

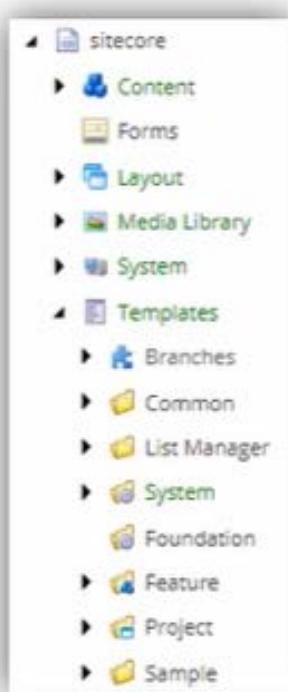
Reference :

Sitecore Helix - Getting Started – PluralSite

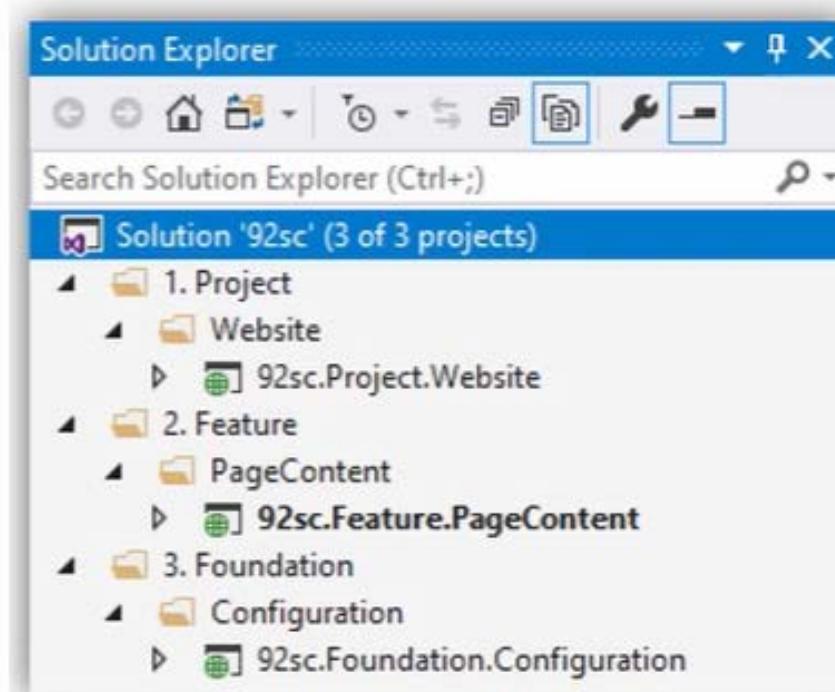
Sitecore Helix

A set of overall design principles and conventions for Sitecore development.

Why Sitecore Helix?



Helix in Sitecore



Helix in Visual Studio

Installing Sitecore 10.1 XM

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Installing Sitecore 10.1 XM

Prerequisites

Required

- HTML, CSS, JavaScript
- ASP.NET/MVC/C# with IIS
- Visual Studio 

Optional

- SQL Server
- Solr
- PowerShell
- Docker
- VScode

Not Required

- Sitecore

Installing Sitecore 10.1 XM

Course Outline



- Configuring a development environment for Sitecore
- Installing Sitecore
- Setting Up a Sitecore MVC Visual Studio Project Using Helix
- Working with Sitecore Layouts, Renderings, and Data Templates
- Studying Sitecore

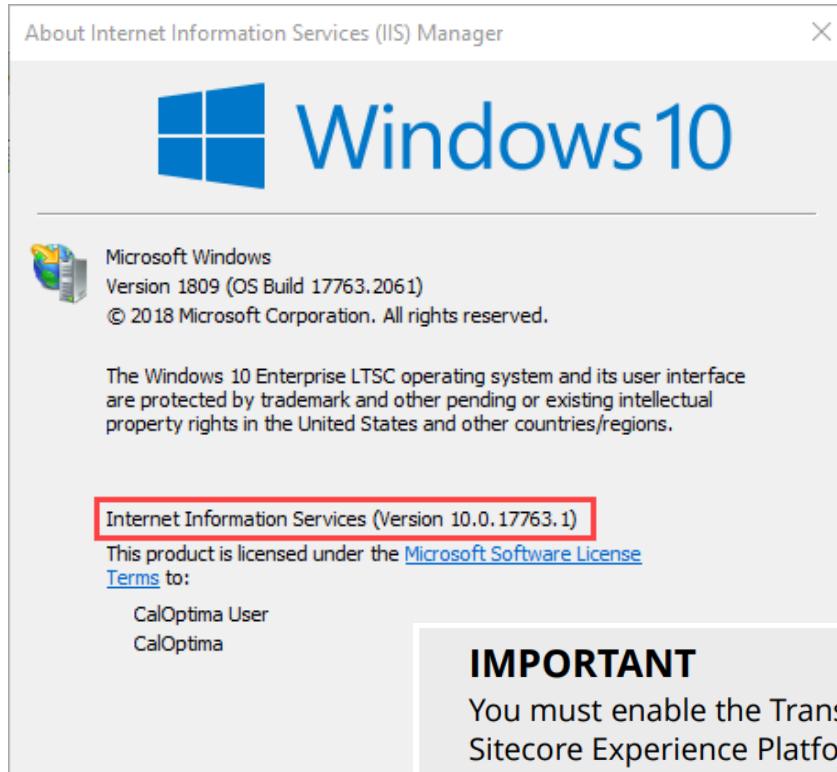
Installing Sitecore 10.1 XM

Configuring a
Development
Environment for
Sitecore



- **Operating System**
 - Windows 10
 - Windows Server 2016 or higher
- **Visual Studio 2019 or later**
- **.NET Framework 4.8**
- **SQL Server 2017 or later**
- **Docker**

Installing Sitecore - Operating System Requirements



.NET requirements

- Sitecore Experience Platform 10.1.0 requires .NET Framework 4.8.0. Sitecore
- Identity server requires .NET Core 2.1.18 Windows Hosting Module or later
- Microsoft Visual C++ 2015 redistributable

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.

What Is Docker?

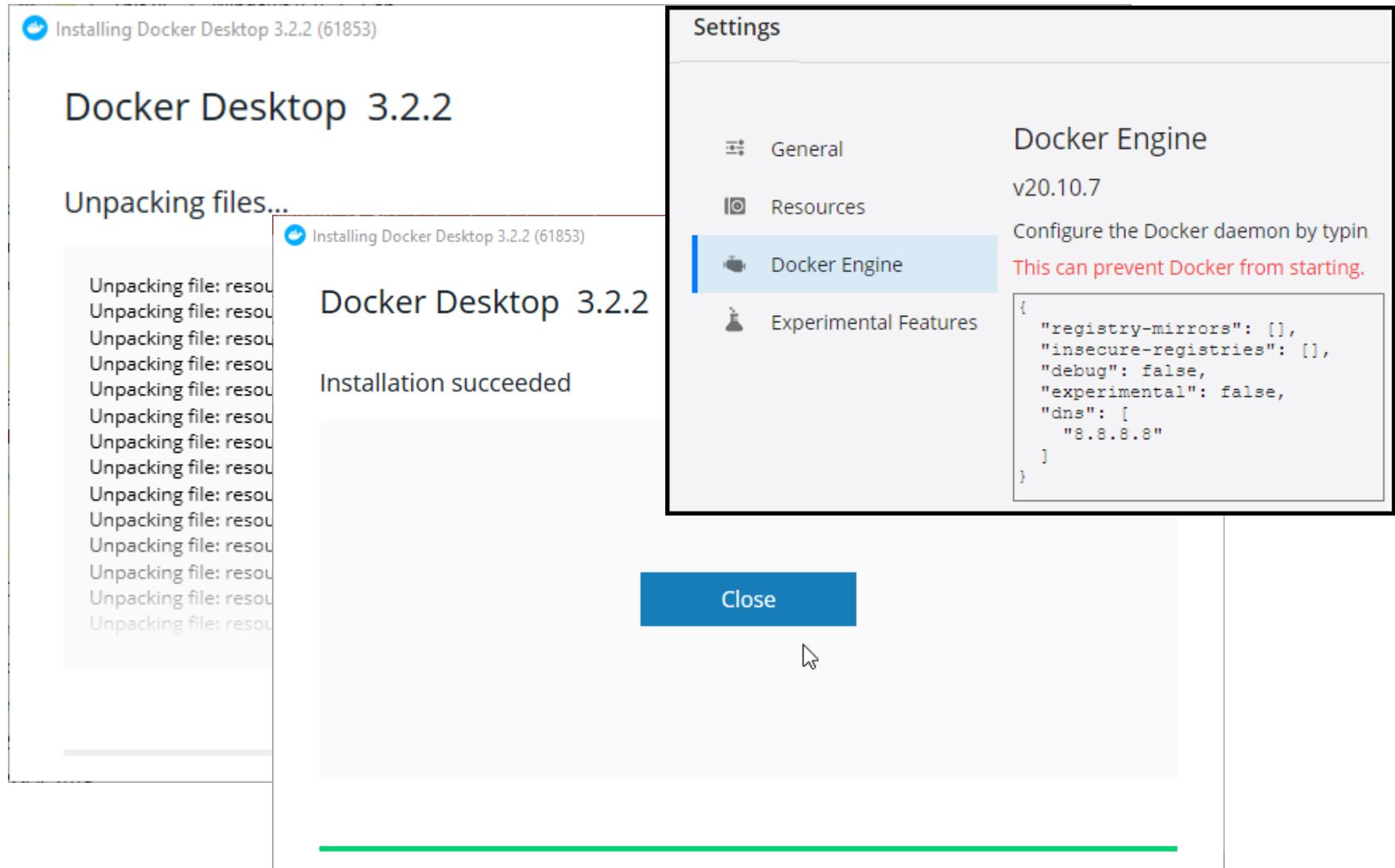
Docker helps to simplify the development workflow by using a containerized approach

Docker Prerequisites

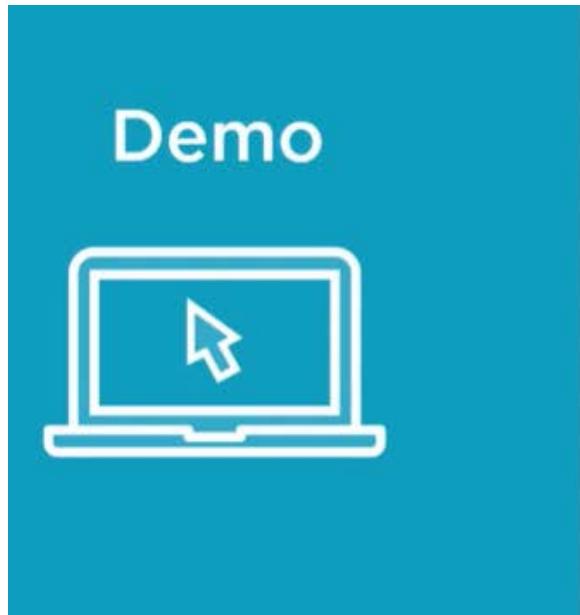
- Windows 10 Professional or Enterprise version 1809 (2019 LTSC) or later
- Hyper-V

Hardware Guidelines

- 16GB RAM (minimum)
- 32GB RAM recommended
- Quad core or higher CPU
- 25GB free disk space
- Virtualization support turned on in the BIOS

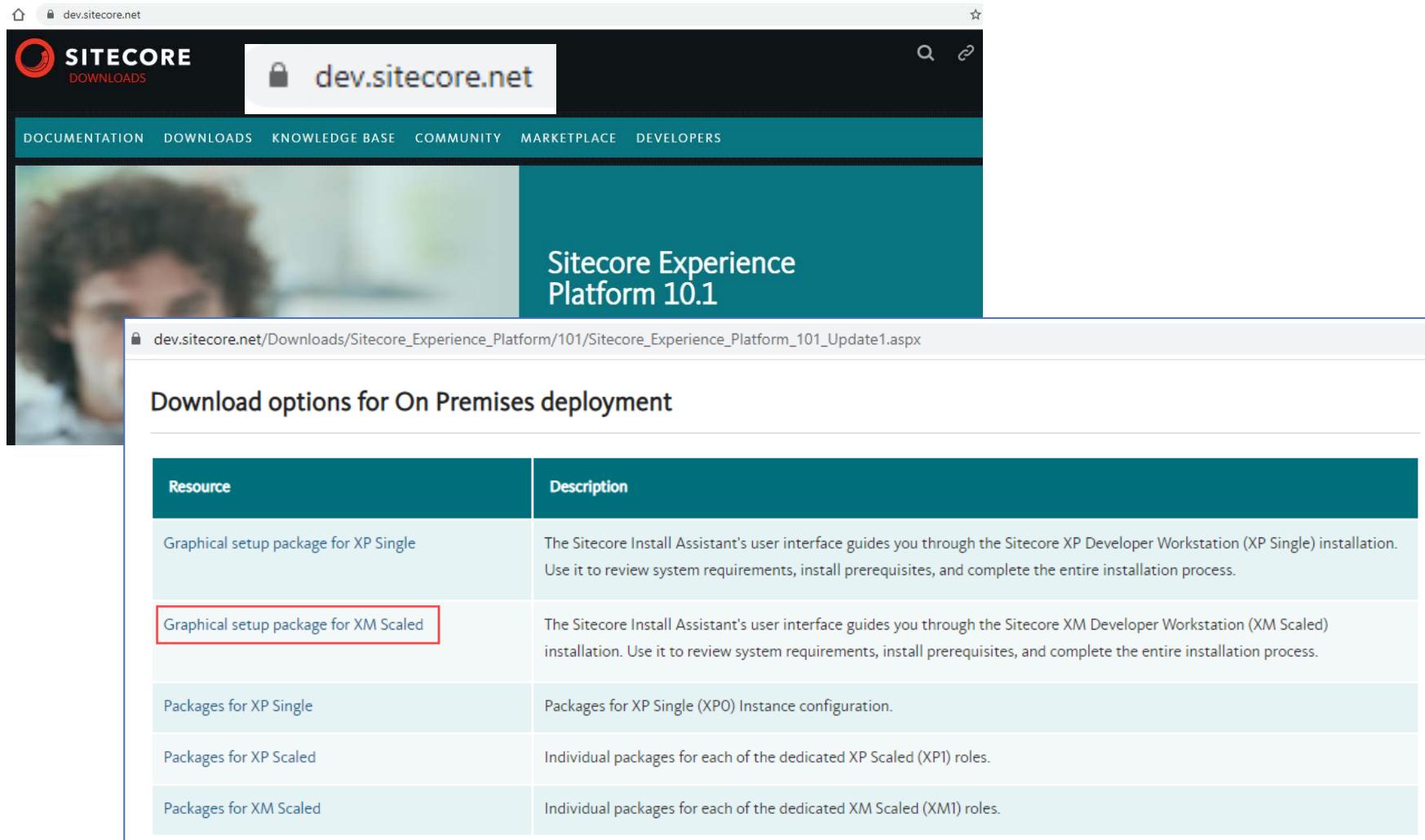


Installing Sitecore



- Sitecore Dev Portal - Installation Files
- Developer License
- Sitecore Install Assistant (SIA)
- Sitecore Installation Framework (SIF)
- Docker
- Review Basic Setup

Installing Sitecore – Download : [Graphical setup package for XM Scaled](#)



The screenshot shows a web browser displaying the dev.sitecore.net website. The page is titled "Sitecore Experience Platform 10.1". A table lists download options for On Premises deployment:

Resource	Description
Graphical setup package for XP Single	The Sitecore Install Assistant's user interface guides you through the Sitecore XP Developer Workstation (XP Single) installation. Use it to review system requirements, install prerequisites, and complete the entire installation process.
Graphical setup package for XM Scaled	The Sitecore Install Assistant's user interface guides you through the Sitecore XM Developer Workstation (XM Scaled) installation. Use it to review system requirements, install prerequisites, and complete the entire installation process.
Packages for XP Single	Packages for XP Single (XPO) Instance configuration.
Packages for XP Scaled	Individual packages for each of the dedicated XP Scaled (XPI) roles.
Packages for XM Scaled	Individual packages for each of the dedicated XM Scaled (XMI) roles.

https://dev.sitecore.net/Downloads/Sitecore_Experience_Platform/101/Sitecore_Experience_Platform_101_Update1.aspx

