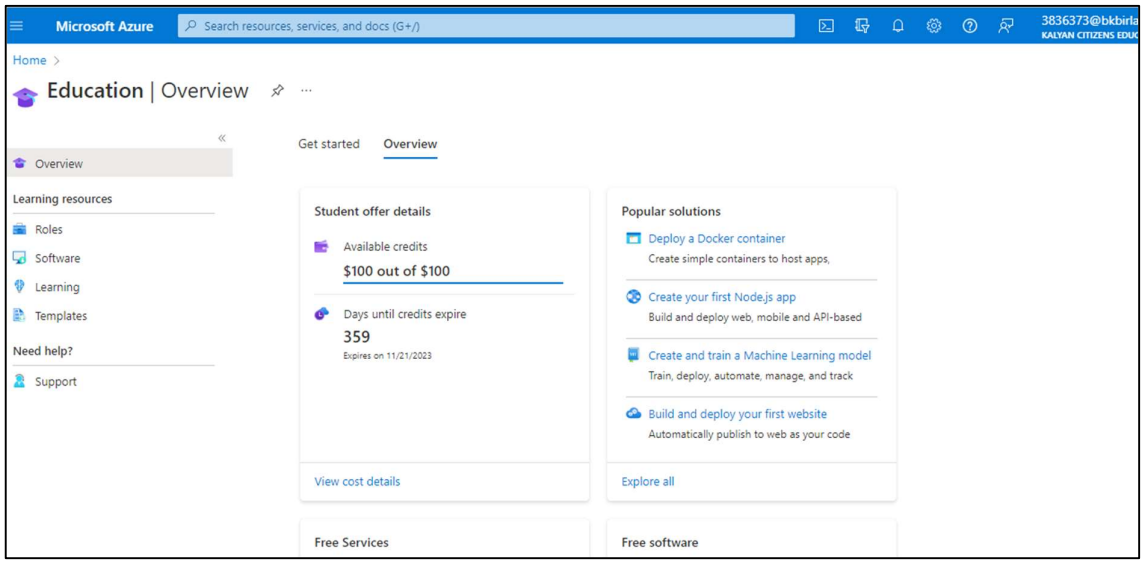
Data on cloud

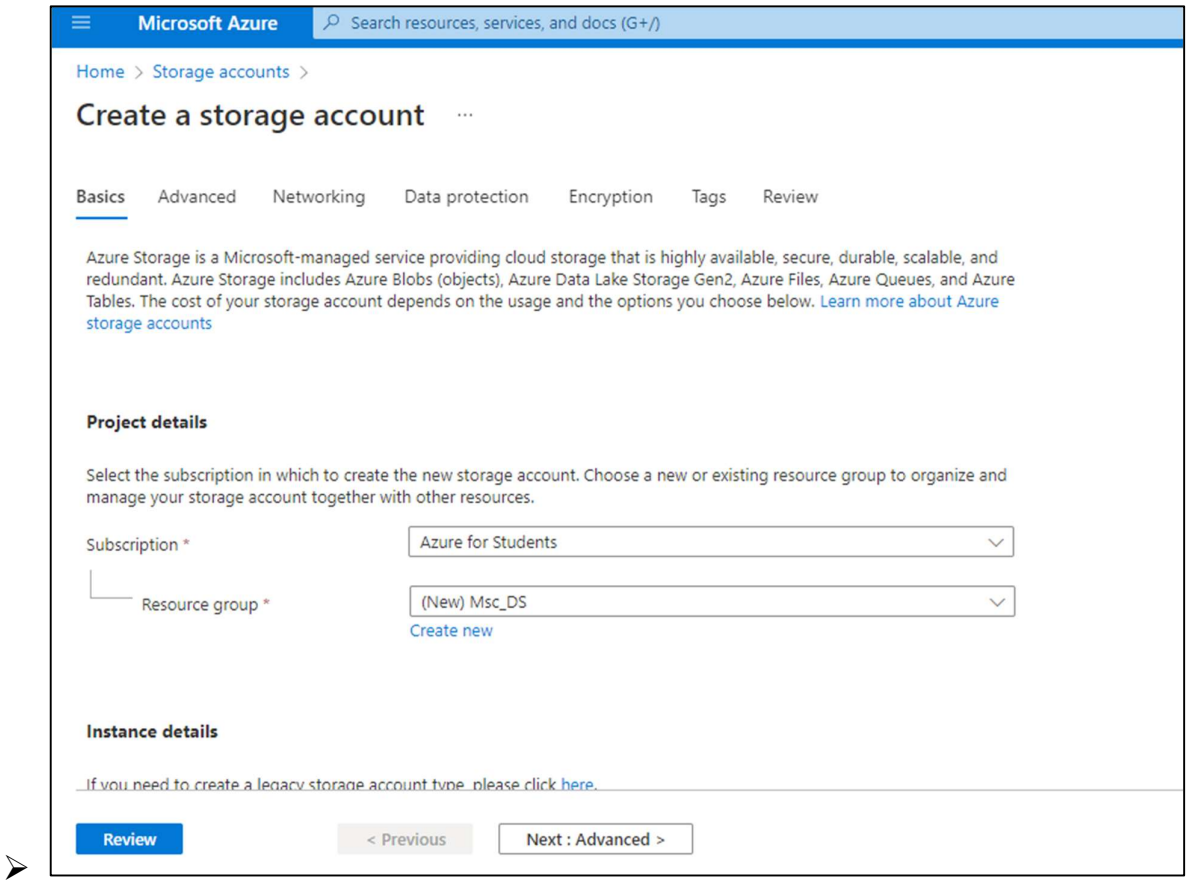
[Practical notes]

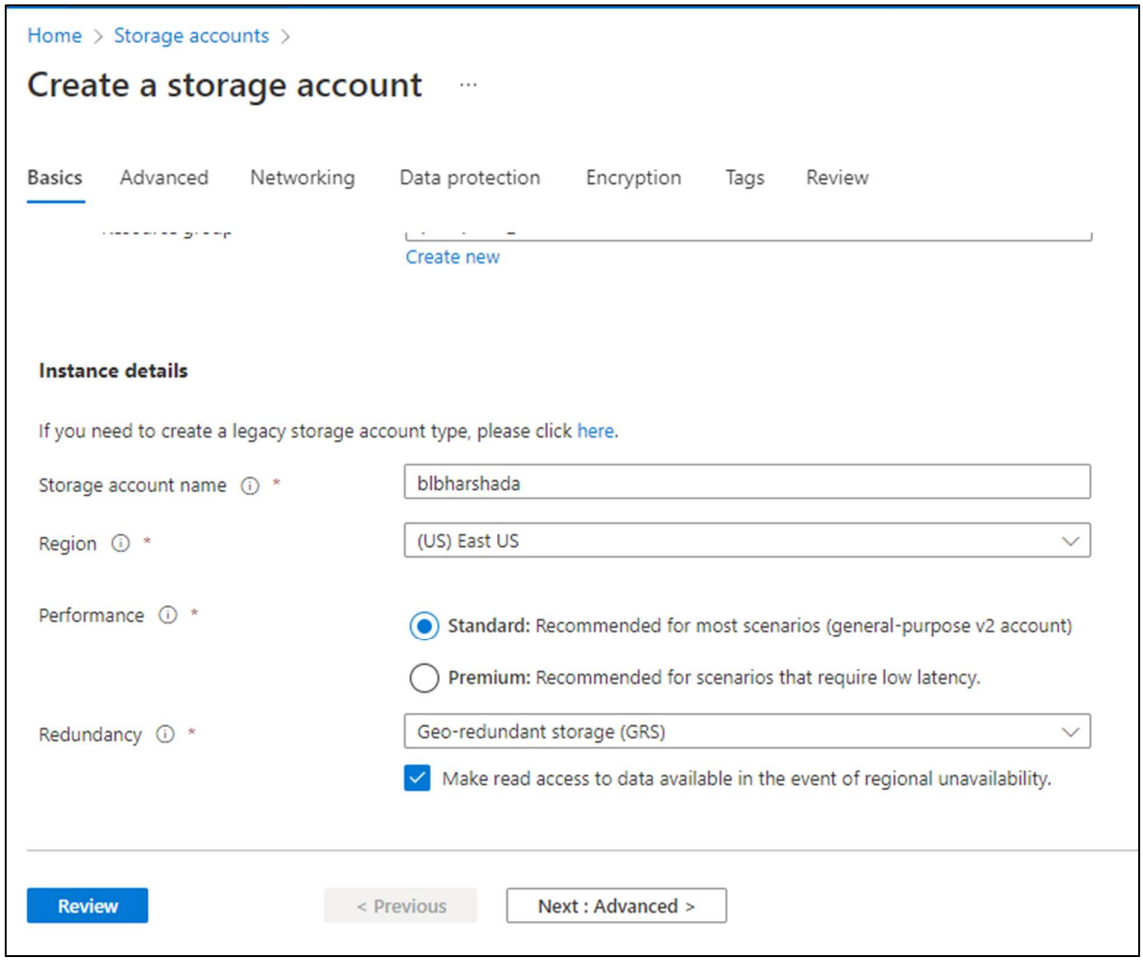
1] Creating instances of Blob storage , ADLS storage , ADF.

