

# Azure Data Factory Real Time Scenario Part 5

List of Files in Copy Activity File Path Property

## **Business Requirement**

- Suppose the data movement using copy activity happens with multiple files from source to sink.
- As per requirement as an Azure Data Engineer i have been assigned task by a Product
   Manager to move multiple files with different pattern matching like (123cities.csv,
- To carry out this particular task List of Files option in copy activity comes to work to move multiple files with different pattern from source to sink. It is similar to wildcard path option.
  - Here the only difference is that wildcard works to move multiple files with same pattern and List of File works to move multiple files with different pattern.

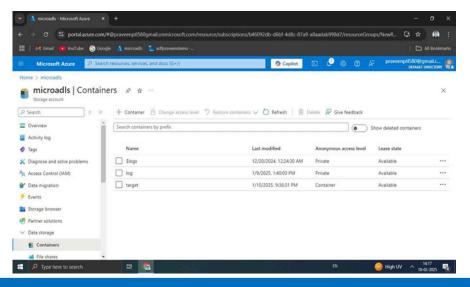
data120345.csv and username.csv) from source to sink.

 Further step by step you will get solid understanding to hands on implement List of Files in the simplest way.

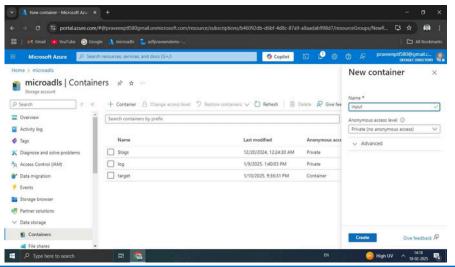
## Steps to Demonstrate List of Files in Copy Activity

Step 1

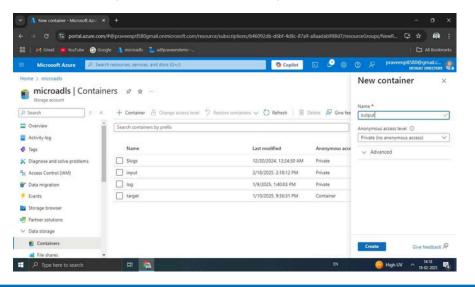
Open Azure Portal go to ADLS storage to create a new container.



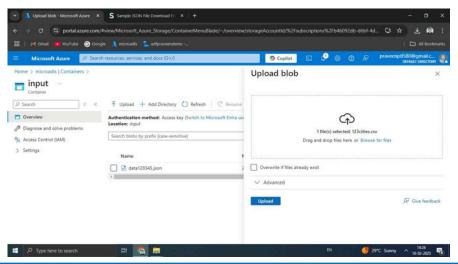
Go to container given under data storage section click on '+' container and create a new container to store multiple files of different pattern make it name input then click on create.



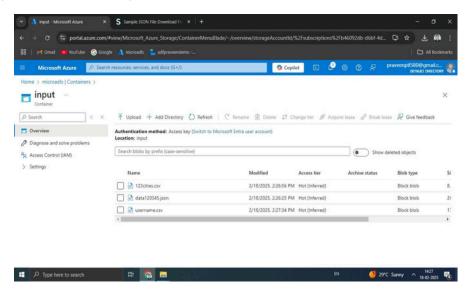
Again click on '+' container and create another new container make it name output to copy multiple files with different pattern from source (input container) then click on create.



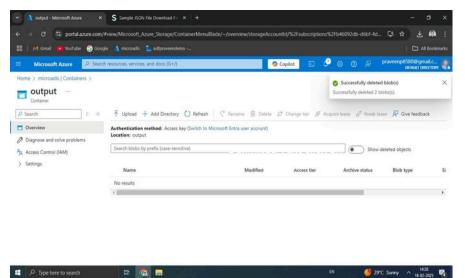
Download two .csv and one .json file from google in my computer rename it as 123cities, username for .csv file and data120345 for json file. Go to input container then click on upload and upload a new file 123cities.csv then click on upload.