Installing Sitecore – Download XM1

Name	Date modified	Type	Size
createcert.json	5/27/2021 10:48 AM	JSON File	5 KB
IdentityServer.json	5/27/2021 10:48 AM	JSON File	18 KB
importcert.json	5/27/2021 10:48 AM	JSON File	3 KB
Install-XM1-Distributed.ps1	5/27/2021 10:51 AM	Windows PowerS...	15 KB
Prerequisites.json	5/27/2021 10:48 AM	JSON File	27 KB
Role-Remote.json	5/27/2021 10:48 AM	JSON File	3 KB
setup.copyrights.txt	5/28/2021 8:21 AM	Text Document	12 KB
setup.exe	5/28/2021 8:23 AM	Application	974 KB
setup.exe.config	6/1/2021 5:29 PM	XML Configuratio...	9 KB
Sitecore 10.1.1 rev. 005862 (XM) (OnPrem...)	6/1/2021 12:42 PM	Compressed (zipp...	181,769 KB
Sitecore 10.1.1 rev. 005862 (XM) (OnPrem...)	6/1/2021 12:44 PM	Compressed (zipp...	181,814 KB
Sitecore Experience Accelerator XM 10.1....	2/3/2021 8:48 AM	Compressed (zipp...	3,978 KB
Sitecore Experience Accelerator XM 10.1....	2/3/2021 8:48 AM	Compressed (zipp...	17,175 KB
Sitecore.IdentityServer 5.1.1 rev. 00292 (O...)	6/1/2021 12:44 PM	Compressed (zipp...	14,059 KB
Sitecore.PowerShell.Extensions-6.2.scwd...	2/3/2021 8:48 AM	Compressed (zipp...	1,653 KB
sitemore-solr.json	5/27/2021 10:48 AM	JSON File	21 KB
ns.json	5/27/2021 10:48 AM	JSON File	18 KB
s.json	5/27/2021 10:48 AM	JSON File	25 KB
on	5/27/2021 10:48 AM	JSON File	13 KB
on	5/27/2021 10:48 AM	JSON File	9 KB
on	5/27/2021 10:48 AM	JSON File	17 KB
on	2/3/2021 8:48 AM	JSON File	6 KB
on	2/3/2021 8:48 AM	JSON File	10 KB
on	2/3/2021 8:47 AM	JSON File	6 KB
on	2/3/2021 8:48 AM	JSON File	7 KB
on	2/3/2021 8:48 AM	JSON File	8 KB
XM1 Configuration files 10.1.1 rev. 00586...	6/1/2021 12:44 PM	Compressed (zipp...	51 KB
XM1-Distributed.json	5/27/2021 10:48 AM	JSON File	23 KB
XM1-SingleDeveloper.json	5/27/2021 10:48 AM	JSON File	21 KB
XM1-SingleDeveloper.ps1	5/27/2021 10:52 AM	Windows PowerS...	14 KB

Sitecore 10.1.1 rev. 005862 (Setup XM1 Developer Workstation rev. 1.2.3-r6).zip

<https://sitecoredev.azureedge.net/~/media/12B65C3DD1A0491D8EC3FD54CCD5A8...>

1,427 KB/s - 37.4 MB of 386 MB, 4 mins left

Pause

Cancel

Installing Sitecore –Install 10.1 XM1

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <configuration>
3   <configSections>
4     <section name="templates" type="Sitecore.InstallAssistant.Infrastructure.Configuration.TemplatesConfigurationSection,
5       Sitecore.InstallAssistant.Infrastructure" />
6   </configSections>
7   <templates>
8     <!--
9       <template name="Prerequisites" path=".\\Prerequisites.json" />
10      <template name="Solr" path=".\\Solr-SingleDeveloper.json">
11        <parameter name="SolrPort" type="text" groupName="InstallSolr" value="8983" />
12        <parameter name="SolrServicePrefix" type="text" groupName="InstallSolr" />
13        <parameter name="SolrInstallRoot" type="FolderPath" groupName="InstallSolr" value="C:\\Solr" />
14      </template>
15      <template name="XPSingle" path=".\\XP0-SingleDeveloper.json">
16        <!-- XP Version -->
17        <template name="XM" path=".\\XM1-SingleDeveloper.json">
18          <parameter name="Prefix" type="text" groupName="Sitecore" />
19          <parameter name="SitecoreAdminPassword" type="passwordWithConfirm" groupName="Sitecore" />
20          <parameter name="LicenseFile" type="filePath" groupName="Sitecore" />
21          <parameter name="SqlServer" type="text" groupName="Sql" value="(local)" />
22          <parameter name="SqlAdminUser" type="text" groupName="Sql" value="sa" />
23          <parameter name="SqlAdminPassword" type="password" groupName="Sql" />
24          <parameter name="SolrUrl" type="text" groupName="Solr" value="https://localhost:{Solr.SolrPort}/solr" />
25          <parameter name="SolrRoot" type="text" groupName="Solr" value="{Solr.SolrInstallRoot}\\solr-8.4.0" />
26          <parameter name="SolrService" type="text" groupName="Solr" value="solr-8.4.0" />
27          <parameter name="IdentityServerPackage" value=".\\Sitecore.IdentityServer * rev. * (OnPrem)_identityserver.scwdp.zip" requiredAsset="true" />
28          <parameter name="SitecoreContentManagementPackage" value=".\\Sitecore * rev. * (XM) (OnPrem)_cm.scwdp.zip" requiredAsset="true" />
29          <parameter name="SitecoreContentDeliveryPackage" value=".\\Sitecore * rev. * (XM) (OnPrem)_cd.scwdp.zip" requiredAsset="true" />
30          <parameter name="IdentityServerSiteName" value="{Prefix}identityserver.dev.local" />
31          <parameter name="SitecoreContentManagementSitename" value="{Prefix}cm.dev.local" />
32          <parameter name="SitecoreContentDeliverySitename" value="{Prefix}cd.dev.local" />
33          <parameter name="IdentityServerCertificateName" value="{IdentityServerSiteName}" />
34          <parameter name="SitecoreIdentityAuthority" value="https://-{IdentityServerSiteName}" />
35          <parameter name="PasswordRecoveryUrl" value="https://-{SitecoreContentManagementSitename}" />
36          <parameter name="AllowedCorsOrigins" value="https://-{SitecoreContentManagementSitename}" />
37        </template>
38      </template>
39    </templates>
40  </configuration>
```

Manual Install Sitecore – Java & Solr-8.4.0

<https://youtu.be/wNTuIHg-fdE>

Install SOLR 8.4

1. Install Java Version 8 (64-bit)

- <https://www.java.com/en/download/manual.jsp>
- Set JAVA_HOME environment variable

2. Download SOLR 8.4

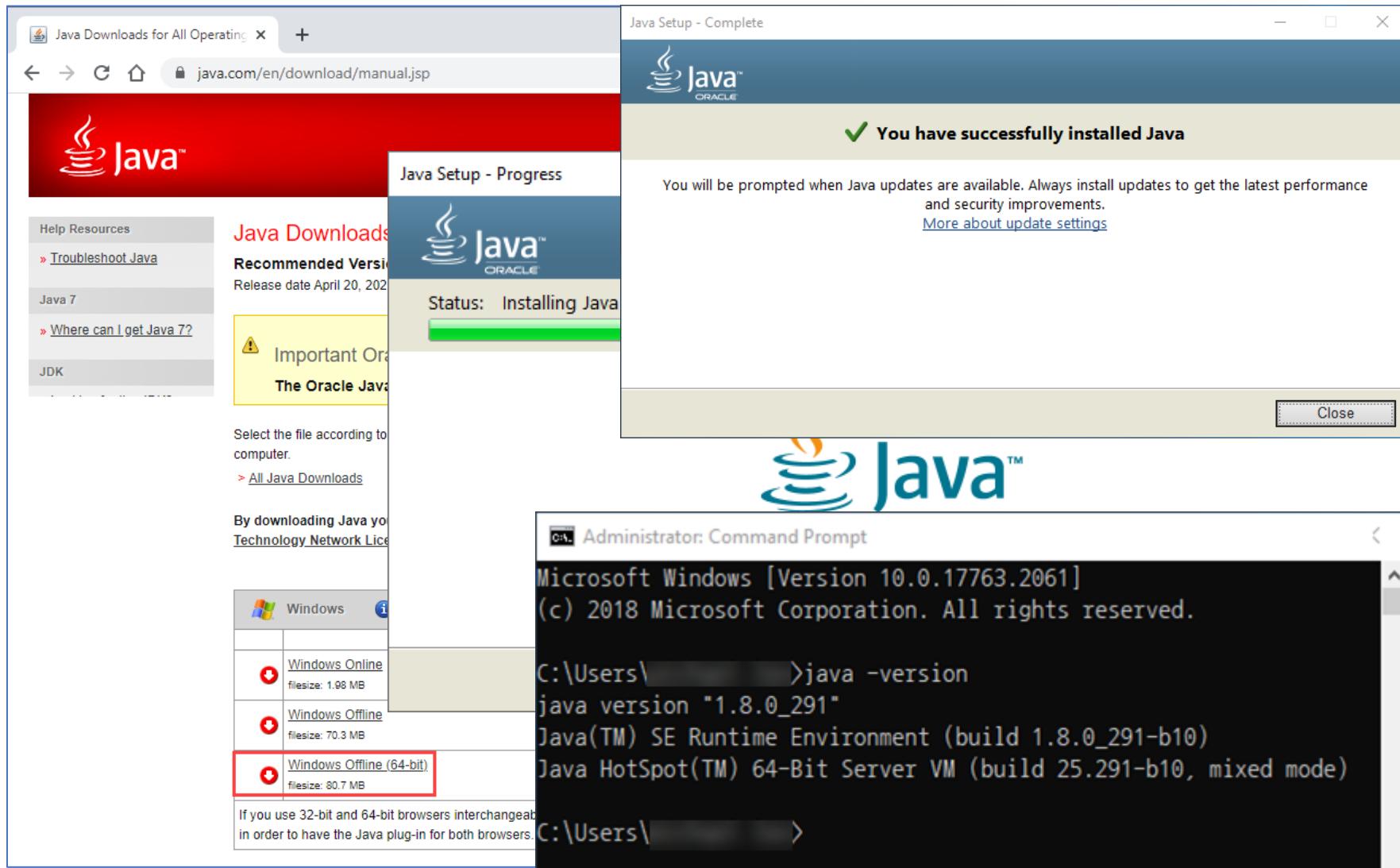
- <https://archive.apache.org/dist/lucene/solr/8.4.0/>
- Use command to check - "C:\solr\solr-8.4.0\bin\solr.cmd" -p 8983

3. Create a self-signed certificate

- Create keystore
 - "C:\Program Files\Java\jre1.8.0_231\bin\keytool.exe" -genkeypair -alias solr-ssl -keyalg RSA -keysize 2048 -keypass secret -storepass secret -validity 9999 -keystore solr-ssl.keystore.jks -ext SAN=DNS:localhost,IP:127.0.0.1 -dname "CN=localhost, OU=Organizational Unit, O=Organization, L=Location, ST=State, C=Country"
- Generate Certificate
 - "C:\Program Files\Java\jre1.8.0_231\bin\keytool.exe" -importkeystore -srckeystore solr-ssl.keystore.jks -destkeystore solr-ssl.keystore.p12 -srcstoretype jks -deststoretype pkcs12 -srcstorepass secret -deststorepass secret

Reference: Sitecore 10 : Installation on Window 10 + Solr 8.4 Manual Installation

Manual Install Sitecore – Java Download & Install



Manual Install Sitecore – Solr 8.4 Download

Solr Downloads page showing the Solr 8.9.0 release.

Solr Downloads

Official releases are usually created when the [developers](#) feel there are sufficient changes to warrant a release. Due to the voluntary nature of Solr, no releases are scheduled in advance.

Solr 8.9.0

Solr 8.9.0 is the most recent Apache Solr release.

Solr 7.7.3

Solr 7.7.3 is the last release in the 7.x series.

Past versions

Archives for all past versions of Solr are available at [the Apache archives](#). See the [List of releases](#).

About downloads

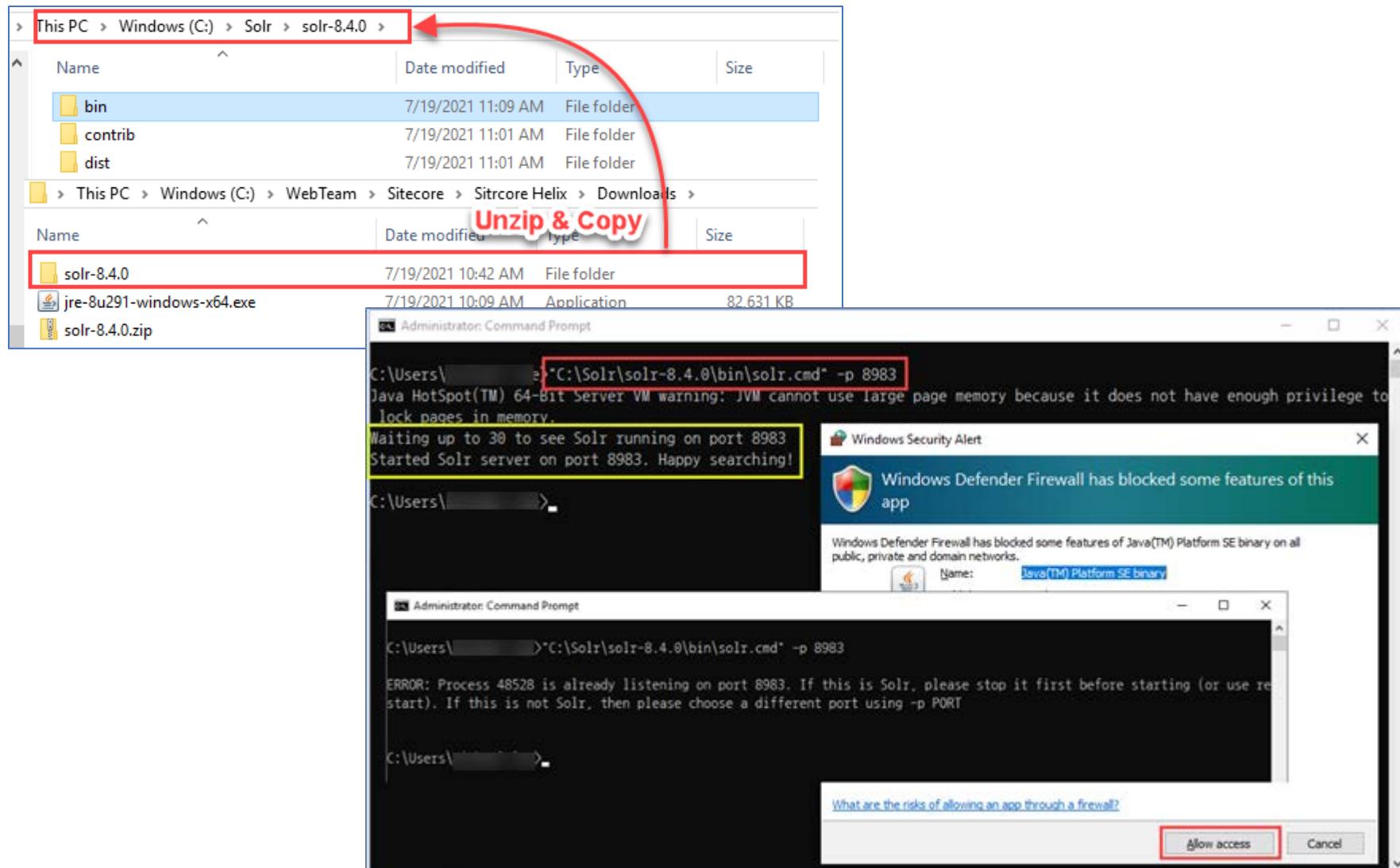
Solr Releases

Please make sure you're downloading from [a nearby mirror site](#), not directly from www.apache.org.

Index of /dist/lucene/solr/8.4.0

Name	Last modified	Size	Description
Parent Directory		-	
1.1/	2007-01-18 01:44	-	
1.2/	2007-06-06 14:04	-	
1.3.0/	2008-09-15 17:38	-	
8.0.0/	2019-03-13 11:27	-	
8.1.0/	2019-05-13 09:05	-	
8.1.1/	2019-05-28 10:14	-	
8.2.0/	2019-07-25 09:36	-	
8.3.0/	2019-10-31 09:30	-	
8.3.1/	2019-12-03 00:14	-	
8.4.0/	2019-12-28 16:43	-	
8.4.1/		-	
8.5.0/		-	
8.5.1/		-	
8.5.2/		-	
8.6.0/		-	
8.6.1/		-	
8.6.2/		-	
8.6.3/		-	
8.7.0/		-	
8.8.0/		-	
8.8.1/		-	
8.8.2/		-	
8.9.0/		-	
ref-guide/		-	
KEYS		-	
KEYS.txt		-	

Manual Install Sitecore – Solr 8.4 Install



Manual Install Sitecore – Solr 8.4 (http)

The screenshot shows the Solr Admin interface. The URL in the browser's address bar is highlighted with a red box and a red callout pointing to it, indicating the specific endpoint being used for the manual install.

Solr Admin

localhost:8983/solr/#/

System

Physical Memory: 61.3%
9.72 GB / 15.86 GB

Swap Space: 76.5%
13.96 GB / 18.24 GB

JVM-Memory: 41.8%

214.25 MB / 512.00 MB

Dashboard

- Logging
- Core Admin
- Java Properties
- Thread Dump

No cores available
Go and create one

Versions

- solr-spec 8.4.0
- solr-impl 8.4.0 bc02ab906445fcf4e297f4ef00ab4a54fdd72ca2 - jpountz
- lucene-spec8.4.0
- lucene-impl8.4.0 bc02ab906445fcf4e297f4ef00ab4a54fdd72ca2 - jpountz

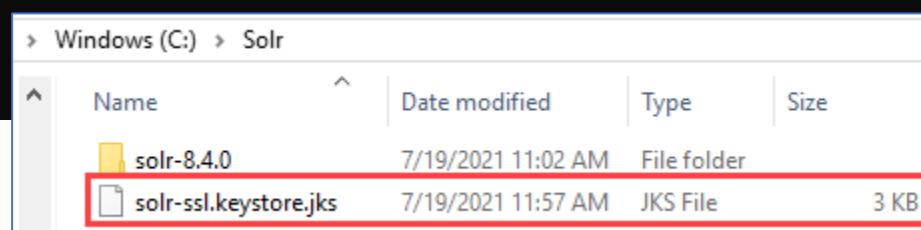
JVM

- Runtime: Oracle Corporation Java HotSpot(TM) 64-Bit Server VM 1.8.0_
- Processors: 8
- Args:
 - DSTOP.KEY=solrocks
 - DSTOP.PORT=7983
 - Djava.io.tmpdir=C:\Solr\solr-8.4.0\server\tmp
 - Djetty.home=C:\Solr\solr-8.4.0\server
 - Djetty.host=0.0.0.0
 - Djetty.port=8983
 - Dlog4j.configurationFile=file:///C:/Solr/solr-8.4.0/server/resources/log4j2.xml
 - Dsolr.default.confdir=C:\Solr\solr-8.4.0\server\solr\configset
 - Dsolr.install.dir=C:\Solr\solr-8.4.0
 - Dsolr.log.dir=C:\Solr\solr-8.4.0\server\logs
 - Dsolr.log.muteconsole
 - Dsolr.solr.home=C:\Solr\solr-8.4.0\server\solr

Manual Install Sitecore – Solr 8.4 (https) - Certificates

