Hostname: CA-Van-SQL

IP Address: 192.168.7.3

vCPU - 4

Memory – 6

Domain – Carabinieri.com

Client

IP Address: 192.168.7.2

vCPU - 4

Memory – 4

Domain – Carabinieri.com

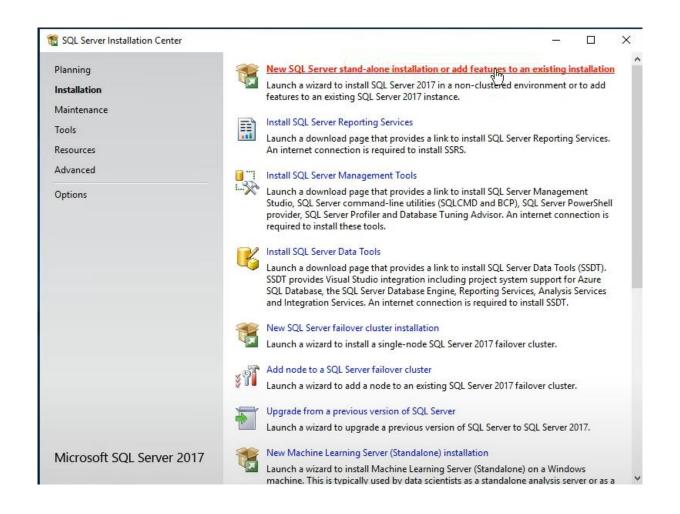
Installation STEP-BY-STEP

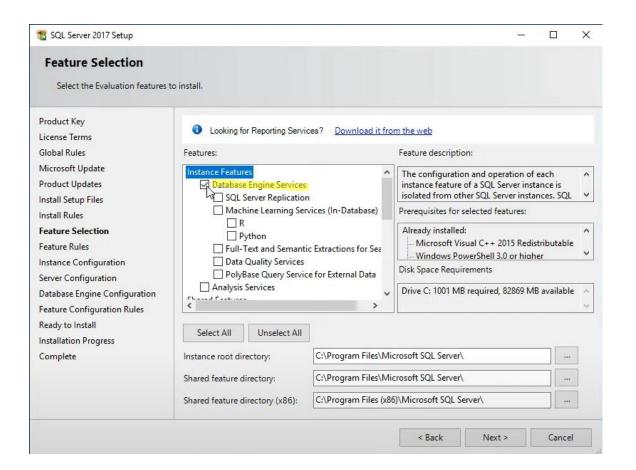
- Step 1- Install & Configure SQL Server 2019
 - Database engine services
 - Full-text and Semantic Extractions
 - Analysis Services
- Step 2-Install SQL Server Management Studio and Give Required access to the SharePoint Service account
 - dbcreator
 - public
 - securityadmin
 - sysadmin

Installation STEP-BY-STEP

- Step 3 Run SharePoint 2019 Pre-Requirements Installation and reboot server
- Step 4 Run the SharePoint Server 2019 Installation
- Step 5 Configure SharePoint Server 2019
- Step 6-Validate SharePoint Server 2019 Installation

