# **Azure Data Factory**

# Lab: Trigger a pipeline using storage event trigger

#### **Pre-requisites:**

- Azure Pass subscription
- Azure Data Lake Storage Gen2 storage account
- Azure SQL Database

#### **Lab Objective:**

#### After completing this lab, you will be able to:

- Create the trigger in Azure Data Factory.
- Create use the triggers in the pipeline

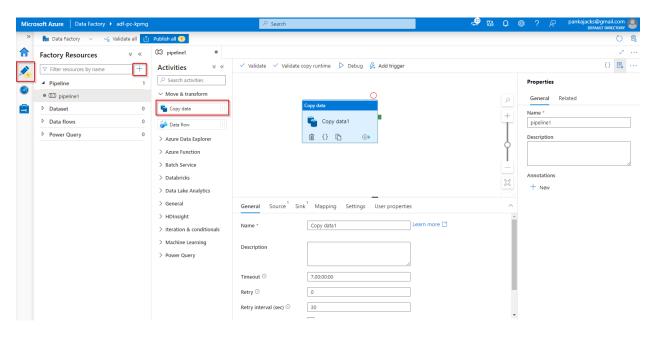
# Exercise 1: Create a trigger to execute the pipeline based on storage event.

#### The main task for this exercise are as follows:

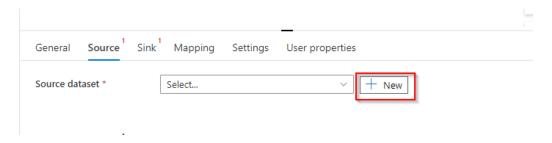
- Create a copy activity to copy data.
- Create a storage event trigger to run the pipeline.

#### Task 1: Create a copy activity to copy data

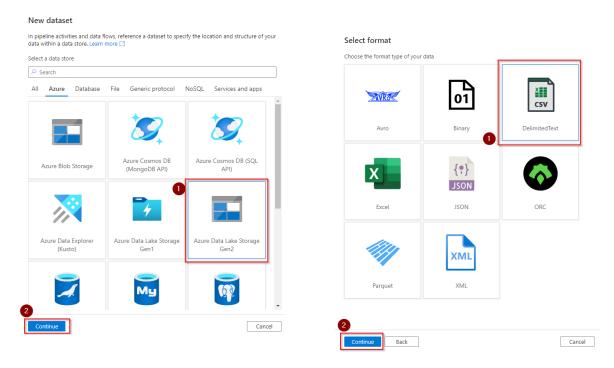
- 1. Open data factory adfxx.
- 2. **Open the authoring canvas** in ADF homepage, click on the **pencil icon** on the left sidebar and select the **+ pipeline button** to open the authoring canvas and create a pipeline.
- 3. Add a copy activity In the Activities pane, open the Move and Transform accordion and drag the Copy data activity onto the pipeline canvas.



4. Create a new Dataset

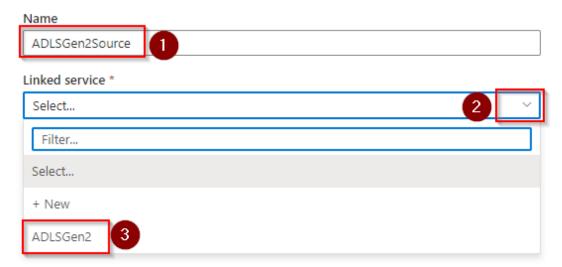


5. Select Azure Data Lake Storage Gen 2 and click continue and the select Delimited Text and continue

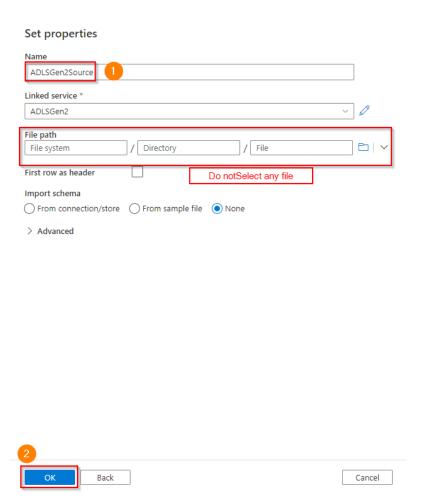


6. In set properties enter name ADLSGen2Source, Select Existing Linked service for the Storage account otherwise create a new.

