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Table of Contents

1. Introduction	. 3
2. Prerequisites	. 4
2.1. Download required packages	. 4
2.2. Prepare Sitecore Al files	. 4
2.3. Prepare your Sitecore XP Docker deployment	. 4
3. Build custom images for Sitecore Al	. 6
4. Deploy Sitecore XP and Sitecore AI to a developer workstation using Docker containers	10



1. Introduction

This guide explains how to deploy the Sitecore Al Auto-personalization Standard module with Sitecore Experience Platform on a developer workstation using containers.

This guide is for deploying Sitecore Al Auto-personalization containers to a Sitecore XP0 or XP1 deployment topology using Docker.

NOTE

For instructions on how to deploy Sitecore Al Auto-personalization Standard using Kubernetes, refer to Sitecore Al Installation Guide for Kubernetes available on the Download site.



2. Prerequisites

You must complete the following prerequisite steps to prepare for deploying Sitecore XP with the Sitecore AI Auto-personalization module to a developer workstation with containers.

NOTE

These instructions assume that you have signed up for Sitecore AI – Automated Personalization, and have the provided tokens, configuration service URL, and assigned tenant IDs at hand.

2.1. Download required packages

Download the following packages from the Sitecore Downloads page:

- Sitecore Experience Platform 10.1.1 Container Deployment Package
- Sitecore AI container package

2.2. Prepare Sitecore AI files

To prepare Sitecore AI files:

- Extract the SitecoreAIStandardContainerDeployment. {version}. {revision}.zip archive to any location on your workstation. In the archive, the compose/deploy/ <XP_Topology> folder contains a docker-compose.override.yml file that you use for deploying the images that are created during the build stage.
- 2. Extract the SitecoreContainerDeployment.10.*.*.zip archive, and, in the folder where you extracted it, locate the compose/<yourbaseOS>/<XP_Topology> folder. In the instructions that follow, this folder is referred to as your *deploy* folder.

2.3. Prepare your Sitecore XP Docker deployment

To prepare your Sitecore XP docker deployment:

1. Download the Sitecore XP *Installation Guide for a Developer Workstation with Containers*, and familiarize yourself with its contents.



- 2. Make sure you meet the system requirements specified in the *Sitecore XP Installation Guide for a Developer Workstation with Containers*.
- 3. Make sure that your system meets all software and hardware requirements and follow the instructions to complete all steps in the **Preparation** section.



3. Build custom images for Sitecore AI

The following instructions assume you have completed all the steps in the **Prerequisites** section in Sitecore XP *Installation Guide for a Developer Workstation with Containers*.

In order to prepare the Sitecore XP images to work with the Sitecore AI Auto-personalization extension, you must install the Sitecore AI asset image on top of the affected Sitecore XP roles in the configuration topology.

To build the custom images:

NOTE

The following instructions apply for building images for XP0 topology and XP1 topology roles.

- 1. In your Docker installation, create a folder and name it *build*.
- 2. In the *build* folder, create an .env file, copy and paste the following variables into it, and then set values:

```
TOPOLOGY=
SITECORE_DOCKER_REGISTRY=
SITECOREAI_INTEGRATION_ASSET_IMAGE=
SITECORE_AI_VERSION=
SITECORE_VERSION=
```

The following table describes possible values for each environment variable:

Variable name	Description	Value
TOPOLOGY	The Sitecore XP deployment topology you need to build.	xp0 xp1
SITECORE_DOCKER_REGISTRY	The Sitecore container registry.	<pre>scr.sitecore.com/sxp/</pre>
SITECOREAI_INTEGRATION_ASSET_IMAGE	The name of the base Sitecore Al asset image.	<pre>scr.sitecore.com/sxp/ modules/sitecore-ai-xp1- assets</pre>
SITECORE_VERSION	The version of the base Sitecore images.	Copy this value from the Sitecore XP .env file for your topology. For example: 10.1-ltsc2019, where 10.1 is the Sitecore version, and ltsc2019 is the base OS version.
SITECORE_AI_VERSION	The version tag of the base Sitecore Al asset image.	Use one of the following, based on the OS version you are using: • 2009: 3.0.0-20H2 • ltsc2019: 3.0.0- ltsc2019



- 3. Copy the SitecoreAIStandardContainerDeployment/compose/build/<xp0 or xp1>/ docker-compose.yml file into your build folder. Your build folder now contains the docker-compose.yml and .env files that are required to build a custom image of each role included in the XP1 topology.
- 4. Complete this step if you are using the XP0 topology.

