

Quick Installation Guide for a Developer Workstation

A quick guide to installing the Sitecore XP Single topology.

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Sitecore Experience Platform 10.1.2



Table of Contents

1. Choosing a topology	3
1.1. On-premise topology options	3
1.2. Sitecore XP developer installation options	5
2. Server requirements	6
2.1. Hardware requirements for a server running a single Sitecore installation	6
2.2. IIS requirements	7
2.3. Operating system requirements	7
2.4. .NET requirements	7
2.5. Microsoft Visual C++ 2015 redistributable requirements	8
2.6. Database requirements	8
2.7. Enable Contained Database Authentication	9
2.8. Search indexing requirements	9
2.9. Installing Solr	10
2.10. Antivirus software considerations	10
2.11. Prerequisites for using the Sitecore Installation Framework	11
3. Installing Sitecore XP with the Sitecore Install Assistant	12
3.1. Download the Sitecore Install Assistant	12
3.2. Review prerequisites and requirements	12
3.3. Use SIA to install Sitecore XP	13
4. Sitecore Installation Framework	15
4.1. Set up Sitecore Installation Framework	15
4.1.1. Install the SIF Module using MyGet	15
4.1.2. Validate the installation	16
4.1.3. Run multiple versions of SIF	16
4.1.4. Run a specific version of SIF	16
5. Install Sitecore XP Single Developer (XP0) using SIF	18
5.1. XP Single Developer (XP0) topology	18
5.2. Download and organize the prerequisite and installation files	19
5.3. Install the prerequisites	19
5.4. Run the installation script for the XP Single Developer topology	20
5.5. Rebuild the search indexes and the Link database	21
6. Uninstall a Sitecore Single Developer topology	22
6.1. Uninstall a SIF configuration file	22
6.2. Uninstall the Sitecore XP Single Developer topology	23
7. Configure Azure Cognitive Search	24
8. Common issues	26

1. Choosing a topology

Before you install Sitecore Experience Platform, you must choose the topology or the type of instance that you want to install.

Sitecore supports the following topologies for on-premise installations by default:

- XP Single Developer (XP0)
- XM Scaled (XM1)
- XP Scaled (XP1)

This guide describes how to install the XP Single Developer topology.

If you want to install one of the other topologies, [download](#) the installation guide for that topology.

You can configure the topology to match your business needs. There are several scalability options that you can use to achieve better performance, cope with greater website demand, and manage large amounts of website traffic. For more information about scaling, see [Scaling options](#).

Sitecore also provides a number of cloud-based offerings. For more information, see our [Cloud Services](#).

This chapter contains the following sections:

- [On-premise topology options](#)
- [Sitecore XP developer installation options](#)

1.1. On-premise topology options

The following topologies are available:

Deployment topology	Description
XP Single Developer (XP0)	Use this topology for local development and testing. The Sitecore Experience Platform, runs as three single instances: Sitecore, xConnect, and Sitecore Identity server. The Experience Database (xDB) is partially included in the Sitecore and xConnect instances.

NOTE

For security and scalability reasons, in production environments, it is best practice to use the XM Scaled (XM1) or XP Scaled (XP1) configuration.

This option runs all the services on a single server.

Deployment topology	Description
XM Scaled (XM1)	<p>Use this topology if you are not planning to use the analytics and marketing features in the Sitecore Experience Platform.</p> <p>The Sitecore Experience Manager configuration (similar to CMS-only mode) runs the Content Delivery (CD), Content Management (CM) server roles and the Sitecore Identity server.</p> <div style="background-color: #f0f0f0; padding: 5px;"><p>NOTE When you select this topology, xDB and xConnect are not available.</p></div> <p>This option runs the services on one or more servers.</p>
XP Scaled (XP1)	<p>Use this topology if you are planning a fully featured Sitecore Experience Platform installation.</p> <p>The Sitecore Experience Platform configuration runs the following separated server roles:</p> <ul style="list-style-type: none">• Content Delivery• Content Management• Email Experience Dedicated Dispatch Server (optional)• Sitecore Identity• Processing• xConnect Collection• xConnect Collection Search• xDB Reference Data• xDB Automation Operations• xDB Automation Reporting• Sitecore Cortex™ Processing Engine• Sitecore Cortex™ Reporting service <p>This option runs the services on one or more servers.</p>

There are different ways to install Experience Manager (XM). You can use:

- Sitecore XM Scaled topology packages.
- Sitecore XP Single or the XP Scaled topology packages and then configure the installation to run in [CMS-only mode](#).
- Sitecore containers.