- 1.Firstly we login on Azure.com using college ID. Then you get 100$ credits from azure.



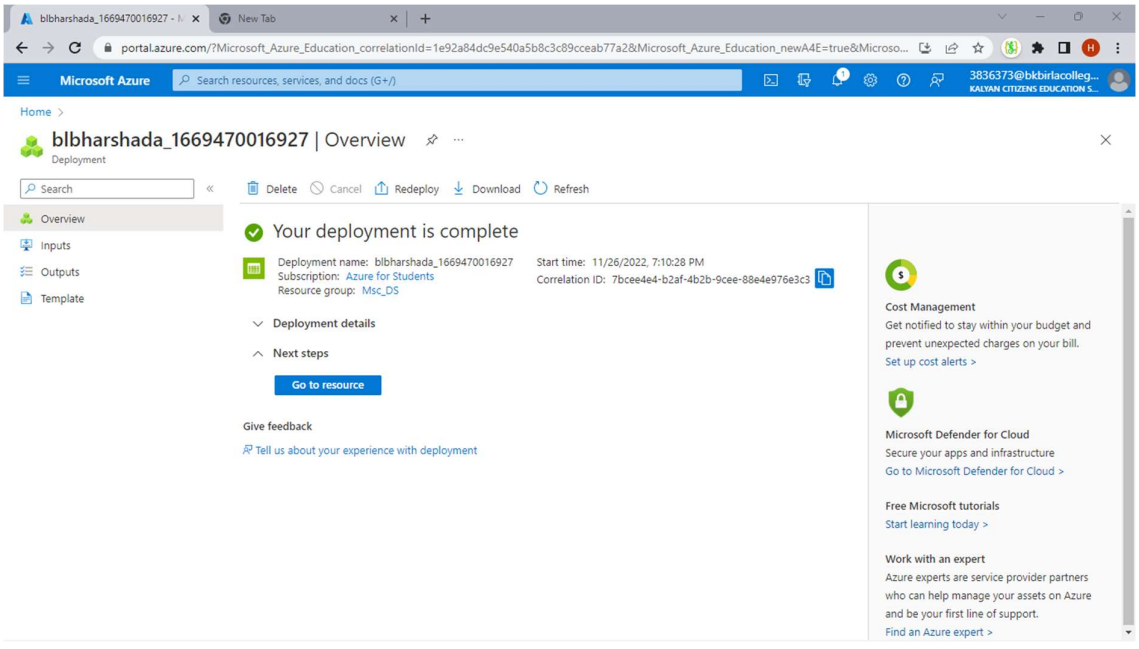
- 2.Home > Storage account > create new storage account > create a new resource group > fill Instance details > storage account name > click on review > click on create .


Microsoft Azure
Search resources, services, and docs (G+/)
Home > Storage accounts >
Create a storage account
Basics
Advanced
Networking
Data protection
Encryption
Tags
Review
Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. Learn more about Azure storage accounts
Project details
Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.
Subscription *
Azure for Students
Resource group *
(New) Msc_DS
Create new
Instance details
If you need to create a legacy storage account type, please click here.
Review
< Previous
Next : Advanced >



➢

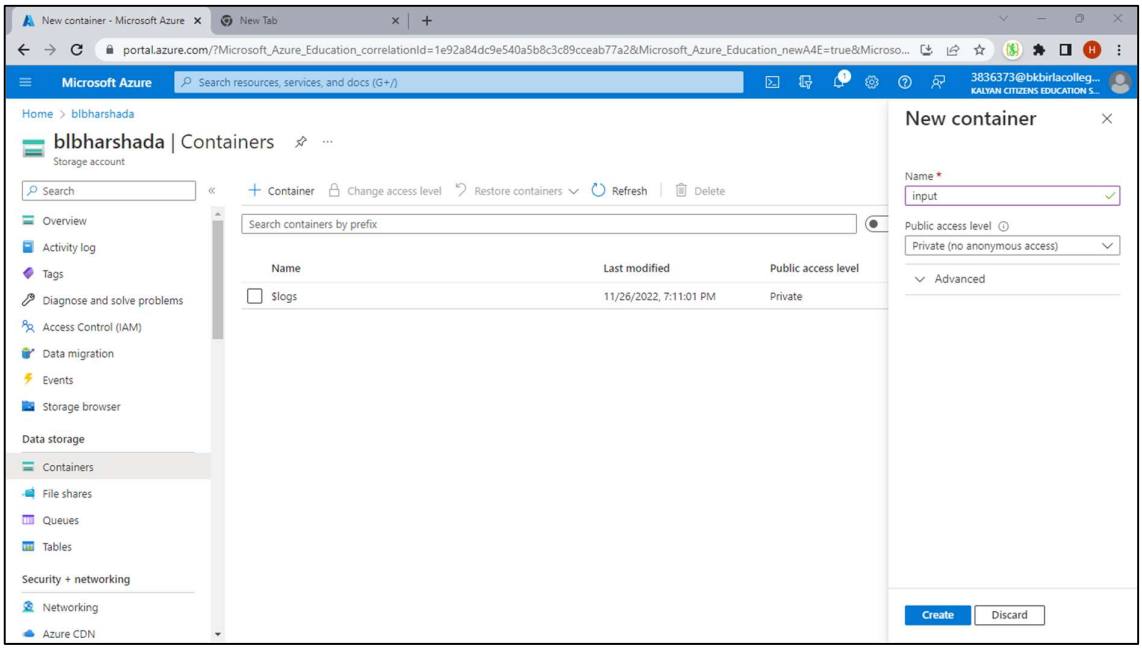
➢ Then you get …



➢

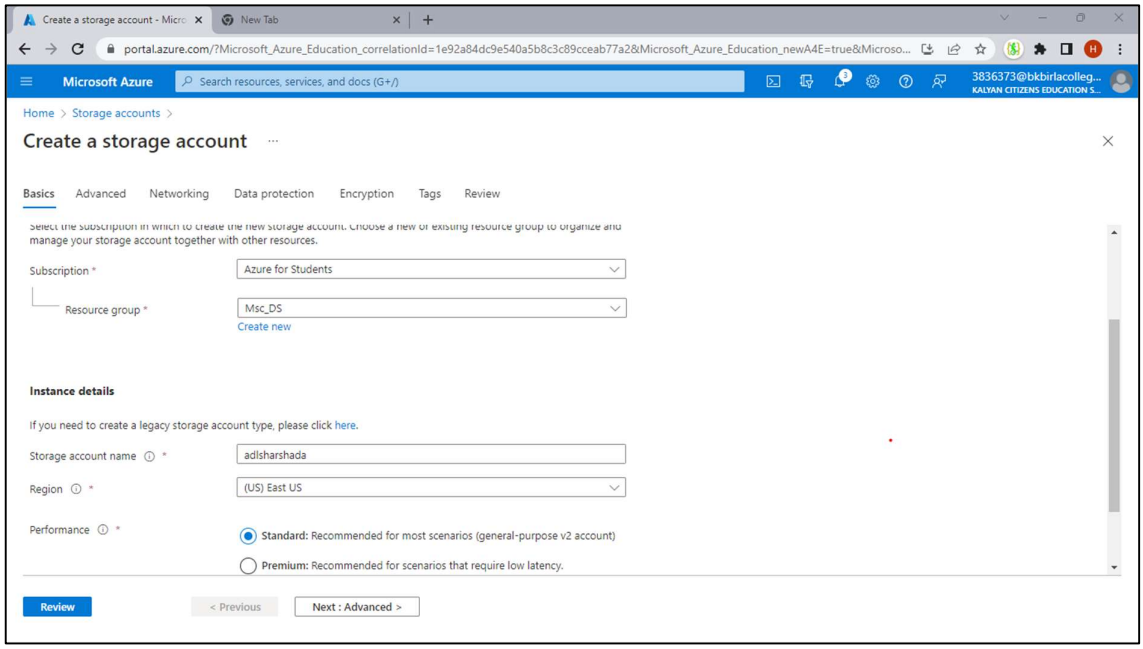
➢ 4. Comes to home > click on blbharshada > containers > click on **+ container >** create new container ‘input’ and ‘output’.

- Here we create two containers where we store data in input and then send one to one to output, to seeing one to one data transfer.



- 5. Go to home again create one more storage account but this time create ADLs storage

- Create > select resource group (Msc_DS) > storage account (adlsharshada) > click on advanced > click on **Enable hierarchical namespace** > review > create.


