

PIPELINE 1

Go to the ADF studio and create your first pipeline name: Copy_ProductTable_To_CSV.

In the newly created SQL DB there is one built in SalesLT.Product table.

Copy the Product table data to CSV file in 'landing/CSV' folder in ADLS using the ADF.

Steps

Creating a Data Factory account

[Home](#) > [Data factories](#) >

Create Data Factory

[Basics](#) [Git configuration](#) [Networking](#) [Advanced](#) [Tags](#) [Review + create](#)

One-click to create data factory with sample pipeline and datasets. [Try it](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *	<div>Free Trial</div>
Resource group *	<div>Azurelib</div> <div>Create new</div>

Instance details

Name *	<div>mission100rajasekhar04061998df</div>
Region *	<div>East US</div>
Version *	<div>V2</div>


[Review + create](#)

[< Previous](#)

[Next : Git configuration >](#)

Creating a Linked Service for SQL DB

New linked service

 Azure SQL Database [Learn more](#)

Name *	<div>Prod_info_SqlDatabase_LS</div>
--------	-------------------------------------

Description	<div>This Product info LS connecting to Sql DB</div>
-------------	--

Connect via integration runtime *	<div>AutoResolveIntegrationRuntime</div>
-----------------------------------	--

[Connection string](#)

[Azure Key Vault](#)

Account selection method

☒ From Azure subscription ☐ Enter manually

Azure subscription	<div>Free Trial (9d08a9ab-590f-4cf4-aeaa-21721734f847)</div>
Server name *	<div>azurelibdatabaseserver12</div>
Database name *	<div>mission100rajasekhar04061998db</div>

Authentication type *	<div>SQL authentication</div>
-----------------------	-------------------------------

User name *

[Create](#)

[Back](#)

[Test connection](#)

[Cancel](#)

Creating a Linked service to connect with ADLS

New linked service
Azure Data Lake Storage Gen2 [Learn more](#)

Name *
Prod_info_Adls_LS

Description
This Product info ADLS connected to LS

Connect via integration runtime *
AutoResolveIntegrationRuntime

Authentication type
Account key

Account selection method
☒ From Azure subscription ☐ Enter manually

Azure subscription
Free Trial (9d08a9ab-590f-4cf4-aeaa-21721734f847)

Storage account name *
rajasekhar04061998adls1

Test connection
☒ To linked service ☐ To file path

Annotations

[Create](#) [Back](#) [Test connection](#) [Cancel](#)

Creating a Dataset to connect with SQL DB

Factory Resources
Filter resources by name
Pipelines 0
Change Data Capture (preview) 0
Datasets 0
Data flows 0
Power Query 0

New dataset
In pipeline activities and data flows, reference a dataset to specify the location and structure of your data within a data store. [Learn more](#)

Select a data store
database

All Azure Database File Generic protocol NoSQL Services and apps

Azure Database for MariaDB
Azure Database for MySQL
Azure Database for PostgreSQL
Azure SQL Database
Azure SQL Database Managed Instance

[Continue](#) [Cancel](#)

Setting up the properties of Dataset

Set properties

Name
Prod_info_Database_DS

Linked service *
Prod_info_SqlDatabase_LS

Table name
SalesLT.Product

☐ Edit

Import schema
☒ From connection/store ☐ None

OK Back Cancel

Creating a Dataset to connect with ADLS

Factory Resources

- Pipelines 0
- Change Data Capture (preview) 0
- Datasets 1**
 - Prod_info_Database_DS
- Data flows 0
- Power Query 0

Prod_info_Database_DS

Connection Schema Parameters

Linked service *
Prod_info_SqlDatabase_LS

Table
SalesLT.Product

New dataset

In pipeline activities and data flows, reference a dataset to specify the location and structure of your data within a data store. [Learn more](#)

Select a data store
stora

All Azure Database File Generic protocol NoSQL Services and apps









- Azure Blob Storage
- Azure Data Lake Storage Gen1
- Azure Data Lake Storage Gen2
- Azure File Storage
- Azure Table Storage
- Google Cloud Storage