In a Sitecore Experience Manager installation, the [functionality](#) that you can use is different depending on how you installed Sitecore XM. For more information, see the [Sitecore Email Campaign Manager documentation](#).

1.2. Sitecore XP developer installation options

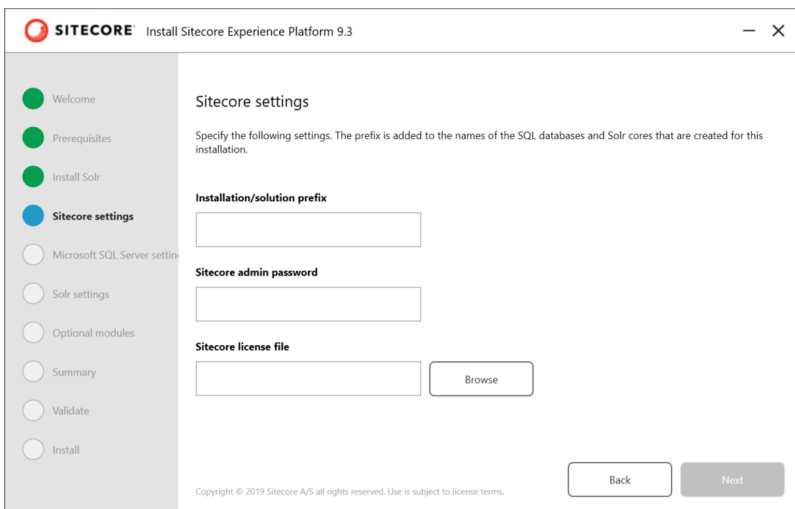
You can use the Sitecore Installation Framework (SIF) or the Sitecore Install Assistant (SIA) to install the Sitecore XP0 topology.

Sitecore Installation Framework (SIF) is a Microsoft® PowerShell module that supports local and remote installations of Sitecore Experience Platform.

Sitecore Install Assistant (SIA) was introduced in Sitecore XP 9.2.0 and contains an intuitive graphical user interface that guides you through the installation process. In addition to being easier to use than SIF, it also:

- Optionally installs and configures the required version of the Solr search service. Solr is a prerequisite for installing all Sitecore Experience platform topologies.
- Optionally installs Sitecore Experience Accelerator (SXA).
- Configures the Microsoft Windows Server options, configuration settings, and applications required by Sitecore Experience Platform.
- Validates the specified installation parameters and settings.

The following is an example of a page in the Sitecore Install Assistant:



2. Server requirements

Before installing Sitecore Experience Platform, you must ensure that you have all of the requirements and prerequisites in place.

If you are using Sitecore Install Assistant (SIA) to install Sitecore XP, most of the software prerequisites and requirements are managed by SIA.

This chapter contains the following sections:

- [Hardware requirements for a server running a single Sitecore installation](#)
- [IIS requirements](#)
- [Operating system requirements](#)
- [.NET requirements](#)
- [Microsoft Visual C++ 2015 redistributable requirements](#)
- [Database requirements](#)
- [Enable Contained Database Authentication](#)
- [Search indexing requirements](#)
- [Installing Solr](#)
- [Antivirus software considerations](#)
- [Prerequisites for using the Sitecore Installation Framework](#)

2.1. Hardware requirements for a server running a single Sitecore installation

To run a single Sitecore installation, the minimum configuration requirements are:

- 4 core processor
- 16 GB of RAM

NOTE

The recommended hardware requirements are for running the software on a single computer. For more information about running Sitecore on different kinds of hardware, consult your Sitecore partner or technical sales representative.

2.2. IIS requirements

You must use the version of IIS that your operating system supports. For more information about IIS and operating systems, see [Microsoft's documentation](#).

Sitecore Experience Platform does not officially support any other ASP.NET web servers such as IIS Express, or Mono Web Server.

Sitecore Experience Platform neither supports nor allows multiple IIS website definitions to point to the same Sitecore web root.

2.3. Operating system requirements

Sitecore Experience Platform is only compatible with the client and server operating systems that support .NET Framework 4.8.0.

Sitecore Experience Platform can be hosted on the following Microsoft operating systems:

- Windows Server 2019
- Windows Server 2016
- Windows 10 (64-bit)

IMPORTANT

You must enable the Transport Layer Security (TLS) protocol version 1.2 on all of your Sitecore Experience Platform content management and Dedicated Dispatch servers (DDS).

For more information about enabling TLS 1.2, see [Microsoft's documentation](#).