Create a storage account - Micro
New Tab
portal.azure.com/?Microsoft_Azure_Education_correlationId=1e92a84dc9e540a5b8c3c89cceab77a2&Microsoft_Azure_Education_newA4E=true&Microso...
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Home > Storage accounts >
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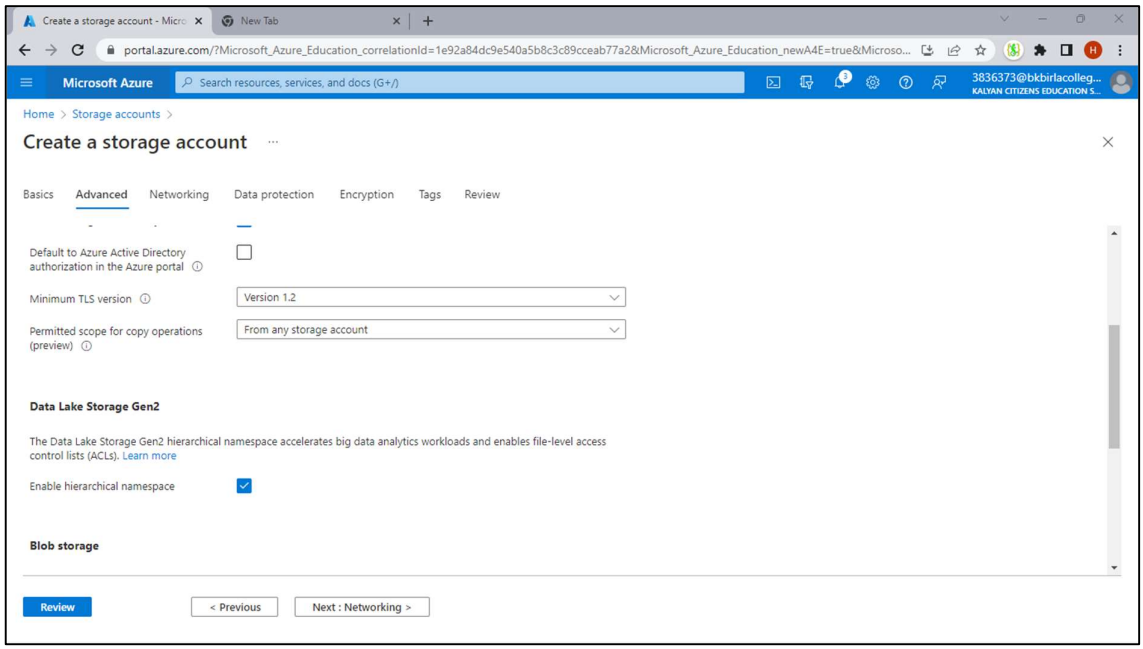
manage your storage account together with other resources.
Subscription *
Azure for Students
Resource group *
Msc_DS
Create new
Instance details
If you need to create a legacy storage account type, please click here.
Storage account name *
adlsharshada
Region *
(US) East US
Performance *
Standard: Recommended for most scenarios (general-purpose v2 account)
Premium: Recommended for scenarios that require low latency.
Review
< Previous
Next : Advanced >


Create a storage account - Micro
New Tab
portal.azure.com/?Microsoft_Azure_Education_correlationId=1e92a84dc9e540a5b8c3c89cceab77a2&Microsoft_Azure_Education_newA4E=true&Microso...
Microsoft Azure
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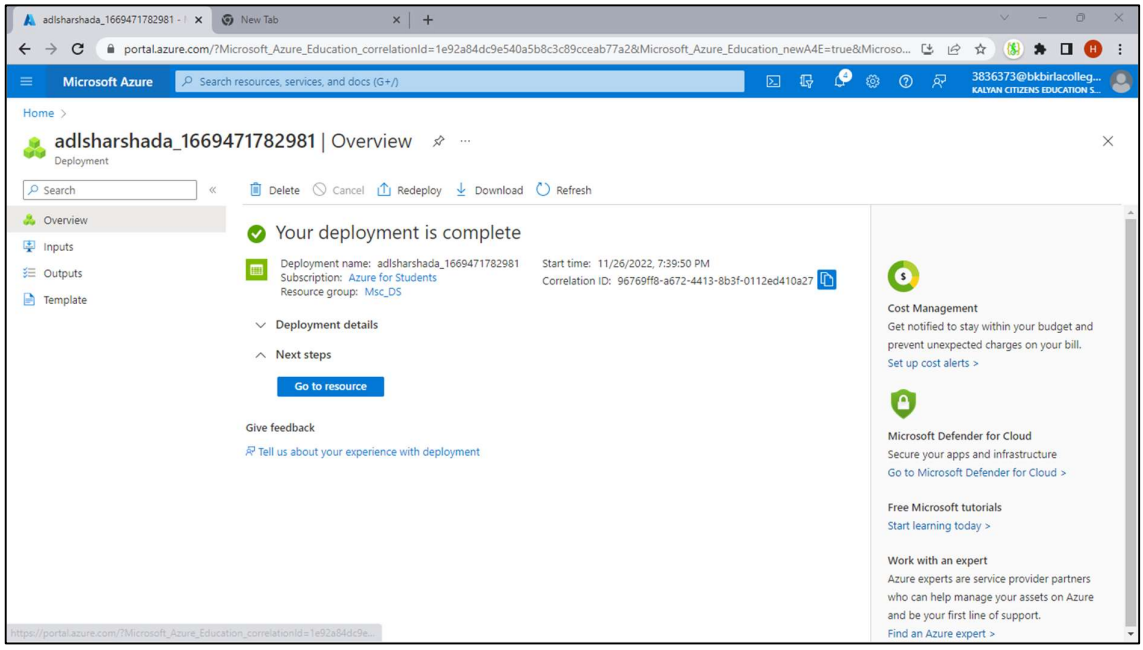
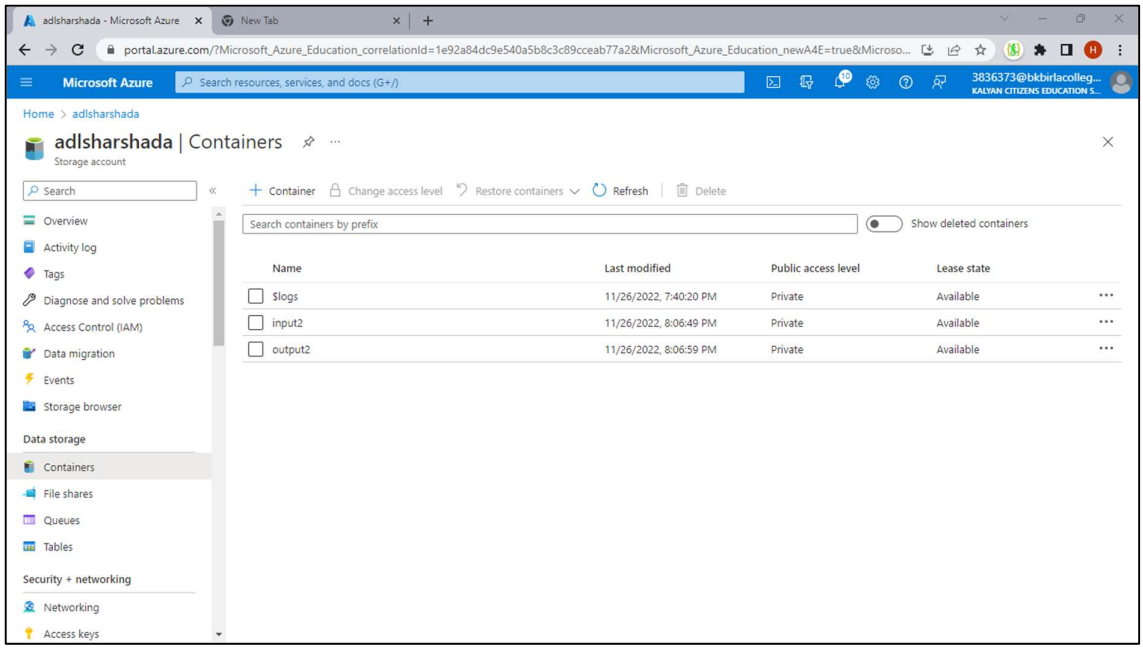
Create a storage account
Basics Advanced Networking Data protection Encryption Tags Review
Default to Azure Active Directory authorization in the Azure portal
Minimum TLS version
Version 1.2
Permitted scope for copy operations (preview)
From any storage account
Data Lake Storage Gen2
The Data Lake Storage Gen2 hierarchical namespace accelerates big data analytics workloads and enables file-level access control lists (ACLs). Learn more
Enable hierarchical namespace
Blob storage
Review
< Previous
Next : Networking >