```
c:\Solr>"C:\Program Files\Java\jre1.8.0_291\bin\keytool.exe" -genkeypair -alias solr-ssl -keyalg RSA -keysize 2048 -keystore secret -storepass secret -validity 9999 -keystore solr-ssl.keystore.jks -ext SAN=DNS:localhost,IP:127.0.0.1 -dname "CN=localhost, OU=Organizational Unit, L=Location, ST=State, C=Country"

Warning:
The JKS keystore uses a proprietary format. It is recommended to migrate to PKCS12 which is an industry standard format using "keytool -importkeystore -srckeystore solr-ssl.keystore.jks -destkeystore solr-ssl.keystore.jks -deststoretype pkcs12".
```

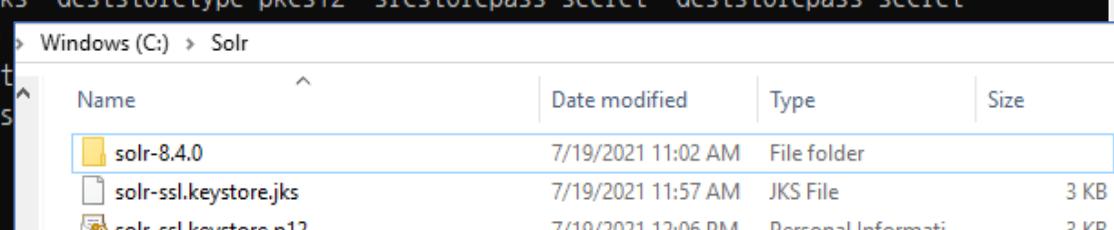


Name	Date modified	Type	Size
solr-8.4.0	7/19/2021 11:02 AM	File folder	
solr-ssl.keystore.jks	7/19/2021 11:57 AM	JKS File	3 KB

```
c:\Solr>"C:\Program Files\Java\jre1.8.0_291\bin\keytool.exe" -importkeystore -srckeystore solr-ssl.keystore.jks -destkeystore solr-ssl.keystore.p12 -srcstoretype jks -deststoretype pkcs12 -srcstorepass secret -deststorepass secret

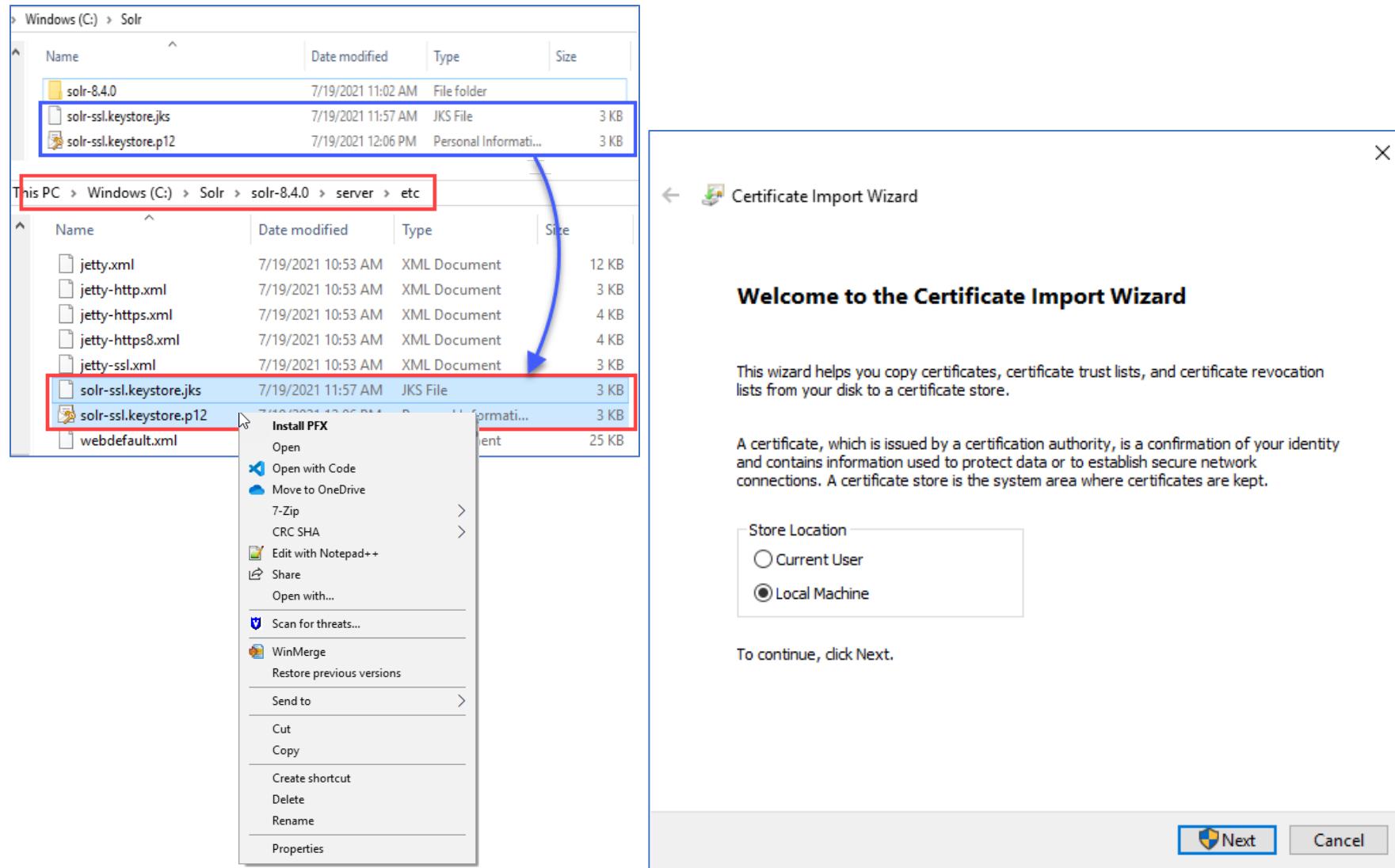
Importing keystore solr-ssl.keystore.jks to > Windows (C:) > Solr
Entry for alias solr-ssl successfully imported
Import command completed: 1 entries successfully imported

c:\Solr>
```

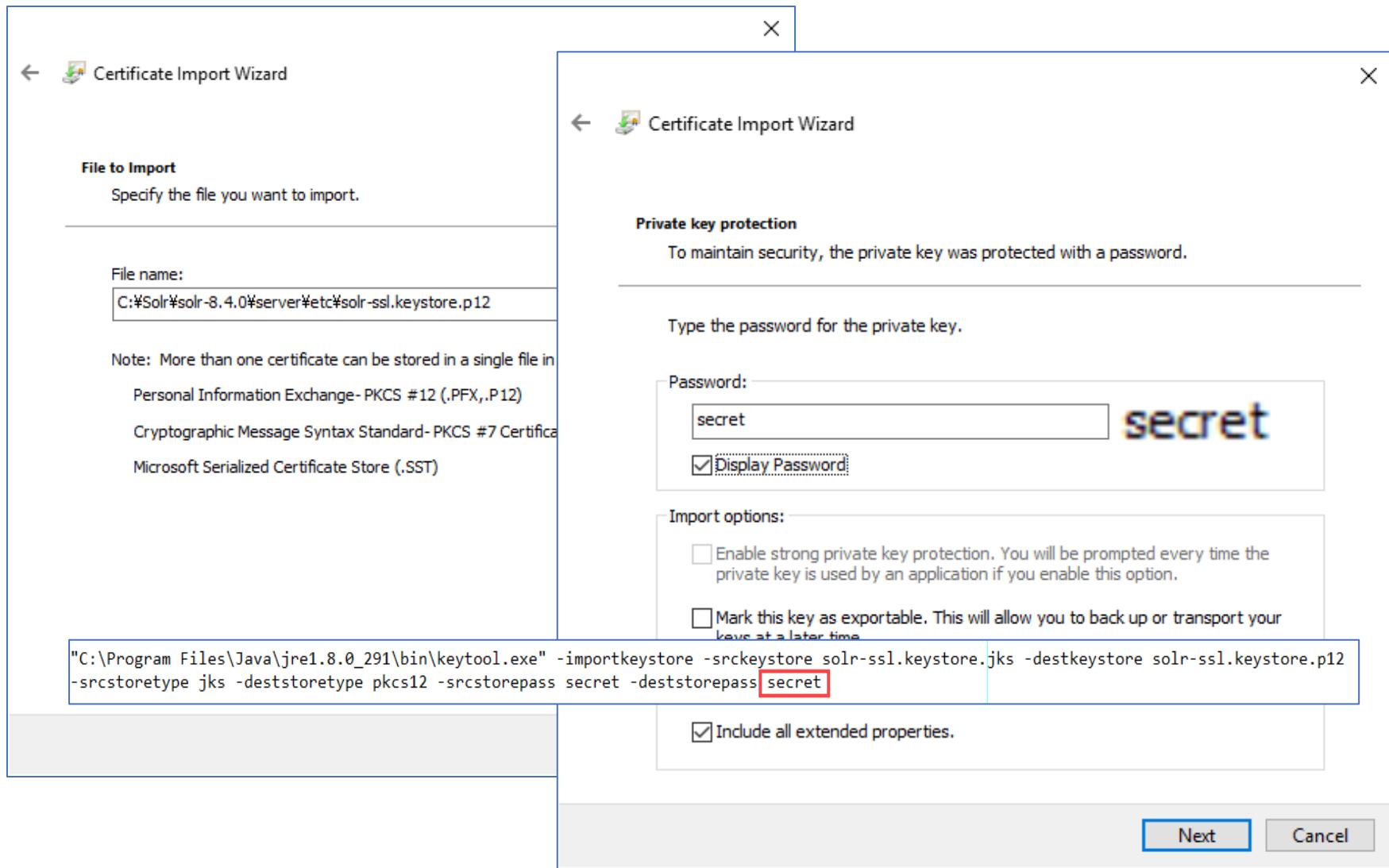


Name	Date modified	Type	Size
solr-8.4.0	7/19/2021 11:02 AM	File folder	
solr-ssl.keystore.jks	7/19/2021 11:57 AM	JKS File	3 KB
solr-ssl.keystore.p12	7/19/2021 12:06 PM	Personal Information Exchange File	3 KB

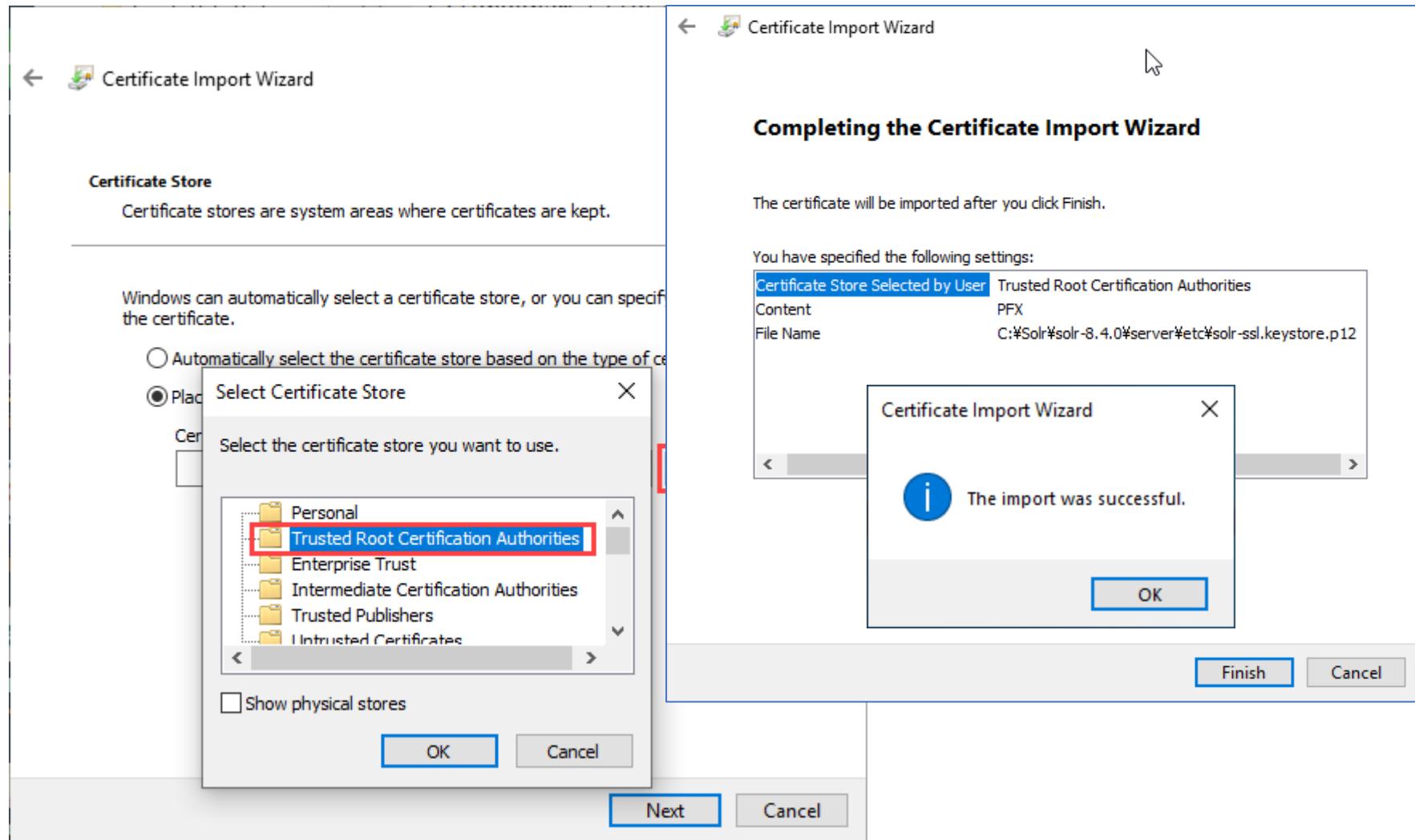
Manual Install Sitecore – Solr 8.4 (https) - Certificates



Manual Install Sitecore – Solr 8.4 (https) - Certificates



Manual Install Sitecore – Solr 8.4 (https) - Certificates

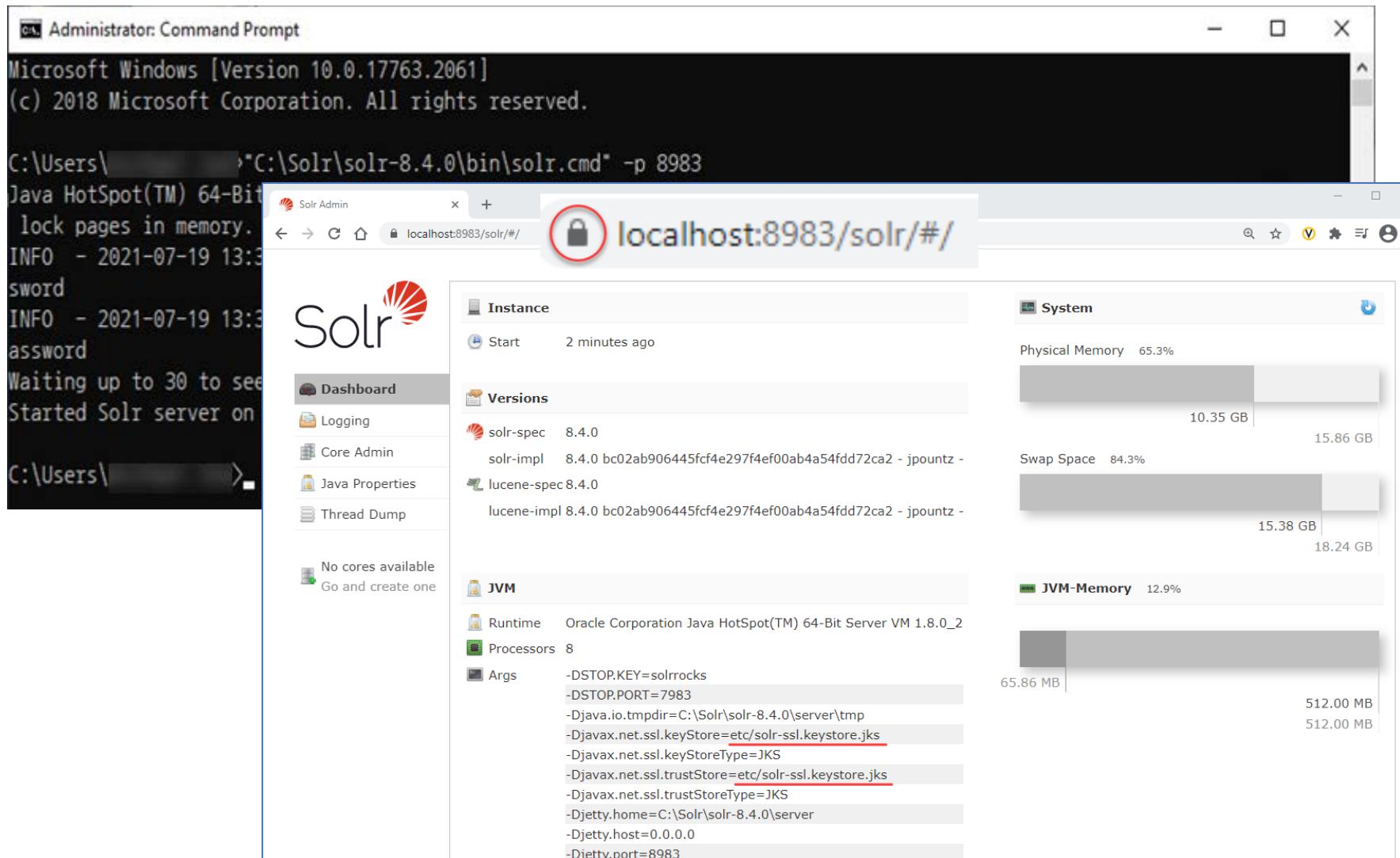


Manual Install Sitecore – Solr 8.4 (https) - Certificates

The screenshot shows a Windows File Explorer window and a Notepad++ window. The File Explorer window displays the contents of the 'bin' directory of the Solr 8.4.0 installation. The Notepad++ window shows the 'solr.in.cmd' file, which contains configuration for enabling HTTPS. The code in the file is as follows:

```
111
112 REM Enables HTTPS. It is implicitly true if you set SOLR_SSL_KEY_STORE. Use this config
113 REM to enable https module with custom jetty configuration.
114 set SOLR_SSL_ENABLED=true
115 REM Uncomment to set SSL-related system properties
116 REM Be sure to update the paths to the correct keystore for your environment
117 set SOLR_SSL_KEY_STORE=etc/solr-ssl.keystore.jks
118 set SOLR_SSL_KEY_STORE_PASSWORD=secret
119 set SOLR_SSL_TRUST_STORE=etc/solr-ssl.keystore.jks
120 set SOLR_SSL_TRUST_STORE_PASSWORD=secret
121 REM Require clients to authenticate
122 set SOLR_SSL_NEED_CLIENT_AUTH=false
123 REM Enable clients to authenticate (but not require)
124 set SOLR_SSL_WANT_CLIENT_AUTH=false
125 REM Verify client hostname during SSL handshake
126 set SOLR_SSL_CLIENT_HOSTNAME_VERIFICATION=false
127 REM SSL Certificates contain host/ip "peer name" information that is validated by default. Setting
128 REM this to false can be useful to disable these checks when re-using a certificate on many hosts
129 set SOLR_SSL_CHECK_PEER_NAME=true
130 REM Override Key/Trust Store types if necessary
131 set SOLR_SSL_KEY_STORE_TYPE=JKS
132 set SOLR_SSL_TRUST_STORE_TYPE=JKS
```

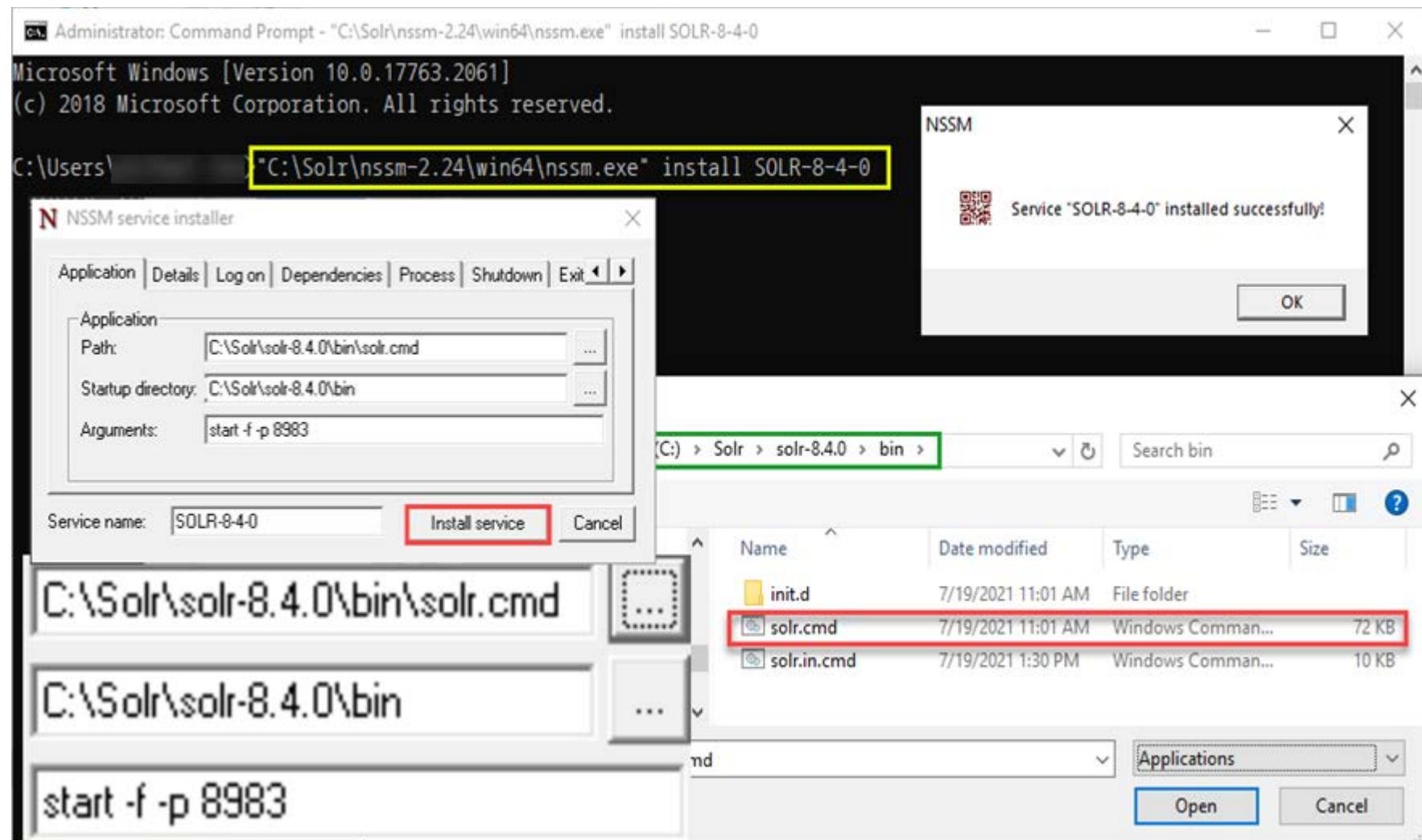
Manual Install Sitecore – Solr 8.4 (https) - Certificates



Manual Install Sitecore – NSSM (Convert Solr to Windows Service)

The screenshot shows a browser window with the URL nssm.cc/download. The page title is "NSSM - the Non-Sucking Service Manager". The main content area displays the "Windows 10 Creators Update" section, which includes a note about users experiencing issues with services failing to start due to registry problems. Below this is a "Download" section with a paragraph explaining that NSSM should work under Windows 2000 or later. It mentions that both 32-bit and 64-bit binaries are included, with the 32-bit version being recommended for 64-bit Windows. The "Latest release" section highlights "nssm 2.24 (2014-08-31)" with a unique identifier [be7b3577c6e3a280e5106a9e9db5b3775931cefc]. The "Featured pre-release" section lists "nssm 2.24-101-g897c7ad (2017-04-26)" with a unique identifier [ca2f6782a05af85facf9b620e047b01271edd11d]. A file explorer window is overlaid on the browser, showing the directory structure: "This PC > Windows (C:) > Solr > nssm-2.24 > win64". Inside this folder, there is a file named "nssm.exe". Another file explorer window shows the contents of the "Solr" folder, which includes "nssm-2.24" (a folder), "solr-8.4.0" (a folder), "solr-ssl.keystore.jks" (JKS File), and "solr-ssl.keystore.p12" (Personal Information File). Both the "nssm.exe" file and the "nssm-2.24" folder are highlighted with red boxes.

Manual Install Sitecore – NSSM (Convert Solr to Windows Service)



Manual Install Sitecore – NSSM (Convert Solr to Windows Service)

The screenshot illustrates the process of converting the Sitecore Solr service from a command-line application to a Windows service using the Non-Sucking Service Manager (NSSM).

Administrator: Command Prompt:

```
Microsoft Windows [Version 10.0.17763.2061]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\... >"C:\Solr\nssm-2.24\win64\nssm.exe" install
Service "SOLR-8-4-0" installed successfully!

C:\Users\...
```

localhost Browser:

This site can't be reached
localhost refused to connect.
Try:

- Checking the connection
- Checking the proxy and the firewall

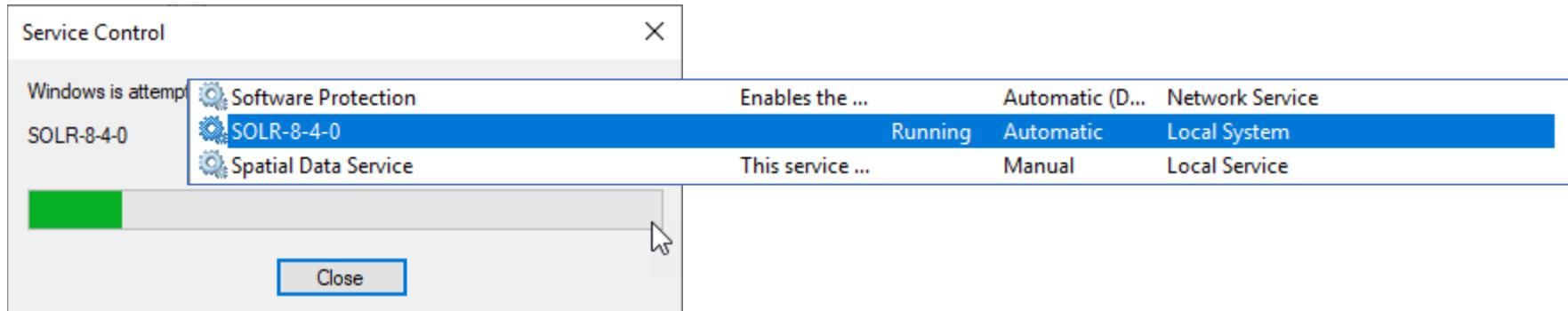
ERR_CONNECTION_REFUSED
Reload

Windows Services (Local) Manager:

Name	Description	Status	Startup type	Log On As
SOLR-8-4-0	This service ...	Running	Automatic	Local System
Spatial Data Service	This service ...	Running	Manual	Local Service
Spot Verifier	This service ...	Running	Manual	Network Service
SQL Server (MSSQLSERVER)	This service ...	Running	Automatic	sa
SQL Server Agent (MSSQLSERVER)	This service ...	Running	Automatic	sa
SQL Server Analysis Services (MSSQLSERVER)	This service ...	Running	Automatic	sa
SQL Server Analysis Services CEIP (MSSQLSERVER)	CEIP service...	Not running	Manual	NT Service\SSASTELEMETRY

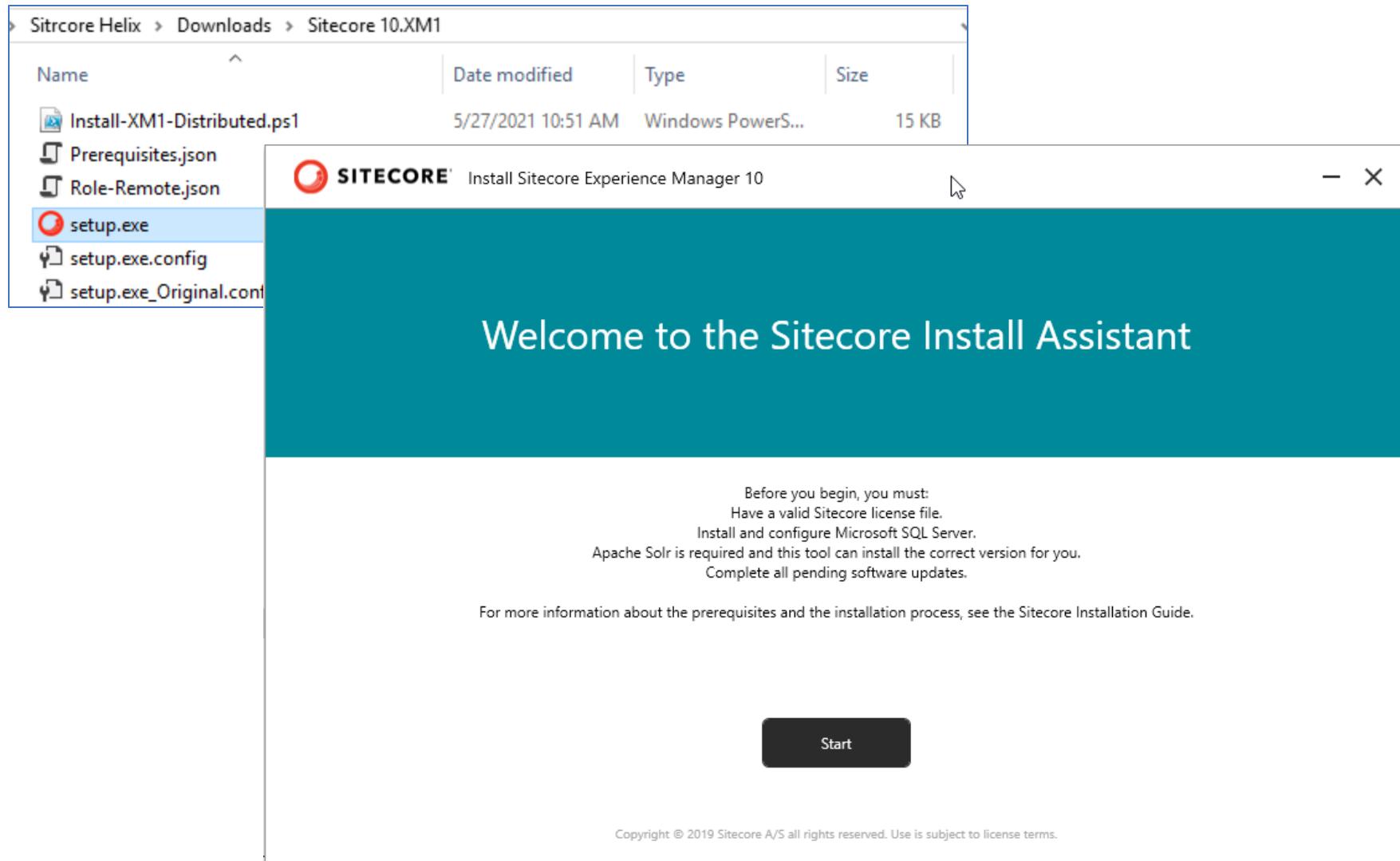
A red callout box points to the "Start Service" button for the SOLR-8-4-0 service.

Manual Install Sitecore – NSSM (Convert Solr to Windows Service)



The screenshot displays the Solr Admin interface. On the left, there's a sidebar with links for Dashboard, Logging, Core Admin, Java Properties, and Thread Dump. A message says "No cores available Go and create one". The main area has sections for Instance (last start 2 minutes ago), Versions (solr-spec 8.4.0, solr-impl 8.4.0, lucene-spec 8.4.0, lucene-impl 8.4.0), and JVM (Runtime Oracle Corporation Java HotSpot(TM) 64-Bit Server VM 1.8.0_29, Processors 8, Args -DSTOP.KEY=solrrocks, -DSTOP.PORT=7983, -Djava.io.tmpdir=C:\Solr\solr-8.4.0\server\tmp, -Djavax.net.ssl.KeyStore=etc/solr/realm keystore.jks). To the right, there's a System monitor showing Physical Memory (68.0%, 10.79 GB / 15.86 GB), Swap Space (87.2%, 15.90 GB / 18.24 GB), and JVM-Memory (24.8%, 126.79 MB / 512.00 MB).

Installing Sitecore –Install 10.1 XM1



Installing Sitecore –Install 10.1 XM1

C:\Sitrcore Helix\Downloads\Sitecore 10.XM1\XM1-SingleDeveloper.json