## Similarly upload data120345.json and username.csv file.

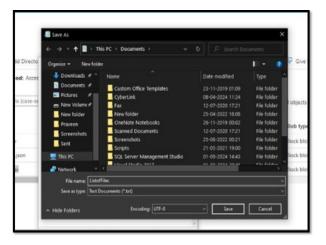


Keep output container remains empty we will copy all the files from input container here.

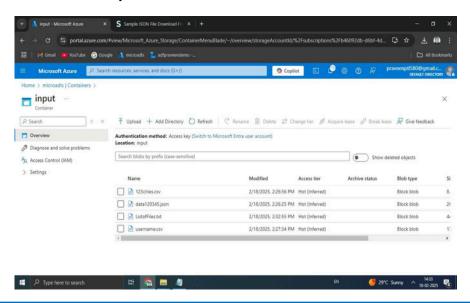


Open notepad and create a new metadata file name it as ListofFiles to store metadata 123cities.csv, data120345.json, username.csv. here.

123cities.csv data120345.json username.csv.

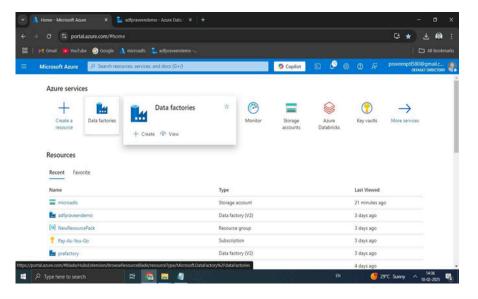


Go to input container and upload metadata text file ListofFiles.txt.

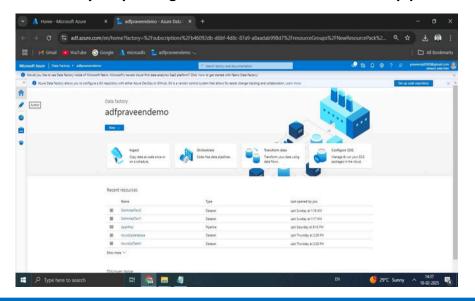




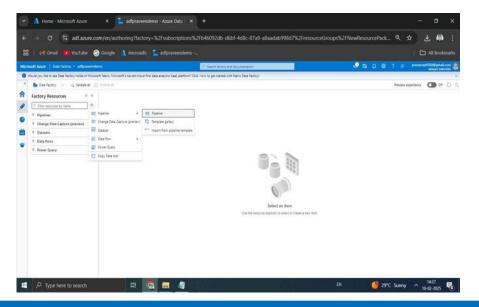
## Go back to Azure Portal and Open Azure Factory.



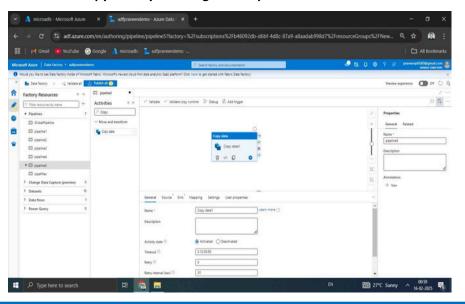
After Azure Data Factory is opened go to author tab to create a new pipeline.



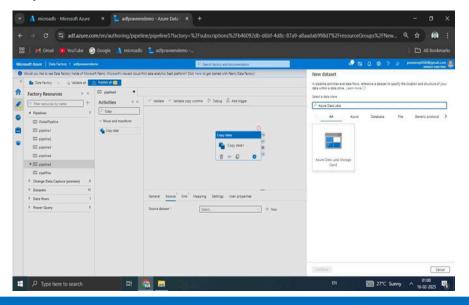
Click on '+' icon given near factory resources search bar and create a new pipeline.