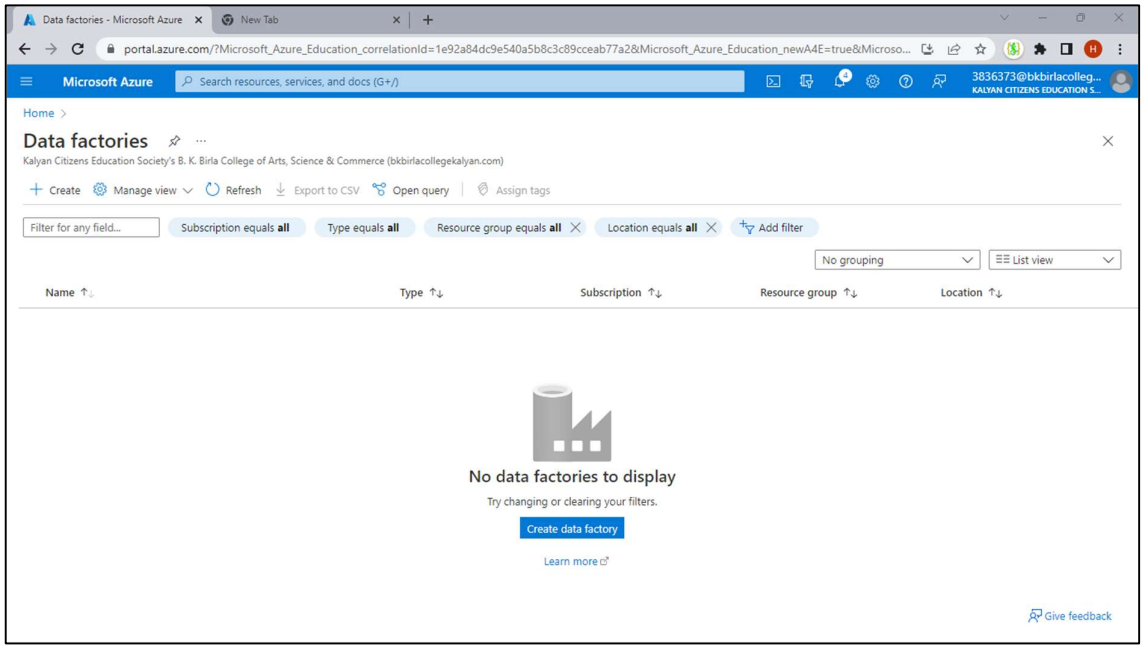
➢ Get this…

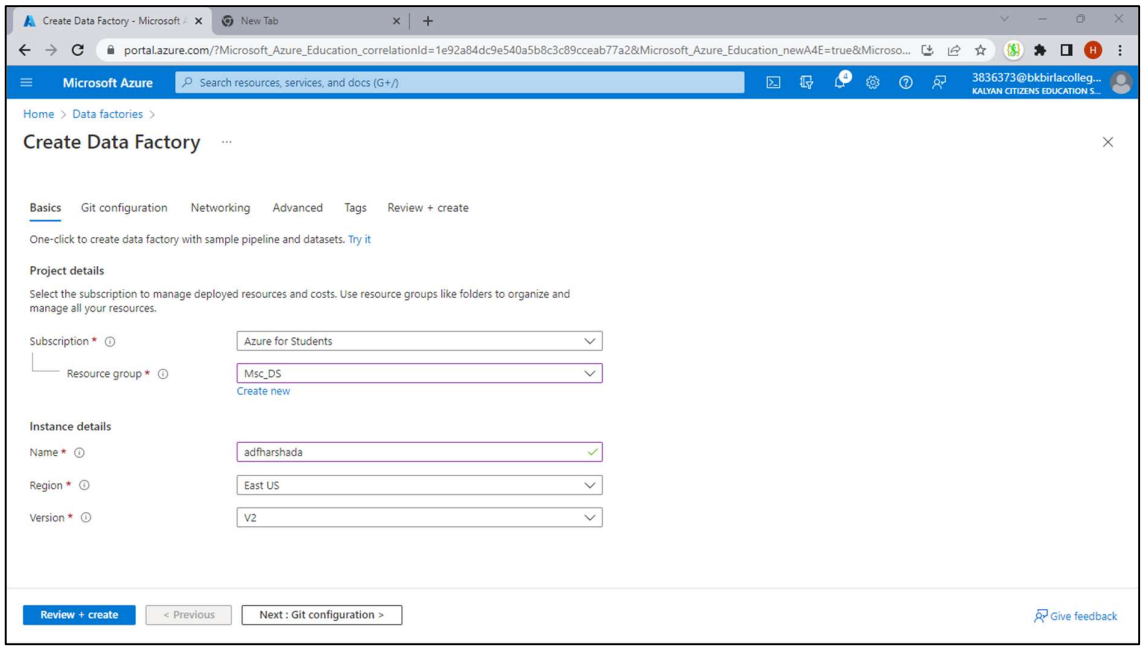


➢ 6.Create container in adlsharshada input and output, similarly which we did in step 4.

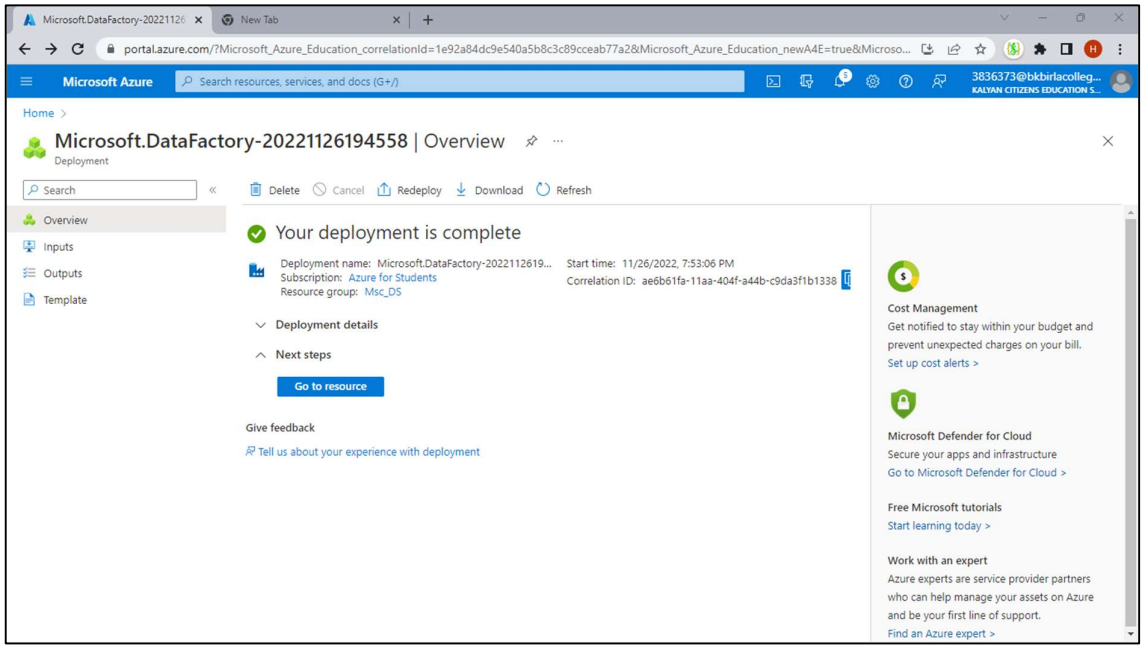


➢ 7. Comes again Home > click on Data factory > create new data factory >



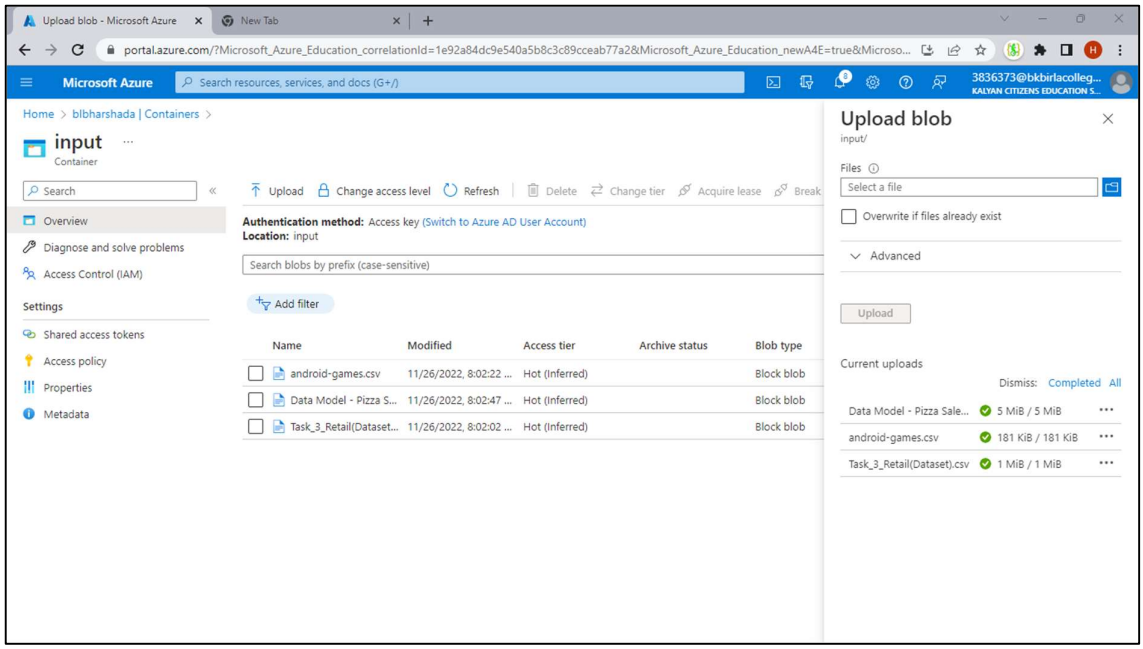


- Deployment complete..