Continue Cancel

Setting up the properties with CSV format

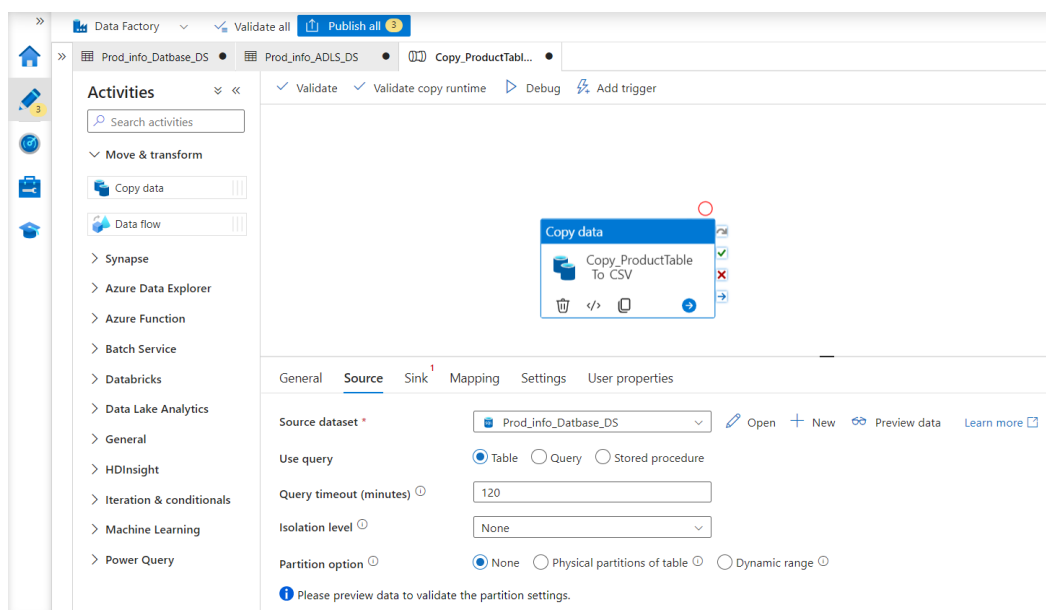
Select format

Choose the format type of your data

 Avro	 Binary	 DelimitedText
 Excel	 JSON	 ORC
 Parquet	 XML	

[Continue](#) [Back](#) [Cancel](#)

Providing Database_DS at the source level



The screenshot shows the Azure Data Factory (ADF) interface. The top navigation bar includes 'Data Factory', 'Validate all', and 'Publish all'. The left sidebar shows the 'Activities' pane with a search bar and a list of activities: 'Move & transform' (containing 'Copy data' and 'Data flow'), 'Synapse', 'Azure Data Explorer', 'Azure Function', 'Batch Service', 'Databricks', 'Data Lake Analytics', 'General', 'HDInsight', 'Iteration & conditionals', 'Machine Learning', and 'Power Query'.

The main workspace displays the 'Copy data' activity configuration. The activity is named 'Copy_ProductTable To CSV'. The configuration tabs are 'General', 'Source', 'Sink', 'Mapping', 'Settings', and 'User properties'. The 'Source' tab is active, showing the following settings:

- Source dataset:** 'Prod_info_Database_DS' (with links for 'Open', 'New', 'Preview data', and 'Learn more').
- Use query:** 'Table' (selected), 'Query', 'Stored procedure'.
- Query timeout (minutes):** '120'.
- Isolation level:** 'None'.
- Partition option:** 'None' (selected), 'Physical partitions of table', 'Dynamic range'.

A message at the bottom states: 'Please preview data to validate the partition settings.'

Providing ADLS_DS at the Sink level

The screenshot shows the Azure Data Factory (ADF) interface. The left sidebar contains the 'Activities' pane with a search bar and a list of activity categories: Move & transform, Data flow, Synapse, Azure Data Explorer, Azure Function, Batch Service, Databricks, Data Lake Analytics, General, HDInsight, Iteration & conditionals, Machine Learning, and Power Query. The main workspace displays the 'Copy data' activity configuration. The 'Sink' tab is selected, showing the 'Sink dataset' as 'Prod_info_ADLS_DS', 'Copy behavior' as 'None', 'Max concurrent connections' as an empty field, 'Block size (MB)' as an empty field, and 'Metadata' as '+ New'. The 'Copy data' activity is also visible in the 'Activities' pane.

Triggering the activity

The screenshot shows the Azure Data Factory (ADF) interface. The left sidebar contains the 'Activities' pane with a search bar and a list of activity categories: Move & transform, Data flow, Synapse, Azure Data Explorer, Azure Function, Batch Service, Databricks, Data Lake Analytics, General, HDInsight, Iteration & conditionals, Machine Learning, and Power Query. The main workspace displays the 'Copy data' activity configuration. The 'Output' tab is selected, showing the 'Pipeline run ID' as '211aac22-baf0-4bef-8161-d5dab81c7dbd'. Below the 'Pipeline run ID', there is a table showing the activity status.

