SITECORE

Sitecore Experience Accelerator 10

Installation Guide

How to install and configure SXA

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Chapter 1

Installing and configuring SXA

To install Sitecore Experience Accelerator (SXA), you must have Sitecore Experience Platform installed on your on-premise content management server. You must download the SXA installation package that corresponds to your version of the Sitecore Experience Platform from the Sitecore Downloads page.

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1.1 Requirements

Before installing SXA, ensure that you have the following:

- Sitecore Experience Platform 10 Initial Release.
- Sitecore PowerShell Extensions 6.1.1

Important
Do not install Sitecore PowerShell Extensions if you deploy SXA to a CD environment.

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1.2 Installation

To install SXA:

1. Download the appropriate SXA 10 installation package from http://dev.sitecore.net.
2. On the Sitecore Launchpad, click **Control Panel**.
3. In the **Control Panel**, in the **Administration** section, click **Install a package** to open the Installation Wizard.
4. Click **Upload package** and follow the steps to upload the SXA package to Sitecore.
5. Click **Next** and follow the steps to install the package.
6. Before you close the wizard, select **Restart the Sitecore Client** and **Restart the Sitecore Server**.

Note
To install SXA with SIF, please refer to the Install SXA with SIF section.

Warning
The Azure app service has a timeout set to 230 seconds per request. If you install SXA on an existing Azure Sitecore solution, consider scaling up to a higher service tier temporarily to prevent a request timeout occurring.

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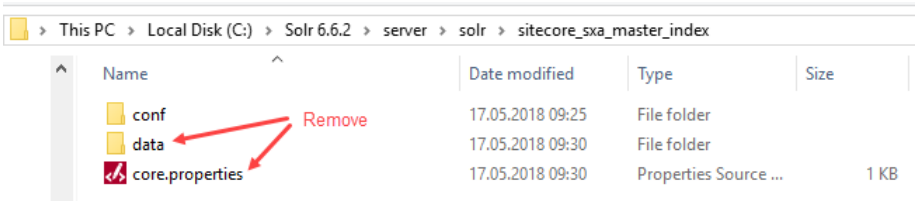
1.3 Create SOLR SXA cores

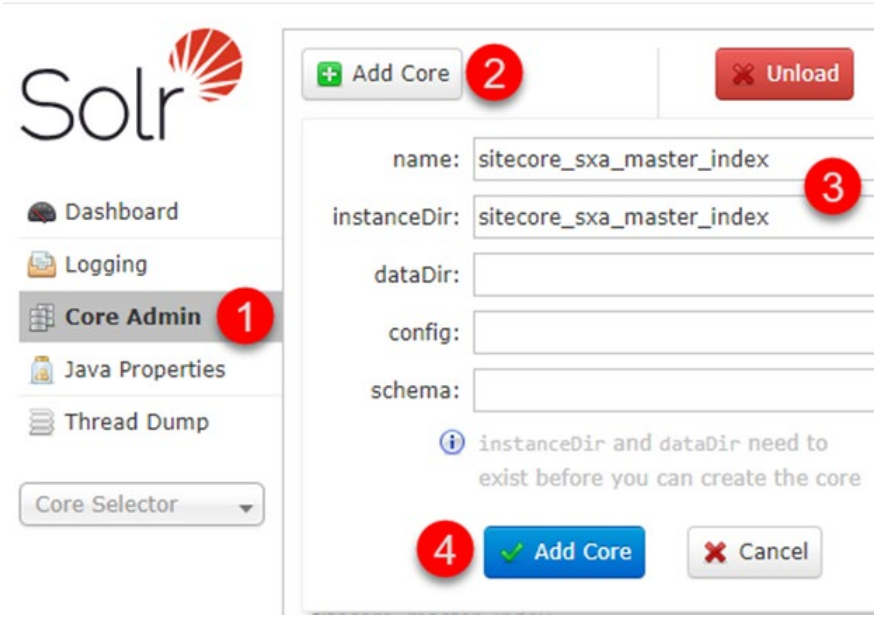
After installing SOLR and connecting it to your Sitecore instance, you may notice that a number of default Sitecore platform cores have been added. In SOLR a core is an instance of a Lucene index and contains the configurations for that index. Each index should have its own core, therefore for each custom index you wish to create for SXA, you must create a core.