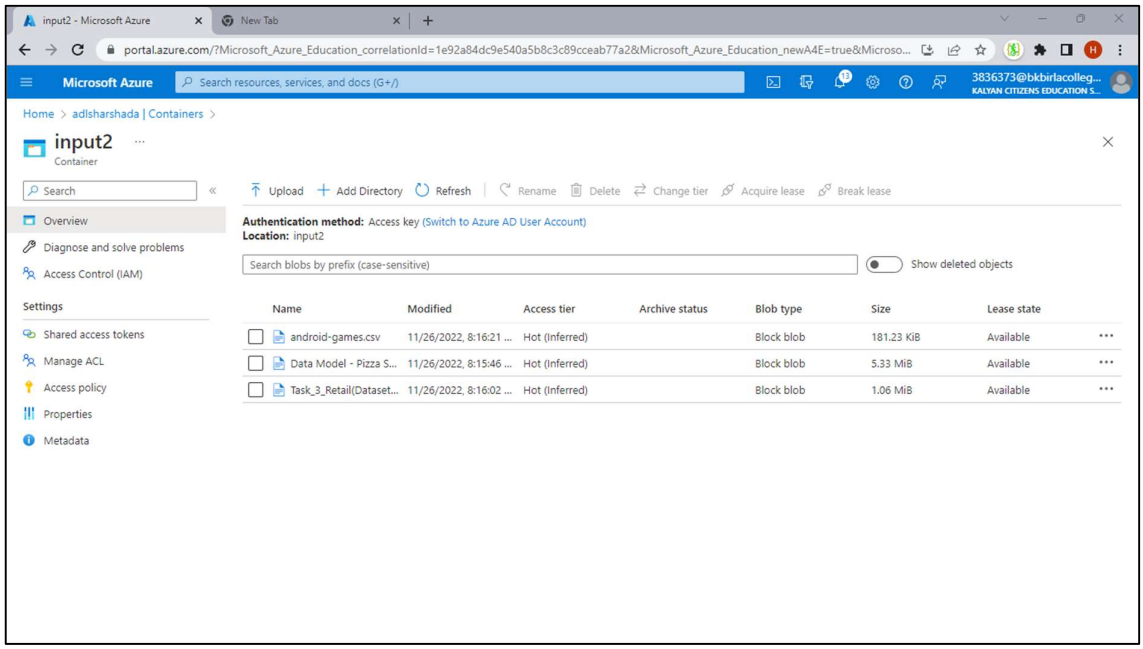
➢ 

2] Loading Data on the cloud.

➢ 1.Home > click on blbharshada (resource) > containers > select ‘input’ container > upload data files .

➢ 

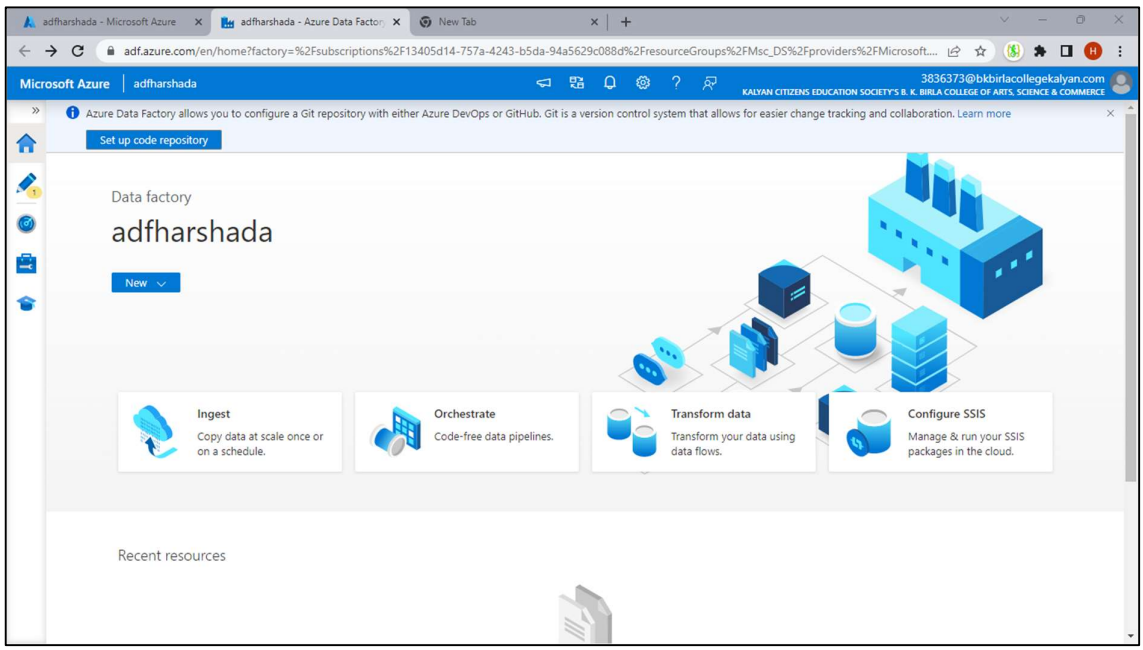
➢ 2.Similarly upload on adls storage which we gives name adlsharshada .

➢ 

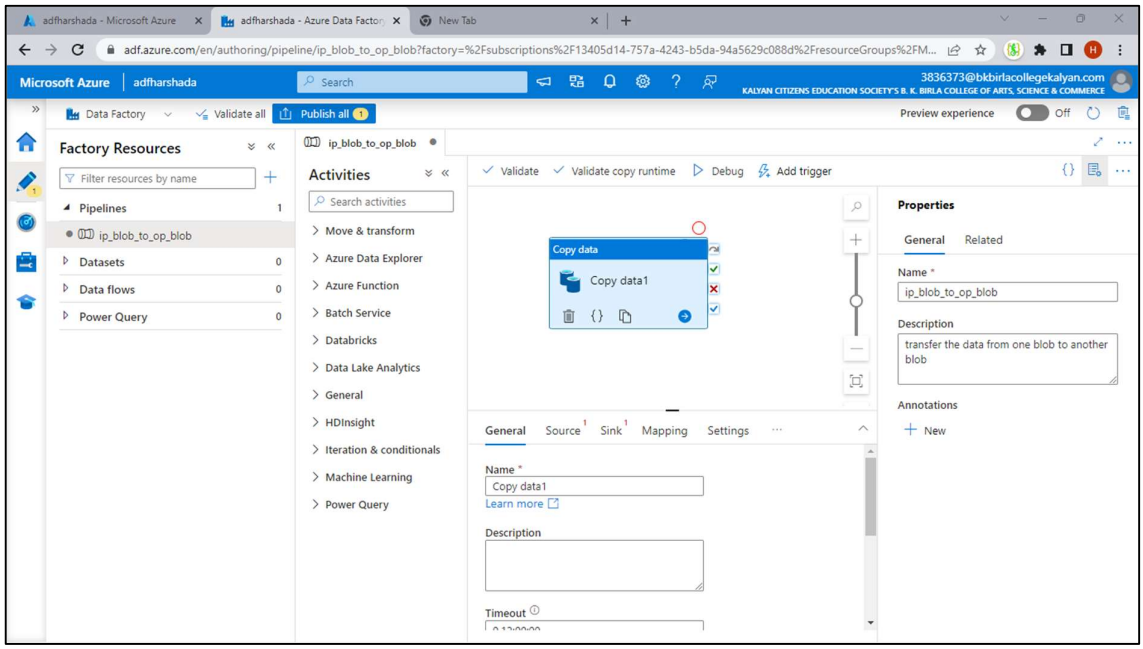
3] Transfer the Data using ADF.

➢ **Now transfer the data from input Blob to output Blob (one-to-one).**

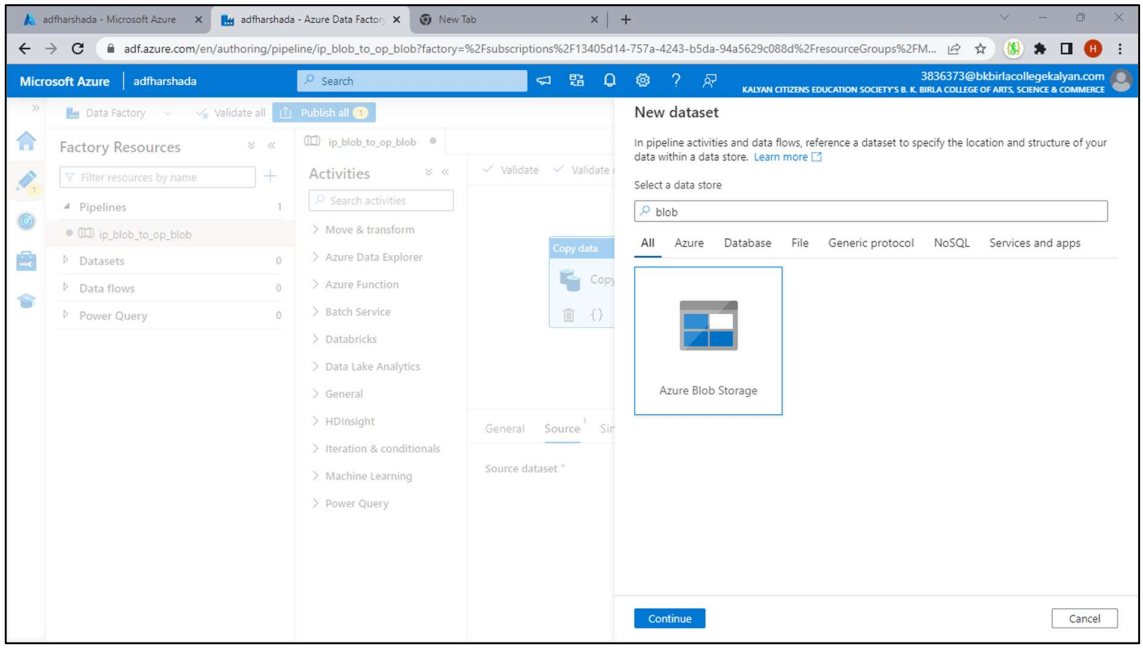
➢ 1.Home > click on adfharshada (Azure data factory) > overview > launch studio > click on Author (pencil icon).