```
1  {
2    "Parameters": {
3      "LicenseFile": {
4        "IdentityServerCertificateName": {
5          "IdentityServerSiteName": {
6            "Prefix": {
7              "SitecoreContentManagementSiteName": {
8                "SitecoreContentDeliverySiteName": {
9                  "SitecoreAdminPassword": {
10                 "SitePhysicalRoot": {
11                   "SqlAdminUser": {
12                     "Type": "string",
13                     "DefaultValue": "sa",
14                     "Description": "The Sql admin user account to use when installing databases."
15                   },
16                   "SqlAdminPassword": {
17                     "Type": "string",
18                     "DefaultValue": "12345",
19                     "Description": "The Sql admin password to use when installing databases."
20                   },
21                   "SQLServer": {
22                     "SqlFormsPassword": {
23                     "SqlSecurityPassword": {
24                     "SqlCorePassword": {
25                     "SqlMasterPassword": {
26                     "SqlWebPassword": {
27                       "SolrUrl": {
28                         "Type": "String",
29                         "DefaultValue": "https://localhost:8983/solr",
30                         "Description": "The Solr instance to use."
31                       },
32                       "SolrRoot": {
33                         "Type": "String",
34                         "DefaultValue": "C:\\\\Solr\\\\solr-8.4.0",
35                         "Description": "The file path to the Solr instance."
36                       },
37                       "SolrService": {
38                         "Type": "String",
39                         "DefaultValue": "SOLR-8-4-0",
40                         "Description": "The name of the Solr service."
41                       },
42                       "SitecoreContentManagementPackage": {
43                         "Type": "String",
44                         "DefaultValue": "Sitecore Content Management Package"
45                         "Description": "The package to install for Sitecore Content Management."}
46                     }
47                   }
48                 }
49               }
50             }
51           }
52         }
53       }
54     }
55   }
56 }
```

sa

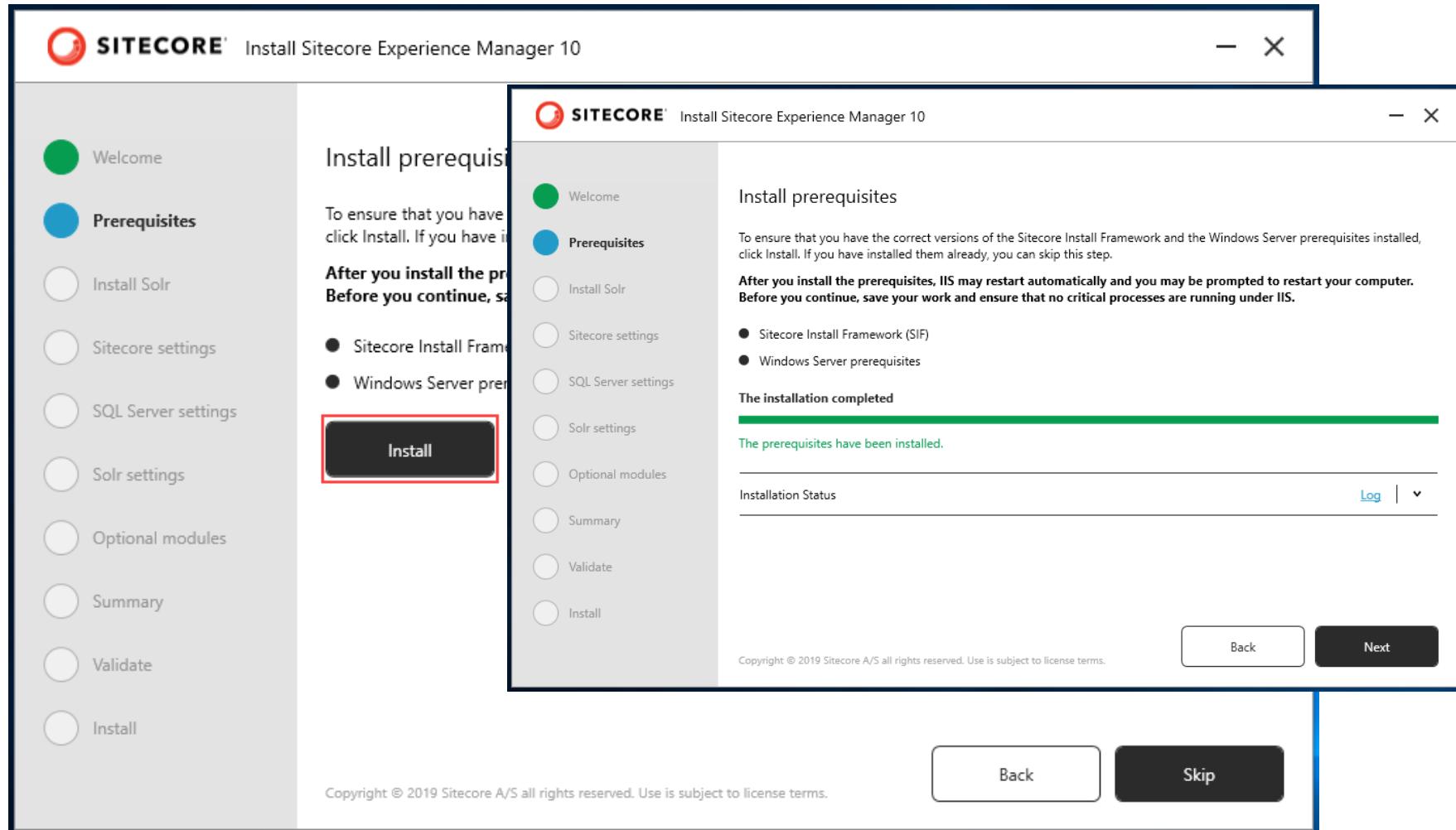
Change “SqlAdminPassword”

<https://localhost:8983/solr>

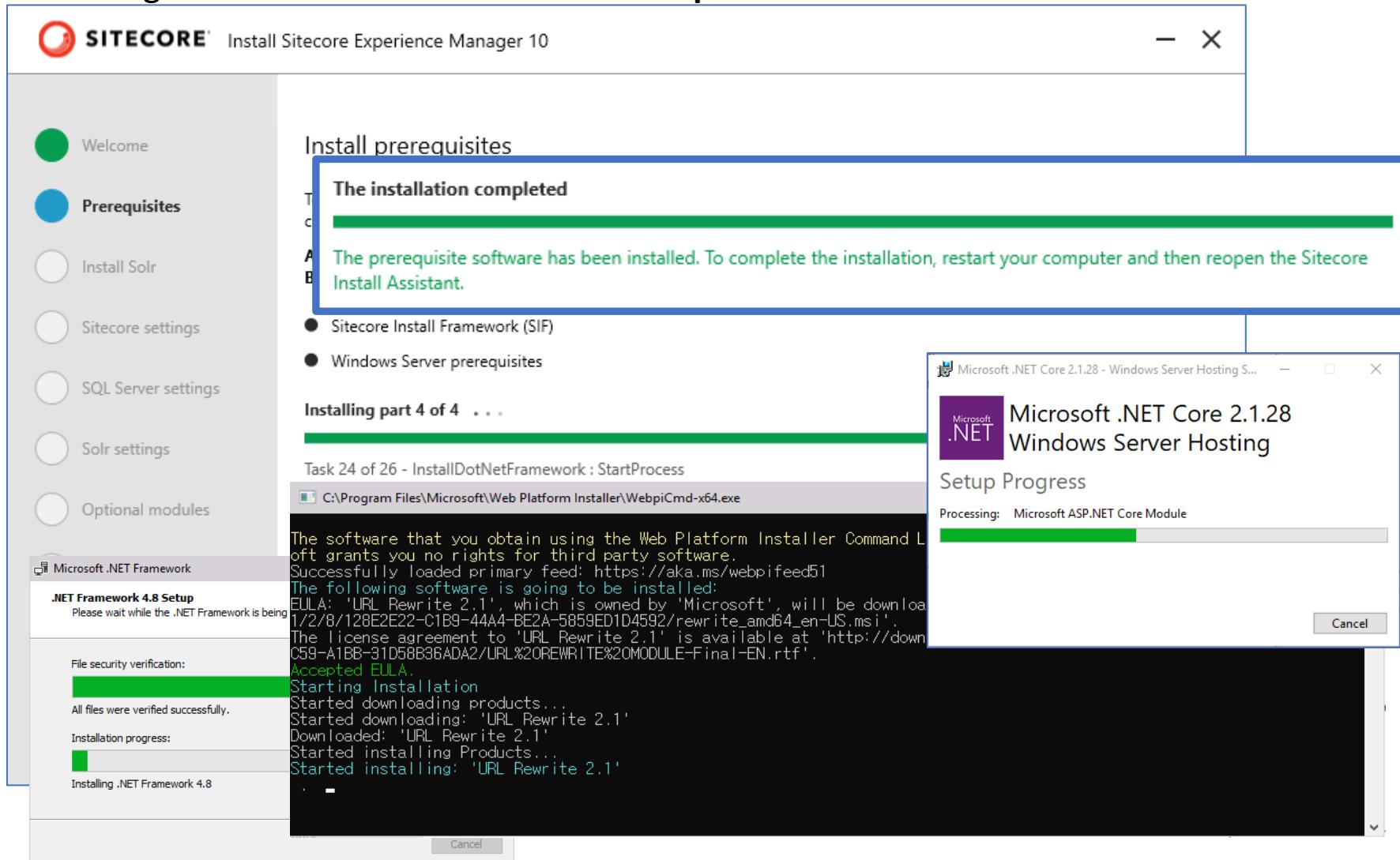
C:\\\\Solr\\\\solr-8.4.0

SOLR-8-4-0

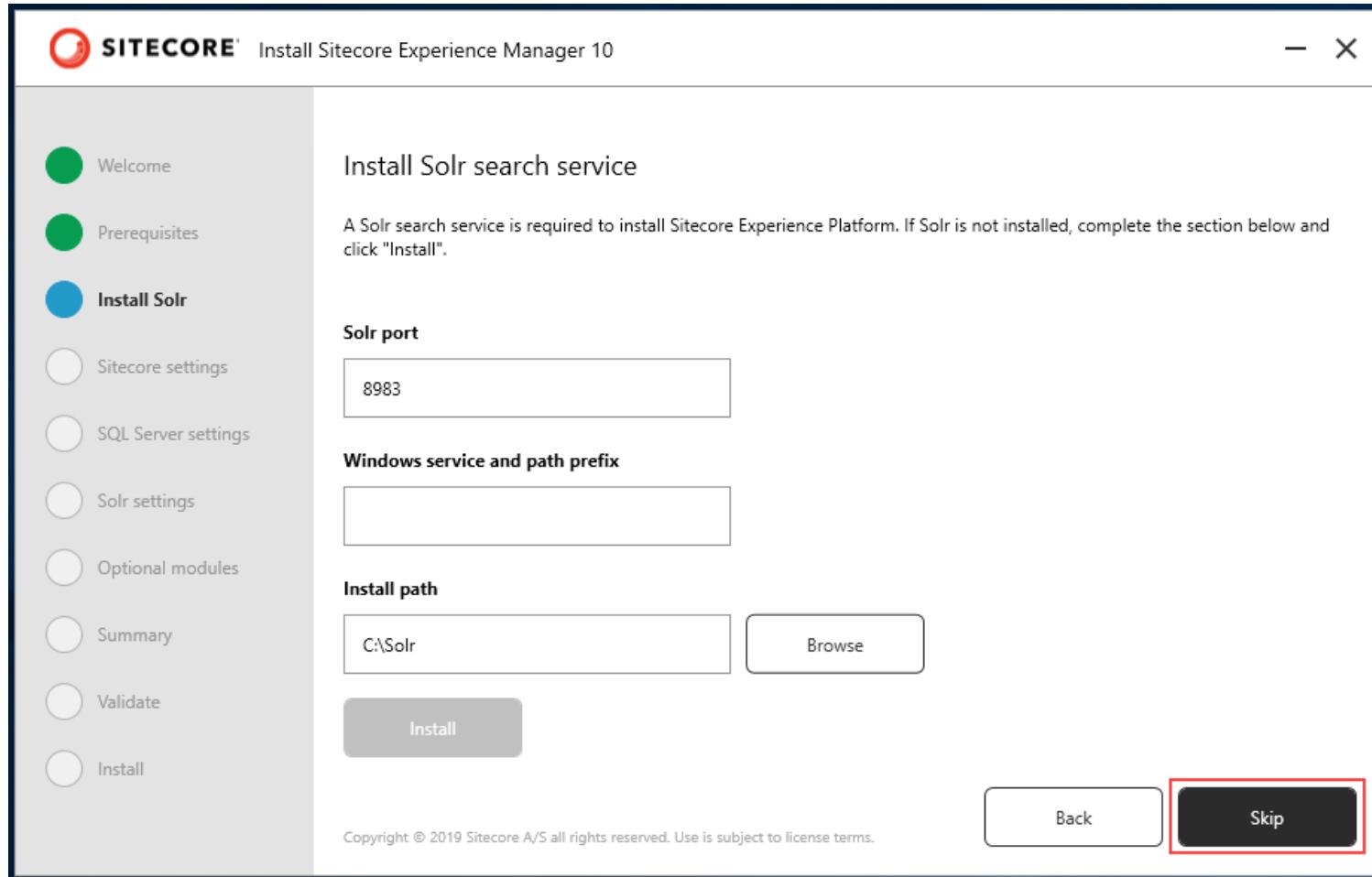
Installing Sitecore –Install 10.1 XM1



Installing Sitecore –Install 10.1 XM1 : Prerequisites



Installing Sitecore –Install 10.1 XM1



Installing Sitecore –Install 10.1 XM1

The screenshot shows the 'Sitecore settings' step of the Sitecore Experience Manager 10 installation wizard. On the left, a vertical navigation bar lists steps: Welcome, Prerequisites, Install Solr, Sitecore settings (which is selected and highlighted in blue), SQL Server settings, Solr settings, Optional modules, Summary, Validate, and Install. The main panel title is 'Sitecore settings' with the sub-instruction 'Specify the following settings. The prefix is added to the names of the SQL databases and Solr cores that are created for this installation.' Below this, there's a 'Installation/solution prefix' input field containing 'xm1'. Underneath it are two password fields: 'Sitecore admin password' containing '• ‘b’' and 'Confirm password' containing '•'. A 'Sitecore license file' input field contains 'C:\WebTeam\Sitecore\Sitrcore Helix\Downlo' and a 'Browse' button. At the bottom right are 'Back' and 'Next' buttons, and a copyright notice: 'Copyright © 2019 Sitecore A/S all rights reserved. Use is subject to license terms.'

C:\Sitrcore Helix\Downloads\Sitecore 10.XM1\license.xml

Installing Sitecore –Install 10.1 XM1

The screenshot shows the 'Microsoft SQL Server settings' step in the Sitecore Experience Manager 10 installation wizard. On the left, a vertical navigation bar lists the following steps: Welcome, Prerequisites, Install Solr, Sitecore settings, SQL Server settings, Solr settings, Optional modules, Summary, Validate, and Install. The 'SQL Server settings' step is highlighted with a blue circle. The main panel displays the configuration for a Microsoft SQL Server instance, with the value '(local)' entered into the 'Microsoft SQL Server instance' input field. Below it, the 'Microsoft SQL Server admin user name' is set to 'sa' and the 'Microsoft SQL Server admin password' field contains a single bullet point ('•'). At the bottom right, there are 'Back' and 'Next' buttons, with 'Next' being the primary button.

SITECORE Install Sitecore Experience Manager 10

Welcome

Prerequisites

Install Solr

Sitecore settings

SQL Server settings

Solr settings

Optional modules

Summary

Validate

Install

Microsoft SQL Server settings

Specify the following settings:

Microsoft SQL Server instance

(local)

Microsoft SQL Server admin user name

sa

Microsoft SQL Server admin password

•

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Back

Next

Installing Sitecore –Install 10.1 XM1

The screenshot shows the 'Solr settings' step in the Sitecore Experience Manager 10 installation wizard. On the left, a vertical navigation bar lists steps: Welcome, Prerequisites, Install Solr, Sitecore settings, SQL Server settings, Solr settings (which is selected and highlighted in blue), Optional modules, Summary, Validate, and Install. The main panel displays configuration fields for Solr settings:

- Solr service URL:** `https://localhost:8983/solr`
- Solr file system root:** `C:\Solr\solr-8.4.0`
- Solr Windows service name:** `SOLR-8-4-0`

At the bottom, a copyright notice reads: "Copyright © 2019 Sitecore A/S all rights reserved. Use is subject to license terms." To the right are 'Back' and 'Next' buttons.

Installing Sitecore –Install 10.1 XM1

The screenshot shows the Sitecore Experience Manager 10 installation interface. On the left, a vertical navigation bar lists steps: Welcome, Prerequisites, Install Solr, Sitecore settings, SQL Server settings, Solr settings, and **Optional modules**. The 'Optional modules' step is currently selected. The main panel title is 'Select optional Sitecore modules' with the sub-instruction 'Please select optional Sitecore modules to add during installation'. A single checkbox labeled 'Sitecore Experience Accelerator (SXA)' is present. At the bottom right, there are 'Back' and 'Next' buttons, with 'Next' being highlighted with a red border.

SITECORE® Install Sitecore Experience Manager 10

Welcome

Prerequisites

Install Solr

Sitecore settings

SQL Server settings

Solr settings

Optional modules

Summary

Validate

Install

Select optional Sitecore modules

Please select optional Sitecore modules to add during installation

Sitecore Experience Accelerator (SXA)

Back

Next

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Installing Sitecore –Install 10.1 XM1

The screenshot shows the 'Install Sitecore Experience Manager 10' window. On the left, a vertical navigation bar lists steps: Welcome, Prerequisites, Install Solr, Sitecore settings, SQL Server settings, Solr settings, Optional modules, Summary (which is highlighted in blue), Validate, and Install. The main area is titled 'Summary' and contains a message: 'Here is a list of the settings you have specified. Ensure that everything is correct. To edit any of these settings, click Back.' Below this, a table lists configuration details:

