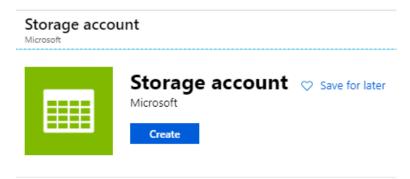


# Lab 1: Loading series of file according to LastModified

This lab guides you through loading files from Azure File Storage to ADLSgen2, based on the source files' LastModified attribute.

#### Step 1: Create an ADLSgen2 as Destination Folder

• On Azure portal, [New Service], then search for Storage Account, [Create]

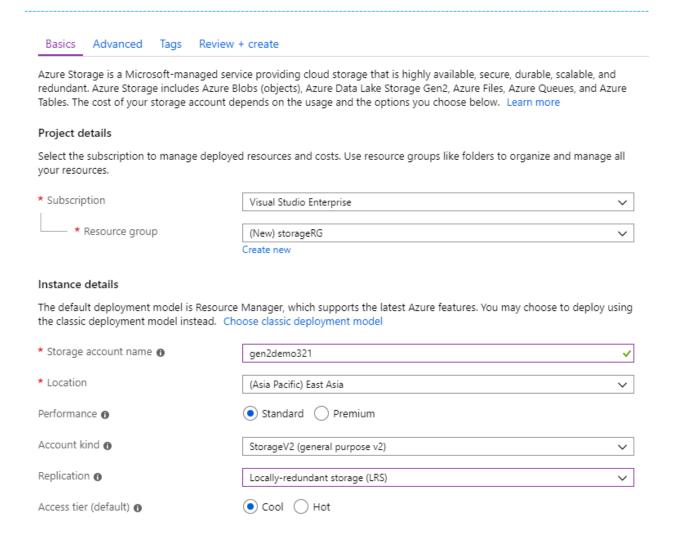


Microsoft Azure provides scalable, durable cloud storage, backup, and reco effectively enhance your existing applications and business continuity strate binary data such as video, audio, and images.

Useful Links Documentation Service overview Pricing

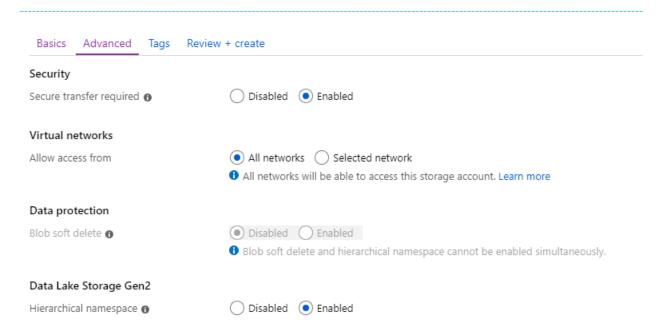


Define below attributes for the ADLSgen2, do note the Storage Account Name has to be unique



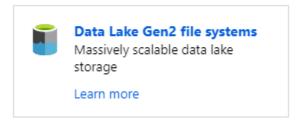


And in the Advanced Tab:



- And click though [Next>] in Tags, then [Create]
- Once the resource creation is done, click on the resource name (or enter the resource name in the search bar). Click on below button to enter ADLSgen2 configuration page:

#### Services



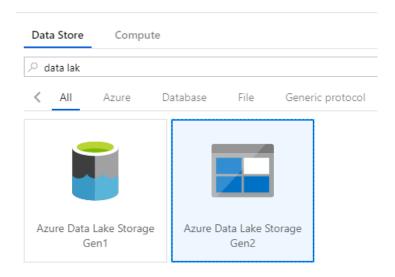
• [+ File System] to create a new file system. Enter [adlsfs] to create a new file system. Your ADLSgen2 is ready to use.



# Step 2: Setup the connection on ADF for ADLSgen2

• In [Connections], Search for ADLSgen2 and click Continue

# New Linked Service



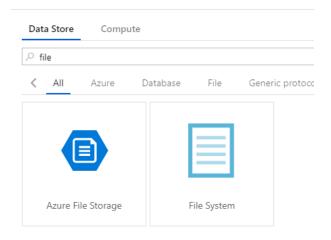
• Click through to search for your own ADLSgen2 by account key. If you're using the same subscription, it shows up automatically.



#### Step 3 Create Azure File Storage connection

• Click [Connections], Then New

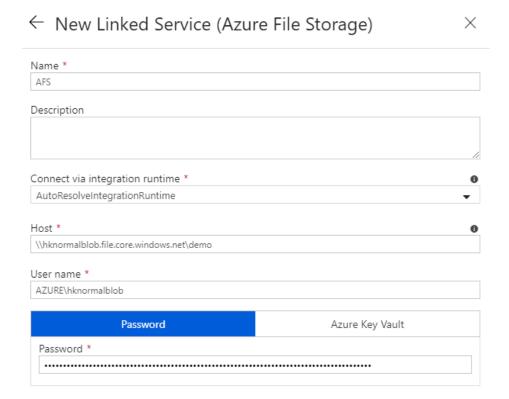
#### New Linked Service



- Fill in per below details
  - o In the Password, fill in the Access key

iMSyy7440wasS0Jk74lrb8iYptfv8yaVgb/OjS2Y6nlh4oL16bH1yQ0umLmHeBwG7ioniMa+EK+MsOqkNZDJ/w==

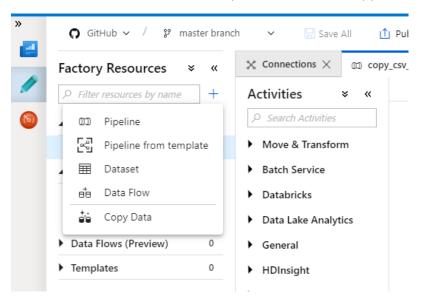
- o Host: \\hknormalblob.file.core.windows.net\demo
- Username : AZURE\hknormalblob