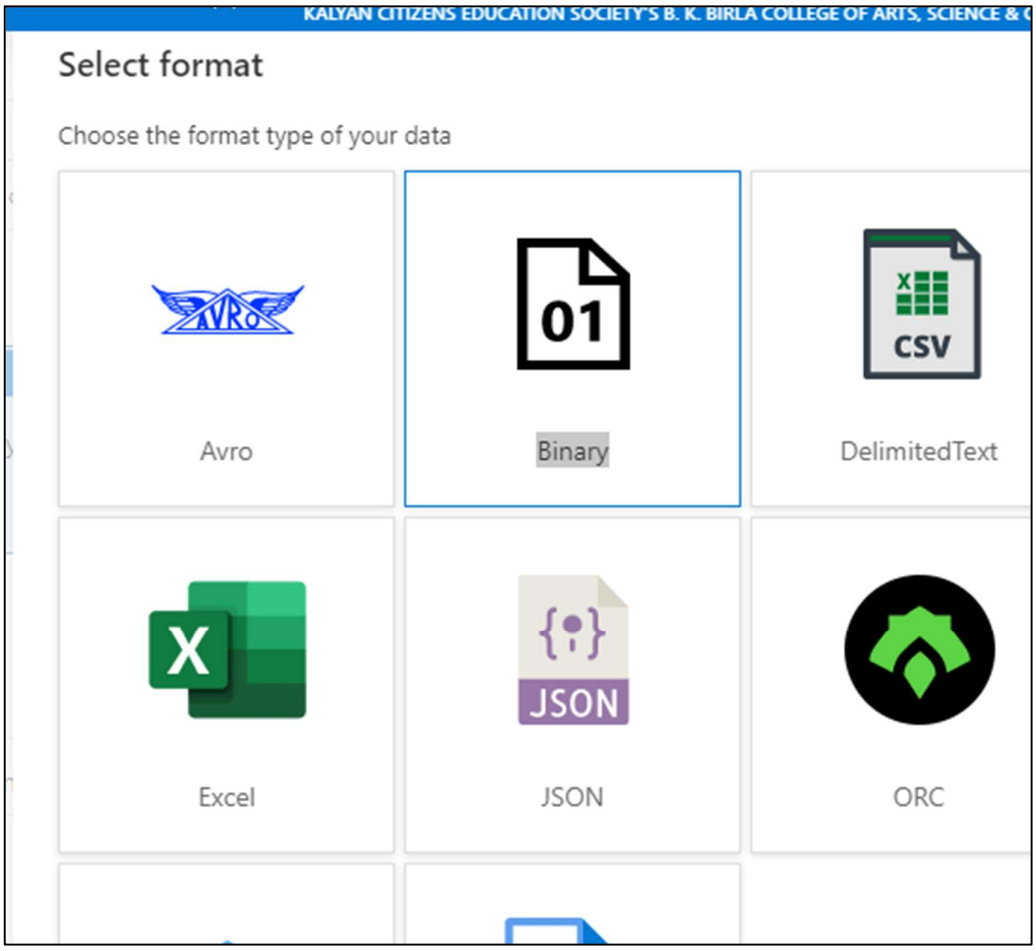
➢ 

- 2.Create new Pipeline Blob to Blob > search copy data on Activity > drag on right side canvas.

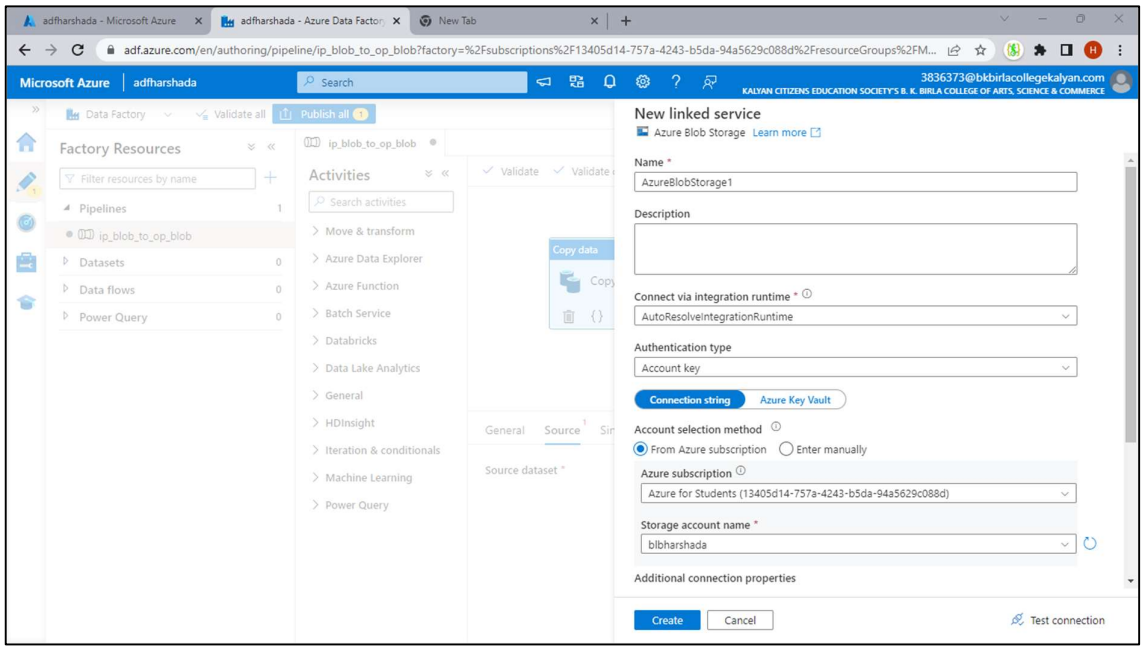


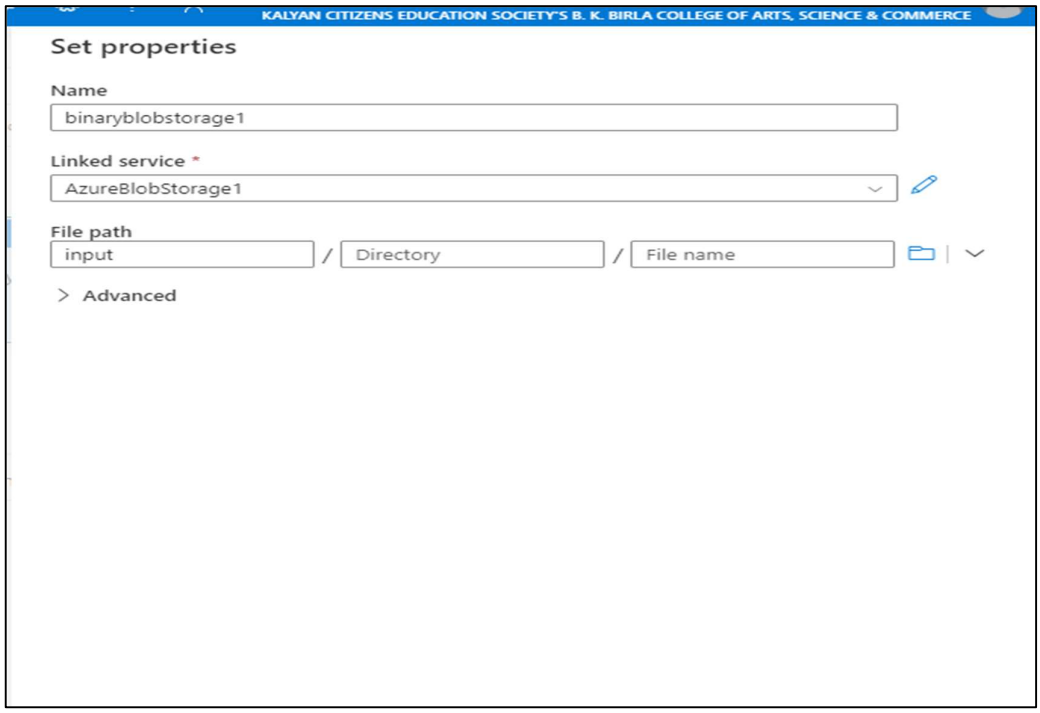
- 3. Go on **Source** create new dataset > select a data store → azure storage > then select binary .



