

SharePoint Server Installation and Configuration Guide

Introduction

SharePoint Server is a powerful web-based collaboration platform developed by Microsoft that provides organizations with a centralized and secure location to store, organize, and share information. This guide will walk you through the step-by-step process of installing and configuring SharePoint Server, highlighting its key features and benefits.

What is SharePoint?

SharePoint is a collaborative platform that offers a wide range of features, including:

- Centralized and secure data storage
- Document management and sharing
- Customizable team sites and communication sites
- Intranet capabilities
- Data loss prevention (DLP) features
- Workflow automation
- Mobile access

SharePoint is available in two versions:

1. Cloud-based (Office 365 SharePoint)
2. On-premises (SharePoint Server)

Benefits of SharePoint

SharePoint provides numerous benefits to organizations, such as:

- Improved collaboration and productivity
- Streamlined business processes
- Enhanced communication and information sharing
- Secure and centralized data storage
- Customizable and scalable platform

Environment Setup for SharePoint Server Demo

Before installing SharePoint Server, ensure that your environment meets the following requirements:

- Active Directory and DNS Server (CA-Van-JGJ-DC1)
 - IP Address: 192.168.7.1

- vCPU: 4
 - Memory: 4 GB
 - Domain: Carabinieri.com
- SharePoint Server (CA-Van-SP)
 - IP Address: 192.168.7.4
 - vCPU: 4
 - Memory: 6 GB
 - Domain: Carabinieri.com
- SQL Server (CA-Van-SQL)
 - IP Address: 192.168.7.3
 - vCPU: 4
 - Memory: 6 GB
 - Domain: Carabinieri.com
- Client
 - IP Address: 192.168.7.2
 - vCPU: 4
 - Memory: 4 GB
 - Domain: Carabinieri.com

Step-by-Step Installation Process

Step 1: Install and Configure SQL Server 2019

1. Install the following SQL Server components:
 - Database Engine Services
 - Full-text and Semantic Extractions
 - Analysis Services
2. Configure the authentication method and analysis service settings according to your requirements.
3. Complete the SQL Server installation.

Step 2: Install SQL Server Management Studio and Grant Permissions

1. Download and install SQL Server Management Studio (SSMS).

2. Grant the required access to the SharePoint Service account:

- dbcreator
- public
- securityadmin
- sysadmin

Step 3: Install SharePoint Server Prerequisites

1. Run the SharePoint Server prerequisite installer, which includes:

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

2. Reboot the server after the prerequisite installation is complete.

Step 4: Install SharePoint Server 2019

1. Run the SharePoint Server 2019 installation wizard.
2. Follow the on-screen instructions to complete the installation process.

Step 5: Configure SharePoint Server 2019

1. Launch the SharePoint Products Configuration Wizard.
2. Specify the following settings:
 - Configuration Database Server: Ca-VAN-SQL
 - Configuration Database Name: Sharepoint_config
 - Host the Central Administration Web Application: Yes
 - Central Administration URL: <http://ca-van-sp:9999>
 - Authentication Provider: NTLM
 - Local Server Role: Single-Server Farm
3. Complete the configuration wizard to create the SharePoint farm.

Step 6: Validate SharePoint Server 2019 Installation

1. Access the SharePoint Central Administration site using the URL specified during configuration.
2. Verify that the farm configuration is successful and all services are running correctly.

Key Features of SharePoint

Data Loss Prevention (DLP) Capabilities

SharePoint offers built-in DLP features to protect sensitive data and prevent unauthorized sharing within the environment. These features include:

- Policy creation for identifying and classifying sensitive content
- Content inspection to detect policy violations
- User notifications and guidance for handling sensitive data
- Monitoring and reporting capabilities
- Integration with Microsoft 365 for a comprehensive DLP solution

Communication Sites and Team Sites

SharePoint provides two types of sites for different collaboration needs:

1. Team Sites
 - Designed for groups of users working together on projects
 - Offer a centralized location for storing and sharing content
2. Communication Sites
 - Designed for interacting with a broad audience
 - Ideal for broadcasting news, updates, and content to large groups, such as all employees

SharePoint Workflow

SharePoint workflows are pre-programmed mini-applications that automate various business processes, such as:

- Collecting signatures, feedback, and approvals
- Tracking procedure statuses
- Streamlining recurring tasks

Workflows help save time, improve efficiency, and maintain consistency in task execution. They can be applied to a wide range of scenarios within SharePoint, making them versatile tools for process automation.

Office 365 Cloud-Based SharePoint

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 cloud-based SharePoint, there is no need to install and deploy SharePoint Servers on-site; instead, organizations can subscribe to Microsoft 365 or SharePoint Online to share documents and information throughout the organization.

Benefits of Office 365 SharePoint vs. Standard SharePoint Server

- Subscription-based pricing, making it cost-effective and easy to manage licenses
- Cloud-hosted by Microsoft, eliminating the need for expensive hardware or software investments
- Scalability, ease of use, and support for effortless real-time collaboration

Drawbacks of Office 365 SharePoint vs. Standard SharePoint Server

- Data security concerns for businesses reluctant to store sensitive data in the cloud
- Dependence on internet connectivity for access and use
- Limited customization options compared to on-site SharePoint

Use in Industry

SharePoint is widely used across various industries, including:

- Government agencies for document management, workflow automation, and team collaboration
- Financial institutions for document management, workflow automation, and team collaboration
- Educational institutions for managing student records, collaborating on research, and improving communication between faculty and staff
- Manufacturing companies for product development, supply chain management, and team collaboration
- Healthcare organizations for managing patient records, collaborating on research, and improving communication between healthcare providers

Conclusion

SharePoint Server is a powerful collaboration platform that offers a wide range of features and benefits to organizations. By following the step-by-step installation and configuration process outlined in this guide, you can set up a fully functional SharePoint Server environment and leverage its capabilities to improve collaboration, productivity, and efficiency within your organization.

SharePoint's DLP features, communication and team sites, and workflow automation tools make it a versatile platform for managing and sharing information securely. Additionally, the cloud-based Office 365 SharePoint provides a cost-effective and scalable alternative for small to medium businesses that prefer a subscription-based model hosted by Microsoft.

By understanding the key features and benefits of SharePoint, as well as its use across various industries, organizations can make informed decisions about implementing and utilizing this powerful collaboration platform to streamline their business processes and enhance communication among team members.

Additional Resources

For more information on SharePoint Server and its features, refer to the following resources:

- Microsoft SharePoint Server Documentation: <https://docs.microsoft.com/en-us/sharepoint/sharepoint-server>
- SharePoint Server 2019 Installation Guide: <https://docs.microsoft.com/en-us/sharepoint/install/install-sharepoint-server-2019>
- SharePoint Server 2019 Deployment Guide: <https://docs.microsoft.com/en-us/sharepoint/install/deploy-sharepoint-server-2019>

By leveraging these resources and exploring the vast capabilities of SharePoint Server, you can tailor the platform to meet your organization's specific needs and maximize its potential for improving collaboration and productivity