# Step 3 Create a Copy Data activity pipeline

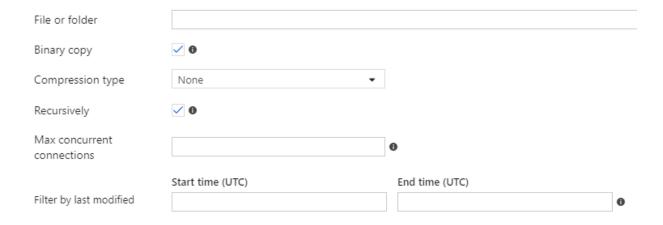
• Click [+] button under Factory Resource, select "Copy Data"



- Select New Dataset, and type in file for file storage
- For [Source Data store],

# Choose the input file or folder

Select a source file or folder to be copied to the destination data store.

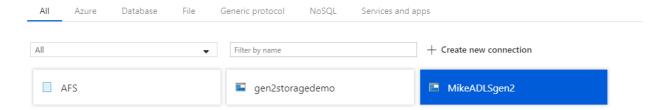




• Select Destination data store

#### Destination data store

Specify the destination data store for the copy task. You can use an existing data store connection or specify a new data store.



- Specify a meaningful Folder path like adlsgen2/demodest
- Keep the settings as default

# Settings

More options for data movement

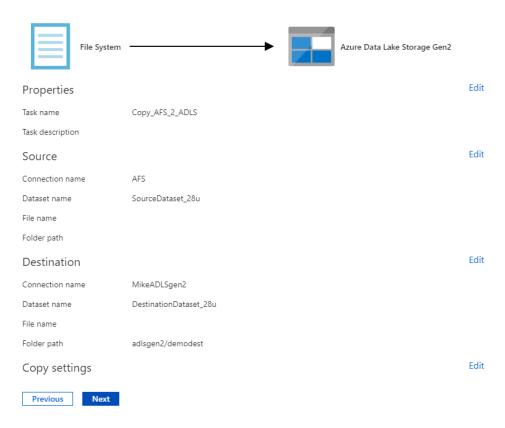
# ✓ Performance settings Enable staging ● ✓ Advanced Settings Data integration unit Auto ✓ Edit You will be charged # of used DIUs \* copy duration \* \$0.25/DIU-hour (local currency and separate discounting may apply per subscription type). When you choose "Auto", Data Factory dynamically applies the optimal DIU setting based on your source-sink pair and data pattern. See here for current prices and learn how to optimize copy by DIU setting from here. Degree of copy parallelism Auto ● Edit



#### • You will have similar Summary

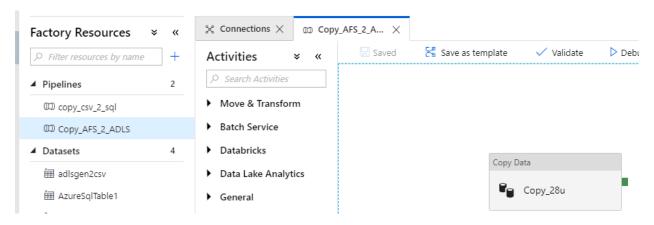
#### Summary

You are running pipeline to copy data from File System to Azure Data Lake Storage Gen2.



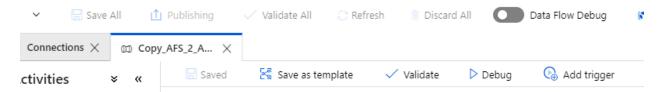
# Step 4 Execute a non-filtered copy

Locate your saved pipeline, [Copy\_AFS\_2\_ADLS] in ADF design portal

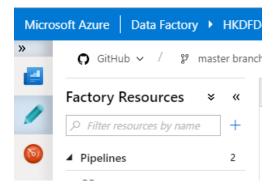




Click [Publish] to commit the change



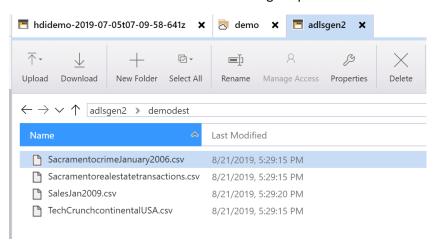
• Then go for [Add trigger] => [Trigger Now], you're going to execute the pipeline on demand. We go to the Monitor page to monitor the status



• Once it's finished, you will find the STATUS set as Succeeded,



And files are visible to user in Storage Explorer.



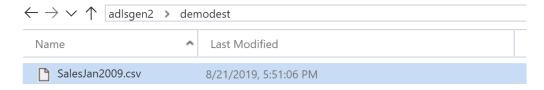


#### Step 5 Execute a filtered copy

• Now, delete all destination folder files. Click on the Copy Data activity, in the Modified datetime start, define as 08/21/2019 08:00:00

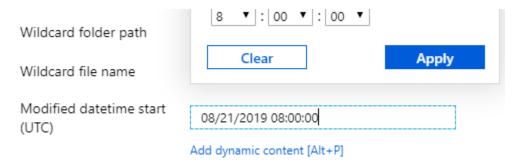
Modified datetime start (UTC) 08/21/2019 08:00:00

- Remember, every change needs to be published.
- Once executed, you will find that only 1 file is copied.



#### Step 6 dynamic filter criteria

In the real world, you won't want a hardcoded value. Now if you go back to Copy Data Activity, you can find the [Add dynamic content]



Now, you can implement a regular expression based on system variables