Activity name	Status	Activity type	Run start	Duration	Log
Copy_ProductTable_To_CSV	✓ Succeeded	Copy data	6/29/2023, 12:04:49 AM	7s	

The screenshot displays the Azure Data Factory (ADF) interface. On the left, the 'Activities' pane shows the 'Copy data' activity selected. The main canvas shows the 'Copy data' activity configuration, including the 'Copy_ProductTable To CSV' activity. The 'Output' tab is selected, showing the 'Pipeline run ID' and the status of the activity. The 'Publish all' dialog is open on the right, indicating that there are pending changes to be published to the live environment.

Activities

- Move & transform
 - Copy data
 - Data flow
- Synapse
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDInsight
- Iteration & conditionals
- Machine Learning
- Power Query

Copy data

Copy data

Copy_ProductTable To CSV

Parameters Variables Settings Output

Pipeline run ID: 211aac22-baf0-4bef-8161-d5dab81c7dbd

All status

Showing 1 - 1 of 1 items

Activity name	Status	Activity type	Run start
Copy_ProductTable_To_CSV	Succeeded	Copy data	6/29/2023, 12:04:41

Publish all

You are about to publish all pending changes to the live environment. [Learn more](#)

Pending changes (3)

NAME	CHANGE	EXISTING
Copy_ProductTable_To_CSV (New)		-
Prod_info_Database_DS (New)		-
Prod_info_ADLS_DS (New)		-

Publish **Cancel**

Details Refresh

[Learn more on copy performance details from here.](#)

Activity run id: 9e9e479e-ea99-4ad1-891f-798f96b9c9b8

Source: Azure SQL Database Region: East US	Destination: Azure Data Lake Storage Gen2 Region: East US
<p>Data read: 718.773 KB</p> <p>Rows read: 295</p> <p>Peak connections: 1</p>	<p>Data written: 1.358 MB</p> <p>Files written: 1</p> <p>Rows written: 295</p> <p>Peak connections: 1</p>

Copy duration: 00:00:05
Throughput: 718.773 KB/s

▼ Azure SQL Database → Azure Data Lake Storage Gen2

Details	Working duration	Total duration
Queue		00:00:03

[Home](#) > [rajasekhara04061998adsl1_1687975431129 | Overview](#) > [rajasekhara04061998adsl1 | Containers](#) > [landing](#) >

landing

Container

Upload Add Directory

- Overview**
- Diagnose and solve problems
- Access Control (IAM)

Settings

- Shared access tokens
- Manage ACL
- Access policy
- Properties
- Metadata

Authentication method: Access key ([Switch to Azure AD User Account](#))

Location: [landing](#) / [CSV](#)

Search blobs by prefix (case-insensitive)

☒ Show deleted objects

Name
<input checked="" type="checkbox"/> SalesLT.Product.txt ...

SalesLT.Product.txt

Blob

Save
Discard
Download
Refresh
Delete

Overview
Versions
Edit
Generate SAS

```

278 981,"Mountain-400-u Silver, 40","BK-M385-40","Silver",419.7784,769.4900,"40",12142.60,5,22,2007-07-01 00:00:00.0000000,,ox4749463839615
279 982,"Mountain-400-u Silver, 42","BK-M385-42","Silver",419.7784,769.4900,"42",12305.90,5,22,2007-07-01 00:00:00.0000000,,ox4749463839615
280 983,"Mountain-400-u Silver, 46","BK-M385-46","Silver",419.7784,769.4900,"46",12437.44,5,22,2007-07-01 00:00:00.0000000,,ox4749463839615
281 984,"Mountain-500 Silver, 40","BK-M185-40","Silver",308.2179,564.9900,"40",12405.69,5,23,2007-07-01 00:00:00.0000000,,ox4749463839615
282 985,"Mountain-500 Silver, 42","BK-M185-42","Silver",308.2179,564.9900,"42",12596.19,5,23,2007-07-01 00:00:00.0000000,,ox4749463839615
283 986,"Mountain-500 Silver, 44","BK-M185-44","Silver",308.2179,564.9900,"44",12759.49,5,23,2007-07-01 00:00:00.0000000,,ox4749463839615
284 987,"Mountain-500 Silver, 48","BK-M185-48","Silver",308.2179,564.9900,"48",12891.03,5,23,2007-07-01 00:00:00.0000000,,ox4749463839615
285 988,"Mountain-500 Silver, 52","BK-M185-52","Silver",308.2179,564.9900,"52",13008.96,5,23,2007-07-01 00:00:00.0000000,,ox4749463839615
286 989,"Mountain-500 Black, 40","BK-M188-40","Black",294.5797,539.9900,"40",12405.69,5,23,2007-07-01 00:00:00.0000000,,ox4749463839615
287 990,"Mountain-500 Black, 42","BK-M188-42","Black",294.5797,539.9900,"42",12596.19,5,23,2007-07-01 00:00:00.0000000,,ox4749463839615
288 991,"Mountain-500 Black, 44","BK-M188-44","Black",294.5797,539.9900,"44",12759.49,5,23,2007-07-01 00:00:00.0000000,,ox4749463839615
289 992,"Mountain-500 Black, 48","BK-M188-48","Black",294.5797,539.9900,"48",12891.03,5,23,2007-07-01 00:00:00.0000000,,ox4749463839615
290 993,"Mountain-500 Black, 52","BK-M188-52","Black",294.5797,539.9900,"52",13008.96,5,23,2007-07-01 00:00:00.0000000,,ox4749463839615
291 994,"LL bottom Bracket", "BB-7421", ,23.9716,53.9900,223.00,9,95,2007-07-01 00:00:00.0000000,,ox4749463839615
292 995,"HL bottom Bracket", "BB-8107", ,44.9506,101.2400,168.00,9,96,2007-07-01 00:00:00.0000000,,ox4749463839615
293 996,"HL bottom Bracket", "BB-9108", ,53.9416,121.4900,170.00,9,97,2007-07-01 00:00:00.0000000,,ox4749463839615
294 997,"Road-750 Black, 44", "BK-R198-44", "Black",343.6496,539.9900,"44",8967.47,6,31,2007-07-01 00:00:00.0000000,,ox4749463839615
295 998,"Road-750 Black, 48", "BK-R198-48", "Black",343.6496,539.9900,"48",9130.77,6,31,2007-07-01 00:00:00.0000000,,ox4749463839615
296 999,"Road-750 Black, 52", "BK-R198-52", "Black",343.6496,539.9900,"52",9262.31,6,31,2007-07-01 00:00:00.0000000,,ox4749463839615
          
```