IMPORTANT

Run Windows Update and install all the appropriate service packs and security updates.

2.4. .NET requirements

Sitecore Experience Platform requires .NET Framework 4.8.0.

Sitecore Identity server requires [.NET Core 3.1 Windows Hosting Bundle](#) or later.

You must apply any available updates to the .NET Framework on every Sitecore installation.

2.5. Microsoft Visual C++ 2015 redistributable requirements

Sitecore Experience Platform 9.0 Update-1 introduced a new prerequisite for the Microsoft Visual C++ 2015 Redistributable. For more information, see [Microsoft's documentation](#).

NOTE

This redistributable may already be installed with Microsoft Windows. Without it, Sitecore Experience Platform will fail to start up with the message:

Could not load file or assembly 'ChilkatDotNet46.dll' or one of its dependencies. The specified module could not be found.

2.6. Database requirements

Sitecore Experience Platform supports the following database servers:

- Microsoft SQL Server 2017
- Microsoft SQL Server 2019
- Microsoft Azure SQL

You must create the Azure SQL instance in advance and pass the address and the server administrator credentials in the corresponding parameters when you run the installation. For more information, see the [Sitecore XP documentation](#).

NOTE

In Sitecore 10.1.0, the MongoDB session state provider is no longer supported. You must use the Redis session state provider or the SQL session state provider.

In Sitecore 10.1.0, the MongoDB xDB Collection database provider is no longer supported. You must use SQL Server.

NOTE

All of the databases in Sitecore Experience Platform use the *SQL_Latin1_General_CP1_CI_AS* collation, except the *Reference Data* database that uses the case sensitive *Latin1_General_CS_AS* collation. This is because comparisons in the *Reference Data* database are case sensitive and they are not case sensitive in the other databases.

2.7. Enable Contained Database Authentication

When you use Web Deploy Packages, you must ensure that the target SQL Server is configured to allow users and logins to be contained at the database level.

To configure the target SQL Server:

1. Launch Microsoft SQL Server Management Studio and log in as an administrator.
2. Run the following new query:

```
EXEC sp_configure 'contained', 1;  
RECONFIGURE;
```

NOTE

For more information about the contained database authentication option, see [Microsoft's documentation](#).

2.8. Search indexing requirements

Sitecore Experience Platform supports:

- [Solr 8.4.0](#)
Solr is the default search provider and supports both content search and analytics search. To use the Sitecore Installation Framework (SIF), you must have Solr installed.
- [Azure Search](#)
The Azure Search provider is supported and recommended for Azure Cloud PaaS deployments only. Azure search supports both content search and analytics search. In PaaS solutions, you can use Azure Search, Solr, or SolrCloud in Azure. In on-premise solutions, the Sitecore Installation Framework requires Solr to deploy. After the deployment you can switch the indexing to use Azure Search. For more information, see the section [Configure Azure Search](#).

NOTE

Azure Search was deprecated in Sitecore XP 10.0.0 and will be completely removed in a future release. If you are starting a new Sitecore project, we recommend that you use Solr as your search engine.

NOTE

Support for Lucene was removed in Sitecore XP 9.3.0.

For more information about how to install and manage these index providers in Sitecore Experience Platform, see the [Sitecore documentation](#).

2.9. Installing Solr

NOTE

If you plan to use the Sitecore Installation Assistant to install Sitecore XP, it can install Solr for you and you can skip this section.

If you plan to use the Sitecore Installation Framework (SIF) to install Sitecore XP, you must follow the steps described in this section.

The standard Sitecore Experience Platform configuration requires Solr. The Sitecore Experience Platform is secure by default, you must, therefore, enable SSL for Solr.

Before you run the SIF, you must:

- [Install Solr](#) and configure it to run as a Windows service.
- [Enable and set up SSL for Solr](#).

The `Solr-Singledeveloper.json` deployment configuration file installs and configures Solr with SSL.

For local testing and development, you can set up a self-signed certificate. The Apache Solr Reference guide has more information about [creating a self-signed certificate](#).

2.10. Antivirus software considerations

Some antivirus software can have a detrimental effect on the performance of ASP.NET applications, including Sitecore. We recommend that you use only antivirus scanners that are certified for your operating system.

For more information about the certified products, see the [Windows Server Catalog](#) website.

For optimal performance, ensure that the following folders are *not* scanned by your antivirus software:

- The site root folder
- The data folder defined in the `web.config` file
- The folder that contains the actual Sitecore database files
- The `C:\Windows\Temp` or `{app_pool user profile}\Temp` folder

NOTE

Active file scans from antivirus tools can significantly impact the performance of search indexing software. This can lead to poor user experience or slow system performance. Consider turning off any antivirus tools or modifying antivirus settings on the search index server to exclude the application data folders from scans. For more information about your search indexing software, consult the related documentation.

