

ComponentSpace OpenID Connect for ASP.NET Core Installation Guide

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Introduction

The ComponentSpace OpenID Connect for ASP.NET Core is a .NET class library that provides OpenID provider functionality.

You can use this functionality to easily enable your ASP.NET Core web applications to participate in OpenID Connect flows as the OpenID provider. Example applications with full source code are included.

Installation

The product is supplied as a ZIP file. This includes the binaries, documentation, and example projects. Simply unzip to a convenient location on your file system (eg C:\OpenID for ASP.NET Core).

The product does not need to be installed on production or test servers. Instead, the OpenID Connect for ASP.NET Core class library should be deployed along with the application.

NuGet Package Source

The ComponentSpace.OpenID DLL is shipped as a NuGet package. This is found in the bin folder and its name format is:

ComponentSpace.OpenID.<version-number>.nupkg

Note that an evaluation version of the product is published through nuget.org.

During evaluation, the nuget.org source may be used. Alternatively, a local package source may be specified in Visual Studio.

For general information on NuGet packages and their consumption, refer to:

https://docs.microsoft.com/en-us/nuget/consume-packages/overview-and-workflow

For information on hosting packages, refer to:

https://docs.microsoft.com/en-us/nuget/hosting-packages/overview

For information on using Azure Artifacts in an Azure DevOps environment, refer to:

https://docs.microsoft.com/en-us/azure/devops/artifacts/get-started-nuget

NuGet.config

A NuGet.config file is included with the examples' solution. It specifies the bin folder as a package source.

For new solutions, a similar NuGet.config file may be used to specify the package source for that solution.

NuGet includes several options for specifying the package source including project-specific, solution-specific, and machine-wide NuGet.config files. The appropriate file should be updated to specify the package source.

For more information, refer to:

https://docs.microsoft.com/en-us/nuget/consume-packages/configuring-nuget-behavior

NuGet Package Manager

Rather than directly updating NuGet.config, the package source may be specified through Visual Studio.

To specify a package source:

- 1. From Visual Studio's menu, select Tools > Options.
- 2. Under the listed options, select NuGet Package Manager > Package Sources.



Figure 1 Package Sources

3. Add a package source specifying the bin folder where the ComponentSpace.OpenID nupkg is located. This package source is available to all ASP.NET Core web application projects.

ComponentSpace OpenID Connect for ASP.NET Core Installation Guide

Options		? ×
Search Options (Ctrl+E)	Package sources:	+ ×
 Environment Projects and Solutions Source Control Work Items Text Editor Debugging Performance Tools .NET Core Debugging with WSL Azure Service Authentication Container Tools Cross Platform Database Tools IntelliCode Live Share 	 nuget.org https://api.nuget.org/v3/index.json Microsoft Visual Studio Offline Packages C:\Program Files (x86)\Microsoft SDKs\NuGetPackages\ ComponentSpace OpenID for ASP.NET Core C:\OpenID for ASP.NET Core\bin 	
 NuGet Package Manager General 	Name: ComponentSpace OpenID for ASP.NET Core	
Package Sources	Source: C:\OpenID for ASP.NET Core\bin	<u>U</u> pdate
	ОК	Cancel

Figure 2 Add ComponentSpace Package Source

NuGet Package Installation

1. Within an ASP.NET Core web application project, click Manage NuGet Packages and select ComponentSpace as the package source.