Text
Preview

PIPELINE 2

Create another pipeline name: Copy_Customer_To_JSON In the newly created SQL DB there is one built in SalesLT.Customer table.

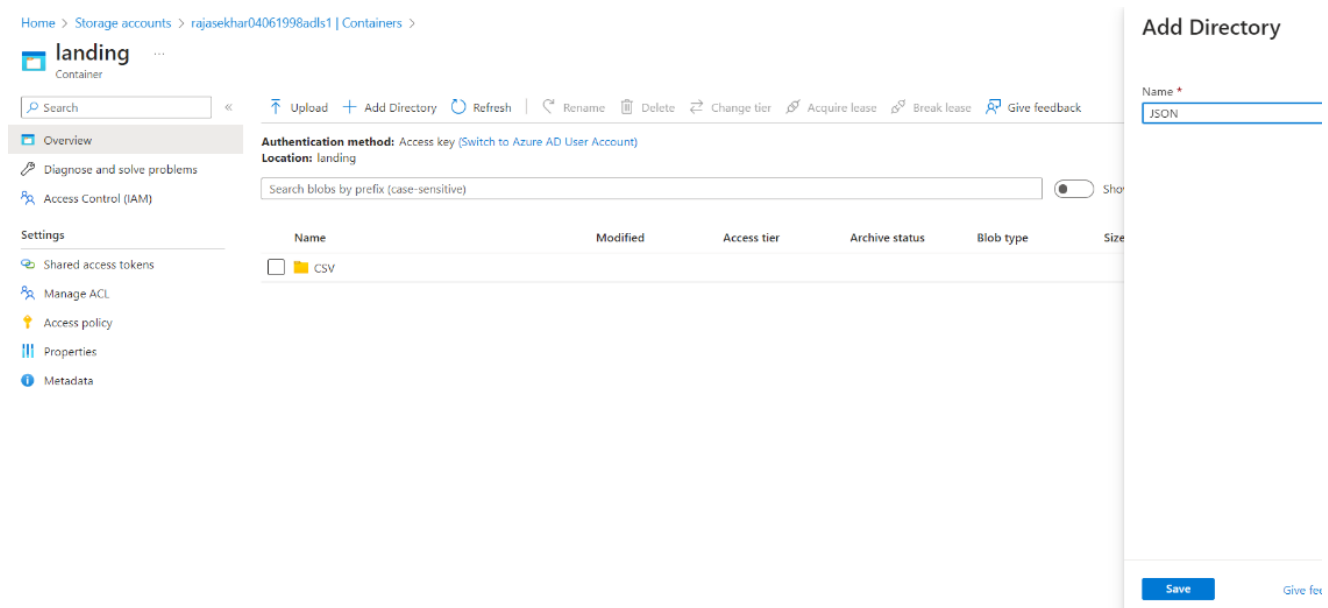
Copy the Customer table data to JSON file in 'landing/JSON' folder in ADLS using the ADF.