2.11. Prerequisites for using the Sitecore Installation Framework

To use the Sitecore Installation Framework to install Sitecore Experience Platform in an on-premise environment, you must download and install:

- [Microsoft PowerShell® version 5.1 or later](#)

3. Installing Sitecore XP with the Sitecore Install Assistant

This chapter describes how to use the Sitecore Install Assistant (SIA) to install the Sitecore XP for developing and testing purposes.

You can use SIA to install the:

- Sitecore XP Single Developer (XP0) topology.
- Sitecore XM Scaled (XM1) topology

This chapter contains the following sections:

- [Download the Sitecore Install Assistant](#)
- [Review prerequisites and requirements](#)
- [Use SIA to install Sitecorer XP](#)

3.1. Download the Sitecore Install Assistant

To download the [Sitecore Install Assistant](#):

- After you download the file, unpack SIA and store it on the computer where you want to install Sitecore XP.

The package includes:

- `setup.exe` - the SIA executable file.
- JSON configuration files.
- ZIP program files.

3.2. Review prerequisites and requirements

SIA requires .NET Framework 4.8.0.

Before you use SIA to install Sitecore XP, you must:

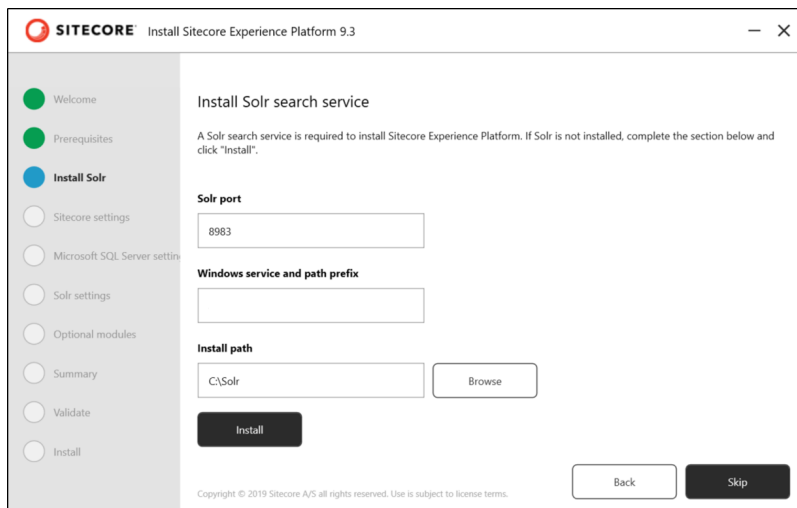
- Install SQL Server.
- Install all the operating system updates.
- Have a valid Sitecore license file.

- Ensure that your computer meets the minimum hardware requirements. For more information, see [Server requirements](#).

3.3. Use SIA to install Sitecorer XP

To use SIA:

1. Go to the folder where you unpacked SIA.
2. Run `setup.exe` - it runs with administrator permissions by default.
3. Review the information on the Welcome page and click **Start**.
4. SIA guides you through the installation process.



The left-hand panel contains the title of each SIA page. Green indicates that the page has been completed and blue indicates the active page.

The following table contains a summary of the information required in each page of SIA:

Page	Notes
Welcome	Review the information on this page to ensure you are ready to start the installation process.
Prerequisites	<p>This page installs the prerequisites:</p> <ul style="list-style-type: none"> • Sitecore Installation Framework (SIF) - a Microsoft® PowerShell module that supports local and remote installations of Sitecore XP. This module is required. • Windows Server prerequisites – the operating system applications and settings required to run Sitecore XP. <p>To ensure that you have the latest version of SIF and that your operating system meets the system requirements, we recommend that you select both options and click Install.</p>

