Extracting Data from SAP ECC

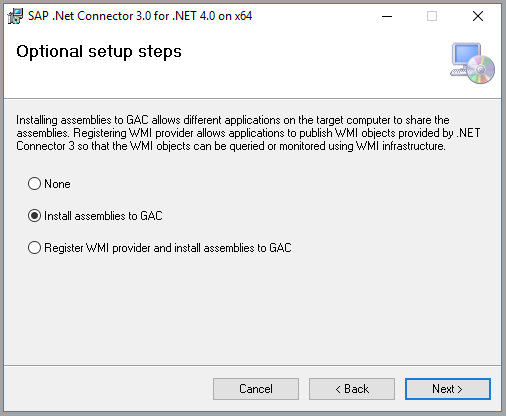
using Azure Data Factory Sap Table Connector

# Prerequisites:

1. Download the Private self-Hosted IR from [Here](https://wenbofdemo.blob.core.windows.net/sapselfir/saptablepreview/IntegrationRuntime_3.15.7004.17%20(64-bit).msi?st=2019-03-14T08%3A12%3A54Z&se=2019-04-15T08%3A12%3A00Z&sp=rl&sv=2017-07-29&sr=b&sig=MYsoAmBclWUbQVll09UsT7DG%2FvgUVYGO%2BGsskVYbK%2BM%3D)[[1]](#footnote-1)
2. Supported Version: SAP products on Netweaver version 7.01 or higher (in a recent SAP Support Package Stack released after the year 2015).
3. SAP user needs to have following permissions:
   1. Authorization for RFC and SAP BW.
   2. Permissions to the “Execute” Activity of Authorization Object “S\_SDSAUTH”.
4. [download the SAP .NET Connector 3.0](https://support.sap.com/en/product/connectors/msnet.html)  from SAP’s website using the following link. Please use the 64-bit one since our self-hosted IR only has 64 bit.

[SAP .NET Connector 3.0](https://support.sap.com/en/product/connectors/msnet.html)

1. Install the Sap .NET Connector 3.0 on the same machine as where the self-hosted IR is installed. When installing, in the optional setup steps window, please make sure you select the Install Assemblies to GAC option as shown in the following image.



# Private Entry URL of ADF Portal for SapTable Preview

Go to Author & Monitor of the Data Factory, append the flag as below into the url of the ADF authoring page.

&feature.saptable=true

//the URl will look like below:

https://ms-adf.azure.com/authoring/pipeline/pipeline1?factory=%2Fsubscriptions%<xxxxxxxx>%2FresourceGroups%2F<xxxxxxx>%2Fproviders%2FMicrosoft.DataFactory%2Ffactories%2F<xxxxxx>&feature.saptable=true

# Payload Definition:

**SapTable Linked service Properties**

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **Required** |
| type | The type property must be set to SapTable. | Yes |
| server | Name of the server on which the SAP instance resides. | Yes |
| systemNumber | System number of the SAP system. Allowed value: two-digit decimal number represented as a string. | Yes |
| clientId | Client number of the system. Allowed value: three-digit decimal number represented as a string. | Yes |
| language | Language that the system uses. By default, it is EN for English. | No |
| userName | The user name used in Basic authentication type. | Yes |
| password | The password used in Basic authentication type. | Yes |
| connectVia | The [Integration Runtime](https://docs.microsoft.com/en-us/azure/data-factory/concepts-integration-runtime) to be used to connect to the data store.  A self-hosted Integration Runtime is required for this connector. | Yes |

**SapTableResource Dataset Properties**

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **Required** |
| type | The type property must be set to SapTableResource. | Yes |
| tableName | The name of the SAP Table. | Yes |

**SapTableSource Properties**

|  |  |  |
| --- | --- | --- |
| **Property** | **Description** | **Required** |
| type | The type property must be set to SapTableSource. | Yes |
| rowCount | The number of rows to be retrieved. | No |
| rowSkips | The number of rows that will be skipped. | No |
| rfcTableFields | The fields of the SAP table that will be retrieved. For example, “column0, column1”. | No |
| rfcTableOptions | The options for the filtering of the SAP Table. For example, “COLUMN0 EQ ‘SOME VALUE’” | No |

1. Last versions of IR: [Version0](https://wenbofdemo.blob.core.windows.net/sapselfir/IntegrationRuntime_3.15.6995.1%20(64-bit).msi?st=2019-03-05T06%3A36%3A05Z&se=2019-04-04T06%3A36%3A00Z&sp=rl&sv=2017-07-29&sr=b&sig=ZF4X9bNWq0l5AFEe9Xl1IAs0iUmerojDayDimyWjjB0%3D), [Version1](https://wenbofdemo.blob.core.windows.net/sapselfir/saptablewithbatch0307/IntegrationRuntime_3.15.6997.10%20(64-bit).msi?st=2019-03-07T07%3A46%3A42Z&se=2019-03-08T07%3A46%3A42Z&sp=rl&sv=2017-07-29&sr=b&sig=gW9cR7auqTFChFwYtgwgr4bHCPfDcT6%2FvJyjZ901d9U%3D), [Version2](https://wenbofdemo.blob.core.windows.net/sapselfir/saptablewithbatch0307/IntegrationRuntime_3.15.6998.6%20(64-bit).msi?st=2019-03-07T13%3A52%3A23Z&se=2019-04-01T13%3A52%3A00Z&sp=rl&sv=2017-07-29&sr=b&sig=G490uno8phdjPYrV%2Fj2rg%2FoWvUHfOEqlHTzOacXVHfE%3D)，[Version3](https://wenbofdemo.blob.core.windows.net/sapselfir/saptablepreview/IntegrationRuntime_3.15.7003.2%20(64-bit).msi?st=2019-03-13T02%3A57%3A48Z&se=2019-04-14T02%3A57%3A00Z&sp=rl&sv=2017-07-29&sr=b&sig=0Csh6shEr3%2BtrrQ%2F1MDryv445PMwILwaiA7NBfWWyXA%3D) [↑](#footnote-ref-1)