NuGet Package Manager: ExampleOpenIDProvider

Package source: ComponentSpace OpenID for ASP.NET Core 🝷 🍪

Figure 3 Select ComponentSpace Package Source

2. Browse and install ComponentSpace.OpenID into the application.

Browse Installed Updates		NuGet	Package N	lanager: ExampleOpenIDProvide
Search (Ctrl+L)	₽ - Ŭ 🗌 Include prerelease	Pa	ckage source:	ComponentSpace OpenID for ASP.NET Core 👻
പ്പോ ComponentSpace.OpenID by Co	imporientSpace	1.0.0	🍀 Comp	onentSpace.OpenID
Enable OpenID Connect (OIDC) in ASP.N	IET Core applications acting as the OpenID provider.		Version: Latest	stable 1.0.0 Install
			• Options	
			Description	
			Enable OpenID C as the OpenID pr	Connect (OIDC) in ASP.NET Core applications actin rovider.
			Example ASP.NE simple to use Op Comprehensive o	T Core projects are available that demonstrate the enID API and accompanying OpenID configuratio focumentation is also available
			This is a licensed	version of the product.
			Version:	1.0.0
			Owner(s):	
			Author(s):	ComponentSpace
			License:	View License
			Date published:	Monday, July 25, 2022 (7/25/2022)
			Project URL:	https://www.componentspace.com/openid
			Tags:	ComponentSpace OpenID Connect OIDC aspnetcore authentication middleware
			Dependencies A net6.0	
			Microsoft. Microsoft.	Extensions.Caching.Memory (>= 6.0.1) Extensions.Logging (>= 6.0.0)

Figure 4 Install ComponentSpace.OpenID

3. Accept the license agreement.



Figure 5 License Agreement Acceptance

4. Visual Studio will install the package and its dependencies. This can be confirmed by ensuring Intellisense recognizes the namespace ComponentSpace.OpenID.

Evaluation vs Licensed Version

An evaluation version of the product is equivalent to the licensed version except that it will stop working once the evaluation period expires.

The package name of the evaluation version is **ComponentSpace.OpenID**.

The package name of the licensed version is **ComponentSpace.OpenID.Licensed**.

Different package names are used to avoid accidentally upgrading from a licensed to an evaluation version of the product.

An evaluation version of the ComponentSpace.OpenID DLL includes the word evaluation. The licensed version doesn't.

🔹 ComponentSpa	ice.OpenII	D.dll Prope	erties		\times
General Security	Details	Previous	Versions		
Property	Value				
File description Type File version	Compone Applicatio 1.0.0.0	entSpace.O on extension	penID า		
Product name Product version	OpenID C 1.0.0	Connect for	ASP.NET Core ((Evaluat	
Copyright Size	Copyright 184 KB	© Compor	entSpace 2022		
Date modified Language	25/07/2022 3:52 PM Language Neutral				
Original filename	Compone	entSpace.O	penID.dll		
Remove Properties and Personal Information					
		ОК	Cancel	Apply	

Figure 6 Evaluation Version DLL Properties

Also, the package description specifies whether it's an evaluation or licensed version.

ComponentSpace.OpenID			
Version: Latest stable 1.0.0			
♥ Options			
Description			
Enable OpenID Connect (OIDC) in ASP.NET Core applications act as the OpenID provider.	ing		
Example ASP.NET Core projects are available that demonstrate the simple to use OpenID API and accompanying OpenID configuration. Comprehensive documentation is also available.			
Please note that this is a fully functional evaluation version of a commercial product. The trial period is 30 days.			
- Figure 7 Evaluation Version Package Description			

Upgrading to a Licensed Version

After purchasing a licensed version of the product, ensure all time-limited evaluation packages (i.e. ComponentSpace.OpenID) are replaced with the licensed package (i.e. ComponentSpace.OpenID.Licensed).

Uninstall the **ComponentSpace.OpenID** package from your applications.

Browse Installed	Updates
Search (Ctrl+L)	P - C Include prerelease
ComponentSpace. Enable OpenID Connect	OpenID by ComponentSpace 1.0.0 t (OIDC) in ASP.NET Core applications acting as the OpenID provider.

Figure 8 Evaluation Version Installed

Setup a NuGet package source for the licensed package.

Install the ComponentSpace.OpenID.Licensed package into your applications.

ComponentSpace OpenID Connect for ASP.NET Core Installation Guide

Browse Installed	Updates	
Search (Ctrl+L)	・ ひ Include prerelease	
ComponentSpace Enable OpenID Connect	e.OpenID.Licensed by ComponentSpace ct (OIDC) in ASP.NET Core applications acting as the OpenID provider.	1.0.0

Figure 9 Licensed Version Installed

Your applications should build successfully without having to change the source code.

Be careful not to replace a licensed version of the product with an evaluation version from nuget.org.

Uninstallation

- 1. Uninstall the ComponentSpace.OpenID package from any ASP.NET Core web application projects.
- 2. Remove the ComponentSpace NuGet package source.
- 3. Delete the unzipped contents from the file system.