SQL installation guide

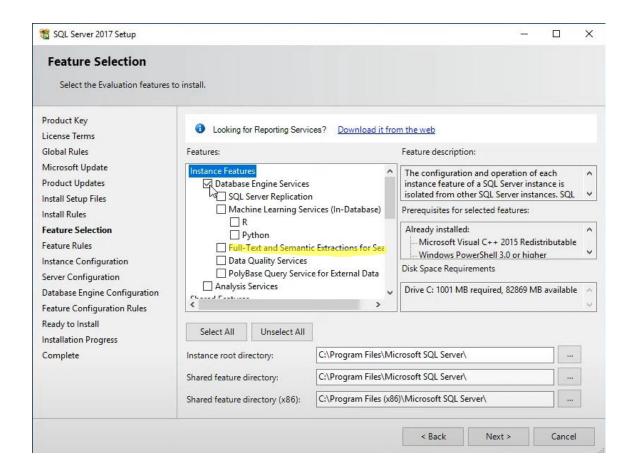




Feature Selection

DATABASE ENGINE SERVICES

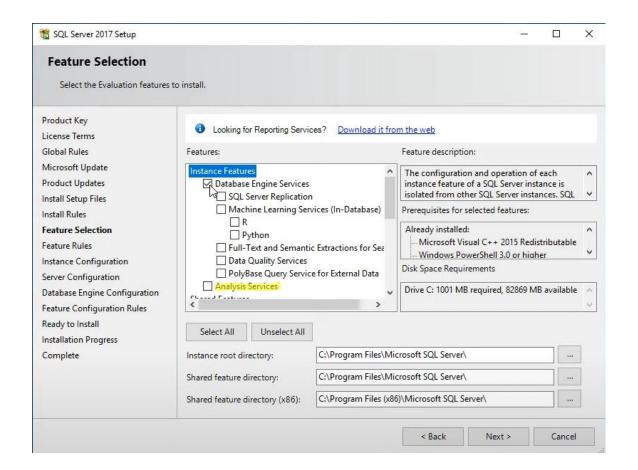
This is the core service for storing, processing, and securing data, and other components that run as services in the system background and provide core operating system features.



Feature Selection

FULL-TEXT AND SEMANTIC EXTRACTIONS

Enable text-based searching and analysis by adding the ability for SQL Server to determine key words in documents.

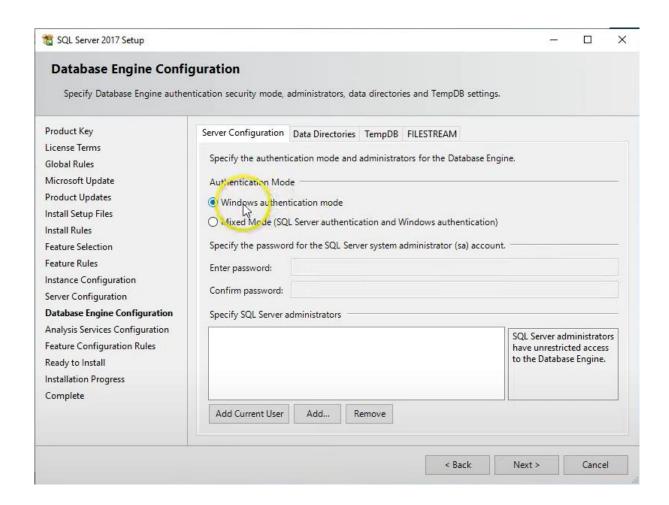


Feature Selection

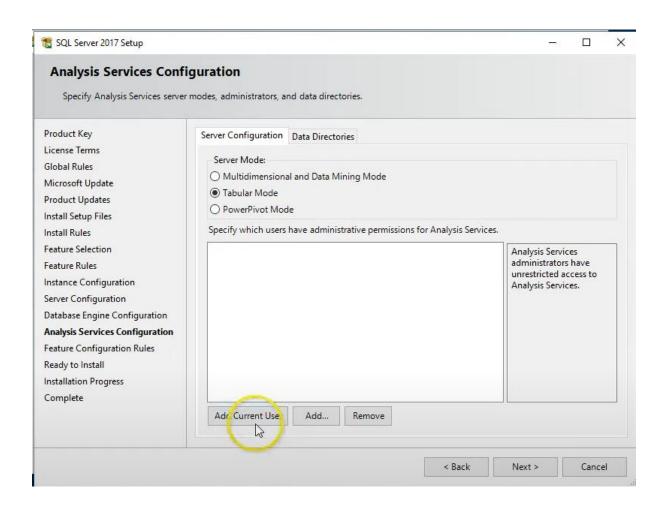
ANALYSIS SERVICES

Provides online analytical processing (OLAP) and data mining functionality, allowing users to create and manage multidimensional structures that contain data aggregated from other data sources, such as relational databases.