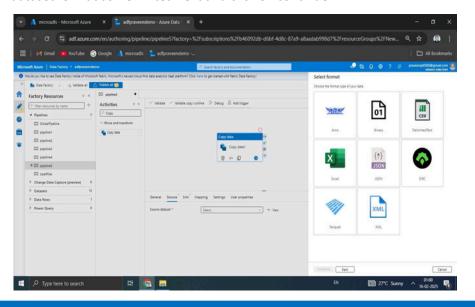
In activity search bar search copy activity and drag and drop it.



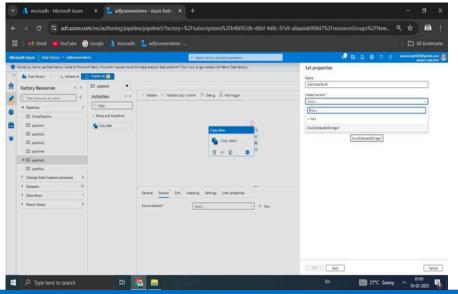
Go to Copy Activity source create a new source dataset for ADLS Gen2.



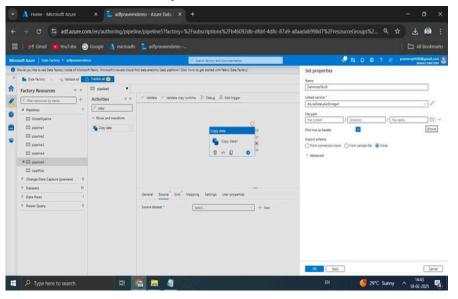
Select a new dataset format as Delimited Text and click on continue.



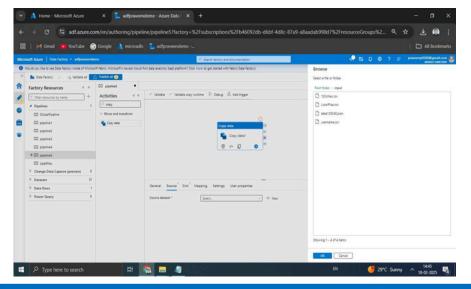
In set properties create a new linked service for ADLS Gen2 if you already created linked service then select it.



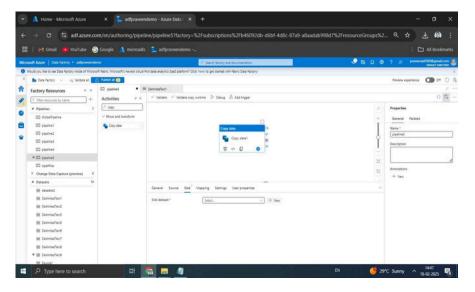
# Now on browse button to browse input container.



Go to input container don't select any file we have to copy all the files in output container then click on ok.

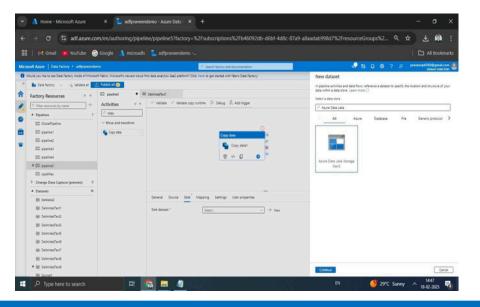


# Similarly go to copy activity sink create a new sink dataset.

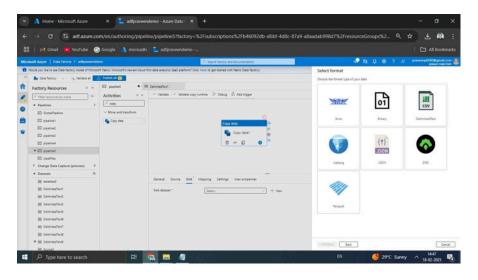




#### Search and select data store ADLS Gen2 for new sink dataset then click on continue

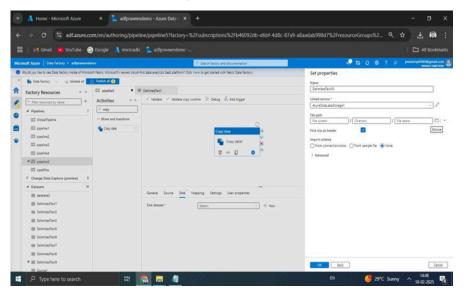


In dataset format select any format like that i select delimited text then click on continue.