To create your SOLR SXA core:

1. Duplicate core directory created for sitecore_master_index (or company_name_master_index) twice and rename to:
   - sitecore_sxa_master_index
   - sitecore_sxa_web_index
2. In those two folders, remove everything besides the “conf” directory.



3. On the Solr web interface, click **Core Admin** and click **Add Core** to add `sitecore_sxa_master_index`. Do the same for `sitecore_sxa_web_index`



Note
Make sure that the names of the Solr cores you created match the settings for `sitecore_sxa_master_index` and `sitecore_sxa_web_index` in `Sitecore.XA.Foundation.Search.Solr.config`

4. In Sitecore, log in to the Launchpad and open the **Control Panel**.
5. In the Indexing section, click **Populate Solr Managed Schema**.
6. In the **Schema Populate** dialog box, Select `sitecore_sxa_master_index` and `sitecore_sxa_web_index`, and click **Populate**:

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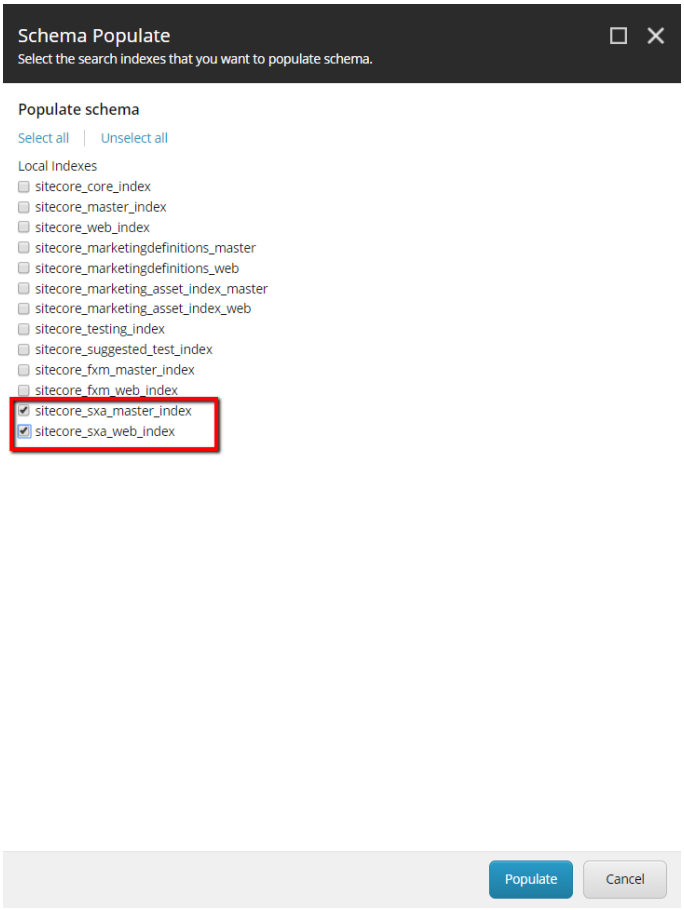

7. In the Indexing section, click **Indexing Manager**.
8. In the **Indexing Manager** dialog box, select `sitecore_sxa_master_index` and `sitecore_sxa_web_index`, and click **Rebuild**:

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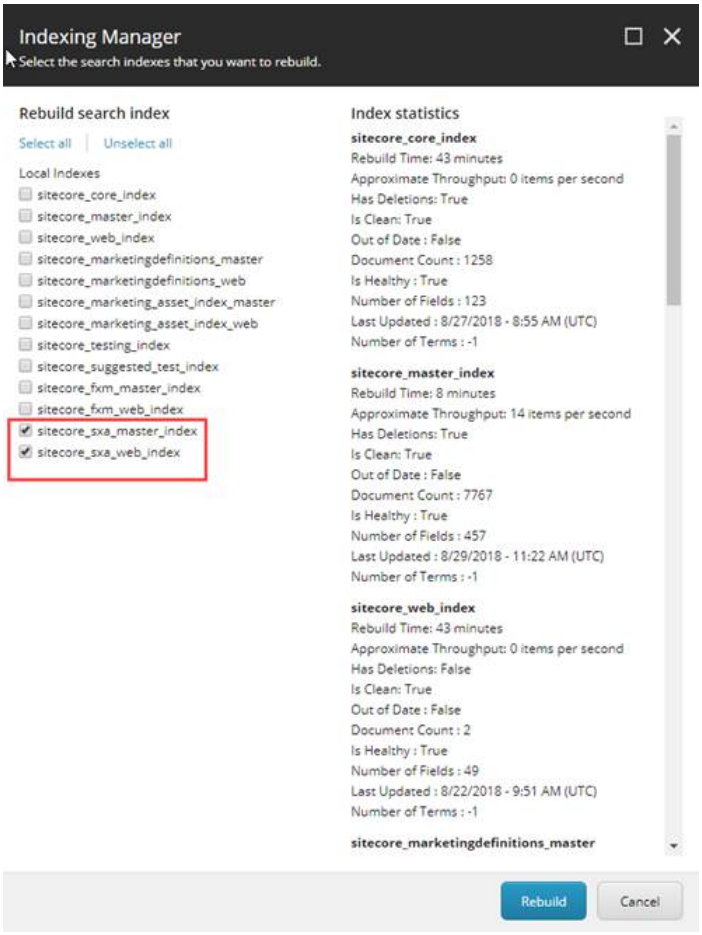

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1.4 Configuring the CD server

When you deploy the SXA to a CD environment, you should download the Sitecore Experience Accelerator 10 CD package, unzip the package, and copy the files in the website folder.

Important
Do not install Sitecore PowerShell Extensions if you deploy SXA to a CD environment.

If you setup XM Scaled (XM1) topology for Sitecore 9.1, you should add this key in `<appSettings>` section in `Web.config` on a CD server:

```
<add key="sxaxm:define" value="sxaxmonly" />
```


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1.5 Install SXA with SIF

Before installing SXA with SIF, ensure you have the following:

- Sitecore Installation Framework 2.2.0
- Sitecore Experience platform instance
- SXA SIF Deployment configuration files
  - SXA-SingleDeveloper-XM0.json
  - SXA-SingleDeveloper-XM1.json
  - SXA-SingleDeveloper-XP0.json
  - SXA-SingleDeveloper-XP1.json
  - sxa-XM0.json
  - sxa-XP0.json
  - sxa-XM1-CM.json
  - sxa-XM1-CD.json
  - sxa-XP1-CM.json
  - sxa-XP1-CD.json
  - spe.json
  - sxa-solr.json

1.5.1 XM single deployment

Required artifacts:

- Sitecore Experience Accelerator XM scwdp package
- Sitecore Powershell Extensions scwdp package

In order to deploy SXA to XM single environment, you can use the `SXA-SingleDeveloper-XM0.json` configuration file. SIF configuration deploys Sitecore Powershell Extensions, creates appropriate Solr cores for the SXA search indexes, and deploys SXA scdwp package.