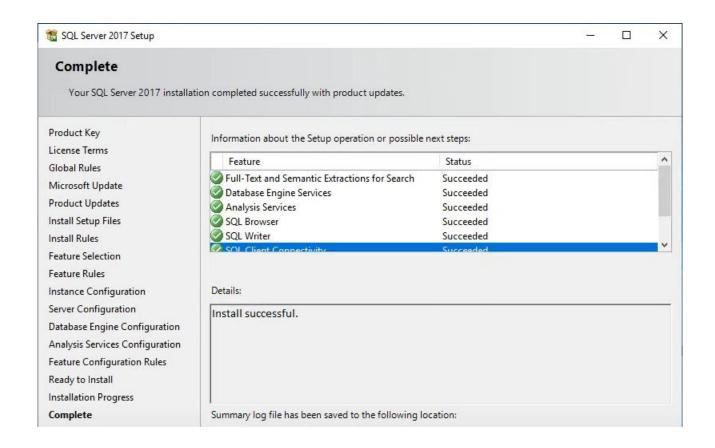
Authentication



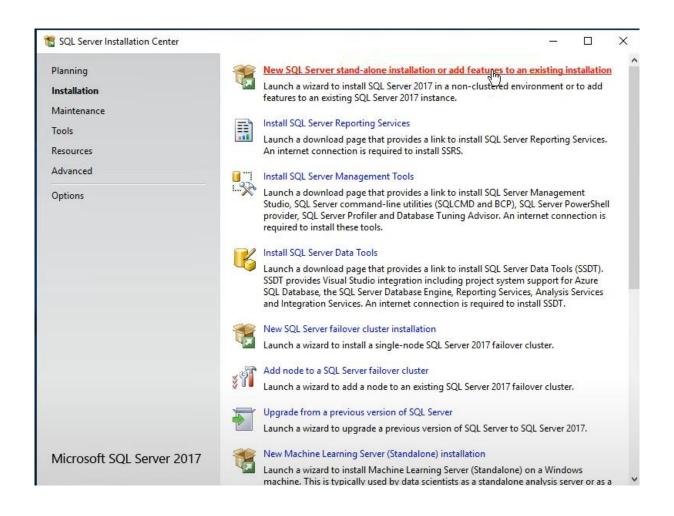
Analysis Service Configuration



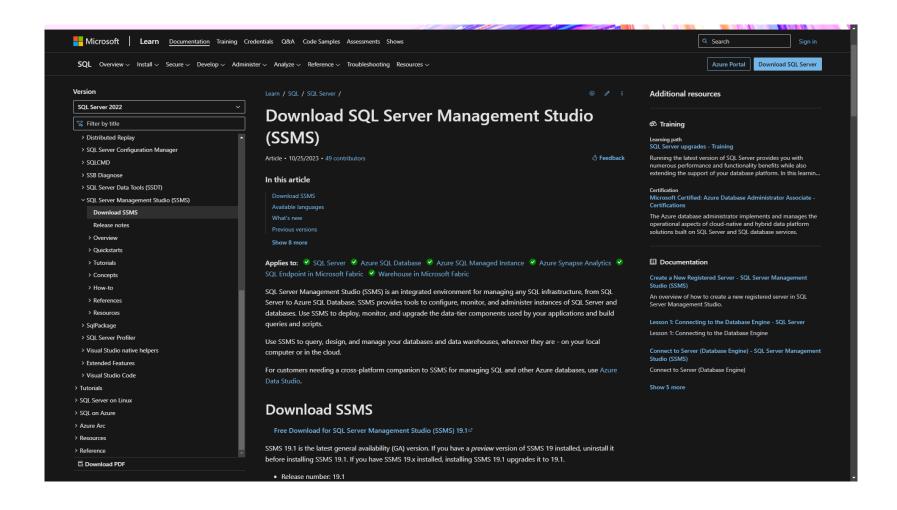
Installation of SQL Server Successful!