Hint: During the dataset creation step instead of choosing the file type CSV choose JSON

Note: I'm Not created Linked service again as I already created in Pipeline1.

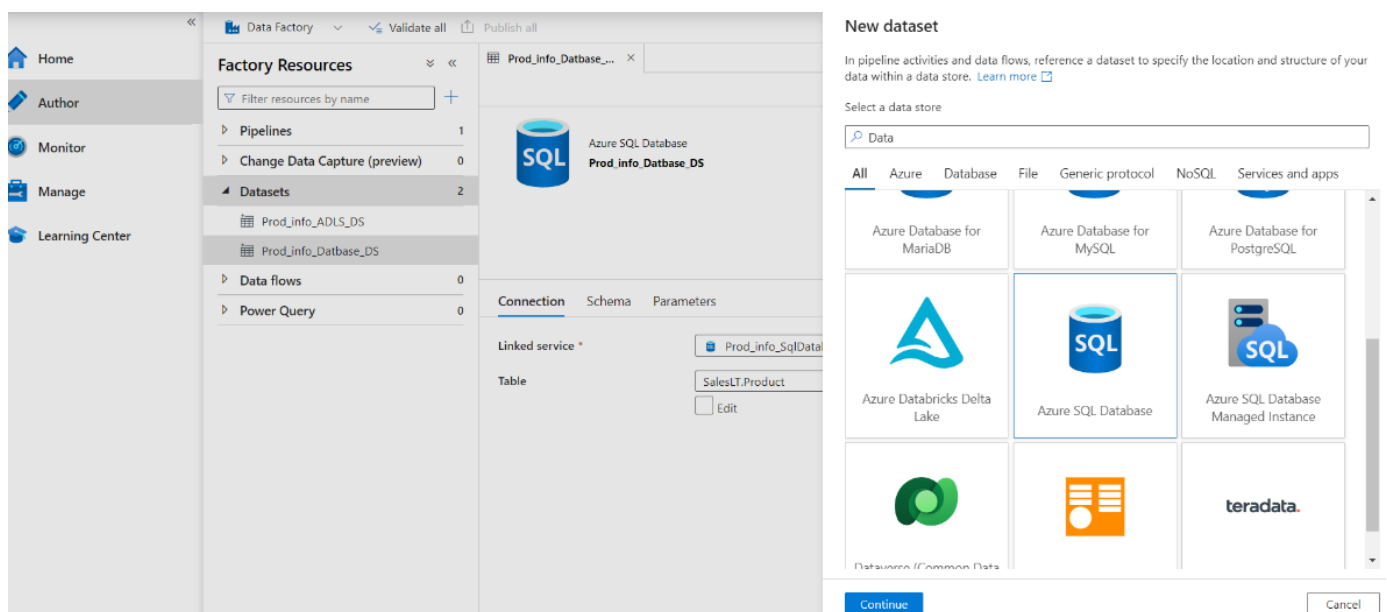
Steps:

Adding JSON Folder in landing Root Directory in ADLS account



The screenshot shows the Azure Storage Explorer interface for the 'landing' container. The 'Add Directory' dialog is open, with 'JSON' entered in the 'Name' field. The main interface shows the 'landing' container with a search bar and a list of blobs, including a 'CSV' file.

Creating SQL Dataset Service for connecting LS



The screenshot shows the Azure Data Factory 'New dataset' dialog. The 'Data' tab is selected, and the 'Azure SQL Database' option is chosen. The 'Prod_info_Database_DS' dataset is selected. The 'Connection' tab is active, showing the 'Prod_info_SqlData' linked service and the 'SalesLT.Product' table.

Home

Author

Monitor

Manage

Learning Center

Data Factory

Validate all

Publish all

Factory Resources

Filter resources by name

Pipelines1

Change Data Capture (preview)0

Datasets2

Prod_info_ADLS_DS

Prod_info_Database_DS

Data flows0

Power Query0

Prod_info_Database_DS

Azure SQL Database

Prod_info_Database_DS

ConnectionSchemaParameters

Linked service *Prod_info_SqlData

TableSalesLT.Product

Edit

Set properties

NameDB_LS

Linked service *Prod_info_SqlDatabase_LS

Table nameSalesLT.Customer

Edit

Import schema

From connection/store

None

OKBackCancel

Creating ADLS Dataset Service for connecting LS

Home

Author

Monitor

Manage

Learning Center

Data Factory

Validate all

Publish all

Factory Resources

Filter resources by name

Pipelines1

Change Data Capture (preview)0

Datasets3

DB_LS

Prod_info_ADLS_DS

Prod_info_Database_DS

Data flows0

Power Query0

Prod_info_Database_DS

Prod_info_Database_DS

DB_LS

ConnectionSchemaParameters

Linked service *Prod_info_SqlData

TableSalesLT.Customer

Edit

New dataset

In pipeline activities and data flows, reference a dataset to specify the location and structure of your data within a data store. Learn more