Installation/solution prefix	xm1
Sitecore license file	Sitrcore Helix\Downloads\Sitecore 10.XM1\license.xml
Microsoft SQL Server instance	(local)
Microsoft SQL Server admin user name	sa
Solr service URL	https://localhost:8983/solr
Solr file system root	C:\Solr\solr-8.4.0
Solr Windows service name	SOLR-8-4-0

At the bottom, there are 'Back' and 'Next' buttons, and a copyright notice: 'Copyright © 2019 Sitecore A/S all rights reserved. Use is subject to license terms.'

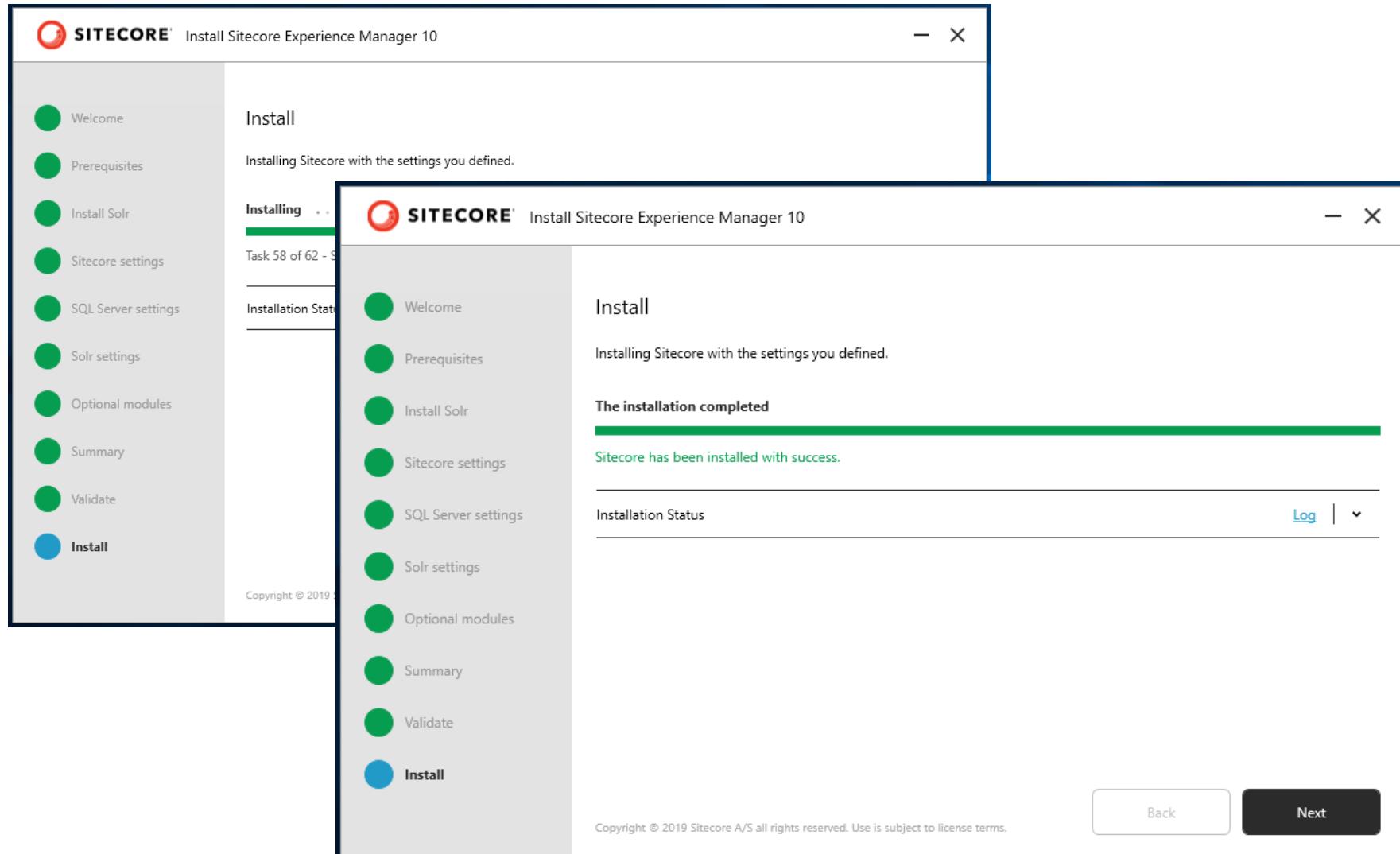
Installing Sitecore –Install 10.1 XM1

The screenshot shows the 'Validate' step in the Sitecore Experience Manager 10 installation wizard. On the left, a vertical navigation bar lists the steps: Welcome, Prerequisites, Install Solr, Sitecore settings, SQL Server settings, Solr settings, Optional modules, Summary, Validate (which is highlighted in blue), and Install. The main pane is titled 'Validate' and contains the message 'Validating that all the requirements are in place.' Below this, a list of validation items is shown, each preceded by a green checkmark:

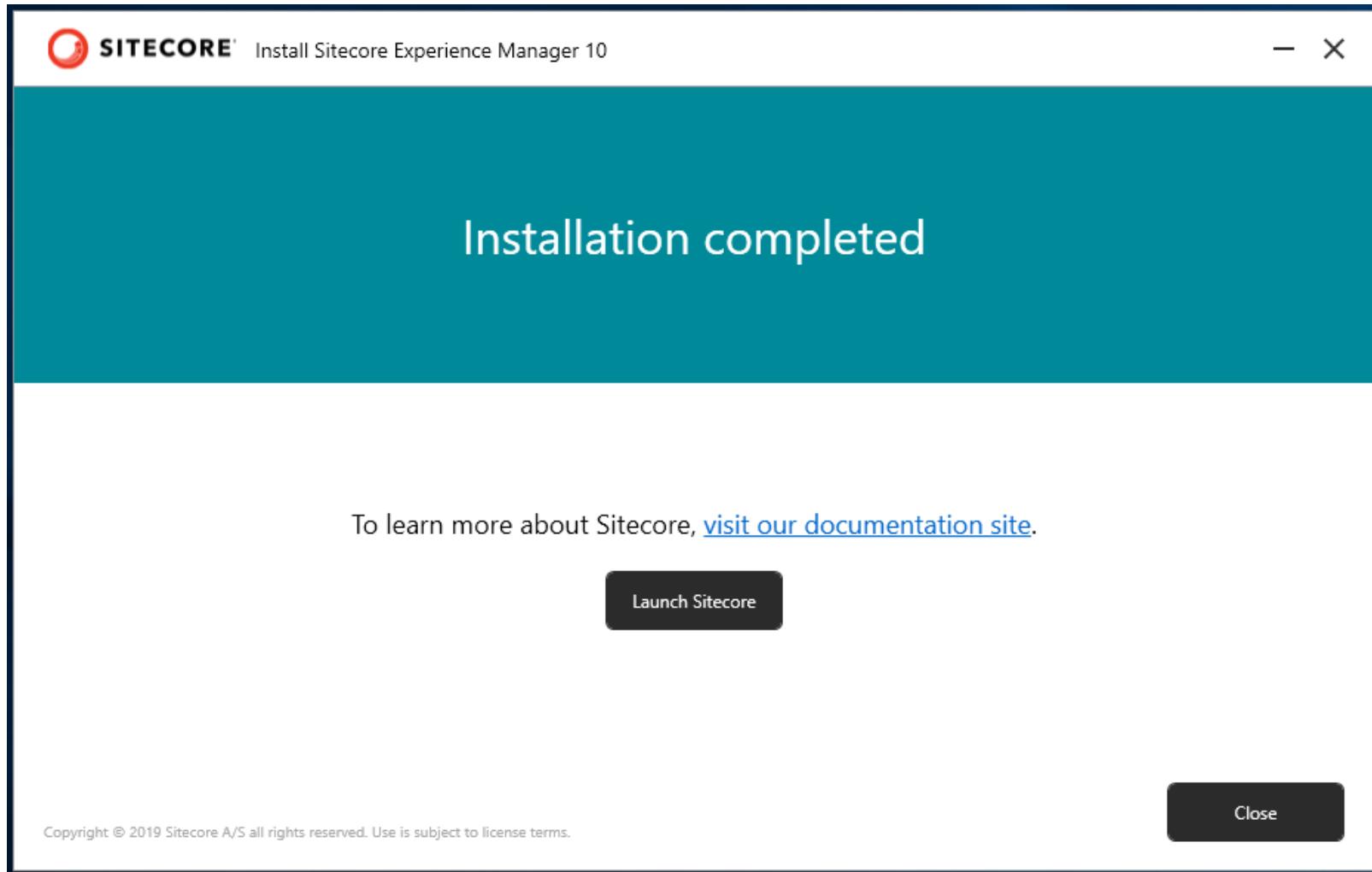
- ✓ **Valid license filename**
- ✓ **Valid license file**
- ✓ **SIF configuration files**
- ✓ **WDP files**
- ✓ **Valid SQL Server connection**
- ✓ **Valid SQL Server admin user role (sysadmin)**
- ✓ **Valid Solr connection**

A cursor arrow is visible near the bottom right of the validation list. At the bottom of the screen, there are two buttons: 'Back' and 'Install'. The 'Install' button is highlighted with a red border.

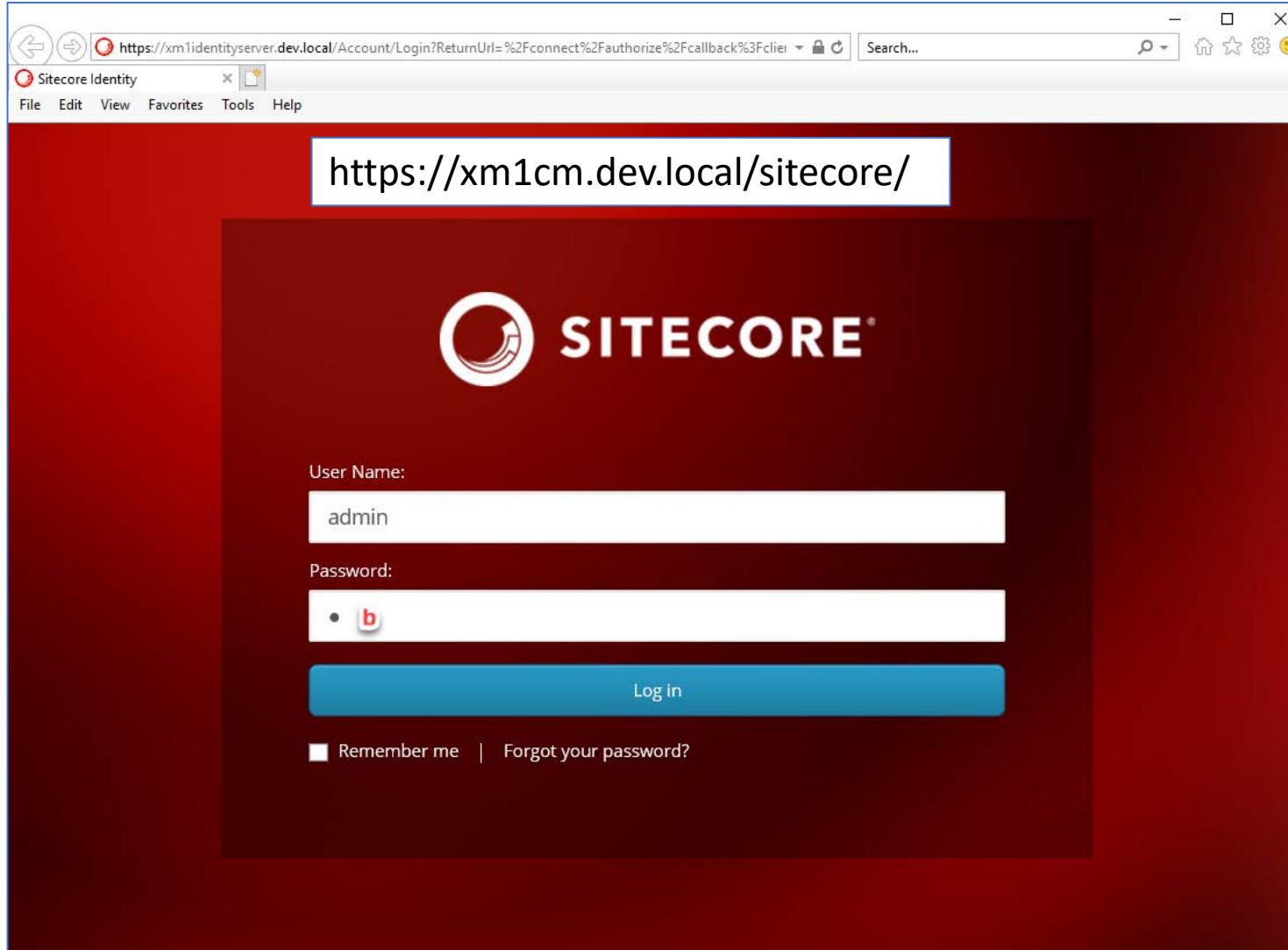
Installing Sitecore –Install 10.1 XM1



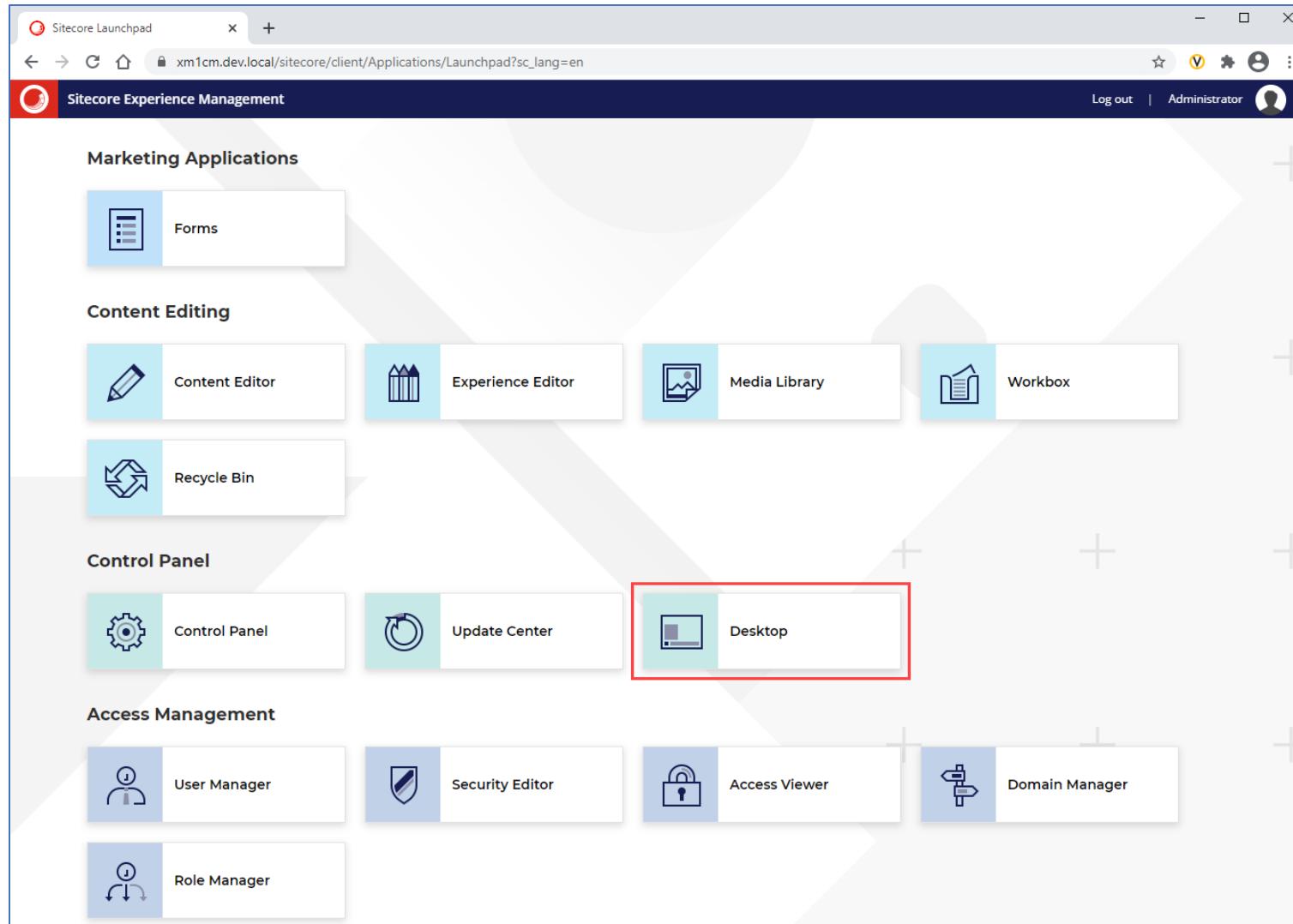
Installing Sitecore –Install 10.1 XM1



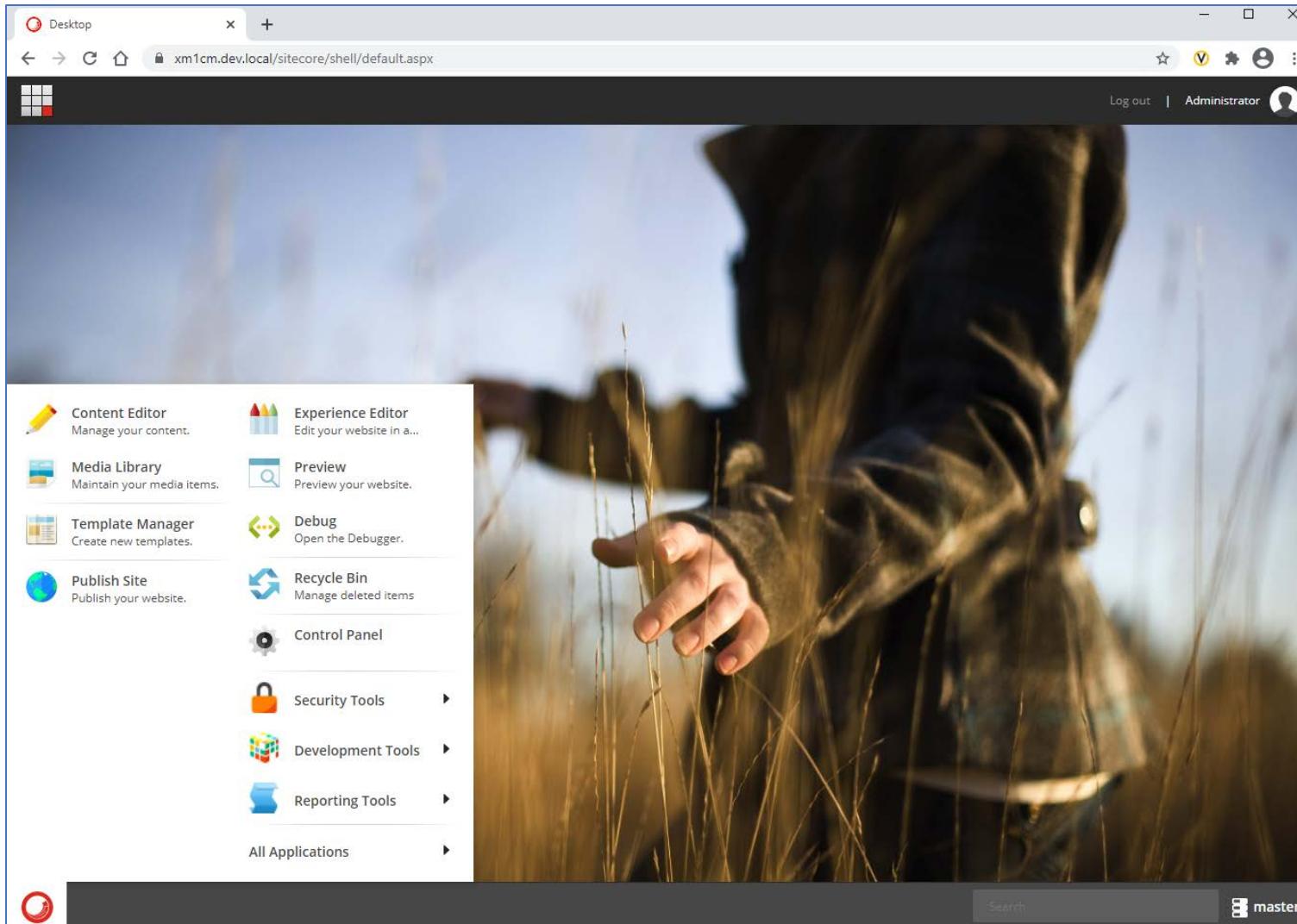
Installing Sitecore –Install 10.1 XM1



Installing Sitecore –Install 10.1 XM1



Installing Sitecore –Install 10.1 XM1



Installing Sitecore –Install 10.1 XM1

The screenshot displays two windows side-by-side. The top window is the Windows Services list, which shows several services running, including 'Server' and 'Shared PC Account Manager'. A red callout bubble points from the text 'No Sitecore Service created' to the service list. The bottom window is the Solr Core Admin interface, showing the 'Core Admin' tab selected. It lists various cores like 'xm1_core_index' and 'xm1_web_index'. On the right, a file explorer shows the directory structure of the Solr installation on C:\Windows\Solr\solr-8.4.0\server\solr. A red box highlights a folder named 'xm1_core_index' and contains the text '12 folders are created'. The file explorer lists 12 newly created folders under 'solr-8.4.0'.

No Sitecore Service created

Name	Description	Status	Startup Type	Log On As
Server	Supports fil...	Running	Automatic (T...	Local System
Shared PC Account Manager	Manages pr...	Disabled	Local System	
Shell Hardware Detection	Provides no...	Running	Automatic	Local System
Smart Card	Manages ac...	Manual (Trig...	Local Service	
Smart Card Device Enumeration Service		Manual/Tra...	Local System	

Solr

Dashboard

Logging

Core Admin

Java Properties

Thread Dump

Core Selector

Add Core

Unload

Core

startTime:

instanceDir:

dataDir:

Index

lastModified:

version:

numDocs:

maxDoc:

deletedDocs:

current:

directory:

xm1_core_index

xm1_fxm_master_index

xm1_fxm_web_index

xm1_marketing_asset_index_master

xm1_marketing_asset_index_web

xm1_marketingdefinitions_master

xm1_marketingdefinitions_web

xm1_master_index

xm1_personalization_index

xm1_suggested_test_index

xm1_testing_index

xm1_web_index

configsets

filestore

userfiles

solr-8.4.0

bin

contrib

dist

docs

example

licenses

server

contexts

etc

lib

logs

modules

resources

scripts

solr

solr-webapp

tmp

12 folders are created

This PC > Windows (C:) > Solr > solr-8.4.0 > server > solr >

Name	Date modified	Type	Size
configsets	7/19/2021 11:07 AM	File folder	
filestore	7/19/2021 11:09 AM	File folder	
userfiles	7/19/2021 11:09 AM	File folder	
xm1_core_index	7/28/2021 11:15 AM	File folder	
xm1_fxm_master_index	7/28/2021 11:15 AM	File folder	
xm1_fxm_web_index	7/28/2021 11:15 AM	File folder	
xm1_marketing_asset_index_master	7/28/2021 11:15 AM	File folder	
xm1_marketing_asset_index_web	7/28/2021 11:15 AM	File folder	
xm1_marketingdefinitions_master	7/28/2021 11:15 AM	File folder	
xm1_marketingdefinitions_web	7/28/2021 11:15 AM	File folder	
xm1_master_index	7/28/2021 11:15 AM	File folder	
xm1_personalization_index	7/28/2021 11:15 AM	File folder	
xm1_suggested_test_index	7/28/2021 11:15 AM	File folder	
xm1_testing_index	7/28/2021 11:15 AM	File folder	
xm1_web_index	7/28/2021 11:15 AM	File folder	
README.txt	7/19/2021 10:54 AM	Text Document	4 KB
solr.xml	7/19/2021 10:54 AM	XML Document	3 KB
zoo.cfg	7/19/2021 10:54 AM	CFG File	2 KB

Installing Sitecore –Install 10.1 XM1

The screenshot displays two windows side-by-side: Internet Information Services (IIS) Manager and Object Explorer.

IIS Manager: Shows the 'xm1cm.dev.local Home' site configuration. The 'xm1cd.dev.local', 'xm1cm.dev.local', and 'xm1identityserver.dev.local' sites are highlighted with a red box. The 'ASP.NET' section contains icons for .NET Authorization, Compilation, .NET Error Pages, .NET Globalization, .NET Profile, .NET Roles, .NET Trust Levels, .NET Users, Application Settings, Machine Key, Pages and Controls, Providers, Session State, and SMTP E-mail. Below the site list, three globe icons represent the installed instances: xm1cd.dev.local, xm1cm.dev.local, and xm1identityserver.dev.local.

Object Explorer: Shows the database structure for SQL Server 15.0.2000.5 - sa. A red box highlights the 'xm1_Master' database, which contains four databases: xm1_Core, xm1_ExperienceForms, xm1_Master, and xm1_Web. A large red box encloses the entire 'xm1_Master' node, with the text '4 Databases' overlaid. Other visible databases include AdventureWorks2012, NorthWind, and xm1_Web.

Installing Sitecore –Install 10.1 XM1

This PC > Windows (C:) > inetpub > wwwroot > xm1cm.dev.local >			
	Name	Date modified	Type
wwwroot	App_Browsers	7/28/2021 11:18 AM	File folder
applications	App_Config	7/28/2021 11:18 AM	File folder
aspnet_client	App_Data	7/28/2021 11:19 AM	File folder
	bin	7/28/2021 11:18 AM	File folder
	layouts	7/28/2021 11:18 AM	File folder
xm1cd.dev.local	sitecore	7/28/2021 11:18 AM	File folder
xm1cm.dev.local	sitecore modules	7/28/2021 11:18 AM	File folder
xm1identityserver.dev.local	sitecore_files	7/28/2021 11:18 AM	File folder
	temp	7/28/2021 11:25 AM	File folder
	upload	7/28/2021 11:19 AM	File folder
	Views	7/28/2021 11:18 AM	File folder
	xsl	7/28/2021 11:18 AM	File folder
	Default.aspx	6/1/2021 12:08 PM	ASP.NET Server Pa...
	default.css	6/1/2021 12:08 PM	Cascading Style S...
	default.htm.sitedown	6/1/2021 12:08 PM	SITEDOWN File
	default.js	6/1/2021 12:08 PM	JavaScript File
	Global.asax	6/1/2021 12:08 PM	ASP.NET Server A...
	Web.config	6/1/2021 12:08 PM	XML Configuratio...
	webedit.css	6/1/2021 12:08 PM	Cascading Style S...

Installing Sitecore –Install 10.1 XM1

Blank

Installing Sitecore – 2nd XM Scaled Version : Uninstall existing Install