Example script:

```
# The Prefix used on SOLR, Website and Database instances.
$prefix = "XM0"
# The Password for the Sitecore Admin User
$SitecoreAdminPassword = "b"
# The root folder with the license file and WDP files.
$SCInstallRoot = "C:\ResourceFiles"
# The URL of the Solr Server
$SolrUrl = "https://localhost:8995/solr"
# The Folder that Solr has been installed in.
$SolrRoot = "C:\Solr-8.4.0"
# The Name of the Solr Service.
$SolrService = "Solr-8.4.0"
# The DNS name or IP of the SQL Instance.
$SqlServer = "localhost"
# A SQL user with sysadmin privileges.
$SqlAdminUser = "sa"
# The password for $SQLAdminUser.
```


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```
$SqlAdminPassword = "12345"
# The name for the Sitecore Management Server server.
$Sitename = "$prefix.sc"

$SPEPackage = (Get-ChildItem "$SCInstallRoot\<Sitecore PowerShell
Extensions scwdp package name>").FullName
$SXAPackage = (Get-ChildItem "$SCInstallRoot\<Sitecore Experience
Accelerator XP scwdp package name>”).FullName

# Install Sitecore Powershell and Experience Accelerator packages
$sitecoreParams = @{
    Path                    = "$SCInstallRoot\SXA-SingleDeveloper-
XM0.json"
    SPEPackage              = $SPEPackage
    SXAPackage              = $SXAPackage
    Prefix                  = $prefix
    SitecoreAdminPassword   = $SitecoreAdminPassword
    SqlServer               = $SqlServer
    SqlAdminUser            = $SqlAdminUser
    SqlAdminPassword        = $SqlAdminPassword
    SolrUrl                 = $SolrUrl
    SolrRoot                = $SolrRoot
    SolrService             = $SolrService
    Sitename                = $Sitename
}

Push-Location $SCInstallRoot

Install-SitecoreConfiguration @sitecoreParams -verbose *>&1 | Tee-Object
SXA-SingleDeveloper.log

Pop-Location
```

1.5.2 XM deployment

Required artifacts:

- Sitecore Experience Accelerator XM scwdp package
- Sitecore Experience Accelerator XM CD scwdp package
- Sitecore Powershell Extensions scwdp package

In order to deploy SXA to XM environment, you can use the `SXA-SingleDeveloper-XM1.json` configuration file. SIF configuration deploys Sitecore Powershell Extensions, creates appropriate Solr cores for the SXA search indexes, and deploys SXA scdwp packages to Content Management and Content Delivery environments.

Example script:

```
# The Prefix used on SOLR, Website and Database instances.
$prefix = "XM1"
# The Password for the Sitecore Admin User
$SitecoreAdminPassword = "b"
# The root folder with the license file and WDP files.
$SCInstallRoot = "C:\resourcefiles"
# The URL of the Solr Server
$SolrUrl = "https://localhost:8995/solr"
# The Folder that Solr has been installed in.
$SolrRoot = "C:\Solr-8.4.0"
# The Name of the Solr Service.
```


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```
$SolrService = "Solr-8.4.0"
# The DNS name or IP of the SQL Instance.
$SqlServer = "localhost"
# A SQL user with sysadmin privileges.
$SqlAdminUser = "sa"
# The password for $SQLAdminUser.
$SqlAdminPassword = "12345"
# The name for the Sitecore Content Management server.
$CMSitename = "$prefix.cm"
# The name for the Sitecore Content Delivery server.
$CDSiteName = "$prefix.cd"

$SPEPackage = (Get-ChildItem "$SCInstallRoot\<Sitecore PowerShell
Extensions scwdp package name>").FullName
$SXACMPackage = (Get-ChildItem "$SCInstallRoot\<Sitecore Experience
Accelerator XM scwdp package name>").FullName
$SXACDPackage = (Get-ChildItem "$SCInstallRoot\<Sitecore Experience
Accelerator XM CD scwdp package name>").FullName

# Install Sitecore Powershell and Experience Accelerator packages
$sitecoreParams = @{
    Path                        = "$SCInstallRoot\SXA-SingleDeveloper-
XM1.json"
    SPEPackage                  = $SPEPackage
    SXACMPackage                = $SXACMPackage
    SXACDPackage                = $SXACDPackage
    Prefix                      = $prefix
    SitecoreAdminPassword       = $SitecoreAdminPassword
    SqlServer                   = $SqlServer
    SqlAdminUser                = $SqlAdminUser
    SqlAdminPassword            = $SqlAdminPassword
    SolrUrl                     = $SolrUrl
    SolrRoot                    = $SolrRoot
    SolrService                 = $SolrService
    SitecoreContentManagementSiteName                   = $CMSitename
    SitecoreContentDeliverySiteName                     = $CDSiteName
}

Push-Location $SCInstallRoot

Install-SitecoreConfiguration @sitecoreParams *>&1 | Tee-Object SXA-
SingleDeveloper.log

Pop-Location
```