Select a data store

storage

AllAzureDatabaseFileGeneric protocolNoSQLServices and apps

Azure Blob Storage

Azure Data Lake Storage Gen1

Azure Data Lake Storage Gen2

Azure File Storage

Azure Table Storage

Google Cloud Storage

ContinueCancel

Selecting JSON Type

Home

Author

Monitor

Manage

Learning Center

Data Factory

Validate all

Publish all

Factory Resources

Filter resources by name

Pipelines1

Change Data Capture (preview)0

Datasets3

DB_LS

Prod_info_ADLS_DS

Prod_info_Database_DS

Data flows0

Power Query0

Prod_info_Database_DS

Prod_info_Database_DS

DB_LS

ConnectionSchemaParameters

Linked service *Prod_info_SqlData

TableSalesLT.Customer

Edit

Select format

Choose the format type of your data

Avro

Binary

DelimitedText

Excel

JSON

ORC

Parquet

XML

ContinueBackCancel

Setting up File Path Landing/JSON in ADLS Dataset

The screenshot shows the 'Set properties' dialog for the ADLS_DS dataset in Azure Data Factory. The 'Name' field is 'ADLS_DS'. The 'Linked service' is 'Prod_info_Adls_LS'. The 'File path' is 'landing / JSON / File name'. The 'Import schema' section has 'From connection/store' selected. The 'Connection' tab is active, showing the linked service 'Prod_info_SqlData' and the table 'SalesLT.Customer'. The 'OK', 'Back', and 'Cancel' buttons are at the bottom.

Checking the Activity and Copy

The screenshot shows the 'Copy data' activity configuration in Azure Data Factory. The 'Source dataset' is 'DB_DS'. The 'Use query' option is selected. The 'Query timeout (minutes)' is 120. The 'Isolation level' is 'None'. The 'Partition option' is 'None'. A message at the bottom says 'Please preview data to validate the partition settings.' The 'Sink' tab is active, showing the 'Copy data' activity icon and the 'Copy_Customer_To_JSON' dataset.

Publishing all files

Publishing 3

Prod_info_Database_DSDB_DSADLS_DS

Activities

Search activities

Move & transform

Copy data

Data flow

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

Power Query

ValidateValidate copy runtimeDebug

Copy data

Copy_Customer_To_JSON

GeneralSourceSinkMappingSettings

Name *Copy_Customer_To_JSON

Description

Activity state (preview) [ⓘ]☒ Active☐ Inactive

Timeout [ⓘ]0.12:00:00

Retry [ⓘ]0

Publish all

You are about to publish all pending changes to the live environment. [Learn more](#)

Pending changes (3)

NAME	CHANGE	EXISTING
Pipelines		
Copy_Customer_to_JSON	(New)	-
Datasets		
DB_DS	(New)	-
ADLS_DS	(New)	-

Publish

Cancel

Triggering the copy data

Prod_info_Database_DSDB_DSADLS_DS

Copy_Customer_to...

Activities

Search activities

Move & transform

Copy data

Data flow

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

Power Query

ValidateDebugAdd trigger

Copy data

Copy_Customer_To_JSON

ParametersVariablesSettingsOutput

Pipeline run ID: 489687c0-c733-499e-8c9c-d0ee5a6d3e18 [Ⓜ] [🔄] [ⓘ] [View debug](#)

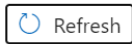
All status [⌵]

Showing 1 - 1 of 1 items

Activity name ^{↑↓}	Status ^{↑↓}	Activity type ^{↑↓}	Run start ^{↑↓}	Duration ^{↑↓}	Log
Copy_Customer_To_JSON	✔ Succeeded	Copy data	6/29/2023, 9:23:34 AM	7s	

Conversion of Data SQL DB to ADLS, Rows checking

Details



Azure SQL Database
Region: East US

Succeeded



Azure Data Lake Storage Gen2
Region: East US

Data read: ⓘ	278.379 KB
Rows read:	847
Peak connections: ⓘ	1

Data written:	①	377.467 KB
Files written:	①	1
Rows written:	①	847
Peak connections:	①	1

Copy duration	00:00:05
Throughput: ①	278.379 KB/s

- ▼ Azure SQL Database → Azure Data Lake Storage Gen2

Start time	6/29/2023, 9:23:34 AM
Used DIUs ⓘ	4
Used parallel copies ⓘ	1
▼ Duration	00:00:05

Details	Working duration	Total duration
Queue		00:00:03
Transfer	Time to first byte	00:00:01
	Reading from source	
	Writing to sink	

Finally Checking the JSON data in ADLS

Home > Storage accounts > rajasekhar04061998adbs1 > Containers > landing >

landing

Container

Search

UploadAdd Directory...