NOTE

If you are deploying the XP1 topology, skip this step, and go to Step 5 instead.

In the *build* folder, create a sub-folder for each role in the XP0 topology, with the required docker files as follows:

• Create a sub-folder named cm. In that sub-folder, create a new file named dockerfile, and copy and paste the following content into the file:

```
# escape=`
ARG CM_BASE_IMAGE
ARG SITECOREAI_INTEGRATION_ASSET_IMAGE
FROM ${SITECOREAI_INTEGRATION_ASSET_IMAGE} as sitecoreai_integration
FROM ${CM_BASE_IMAGE} AS base
COPY --from=sitecoreai integration C:\module\cm\content\ C:\inetpub\wwwroot
```

• Create a sub-folder named xconnect. In that sub-folder, create a new file named dockerfile, and copy and paste the following content into the file:

```
# escape=`
ARG XCONNECT_BASE_IMAGE
ARG SITECOREAI_INTEGRATION_ASSET_IMAGE
FROM ${SITECOREAI_INTEGRATION_ASSET_IMAGE} as sitecoreai_integration
FROM ${XCONNECT_BASE_IMAGE} AS base
COPY --from=sitecoreai_integration C:\module\xconnect\content\ C:\inetpub\wwwroot
```

• Create a sub-folder named cortexprocessingworker. In that sub-folder, create a new file named dockerfile, and copy and paste the following content into the file:

```
# escape=`
ARG CORTEXPROCESSING_BASE_IMAGE
ARG SITECOREAI_INTEGRATION_ASSET_IMAGE
FROM ${SITECOREAI_INTEGRATION_ASSET_IMAGE} as sitecoreai_integration
FROM ${CORTEXPROCESSING_BASE_IMAGE} AS base
COPY --from=sitecoreai_integration C:\module\xconnect\content\ C:\service\
```

• Create a sub-folder named xdbsearchworker. In that sub-folder, create a new file named dockerfile, and copy and paste the following content into the file:

```
# escape=`
ARG XDBSEARCHWORKER_BASE_IMAGE
ARG SITECOREAI_INTEGRATION_ASSET_IMAGE
FROM ${SITECOREAI_INTEGRATION_ASSET_IMAGE} as sitecoreai_integration
FROM ${XDBSEARCHWORKER_BASE_IMAGE} AS base
COPY --from=sitecoreai_integration C:\module\xconnect\content\ C:\service\
```



- 5. If you are using the XP0 topology, skip this step and go to step 6 instead. If you are using the XP1 topology, in the *build* folder, create a sub-folder for each role in the XP1 topology, with the required docker files as follows:
 - Create a sub-folder named cm. In that sub-folder, create a new file named dockerfile, and copy and paste the following content into the file:

```
# escape=`
ARG CM_BASE_IMAGE
ARG SITECOREAI_INTEGRATION_ASSET_IMAGE
FROM ${SITECOREAI_INTEGRATION_ASSET_IMAGE} as sitecoreai_integration
FROM ${CM_BASE_IMAGE} AS base
COPY --from=sitecoreai_integration C:\module\cm\content\ C:\inetpub\wwwroot
```

• Create a sub-folder named cd. In that sub-folder, create a new file named dockerfile, and copy and paste the following content into the file:

```
# escape=`
ARG CD_BASE_IMAGE
ARG SITECOREAI_INTEGRATION_ASSET_IMAGE
FROM ${SITECOREAI_INTEGRATION_ASSET_IMAGE} as sitecoreai_integration
FROM ${CD_BASE_IMAGE} AS base
COPY --from=sitecoreai_integration C:\module\cm\content\ C:\inetpub\wwwroot
```

• Create a sub-folder named cortexprocessingworker. In that sub-folder, create a new file named dockerfile, and copy and paste the following content into the file:

```
# escape=`
ARG CORTEXPROCESSINGWORKER_BASE_IMAGE
ARG SITECOREAI_INTEGRATION_ASSET_IMAGE
FROM ${SITECOREAI_INTEGRATION_ASSET_IMAGE} as sitecoreai_integration
FROM ${CORTEXPROCESSINGWORKER_BASE_IMAGE} AS base
COPY --from=sitecoreai_integration C:\module\xconnect\content\ C:\service\
```