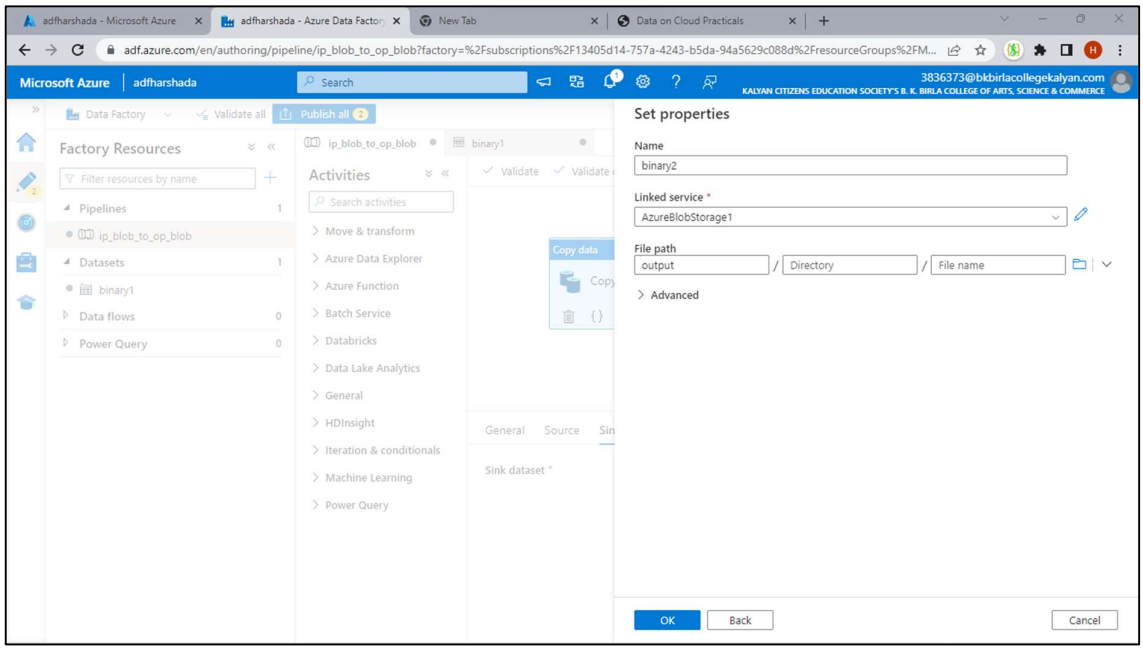
➢ 

➢ 4. Create new linked service > from file path select files which you want to transfer Blob(input) to Blob(output).

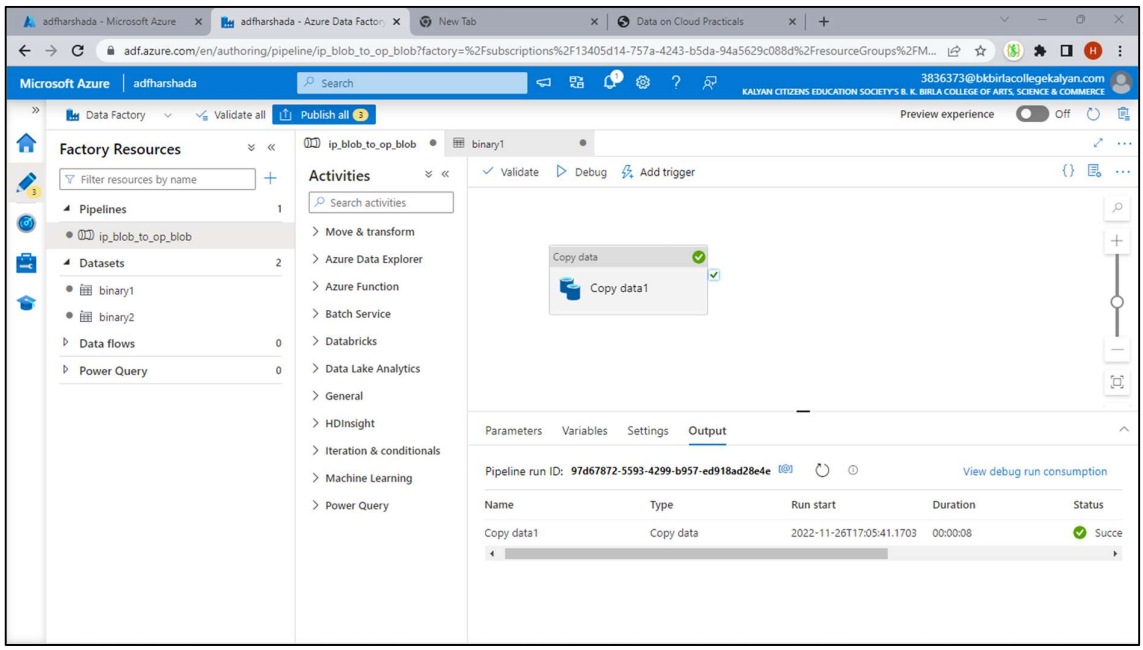
➢ 

➢ 

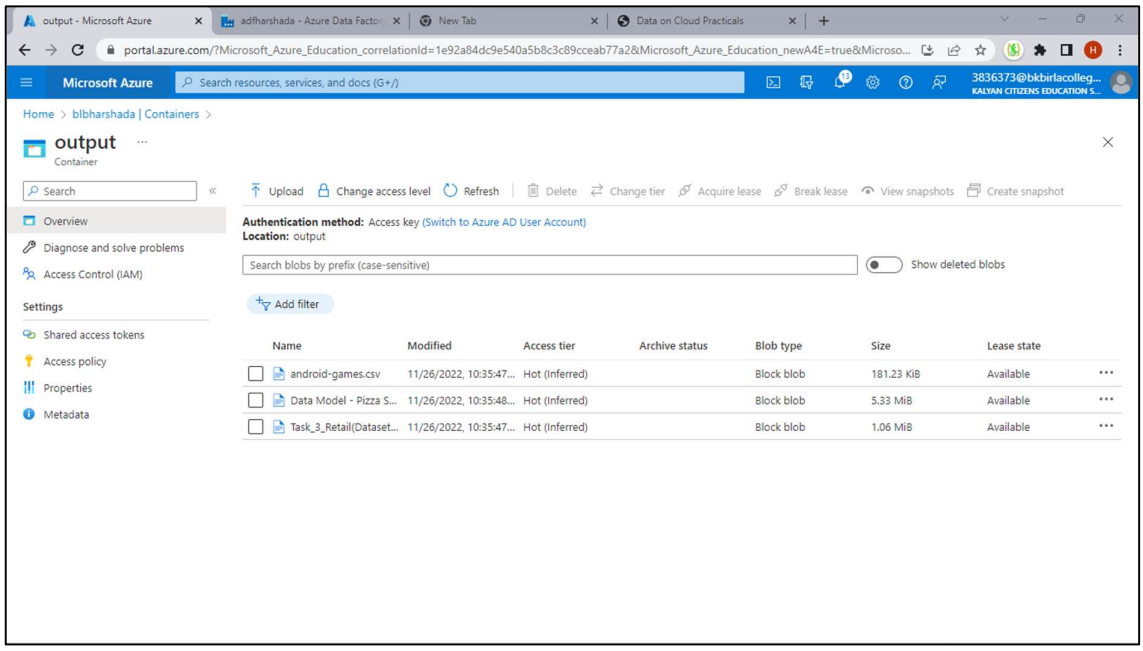
➢ 5.Similar thing do with **sink** .

➢ 

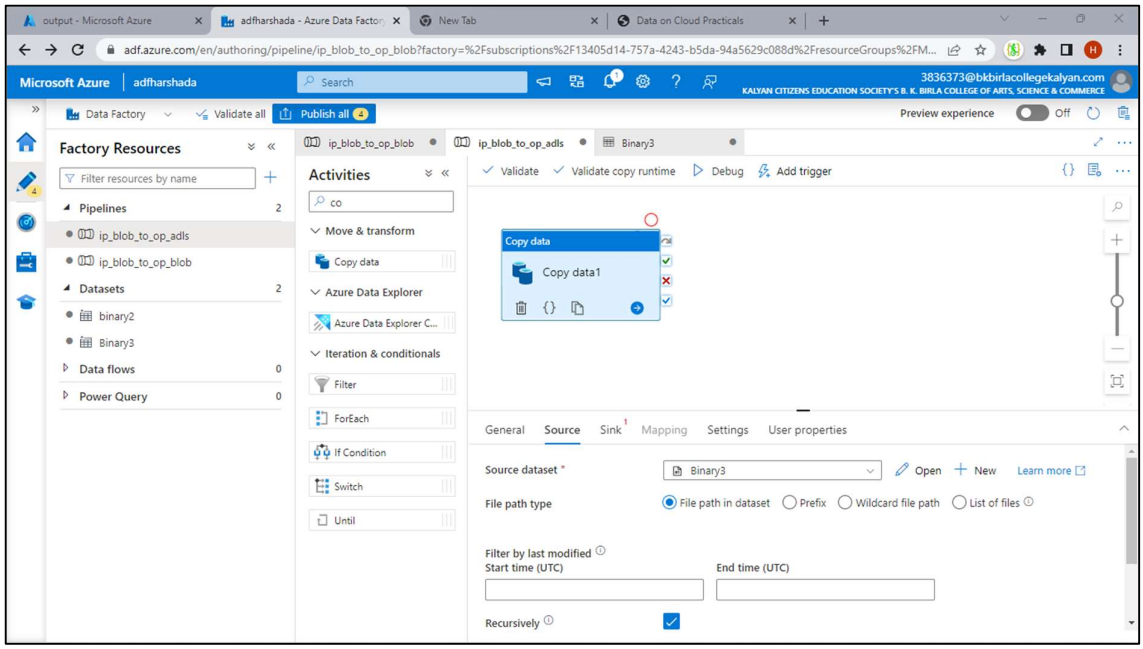
➢ 6.Click on Debug > message of succeeded