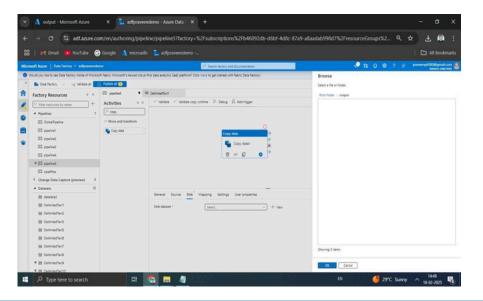


## Click on browse button to browse output container.

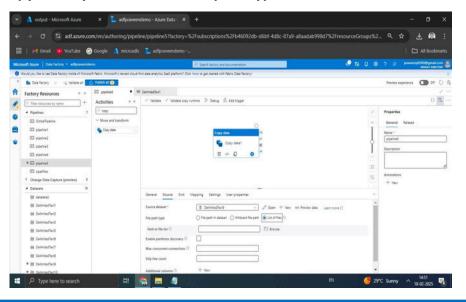




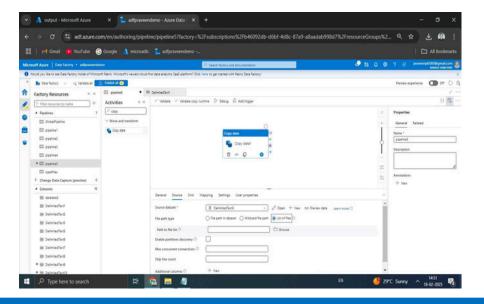
## Go to output container then click on ok.



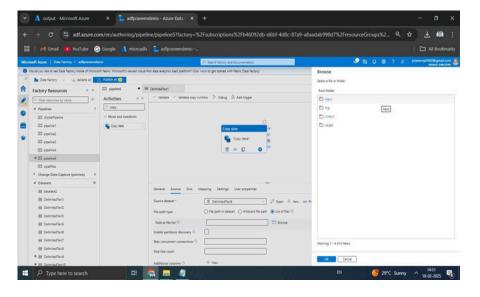
Go back to copy activity source select File path type as List of files.



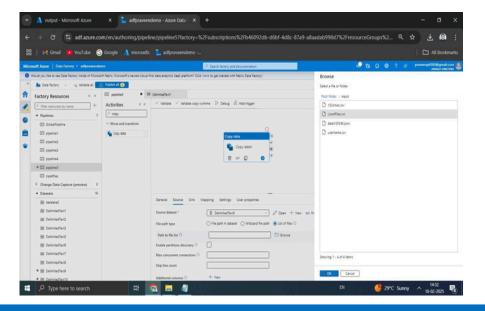
#### In Path to file list click on browse button.



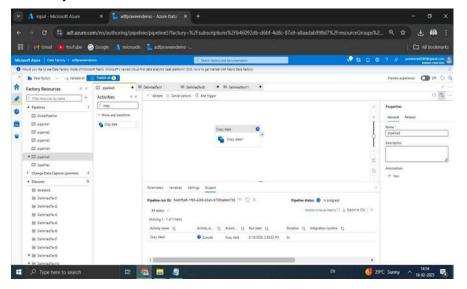
Go to input container to select metadata text file ListofFiles.txt to get file metadata.



Select metadata file ListofFiles.csv then click on ok.



Now execute pipeline using debug mode and wait for five to ten seconds until pipeline executes successfully.



Once pipeline executes successfully go back to ADLS storage go to output container click on refresh you see all the files with different pattern (123cities.csv, data120345.csv and username.csv) stored simultaneously using List of files in copy activity.