• Create a sub-folder named xdbsearchworker. In that sub-folder, create a new file named dockerfile, and copy and paste the following content into the file:

```
# escape=`
ARG XDBSEARCHWORKER_BASE_IMAGE
ARG SITECOREAI_INTEGRATION_ASSET_IMAGE
FROM ${SITECOREAI_INTEGRATION_ASSET_IMAGE} as sitecoreai_integration
FROM ${XDBSEARCHWORKER_BASE_IMAGE} AS base
COPY --from=sitecoreai_integration C:\module\xconnect\content\ C:\service\
```

• Create a sub-folder named xdbcollection. In that sub-folder, create a new file named dockerfile, and copy and paste the following content into the file:

```
# escape=`
ARG XDBCOLLECTION_BASE_IMAGE
ARG SITECOREAI_INTEGRATION_ASSET_IMAGE
FROM ${SITECOREAI_INTEGRATION_ASSET_IMAGE} as sitecoreai_integration
FROM ${XDBCOLLECTION_BASE_IMAGE} AS base
COPY --from=sitecoreai_integration C:\module\xconnect\content\ C:\inetpub\wwwroot\
```

• Create a sub-folder named xdbrefdata. In that sub-folder, create a new file named dockerfile, and copy and paste the following content into the file:



escape=`
ARG XDBREFDATA_BASE_IMAGE
ARG SITECOREAI_INTEGRATION_ASSET_IMAGE
FROM \${SITECOREAI_INTEGRATION_ASSET_IMAGE} as sitecoreai_integration
FROM \${XDBREFDATA_BASE_IMAGE} AS base
COPY --from=sitecoreai_integration C:\module\xconnect\content\ C:\inetpub\wwwroot\

• Create a sub-folder named cortexreporting. In that sub-folder, create a new file named dockerfile, and copy and paste the following content into the file:

```
# escape=`
ARG CORTEXREPORTING_BASE_IMAGE
ARG SITECOREAI_INTEGRATION_ASSET_IMAGE
FROM ${SITECOREAI_INTEGRATION_ASSET_IMAGE} as sitecoreai_integration
FROM ${CORTEXREPORTING_BASE_IMAGE} As base
COPY --from=sitecoreai_integration C:\module\xconnect\content\ C:\inetpub\wwwroot\
```

6. To build the required custom images that includes the Sitecore AI files, in the build folder, run the docker-compose build command.



4. Deploy Sitecore XP and Sitecore AI to a developer workstation using Docker containers

To deploy Sitecore XP with Sitecore AI Auto-personalization Standard to a developer workstation using Docker containers:

- 1. In the *Installation Guide for a Developer Workstation with Containers for Sitecore XP 10.1.0*, follow the instructions in Chapter 2 Deploying a Sitecore XP workstation up to and including the step where you **Open the docker-compose.yaml file** to review its content (after you installed the self-signed root authority certificate).
- 2. In your deploy folder, verify that all variable values have been correctly populated in the .env file, and add the following additional Sitecore AI variables:

NOTE	
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For an example, you can refer to the env-example file that is included in the following location: SitecoreAiContainerDeployment/compose/deploy/ <xp0 or xp1>/

Name	Value
TENANTID	<the id="" provided="" tenant="" to="" unique="" you=""></the>
ML_CONFIG_BASEURL	<the config="" provided="" service="" to="" url="" you=""></the>
ML_CONFIG_TOKEN	<the config="" provided="" to="" token="" unique="" you=""></the>
TOPOLOGY	xp0 or xp1
SITECORE_AI_VERSION	The value that matches the SITECORE_AI_VERSION value in the .env file used to build images.

3. In your *deploy* folder, create a sub-folder named override, and then, based on your deployment topology, copy the SitecoreAiContainerDeployment/compose/deploy/ <xp0 or xp1>/docker-compose.override.yml file into it.

4. Run the following command:

docker-compose -f .\docker-compose.yml -f .\override\docker-compose.override.yml up -d

5. Go to the *Installation Guide for a Developer Workstation with Containers for Sitecore XP 10.1.0*, and in the **Deploy a workstation** section, perform the step *to check the Docker container status* and, then resume the deployment process and clean up instructions.

Refer to the Sitecore documentation website for information on how to work with Sitecore Al autopersonalization.



NOTE

In the XP0 deployment topology, you visit the CM (content management) website to generate interactions. In the XP1 deployment topology, you generate interactions by visiting the CD (content delivery) website.