1.5.3 XP single deployment

Required artifacts:

- Sitecore Experience Accelerator XP scwdp package
- Sitecore Powershell Extensions scwdp package

In order to deploy SXA to XP single environment, you can use the `SXA-SingleDeveloper-XP0.json` configuration file. SIF configuration deploys Sitecore Powershell Extensions, creates appropriate Solr cores for the SXA search indexes, and deploys SXA scdwp package.

Example script:

```
# The Prefix used on SOLR, Website and Database instances.
$prefix = "XP0"
```


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```
# The Password for the Sitecore Admin User
$SitecoreAdminPassword = "b"
# The root folder with the license file and WDP files.
$SCInstallRoot = "C:\ResourceFiles"
# The URL of the Solr Server
$SolrUrl = "https://localhost:8995/solr"
# The Folder that Solr has been installed in.
$SolrRoot = "C:\Solr-8.4.0"
# The Name of the Solr Service.
$SolrService = "Solr-8.4.0"
# The DNS name or IP of the SQL Instance.
$SqlServer = "localhost"
# A SQL user with sysadmin privileges.
$SqlAdminUser = "sa"
# The password for $SQLAdminUser.
$SqlAdminPassword = "12345"
# The name for the Sitecore Content Delivery server.
$Sitename = "$prefix.sc"

$SPEPackage = (Get-ChildItem "$SCInstallRoot\<Sitecore PowerShell
Extensions scwdp package name>").FullName
$SXAPackage = (Get-ChildItem "$SCInstallRoot\Sitecore Experience
Accelerator XP scwdp package name>”).FullName

# Install Sitecore Powershell and Experience Accelerator packages
$sitecoreParams = @{
    Path                    = "$SCInstallRoot\SXA-SingleDeveloper-
XP0.json"
    SPEPackage              = $SPEPackage
    SXAPackage              = $SXAPackage
    Prefix                  = $prefix
    SitecoreAdminPassword   = $SitecoreAdminPassword
    SqlServer               = $SqlServer
    SqlAdminUser            = $SqlAdminUser
    SqlAdminPassword        = $SqlAdminPassword
    SolrUrl                 = $SolrUrl
    SolrRoot                = $SolrRoot
    SolrService             = $SolrService
    Sitename                = $Sitename
}

Push-Location $SCInstallRoot

Install-SitecoreConfiguration @sitecoreParams -verbose *>&1 | Tee-Object
SXA-SingleDeveloper.log

Pop-Location
```

1.5.4 XP deployment

Required artifacts:

- Sitecore Experience Accelerator XP scwdp package
- Sitecore Experience Accelerator XP CD scwdp package
- Sitecore Powershell Extensions scwdp package

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In order to deploy SXA to XP environment, you can use the `SXA-SingleDeveloper-XP1.json` configuration file. SIF configuration deploys Sitecore Powershell Extensions, creates appropriate Solr cores for the SXA search indexes, and deploys SXA scdwp packages to Content Management and ContentDelivery environments.

After installation populate and rebuild sitecore_sxa_master_index and sitecore_sxa_web_index in the Indexing Manager.

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