Page	Notes
Install Solr	<p>This page installs the Solr search provider. If you already have Solr installed, click Skip. Otherwise, enter the appropriate information on the page and click Install.</p> <p>If you choose to install Solr, Red Hat OpenJDK 8 (64-bit) is also installed.</p>
Sitecore settings	The Sitecore settings including the installation prefix, the administrator password, and the location of the Sitecore license file.
Microsoft SQL Server settings	The Microsoft SQL Server settings including the instance name, the admin user name, and the admin password.
Solr settings	The Solr settings including the service URL, the file system root, and the name of the Solr Windows service.
Optional modules	The optional Sitecore modules that you can install. Currently, Sitecore Experience Accelerator (SXA) is the only available module.
Summary	<p>All the settings that you specified.</p> <p>Review the information on this page and ensure that no changes are required. To make some changes, click Back.</p>
Validate	<p>This page checks that all the requirements are installed and configured correctly.</p> <p>When all requirements are in place, click Install.</p>
Install	<p>A summary of the installation process. An error terminates the installation process.</p> <p>To review the installation process errors, as well as any errors that occurred, click Log.</p>
Complete	<p>Tells you whether the installation has been successful.</p> <p>If the installation has been successful, you can open the Sitecore Launchpad.</p>

4. Sitecore Installation Framework

You can use the Sitecore Installation Framework (SIF) to install the Sitecore XP.

For information about how to use the Sitecore Install Assistant, see [Installing Sitecore XP with the Sitecore Install Assistant](#).

Before you can install Sitecore Experience Platform, you must set up SIF.

This chapter contains the following section:

- [Set up Sitecore Installation Framework](#)

4.1. Set up Sitecore Installation Framework

The Sitecore Installation Framework (SIF) is a Microsoft® PowerShell module that supports local and remote installations of Sitecore Experience Platform.

SIF deploys Web Deploy Packages (WDP) by passing parameters to SIF configuration files through a Microsoft® PowerShell module and is fully extensible.

The Sitecore Experience Platform is designed to be secure-by-default. For developer environments all the required self-signed certificates are created automatically if you do not provide any.

In a production environment, you can provide your own certificates. In a non-production environment, you can choose to have the module generate the certificates for you.

You *must* set up SIF before you can install Sitecore Experience Platform.

4.1.1. Install the SIF Module using MyGet

The [Sitecore Gallery](#) is a public MyGet feed where you can download and install PowerShell modules created by Sitecore, including SIF.

To set up SIF:

1. In Windows, open PowerShell as an administrator.
2. To register the repository, in a PowerShell command line, run the following cmdlet:

```
Register-PSRepository -Name SitecoreGallery  
-SourceLocation https://sitecore.myget.org/F/sc-powershell/api/v2
```

3. When prompted to install, press **Y**, and then press **Enter**.
4. To install the PowerShell module, run the following cmdlet:

```
Install-Module SitecoreInstallFramework
```

5. When prompted to install, press **Y**, and then press **Enter**.

Update the Sitecore Installation Framework Module

When a newer version of the SIF module is available, you can update to the latest version by running a PowerShell cmdlet.

To update the SIF module, run the following cmdlet:

```
Update-Module SitecoreInstallFramework
```

4.1.2. Validate the installation

After you install SIF, you can validate the installation to confirm that it is available for use.

NOTE

This validation only works if you have installed SIF to the *All users* (global) path.

To validate the installation, run the following cmdlet:

```
Get-Module SitecoreInstallFramework -ListAvailable
```

4.1.3. Run multiple versions of SIF

If you want to install a previous version of Sitecore Experience Platform on the same computer, you must also have the required SIF version installed. PowerShell uses the latest available version of a module in a session by default and you must import the specific version of SIF required for the version of Sitecore that you want to install.

The versions of SIF that are compatible with Sitecore Experience Platform:

Sitecore Experience Platform Version	SIF Version
9.0.X	1.2.1
9.1.0	2.0.0
9.1.1	2.1.0 or later
9.2.0	2.1.0 or later
9.3.0	2.2.0
10.X.X	2.3.0

To install a specific version of SIF:

1. Run the following cmdlet:

```
Install-Module -Name SitecoreInstallFramework -RequiredVersion x.x.x
```

2. Enter the appropriate value in the `RequiredVersion` parameter.

4.1.4. Run a specific version of SIF

To run a specific version of SIF:

- Run the following cmdlet:

```
Import-Module -Name SitecoreInstallFramework -Force -RequiredVersion x.x.x
```

You use the specified version for the remainder of the session.

The next time you start a PowerShell session it automatically uses the latest available version.

5. Install Sitecore XP Single Developer (XP0) using SIF

This chapter describes how to install Sitecore XP Single Developer (XP0) on a single computer using Sitecore Installation Framework (SIF).

For information about how to use the Sitecore Install Assistant, see [Installing Sitecore XP with the Sitecore Install Assistant](#).

This chapter contains the following sections:

- [XP Single Developer \(XP0\) topology](#)
- [Download and organize the prerequisite and installation files](#)
- [Install the prerequisites](#)
- [Run the installation script for the XP Single Developer topology](#)

The Sitecore installation is a combination of `.json` configuration files and Web Deploy Packages (WDPs).