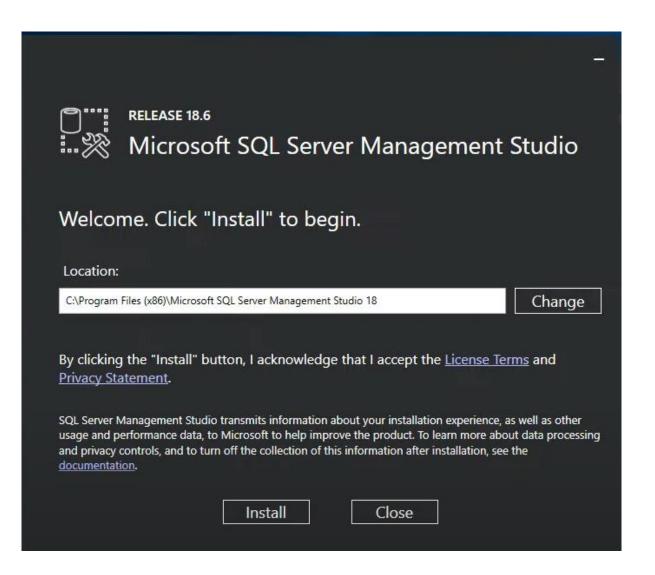


Install SQL Server Management Studio



Install SQL Server Management Studio

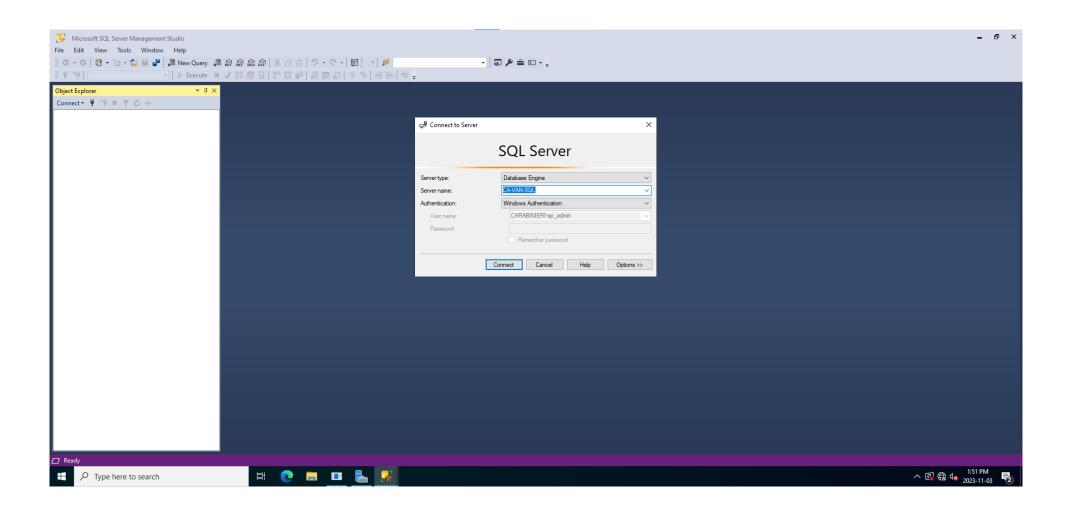




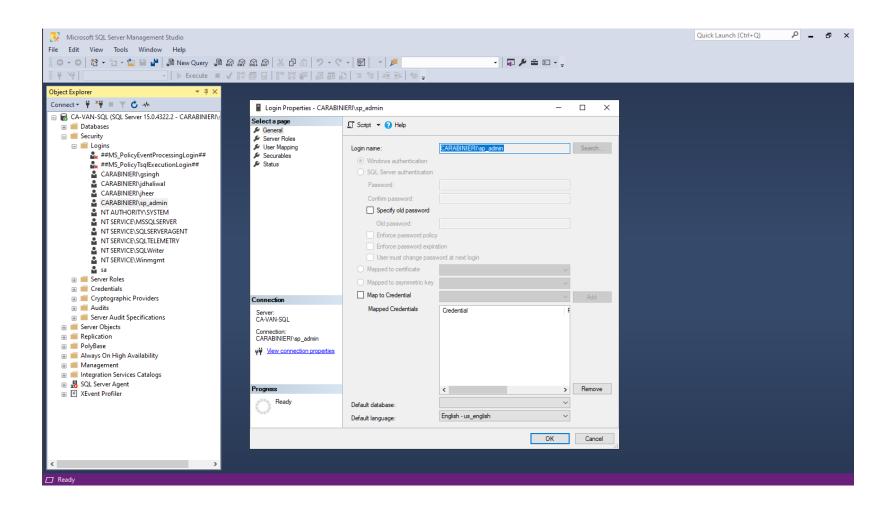
Install SQL Server Management Studio

SQL Server Management Studio (SSMS) is an integrated environment for managing SQL Server databases. It is a free tool that can be used to access, configure, manage, administer, and develop all components of SQL Server

SQL Server



SQL Server



SQL Server

Select a page		
✓ General		
Server Roles User Mapping Securables Status	Server role is used to grant server-wide security privileges to a user. Server roles:	
	□ bulkadmin ☑ dbcreator □ diskadmin □ processadmin ☑ public ☑ securityadmin □ serveradmin □ setupadmin ☑ sysadmin	



Exit

SharePoint 2019

Prepare

Review hardware and software requirements
Read the installation guide
Read the upgrade guide