```
Administrator: Windows PowerShell
PS C:\Users\Shelley\Downloads\Sitecore 10.XM1>
PS C:\Users\Shelley\Downloads\Sitecore 10.XM1> .\XM1-SingleDeveloper.ps1
*****
Sitecore Install Framework
Version - 2.3.0
*****


WorkingDirectory      : C:\Users\Shelley\Downloads\Sitecore 10.XM1
WhatIf                : False
Verbose               : SilentlyContinue
Configuration          : C:\Users\Shelley\Downloads\Sitecore 10.XM1\XM1-SingleDeveloper.json
Debug                 : SilentlyContinue
AutoRegisterExtensions : False
WarningAction          : Continue
ErrorAction            : Stop
InformationAction      : Continue

[----] SitecoreCD_StopWebsite : ManageWebsite
[SitecoreCD_StopWebsite]:[Stop] XM1.cd
[----] SitecoreCD_StopAppPool : ManageAppPool
[SitecoreCD_StopAppPool]:[Stop] XM1.cd
[----] SitecoreCD_RemoveWebsite : RemoveWebsite
Site XM1.cd doesn't exist
[----] SitecoreCD_RemoveAppPool : RemoveAppPool
[----] IdentityServer_RemoveHostHeader : HostHeader
[IdentityServer_RemoveHostHeader]:[Backup] Created - C:\windows\system32\drivers\etc\hosts.backup
Removing host entry for 127.0.0.1 with hostname 'XM1.identityserver'...
[TIME] 00:00:24
PS C:\Users\Shelley\Downloads\Sitecore 10.XM1>
```

Installing Sitecore – 2nd XM Scaled Version : Uninstall existing Install

Check Databases, Websites, Solr and wwwroot Files are removed

The screenshot displays three windows illustrating the state of Sitecore components during an uninstallation:

- Object Explorer:** Shows the database structure. A red box highlights the websites section, which contains entries for `xm1cd.dev.local`, `xm1cm.dev.local`, and `xm1identityserver.dev.local`.
- Solr Admin:** Shows the Solr configuration. A red box highlights the `xm1_marketing` core, which contains index folders for `xm1_core_index`, `xm1_fxm_master_index`, `xm1_fxm_web_index`, `xm1_marketing_asset_index_master`, `xm1_marketing_asset_index_web`, `xm1_marketingdefinitions_master`, `xm1_marketingdefinitions_web`, `xm1_master_index`, `xm1_personalization_index`, `xm1_suggested_test_index`, `xm1_testing_index`, and `xm1_web_index`.
- IIS Manager:** Shows the websites section. A red box highlights the same three website entries as the Object Explorer: `xm1cd.dev.local`, `xm1cm.dev.local`, and `xm1identityserver.dev.local`.

Installing Sitecore – 2nd XM Scaled Version

Prepare Prerequisites

```
Administrator: Windows PowerShell
PS C:\Users\<REDACTED> >
PS C:\Users\<REDACTED> >
PS C:\Users\<REDACTED> > Register-PSRepository -Name SitecoreGallery -SourceLocation https://sitecore.myget.org/F/sc-powershell/api/v2
PS C:\Users\<REDACTED> > Install-Module SitecoreInstallFramework
PS C:\Users\<REDACTED> > Update-Module SitecoreInstallFramework
PS C:\Users\<REDACTED> > -
```

```
Administrator: Windows PowerShell
PS C:\Users\<REDACTED> >
PS C:\Users\<REDACTED> > Get-Module SitecoreInstallFramework -ListAvailable

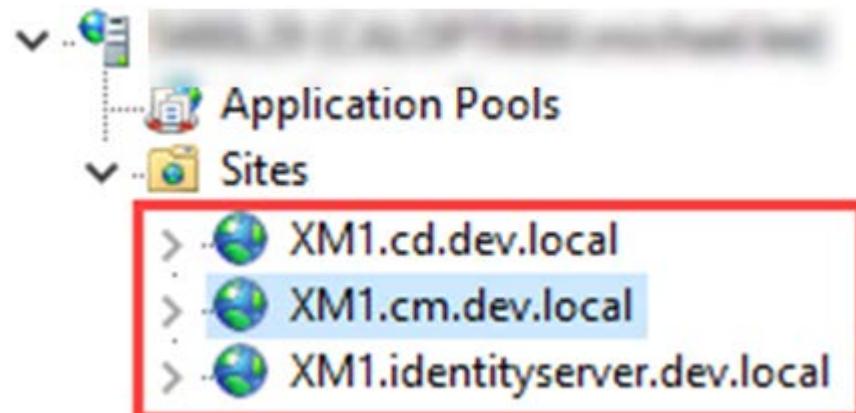
Directory: C:\Program Files\WindowsPowerShell\Modules

ModuleType Version    Name                                ExportedCommands
-----  -----    ----                                -----
Script      2.3.0    SitecoreInstallFramework          {Export-WebDeployParameters, Get-SitecoreInstallExtension, Install-Sitecore...
```

Installing Sitecore – 2nd XM Scaled Version

XM1-SingleDeveloper.ps1

```
$Prefix = "XM1"  
$SitecoreAdminPassword = "b"  
$SCInstallRoot = "C:\Sitrcore Helix\Downloads\Sitecore 10.XM1"  
$SitePhysicalRoot = ""  
$SitecoreContentManagementSitename = "$Prefix.cm.dev.local"  
$SitecoreContentDeliverySitename = "$Prefix.cd.dev.local"  
$IdentityServerSiteName = "$prefix.identityserver.dev.local"  
$LicenseFile = "$SCInstallRoot\license.xml"  
$SolrUrl = "https://localhost:8983/solr"  
$SolrRoot = "C:\Solr\solr-8.4.0"  
$SolrService = "SOLR-8-4-0"  
$SqlServer = "localhost"  
$SqlAdminUser = "sa"  
$SqlAdminPassword = "12345"
```



Installing Sitecore – 2nd XM Scaled Version

```
Administrator: Windows PowerShell
PS C:\Sitrcore Helix\Downloads\Sitecore 10.XM1>
PS C:\Sitrcore Helix\Downloads\Sitecore 10.XM1>
PS C:\Sitrcore Helix\Downloads\Sitecore 10.XM1> .\XM1-SingleDeveloper.ps1
*****
Sitecore Install Framework
Version - 2.3.0
*****


WorkingDirectory      : C:\Sitrcore Helix\Downloads\Sitecore 10.XM1
WhatIf                : False
Verbose               : SilentlyContinue
Configuration         : C:\Sitrcore Helix\Downloads\Sitecore 10.XM1\XM1-SingleDeveloper.json
Debug                 : SilentlyContinue
AutoRegisterExtensions: False
WarningAction          : Continue
ErrorAction            : Stop
InformationAction     : Continue

[----- SitecoreCD_SetLicense : Copy -----]
[SitecoreCD_SetLicense]:[(Copying) C:\Sitrcore Helix\Downloads\Sitecore 10.XM1\license.xml =>
C:\inetpub\wwwroot\XM1.cd\App_Data

[----- SitecoreCD_StartAppPool : ManageAppPool -----]
[SitecoreCD_StartAppPool]:[(Start) XM1.cd