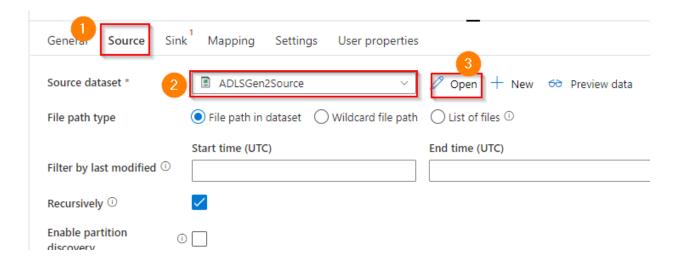
### Set properties

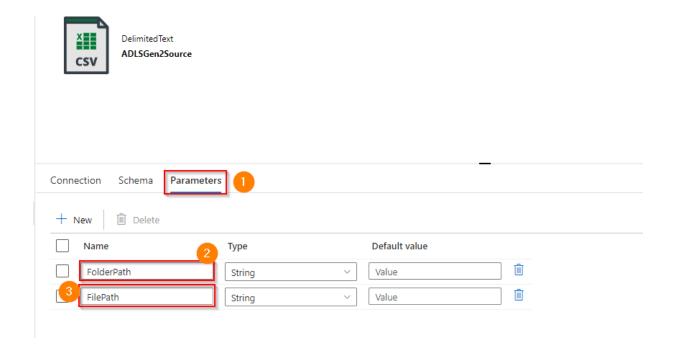


7. Do not select the folder path or any file.

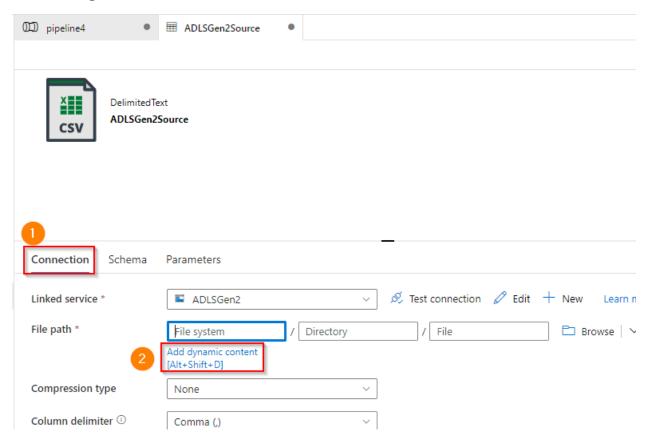


8. Open ADLSGen2Source and create two dataset parameters

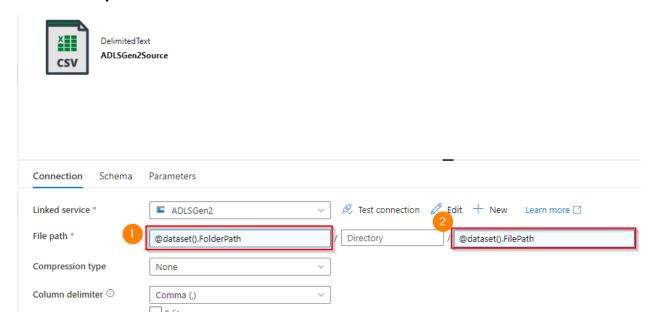




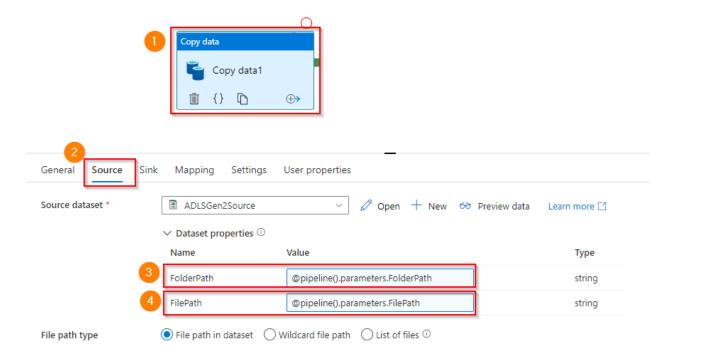
9. Under connection set the file path using add dynamic content as mention in the image below:



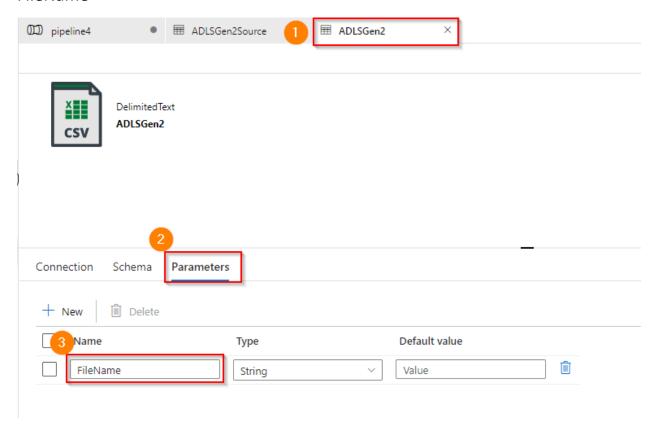
#### Set the file path as show below:



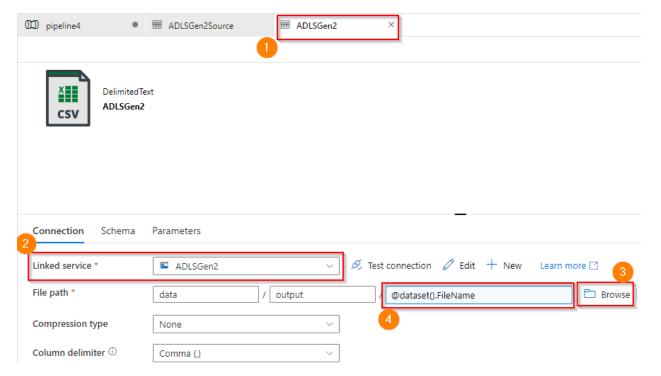
10. Select the copy activity, under source setting add dynamic content for Dataset properties using pipeline parameters.



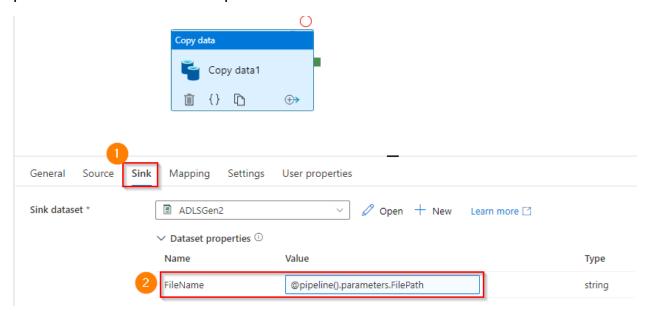
11. Create another dataset for sink of type ADLSGen2 and create the parameter FileName



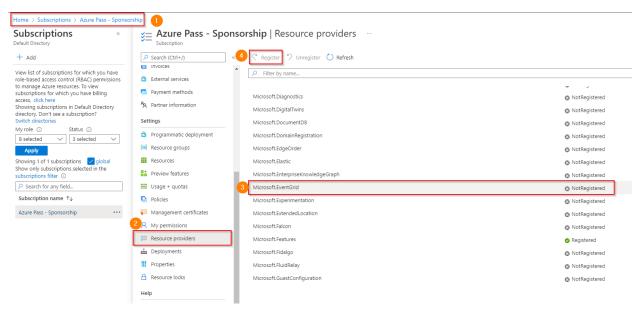
12. Under connection setting of sink dataset browse the file path **to data->output** and for the filename select **add dynamic content** and select the Filename @dataset parameter



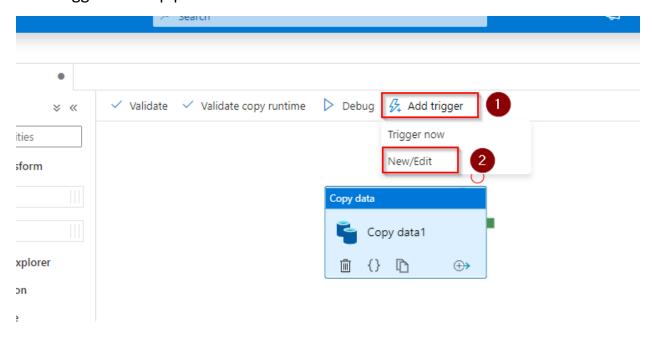
13. In the sink of copy activity add the sink data set and pass the pipeline parameter value to dataset parameter filename.



