SXA 10.4.0 installation guide

How to install and configure SXA

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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.

1.1. Requirements

Prerequisites for installing the Sitecore Experience Accelerator.

Before installing SXA, you must have the following:

- Sitecore Experience Platform 10.4 Initial Release.
- Sitecore PowerShell Extensions 7.0.

> **IMPORTANT**
> If you deploy SXA to a CD environment, do not install Sitecore PowerShell Extensions.

1.2. Installation

This section covers installing SXA manually. To install SXA with SIF, refer to the Installing SXA with SIF section.

To install SXA:

1. Download the appropriate SXA 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**.
7. If you are using the ZIP package to install SXA, replace the Sitecore Media Handler with the SXA media requests handler in the `web.config` file:

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
```

```
  <system.webServer>
    <handlers>
      <add verb="*" path="sitecore_media.ashx"
type="Sitecore.XA.Foundation.MediaRequestHandler.MediaRequestHandler,
Sitecore.XA.Foundation.MediaRequestHandler" name="Sitecore.MediaRequestHandler"/>
    </handlers>
  </system.webServer>
</configuration>
```

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 from occurring.

1.3. Create SOLR SXA cores

Instructions on how to create SOLR SXA core for your SXA installation.

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 that contains the configurations for that index. Because each index should have its own core, you must create a core for each custom index you want to create for SXA.

To create your SOLR SXA core:

1. Duplicate the 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 except 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, select `sitecore_sxa_master_index` and `sitecore_sxa_web_index`, and click **Populate**.

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**.

1.4. Configuring the CD server

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

> **IMPORTANT**
> If you deploy SXA to a CD environment, do not install Sitecore PowerShell Extensions.

If you set up an XM scaled (XM1) topology, add this key in the `<appSettings>` section in the `Web.config` file on your CD server:

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

1.5. Layout Service

All Layout Service configuration files are disabled by default. If the Headless Services module is not installed, and you want to use Layout Service with SXA, you must enable the Layout Service configuration files.

All configuration files are located in the following repository:

/App_Config/Modules/SXA/Z.LayoutService/

1.6. Installing SXA with SIF

Before installing SXA with SIF, make sure you have the following:

- Sitecore Installation Framework 2.4.0
- 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-ZP1-CD.json
- spe.json
- sxa-solr.json

1.6.1. XM single deployment

Required artifacts:

- Sitecore Experience Accelerator XM scwdp package
- Sitecore PowerShell Extentions scwdp package

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

The following is an 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:8996/solr"
# The Folder that Solr has been installed in.
$SolrRoot = "C:\Solr-8.11.2"
# The Name of the Solr Service.
$SolrService = "Solr-8.11.2"
# 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 Management Server server.
$Sitename = "$prefix.sc"

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

1.6.2. XM deployment

Required artifacts:

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

To deply SXA to an XM environment, you can use the `SXA-SingleDeveloper-XM1.json` configuration file. The SIF configuration deploys SItecore PowerShell Extensions, creates the appropriate Solr cores for the SXA search indexes, and deploys SXA scdwp packages to the Content Management and Content Delivery environments.

The following is an 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:8996/solr"
# The Folder that Solr has been installed in.
$SolrRoot = "C:\Solr-8.11.2"
# The Name of the Solr Service.
$SolrService = "Solr-8.11.2"
# 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
```

1.6.3. XP single deployment

Required artifacts:

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

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

The following is an example script:

```
# The Prefix used on SOLR, Website and Database instances.
$prefix = "XP0"
# 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:8996/solr"
# The Folder that Solr has been installed in.
$SolrRoot = "C:\Solr-8.11.2"
# The Name of the Solr Service.
$SolrService = "Solr-8.11.2"
# 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
```

1.6.4. XP deployment

Required artifacts:

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

To deploy SXA to an XP environment, you can use the `SXA-SingleDeveloper-XP1.json` configuration file. The SIF configuration deploys Sitecore PowerShell Extensions, creates the appropriate Solr cores for the SXA search indexes, and deploys SXA scdwp packages to Content Management and Content Delivery environments.

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