You can download the relevant SIF configuration files and the WDPs for each of the topologies from the [Sitecore Downloads](#) page.

SIF uses the `.json` configuration files to configure the environment and uses the WDP packages to install the application and databases.

5.1. XP Single Developer (XP0) topology

The predefined XP Single Developer topology configures:

- The xConnect and xDB web services.
- The Sitecore Identity server - a stand-alone website that acts as an OpenID Connect compliant security token service (STS).
- Search indexes on the Solr search engine.
- A Windows service that runs the Marketing Automation engine.
- A Windows service that runs the xConnect indexer.
- A Windows service that runs the Sitecore Cortex™ Processing Engine.
- The Sitecore Cortex™ Reporting service.
- The Sitecore content and xDB databases.
- A self-signed client certificate for secure communication between Sitecore and xConnect.
- A self-signed server certificate for running HTTPS on the *xConnect* and *xDB* web services.
- A self-signed server certificate for running HTTPS on the Sitecore Identity server.

5.2. Download and organize the prerequisite and installation files

The installation files must be located in a single folder. We recommend that you create a folder named `c:\resourcefiles`.

To download installation files:

1. On the [Sitecore Experience Platform download site](#), download Sitecore 10.1.2 rev. 006578 (WDP XP0 packages).zip. This file is listed in the **Download options for On Premises deployment** section as **Packages for XP Single**.
2. Move this file to the `C:\resourcefiles` folder.
3. Unpack the ZIP file. The four files unpacked include:
 - Sitecore 10.1.2 rev. 006578 (OnPrem)_single.scwdp.zip
 - Sitecore 10.1.2 rev. 006578 OnPrem)_xp0xconnect.scwdp.zip
 - Sitecore.IdentityServer 6.0.0 r00301 (OnPrem)_identityserver.scwdp.zip
 - XP0 Configuration files 10.1.2 rev. 006578.zip
4. Copy the four ZIP files to the `C:\resourcefiles` folder.
5. Unpack the XP0 Configuration files 10.1.2 rev. 006578.zip file.
6. Copy the following unpacked files to the `C:\resourcefiles` folder:
 - createcert.json
 - IdentityServer.json
 - Prerequisites.json
 - sitecore-solr.json
 - sitecore-XP0.json
 - xconnect-solr.json
 - xconnect-xp0.json
 - XP0-SingleDeveloper.json
 - XP0-SingleDeveloper.ps1

5.3. Install the prerequisites

For information about manually installing the prerequisites, see the *Installation Guide for the XP Scaled Topology*.

To automatically install the prerequisites for any of the topologies on a single server:

1. Open PowerShell as an administrator and navigate to the `c:\resourcefiles` command line.
2. Run the following cmdlet:

```
Install-SitecoreConfiguration -Path .\Prerequisites.json
```

When the installation is complete, you might be informed that a server reboot is required.

5.4. Run the installation script for the XP Single Developer topology

To simplify your installation, use a PowerShell script to install the Sitecore XP Single Developer (XP0) topology.

To edit and run the installation script:

1. Save your Sitecore license file in the `c:\resourcefiles` folder as `license.xml`.
2. In the `c:\resourcefiles` folder, edit the `XP0-SingleDeveloper.ps1` script and update each line with the settings that are appropriate for your environment.

One of the settings that you must edit is `SitecoreAdminPassword`.

If you do not specify the Sitecore administrator password in the script and leave the example value "SIF-Default" unchanged, a random password is generated for you. This password is stored in the `XP0-SingleDeveloper.log` file, and displayed when the `sitecore-xp0.json` file has been processed. To locate the password, search for *Sitecore Admin Password*.

IMPORTANT

The default Sitecore administrator password is not valid when you use this script to install Sitecore XP.

3. Open PowerShell as an administrator, navigate to the `c:\resourcefiles` command line, and run the following cmdlet:

```
.\XP0-SingleDeveloper.ps1
```

All the passwords for DB users and other secrets such as the Identity Server client secret and the TelerikEncryptionKey are not displayed on the screen. They are automatically generated and inserted into the appropriate configuration files.

If you add a DDS server, you must pass the generated passwords for the CM server to the DDS SIF installation parameters. You can find the generated passwords in the installation logs and in the `App_Config/connectionStrings.config` file on the CM server.

If the `SqlCollectionUser` parameter is not set to a custom value during the installation, the prefix that is specified in the installation script is added to it.