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Manage ACL

Access policy

Properties

Metadata

Authentication method: Access key (Switch to Azure AD User Account)

Location: landing / JSON

Search blobs by prefix (case-...)

Show deleted objects

Name	
<input type="checkbox"/>	[-]
<input checked="" type="checkbox"/>	SalesLT.Customer.json

JSON/SalesLT.Customer.json

Blob

Save

Discard

Download

Refresh

Delete

Overview

Versions

Edit

Generate SAS

```
1 {"CustomerID":1,"NameStyle":false,"Title":"Mr.,","FirstName":"Orlando","MiddleName":"N.,","LastName":"Gee","Suff
2 {"CustomerID":2,"NameStyle":false,"Title":"Mr.,","FirstName":"Keith","MiddleName":null,"LastName":"Harris","Suff
3 {"CustomerID":3,"NameStyle":false,"Title":"Ms.,","FirstName":"Donna","MiddleName":"F.,","LastName":"Carreras","Suff
4 {"CustomerID":4,"NameStyle":false,"Title":"Ms.,","FirstName":"Janet","MiddleName":"M.,","LastName":"Gates","Suff
5 {"CustomerID":5,"NameStyle":false,"Title":"Mr.,","FirstName":"Lucy","MiddleName":null,"LastName":"Harrington","Suff
6 {"CustomerID":6,"NameStyle":false,"Title":"Ms.,","FirstName":"Rosmarie","MiddleName":"J.,","LastName":"Carroll","Suff
7 {"CustomerID":7,"NameStyle":false,"Title":"Mr.,","FirstName":"Dominic","MiddleName":"P.,","LastName":"Gash","Suff
8 {"CustomerID":10,"NameStyle":false,"Title":"Ms.,","FirstName":"Kathleen","MiddleName":"M.,","LastName":"Garza","Suff
9 {"CustomerID":11,"NameStyle":false,"Title":"Ms.,","FirstName":"Katherine","MiddleName":null,"LastName":"Harding
10 {"CustomerID":12,"NameStyle":false,"Title":"Mr.,","FirstName":"Johnny","MiddleName":"A.,","LastName":"Caprio","Suff
11 {"CustomerID":16,"NameStyle":false,"Title":"Mr.,","FirstName":"Christopher","MiddleName":"R.,","LastName":"Beck
12 {"CustomerID":18,"NameStyle":false,"Title":"Mr.,","FirstName":"David","MiddleName":"J.,","LastName":"Liu","Suff
13 {"CustomerID":19,"NameStyle":false,"Title":"Mr.,","FirstName":"John","MiddleName":"A.,","LastName":"Beaver","Suff
14 {"CustomerID":20,"NameStyle":false,"Title":"Ms.,","FirstName":"Jean","MiddleName":"P.,","LastName":"Handley","Suff
15 {"CustomerID":21,"NameStyle":false,"Title":null,"FirstName":"Jinghao","MiddleName":null,"LastName":"Liu","Suff
16 {"CustomerID":22,"NameStyle":false,"Title":"Ms.,","FirstName":"Linda","MiddleName":"E.,","LastName":"Burnett","Suff
17 {"CustomerID":23,"NameStyle":false,"Title":"Mr.,","FirstName":"Kerin","MiddleName":null,"LastName":"Hanif","Suff
18 {"CustomerID":24,"NameStyle":false,"Title":"Mr.,","FirstName":"Kevin","MiddleName":null,"LastName":"Liu","Suff
19 {"CustomerID":25,"NameStyle":false,"Title":"Mr.,","FirstName":"Donald","MiddleName":"L.,","LastName":"Blanton","Suff
```

Json

Preview

PIPELINE-3

Note :- Linked services are created already

Note :- Here I have used Products data

Connecting Products table with Dataset in ADLS

The screenshot shows the Azure Data Factory 'Prod_info_ADLS_DS' pipeline configuration. The left sidebar lists 'Factory Resources' including Pipelines (4) and Datasets (7). The 'Prod_info_ADLS_DS' dataset is selected. The main panel shows the 'Connection' tab with the following settings:

- Linked service:** Prod_info_Adls_LS (Connection successful)
- File path:** landing / CSV (File name)
- Compression type:** None
- Column delimiter:** Comma (,)
- Row delimiter:** Default (\r\n, or \r\n)
- Encoding:** Default(UTF-8)
- Quote character:** Double quote (")