Other Information

Download SharePoint <u>updates</u> Visit product <u>website</u>

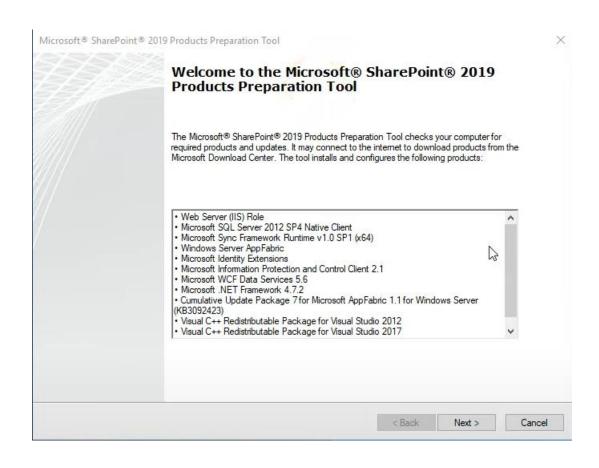
Install

Install software prerequisites Install SharePoint Server

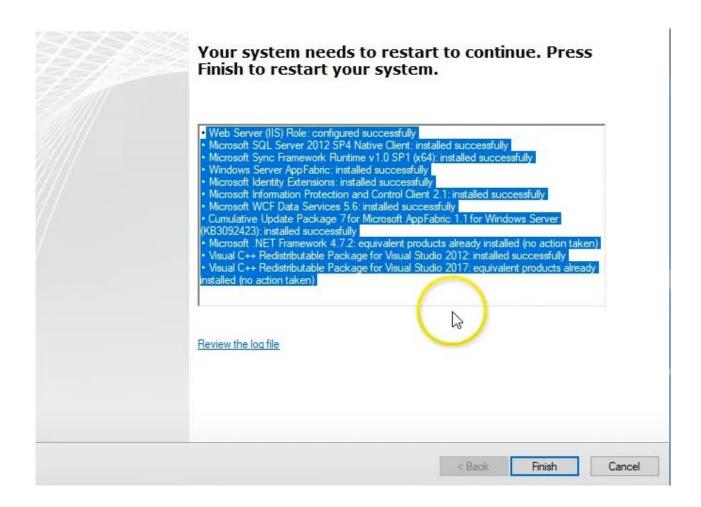
Install prerequisites for Sharepoint Server

- Web Server (IIS) Role
- Microsoft .NET Framework 4.8
- Visual C++ Redistributable
 Package for Visual Studio 2015-2019

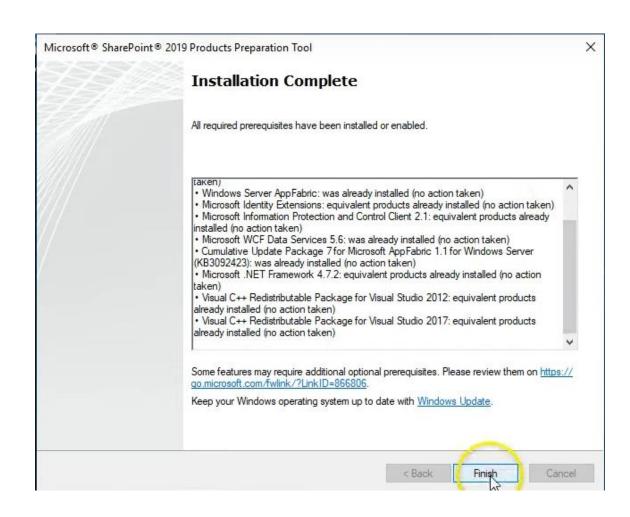
Install prerequisites for the Sharepoint Server



