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# SharePoint 2013: MyFileConnector custom BCS indexing connector sample

This documentation is preliminary and is subject to change.

Summary:  Learn how to create a custom BCS indexing connector for Search in SharePoint 2013 Preview

## Description of the MyFileConnector sample

The MyFileConnector sample demonstrates how to create a basic BCS indexing connector that crawls all files and folders within a file share on a Windows file system. This sample is designed to show you how to create custom BCS indexing connectors. For more information about creating custom indexing connectors, see **Search connector framework in SharePoint 2013**.

## Prerequisites

This sample requires the following:

* Visual Studio
* SharePoint Server 2013 Preview

## Key components of the MyFileConnector sample

The MyFileConnector sample contains the following:

* MyFile.cs, which defines the file and folder external content types, and provides the method implementations for the Finder and SpecificFinder operations
* MyFileConnector.cs, which derives from the [StructuredRepositorySystemUtility](http://msdn.microsoft.com/library/Microsoft.Office.Server.Search.Connector.BDC.StructuredRepositorySystemUtility%601) class, which implements the [ISystemUtility](http://msdn.microsoft.com/library/Microsoft.BusinessData.Runtime.ISystemUtility) interface.
* MyFileLobUri.cs, which derives from the [LobUri](http://msdn.microsoft.com/library/Microsoft.Office.Server.Search.Connector.BDC.LobUri) class, which maps the URLs as they are passed from Search to Business Connectivity Services (BCS).
* MyFileNamingContainer.cs, which implements the [INamingContainer](http://msdn.microsoft.com/library/Microsoft.Office.Server.Search.Connector.BDC.INamingContainer) interface, and maps the URLs as they are passed from BCS to Search.
* MyFileModel.xml, which is the BDC model file for the MyFileConnector sample.

## Configure the sample

1. Open the MyFileConnector project in Visual Studio.
2. In Solution Explorer, expand the References folder, and then restore any missing project references. The sample includes references to the following SharePoint Server 2013 Preview assemblies:

* Microsoft.BusinessData
* Microsoft.SharePoint
* Microsoft.Office.Server.Search.Connector

## Run and test the sample

To deploy the MyFileConnector sample:

1. On the application server, add the sample assembly (MyFileConnector.dll) to the global assembly cache. For more information, see [How to: Install an Assembly into the Global Assembly Cache](http://msdn.microsoft.com/library/a7e6f091-d02c-49ba-b736-7295cb0eb743.aspx).
2. Copy MyFileModel.xml to the application server.
3. Open the SharePoint Management Shell.
4. At the command prompt, do the following:

* Type the following command, and then run it.

$searchapp = Get-SPEnterpriseSearchServiceApplication

* Type the following command, and then run it.

New-SPEnterpriseSearchCrawlCustomConnector -SearchApplication $searchapp -protocol myfile -ModelFilePath "\\ServerName\FolderName\MyFileModel.xml" -Name myfile

1. Add the following registry subkey to the server, and then set the value to OSearch15.ConnectorProtocolHandler.1:

[HKEY\_LOCAL\_MACHINE]\ SOFTWARE\Microsoft\Office Server\15.0\Search\Setup\ProtocolHandlers\myfile

1. At the command prompt, do the following:

Type the following command, and then run it.

net stop osearch15

Type the following command, and then run it.

net start osearch15

1. On the Search Administration page, click Content Sources, and then click New Content Source.
2. Specify a name for the content source, and in Content Source Type, click Custom Repository.
3. In Type of Repository, click myfile.
4. In Start Addresses, type the following:

myfile://FileServerName/FileShareName/

## Change log

| Version | Date |
| --- | --- |
| First version | July 16, 2012 |

## Related content

* [Search connector framework](http://msdn.microsoft.com/library/38560a3b-69c6-4a56-97ca-3625bbd5755e.aspx)
* [Enhancing the BDC Model File for Search](http://msdn.microsoft.com/library/3c67b1cf-5fca-4805-a1b5-c9ac1ff8aede.aspx)