14. In Azure portal, enable the Microsoft.EventGrid Resource Provider from Azure Pass subscription as shown below.

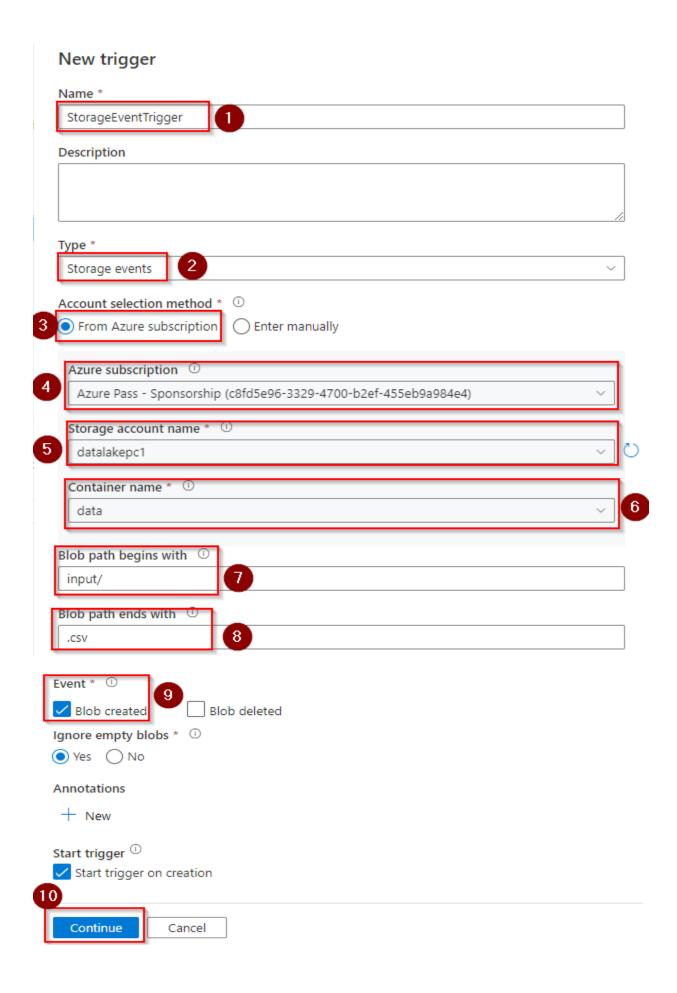


# 15. Add trigger to the pipeline:



## 16. Configure the Trigger as show below:





#### **Click Continue:**

#### Data preview



A Make sure you have specific filters. Configuring filters that are too broad can match a large number of files created/deleted and may significantly impact your cost.

#### **Event Trigger Filters** Container name: data Starts with: input/ Ends with: .csv 0 blobs matched in "data" Refresh Blob name < Previous 1 Next > Go to 0 - 0 of 0 items Continue Back Cancel

#### **Next initialize the following:**

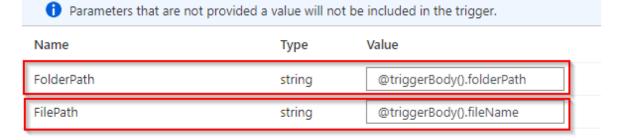
FolderPath: @triggerBody().folderPath

FilePath: @triggerBody().fileName

#### Then click OK and Publish the pipeline

## Edit trigger

Trigger Run Parameters



Make sure to "Publish" for trigger to be activated after clicking "OK"



Cancel

17. Create some dummy csv file and upload them from storage account, this will trigger the pipeline you can go to monitor hub under pipeline run you can see the pipeline is executing and you can also monitor the trigger run under monitor hub.