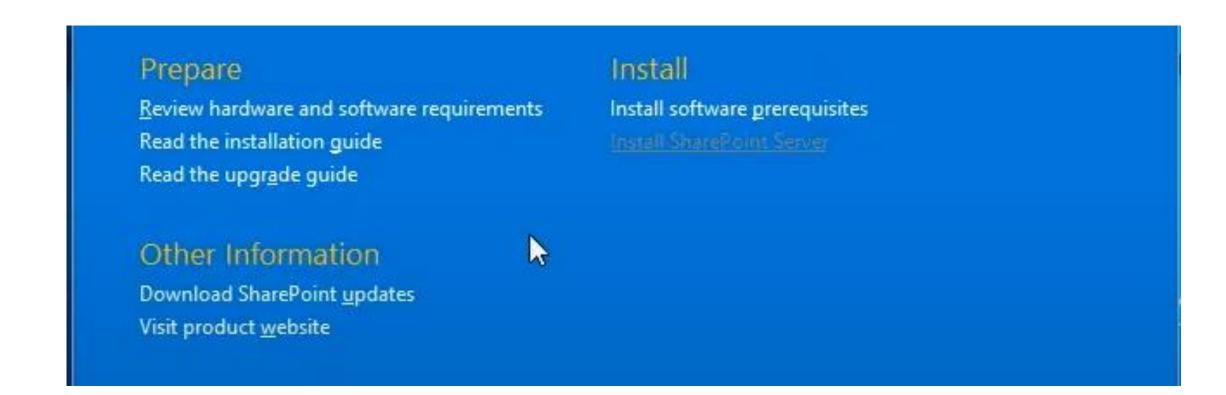
Pre-requisites for Sharepoint Servers

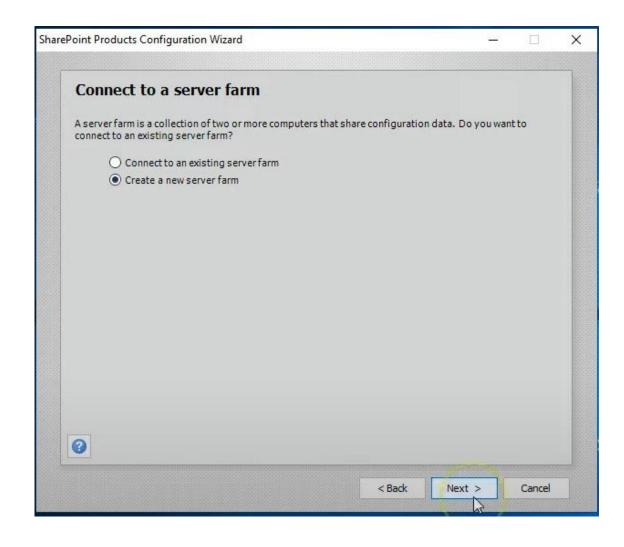


Installation of prerequisites Successful!