We recommend that you keep these scripts. You can use them to uninstall this topology.

5.5. Rebuild the search indexes and the Link database

After you install Sitecore Experience Platform, you must rebuild the search indexes and rebuild the *Link* databases.

To rebuild all the indexes:

1. On a Sitecore CM or Index Manager instance, open the Sitecore Launchpad, click **Control Panel**, and in the **Indexing** section, click **Indexing manager**.
2. In the **Indexing Manager** dialog box, click **Select all**, and then click **Rebuild**.

To rebuild the Link databases for the *Master* and *Core* databases:

1. On the **Sitecore Launchpad**, click **Control Panel**, and in the **Database** section, click **Rebuild Link Databases**.
2. Select the *Master* and *Core* databases and then click **Rebuild**.

6. Uninstall a Sitecore Single Developer topology

You can also use SIF to uninstall the SIF configuration files and the Sitecore XM Single Developer or Sitecore XP Single Developer topologies.

This chapter contains the following sections:

- [Uninstall a SIF configuration file](#)
- [Uninstall the Sitecore XP Single Developer topology](#)

6.1. Uninstall a SIF configuration file

You can use SIF to uninstall a SIF configuration file on a local server.

To uninstall a SIF configuration file on a local instance:

1. Launch PowerShell as an administrator.
2. Run the `Uninstall-SitecoreConfiguration` cmdlet, and specify the path to your SIF configuration file.
For example, using the `sitecore-XP0.json` file:

```
Uninstall-SitecoreConfiguration -Path <configurationpath>\sitecore-XP0.json
```

Alternatively, you can pass in the parameters declared in the SIF configuration files by prefixing their name with a dash “-” in the command line.

For example:

```
Uninstall-SitecoreConfiguration -Path <configurationpath>\sitecore-XP0.json -SqlDbPrefix SC
```

In a PowerShell command line, you can pass additional parameters to control the uninstall process.

For example, running the `Verbose` cmdlet increases the amount of information that is logged, and the `-Skip <taskname>` cmdlet skips one or more tasks.

To correctly uninstall a SIF configuration, you must pass the same parameters that were used during the installation.

The uninstallation is performed by a separate list of tasks within the configuration file. For more information, see the [SIF documentation](#).

6.2. Uninstall the Sitecore XP Single Developer topology

To uninstall the Sitecore XP Single Developer topology:

1. In the `XP0-SingleDeveloper.ps1` script, change the `Install-SitecoreConfiguration` cmdlet to `Uninstall-SitecoreConfiguration`.

For example, change

```
Install-SitecoreConfiguration @singleDeveloperParams *>&1 | Tee-Object XP0-  
SingleDeveloper.log
```

to

```
Uninstall-SitecoreConfiguration @singleDeveloperParams *>&1 | Tee-Object XP0-  
SingleDeveloper-Uninstall.log
```

The example scripts contain this line already. You only need to uncomment and comment out the appropriate lines.

2. Run the script and the topology is removed.

7. Configure Azure Cognitive Search

Sitecore Experience Platform supports Solr and Azure Cognitive Search as search providers.

IMPORTANT

In Sitecore XP 10.0.0, support for Azure Cognitive Search was deprecated and will be completely removed in a later release.

In on-premise solutions, SIF and SIA require Solr. When the installation is completed, you can switch to Azure Cognitive Search.

To configure Azure Cognitive Search for xConnect:

1. In the `xconnect\App_data\config\sitecore\CollectionSearch` folder:
Enable the following configuration file by removing the `.disabled` extension:
 - `sc.Xdb.Collection.IndexReader.AzureSearch.xml.disabled`Disable the following configuration files by adding the `.disabled` extension:
 - `sc.Xdb.Collection.IndexReader.SOLR.xml`
 - `sc.Xdb.Collection.WebClient.SOLR.xml`
2. In the `xconnect\App_data\jobs\continuous\IndexWorker\App_data\config\sitecore` folder, enable the following configuration files by removing the `.disabled` extension:
 - `\SearchIndexer\sc.Xdb.Collection.IndexWriter.AzureSearch.xml.disabled`
 - `\CollectionSearch\sc.Xdb.Collection.IndexReader.AzureSearch.xml.disabled`
3. In the `xconnect\App_data\jobs\continuous\IndexWorker\App_data\config\sitecore` folder, disable the following configuration files by adding the `.disabled` extension:
 - `\CollectionSearch\sc.Xdb.Collection.IndexReader.SOLR.xml`
 - `\CollectionSearch\sc.Xdb.Collection.WebClient.SOLR.xml`
 - `\SearchIndexer\sc.Xdb.Collection.IndexWriter.SOLR.xml`
4. In the `\Search-indexer\sc.Xdb.Collection.IndexWriter.AzureSearch.xml.disabled` file, the `DataReplicationTimeoutMilliseconds` setting is disabled by default. If you use more than one replica, you must enable this setting.
5. In the following connection string files:
 - `xconnect\App_Config\ConnectionStrings.config`
 - `xconnect\App_data\jobs\continuous\IndexWorker\App_config\ConnectionStrings.config`