Connecting Products table with Dataset in ADLS

The screenshot shows the Azure Data Factory 'Prod_info_ADLS_DS2' pipeline configuration. The left sidebar lists 'Factory Resources' including Pipelines (4) and Datasets (7). The 'Prod_info_ADLS_DS2' dataset is selected. The main panel shows the 'Connection' tab with the following settings:

- Linked service:** Prod_info_Adls_LS (Connection successful)
- File path:** landing / CSV2 (File name)
- Compression type:** None
- Column delimiter:** Comma (,)
- Row delimiter:** Default (\r\n, or \r\n)
- Encoding:** Default(UTF-8)
- Quote character:** Double quote (")

Pipeline Execution and Debugging

The screenshot displays the Azure Data Factory (ADF) console. On the left, the 'Factory Resources' pane shows a tree view with 'Pipelines' and 'Datasets'. The 'Copy_Customer_JSON_To_Folder' pipeline is selected. The main pane shows the 'Copy data' activity configuration. The 'Source dataset' is 'Prod_info_ADLS_DS'. The 'File path type' is 'File path in dataset'. The 'Wildcard paths' are 'landing / CSV / *.txt'. The 'Start time (UTC)' and 'End time (UTC)' fields are empty. The 'Filter by last modified' checkbox is checked. The 'Recursively' checkbox is checked. The 'Enable partition discovery' checkbox is unchecked.

Checking the Products Data in ADLS “CSV2” Directory

The screenshot shows the Azure Storage Explorer interface. The left pane displays the 'landing' container. The right pane shows the 'CSV2/SalesLT.Product.txt' file. The file is a CSV file containing product data. The file is selected, and the 'Edit' tab is active, showing the CSV content. The CSV content is a table with columns: ProductID, Name, ProductNumber, Color, StandardCost, ListPrice, Size, Weight, ProductCategoryID, ProductModelID, SellStartDate, and SellEndDate. The table contains 19 rows of data.

PIPELINE-4

Note :- Linked Services are created already

Customer data connected to ADLS with Column delimiter “|”

The screenshot shows the Azure Data Factory (ADF) interface. On the left, the 'Factory Resources' pane is expanded to 'Datasets', where 'Cust_data_ADLS_DS' is selected. The main pane displays the configuration for this dataset, which is a 'DelimitedText' type. The 'Connection' tab is active, showing the 'Linked service' as 'Prod_info_Adls_LS' with a 'Connection successful' status. The 'File path' is configured as 'landing / CSV_Pipe / File name'. Other settings include 'Compression type' as 'None', 'Column delimiter' as 'Pipe (|)', 'Row delimiter' as 'Default (\r\n, or \r\n)', 'Encoding' as 'Default(UTF-8)', and 'Quote character' as 'Double quote (")'.

Customer data connected to SQL DB

The screenshot shows the Azure Data Factory (ADF) interface. On the left, the 'Factory Resources' pane is expanded to 'Datasets', where 'Cust_data_SQL_DS' is selected. The main pane displays the configuration for this dataset, which is an 'Azure SQL Database' type. The 'Connection' tab is active, showing the 'Linked service' as 'Prod_info_SqlDatabase_LS' with a 'Connection successful' status. The 'Table' is configured as 'SalesLT.Customer'. There is an 'Edit' checkbox below the table name. Other settings include 'Refresh' and 'Preview data' buttons.

Executing and Debugging the Pipeline

The screenshot displays the Azure Data Factory (ADF) console. On the left, the 'Factory Resources' pane shows a hierarchy: Pipelines (3 items), Datasets (10 items), Data flows (0 items), and Power Query (0 items). The 'Copy_Customer_To_CSV_Pipe' pipeline is selected. The main canvas shows the pipeline's visual representation with a 'Copy data' activity. Below the canvas, the 'Output' tab is active, displaying the 'Pipeline run ID: 5fe4bfab-30eb-4e4f-8906-47159bcfa277'. A table below shows the execution status of the 'Copy_Customer_To_CSV_Pipe' activity, which is 'Succeeded'.

Activity name	Status	Activity type	Run start	Duration
Copy_Customer_To_CSV_Pipe	Succeeded	Copy data	6/29/2023, 5:13:35 PM	7s

Checking the Customer Data in ADLS Storage

The screenshot shows the Azure Storage Explorer interface. The left pane displays the 'landing' container. The right pane shows the 'CSV_Pipe/SalesLT.Customer.txt' blob. The blob's content is displayed as a text file, showing a list of customer records with columns: CustomerID, NameStyle, Title, FirstName, MiddleName, LastName, Suffix, CompanyName, SalesPerson, EmailAddress, and Phone. The data is presented as a CSV file with 24 rows of customer information.