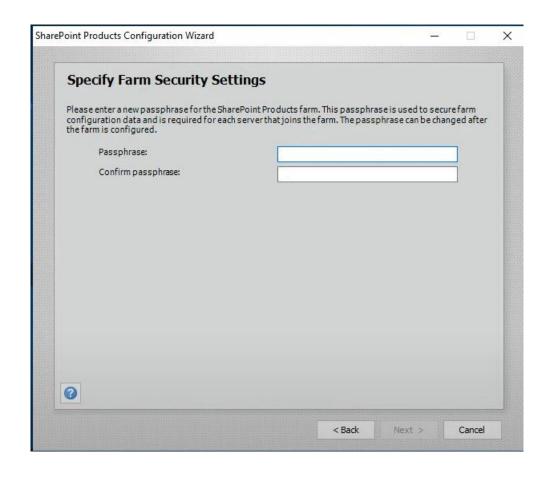


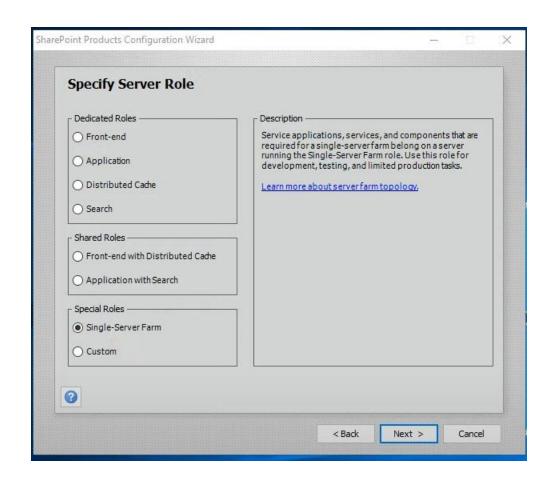
Time to install Sharepoint

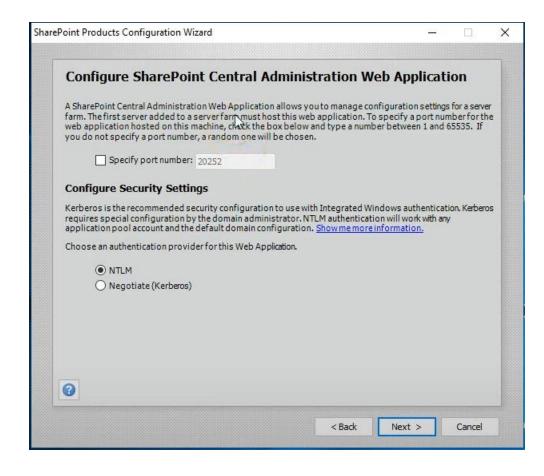




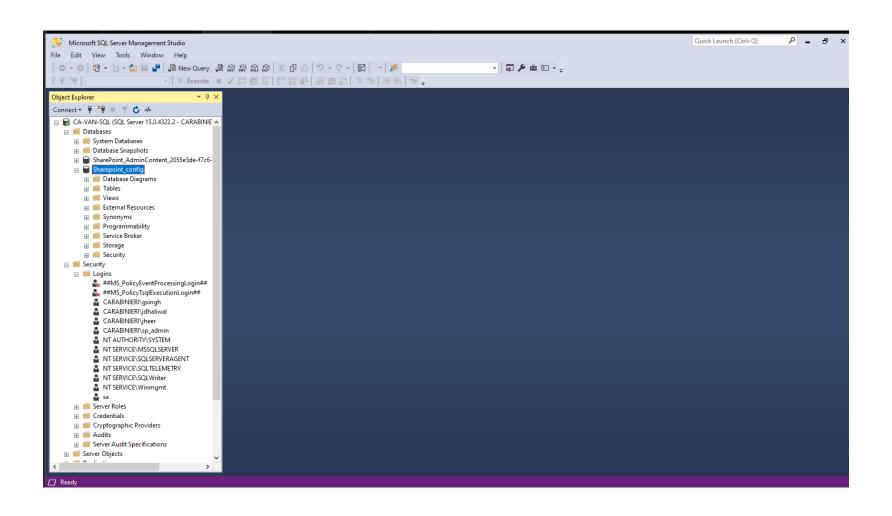








Database successfully created



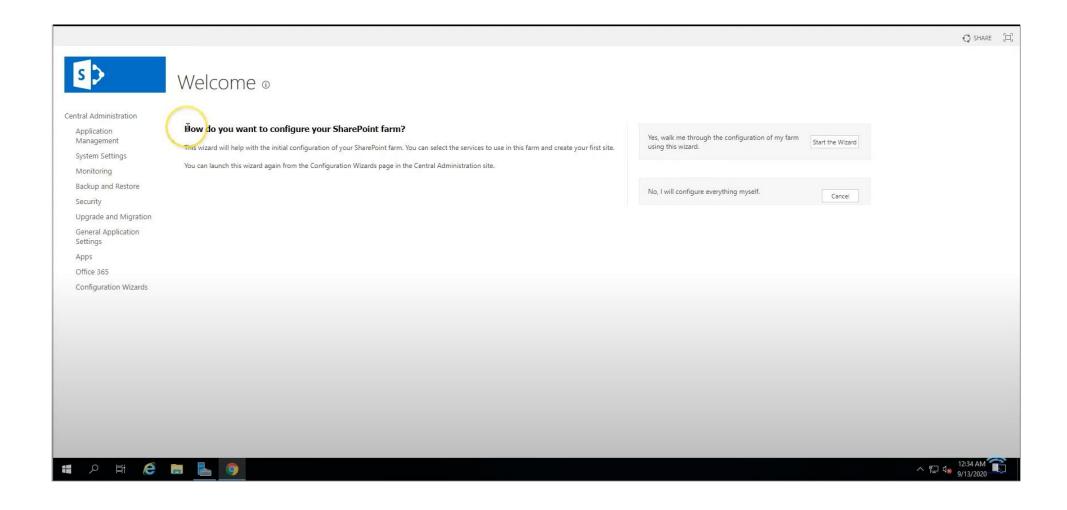
Settings applied to the server

- Configuration Database Server
- Configuration Database Name
- Host the Central Administration Web Application
- Central Administration URL
- Authentication provider
- Local Server Role

- Ca-VAN-SQL
- Sharepoint_config
- Yes

- http://ca-van-sp:9999
- NTLM
- Single-Server Farm

Validating the Sharepoint Installation



Farm configuration successful!