Add (uncomment) and update the Azure Search connection string, the default name is `collection.search`.

```
<add name="collection.search" connectionString="serviceUrl=https://  
[service].search.windows.net/;indexName=[index name];apiKey=[API Key]"/>
```

To configure content search, see the following topics:

- [Configure a search and indexing provider.](#)
- [Configure Azure Cognitive Search](#)

8. Common issues

I get a 403.16 Forbidden error

- Check that your root certificate is in the Trusted Root Certificates Authority store of the *Local Computer*, not the current user and that the *Issued To* and *Issued By* properties of the root certificate match.
- Ensure you imported the certificates into the *Local Computer's* certificate store, not the current user's certificate store.
- Ensure the certificate you created in IIS has a name that matches the site.
For example, `CM_test`.
- Ensure you pasted your thumbprint into a PowerShell command line window, and that you removed the hidden character at the start of the string.
- Ensure your thumbprint is in uppercase letters.
For example: `3D703B5198D6D3CEE1D0C1B1BC9ECB6D34989BA4`.
You can find the thumbprint in the following locations:
 - `Sitecore\App_Config\ConnectionStrings.config`
 - `XConnect\App_Config\ConnectionStrings.config`
 - `XConnect\App_Data\jobs\continuous\AutomationEngine\App_Config\ConnectionStrings.config`
- Ensure the self-signed certificate you created in IIS has the same name as your xConnect instance.
- Ensure the client authentication certificate (under the local machine's *Personal* store) has *read* permissions for the `IIS_IUSR` group and the `NETWORK SERVICE` group.

My Solr index is empty

In the `\xConnect\App_data\jobs\continuous\IndexWorker\App_data\Logs` folder, check the indexer's log files.

If you have an error that says your remote certificate is invalid according to the validation procedure, ensure that the indexer's `ConnectionStrings.config` file is using `localhost` rather than `127.0.0.1` for the Solr core URL.

Microsoft.SqlServer.TransactSql.ScriptDom.dll is not installed

If this happens, you can see the following error: *The SQL provider cannot run with dacpac option because of a missing dependency.* To resolve this issue, see this [Knowledge Base article](#).

My Sitecore installation failed while I was using Skype

If you use Skype while you are installing Sitecore Experience Platform, it is possible that your xConnect installation may fail. This occurs because Skype and Sitecore xConnect both use port 443, which interferes with the installation.

If this happens, change your Skype configuration as described in [Microsoft's documentation](#).

Failed installations

If an installation fails for any reason, you must clean up the partial installation before attempting another installation.

To clean up a partial installation, run the configurations again with the `Uninstall-SitecoreConfiguration` command with the same parameters as you used for the installation.

The `createcert.json` configuration file does not contain uninstallation tasks that remove certificates because it is highly likely that the certificates, particularly the root certificates, are used elsewhere.

To remove an incorrect certificate:

1. To open the **Certificate Management** console, in the Windows command prompt, enter `certlm.msc` and press **Enter**.
To open the **Certificate Management** console for the Current User, enter `certmgr.msc`.
2. In the left pane, in the tree, expand the *Personal* node and select **Certificates**.
3. Select the incorrect certificate, right click it and then click **Delete**.
4. To remove the Root certificates, in the console, in the left hand pane, expand *Certificates, Trusted Root Certification Authorities, Certificates* and select the incorrect certificate, right click it and then click **Delete**.

After you have removed the failed installation, correct the errors in the launch script or configuration files before attempting a new installation.

The Indexing Manager shows no results after rebuilding the indexes

This can happen if the Solr managed schema is not populated properly during deployment.

To solve this problem, re-populate the Solr schema.

My Solr Schema is not populated

To populate the Solr schema:

1. On the **Sitecore Launchpad**, click **Control Panel**, and in the **Indexing** section, click **Populate Solr Managed Schema**.
2. In the **Schema Populate** dialog box, click **Select all**, and then click **Populate**.