[----- SitecoreCD_StartWebsite : ManageWebsite -----]
[SitecoreCD_StartWebsite]:[(Start) XM1.cd
[TIME] 00:13:32
PS C:\Sitrcore Helix\Downloads\Sitecore 10.XM1>
```

Installing Sitecore – 2nd XM Scaled Version

```
Administrator: Windows PowerShell
SubjectName      : System.Security.Cryptography.X509Certificates.X500DistinguishedName
SignatureAlgorithm : System.Security.Cryptography.Oid
Thumbprint        : 671B32211D2B065C57B516991E031A03D7DB8C28
Version          : 3
Handle           : 2044829086224
Issuer            : CN=Sitecore Install Framework, O=DO_NOT_TRUST, OU=Created by https://www.sitecore.com
Subject           : CN=XM1.cd.dev.local, O=DO_NOT_TRUST, OU=Created by https://www.sitecore.com

[SitecoreCD_CreateBindingsWithDevelopmentThumbprint]:[Add]
Name             Value
----             -----
Port             443
Protocol         https
HostHeader       XM1.cd.dev.local

C:\Windows\System32\drivers\etc\hosts
15
16 127.0.0.1   XM1.identityserver.dev.local
17 127.0.0.1   XM1.cm.dev.local
18 127.0.0.1   XM1.cd.dev.local
19

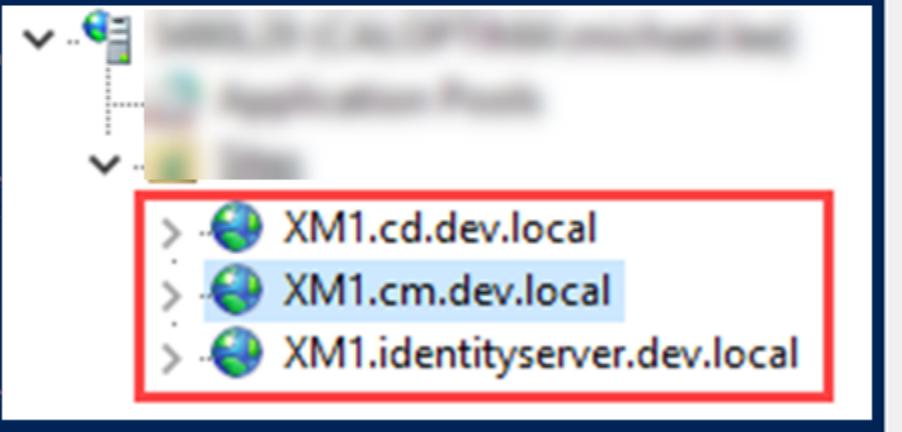
WebFeature SSL enabled for XM1.cd.dev.local on host XM1.cd.dev.local

[----- SitecoreCD_SetLicense
[SitecoreCD_SetLicense]:[Copying] C:\[REDACTED] Sitrcore Helix
C:\inetpub\wwwroot\XM1.cd.dev.local\App_Data

[----- SitecoreCD_StartAppPool
[SitecoreCD_StartAppPool]:[Start] XM1.cd.dev.local

[----- SitecoreCD_StartWebsite
[SitecoreCD_StartWebsite]:[Start] XM1.cd.dev.local
[TIME] 00:13:08

PS C:\> Sitrcore Helix\Downloads\Sitecore 10.XM1> _
```



Installing Sitecore – 2nd XM Scaled Version

The image displays two windows side-by-side. On the left is the Solr Core Admin interface, showing a list of cores including 'XM1_core_index'. On the right is the SQL Server Object Explorer, showing a tree view of databases including 'AdventureWorks2012', 'NorthWind', and four databases named 'XM1_Core', 'XM1_ExperienceForms', 'XM1_Master', and 'XM1_Web' which are highlighted with a red box.

Solr Core Admin Interface:

- Add Core
- Unload
- Rename
- Swap
- Reload

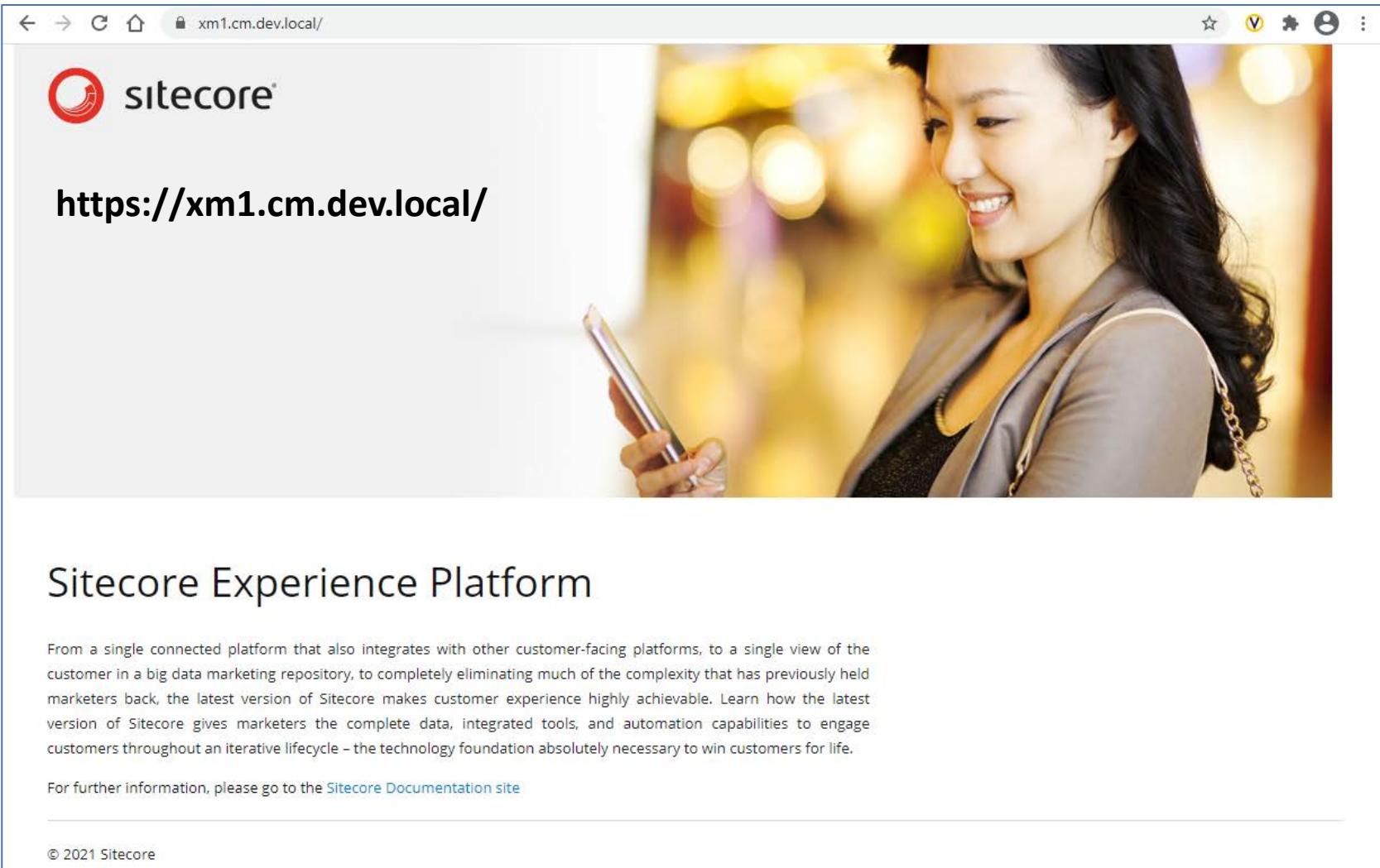
Solr > solr-8.4.0 > server > solr

Name	Date r
configsets	7/19/2021 1:44 PM
filestore	7/19/2021 1:44 PM
userfiles	7/19/2021 1:44 PM
XM1_core_index	7/28/2021 1:44 PM
XM1_fxm_master_index	7/28/2021 1:44 PM
XM1_fxm_web_index	7/28/2021 1:44 PM
XM1_marketing_asset_index_master	7/28/2021 1:44 PM
XM1_marketing_asset_index_web	7/28/2021 1:44 PM
XM1_marketingdefinitions_master	7/28/2021 1:44 PM
XM1_marketingdefinitions_web	7/28/2021 1:44 PM
XM1_master_index	7/28/2021 1:44 PM
XM1_personalization_index	7/28/2021 1:44 PM
XM1_suggested_test_index	7/28/2021 1:44 PM
XM1_testing_index	7/28/2021 1:44 PM
XM1_web_index	7/28/2021 1:44 PM
README.txt	7/19/2021 10:54 AM
solr.xml	7/19/2021 10:54 AM
zoo.cfg	7/19/2021 10:54 AM

SQL Server Object Explorer:

- Databases
 - System Databases
 - Database Snapshots
 - AdventureWorks2012
 - NorthWind
 - XM1_Core
 - XM1_ExperienceForms
 - XM1_Master
 - XM1_Web
- Security
- Server Objects
- Replication
- PolyBase
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XEvent Profiler

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https://xm1.cm.dev.local/

Sitecore Experience Platform

From a single connected platform that also integrates with other customer-facing platforms, to a single view of the customer in a big data marketing repository, to completely eliminating much of the complexity that has previously held marketers back, the latest version of Sitecore makes customer experience highly achievable. Learn how the latest version of Sitecore gives marketers the complete data, integrated tools, and automation capabilities to engage customers throughout an iterative lifecycle – the technology foundation absolutely necessary to win customers for life.

For further information, please go to the [Sitecore Documentation site](#)

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← → C ⌂ xm1.identityserver.dev.local/Account/Login?ReturnUrl=%2Fconnect%2Fauthorize%2Fcallback... ☆ V ↗ ↘ ↙ :

https://xm1.identityserver.dev.local/Account/Login?



User Name:

admin

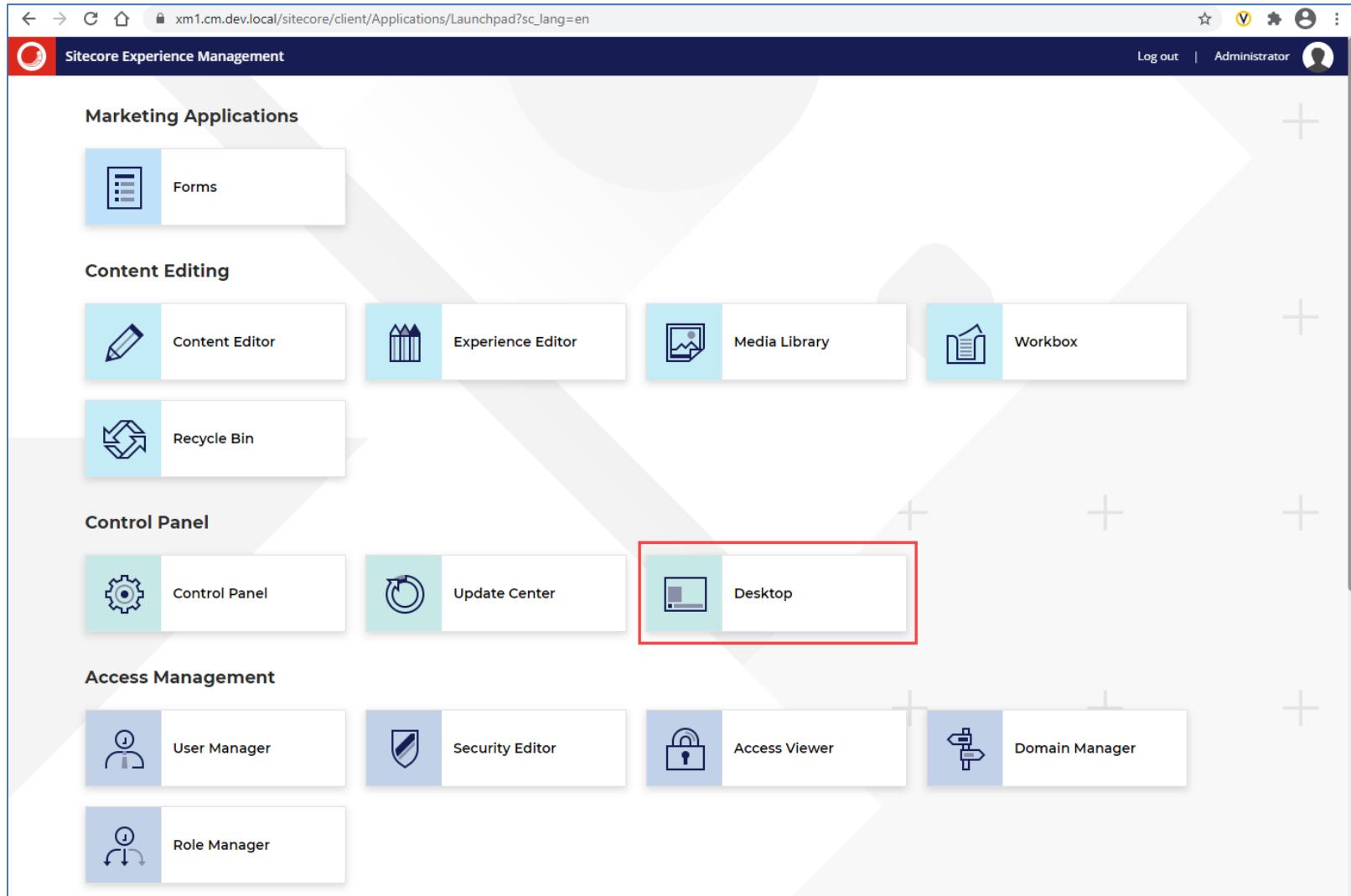
Password:

.

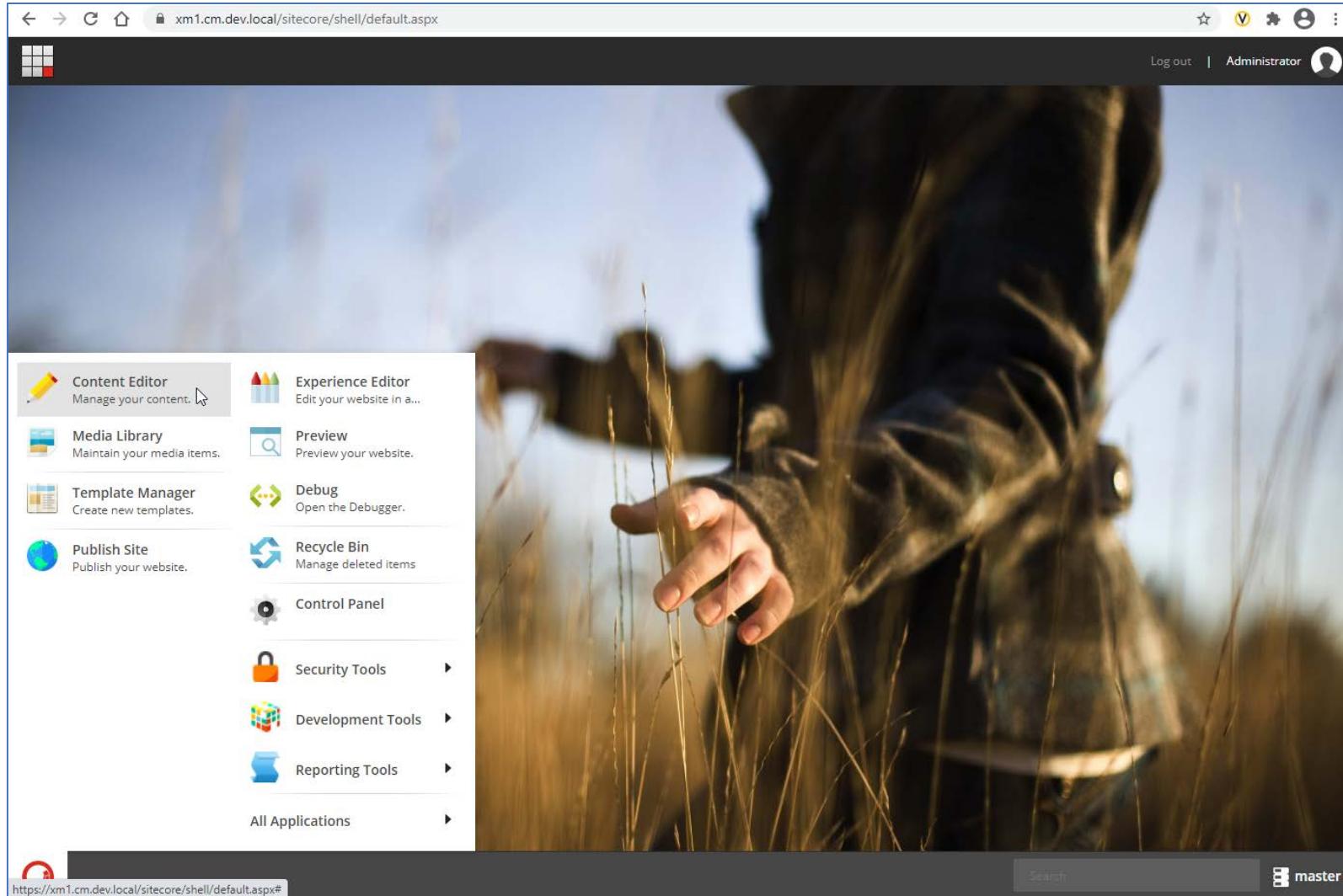
Log in

Remember me | [Forgot your password?](#)

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