➢ 

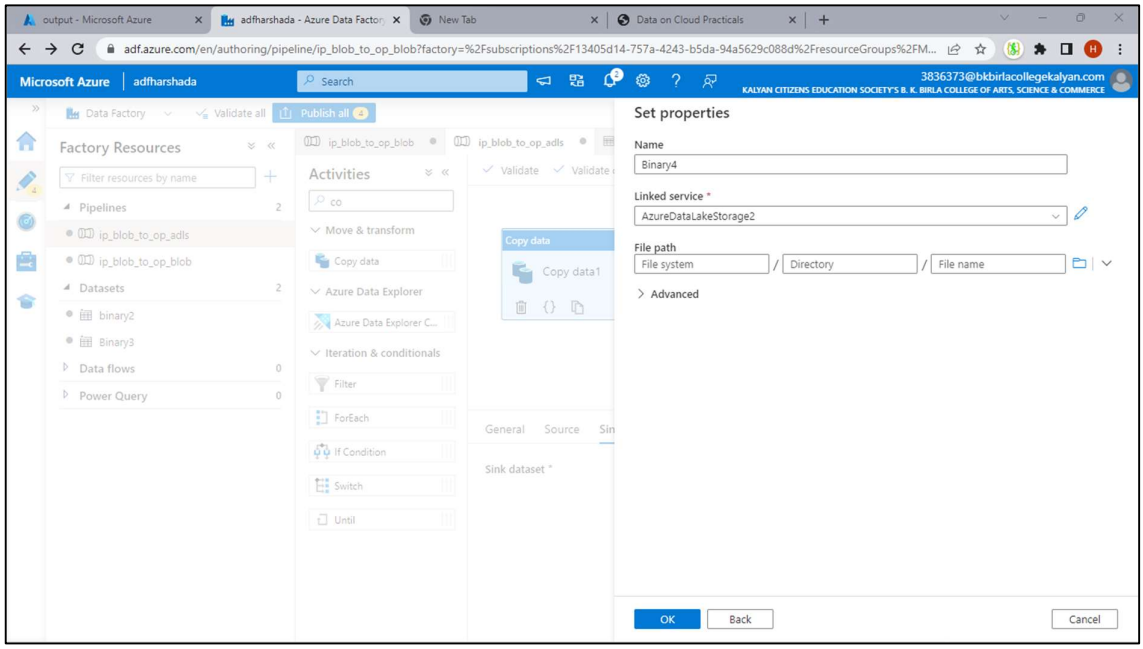
➢ Result



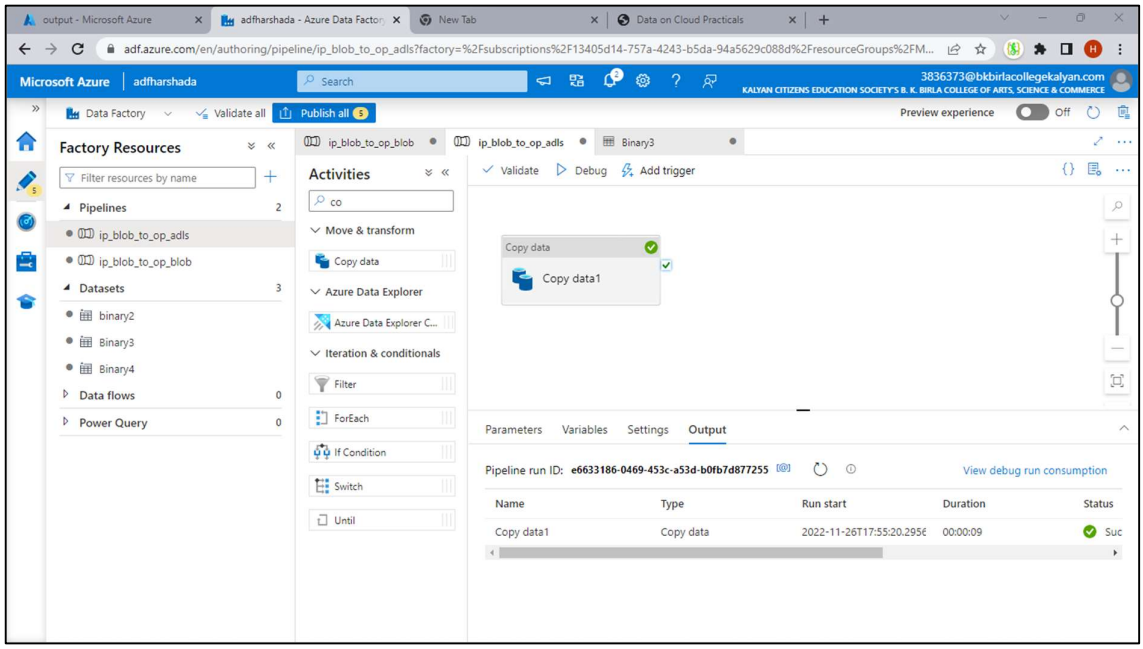
- **Now transfer the data Blob to ADLs (one-to-many).**
- 1.Create new Pipeline to transfer the data .
- **Source**



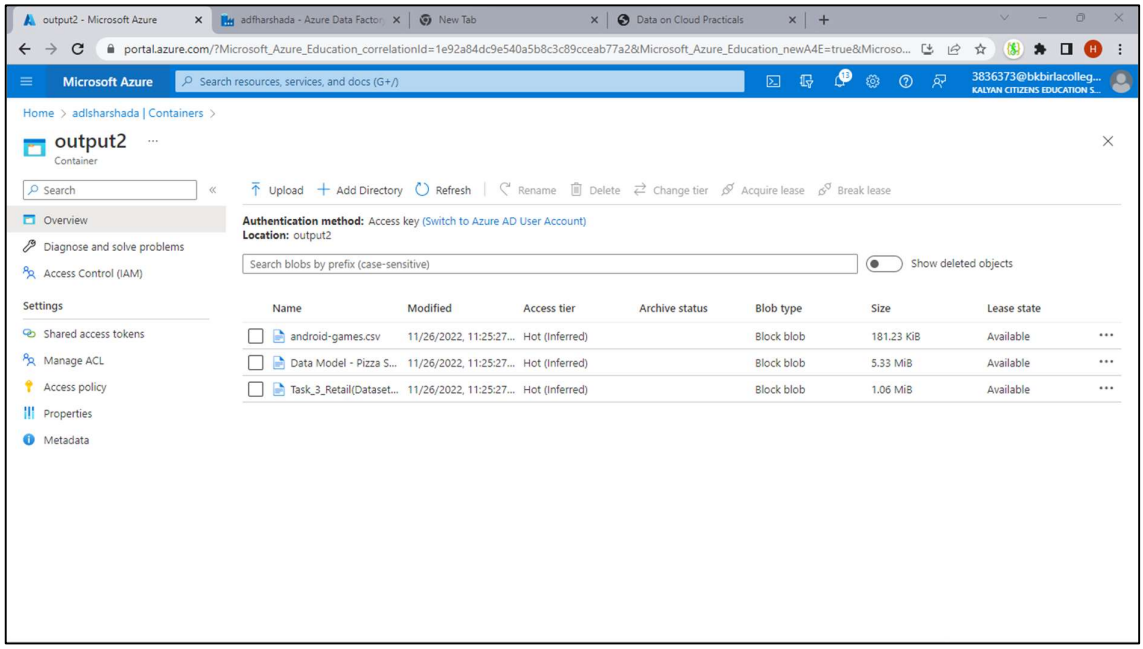
- **Sink**



- Message of succeeded



- Result


output2 - Microsoft Azure
adfharshada - Azure Data Factory
New Tab
Data on Cloud Practicals
portal.azure.com/?Microsoft_Azure_Education_correlationId=1e92a84dc9e540a5b8c3c89cceab77a2&Microsoft_Azure_Education_newA4E=true&Microso...
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KALYAN CITIZENS EDUCATION S...
Home > adlsharshada | Containers >
output2
Container
Search
Overview
Diagnose and solve problems
Access Control (IAM)
Settings
Shared access tokens
Manage ACL
Access policy
Properties
Metadata
Upload
Add Directory
Refresh
Rename
Delete
Change tier
Acquire lease
Break lease
Authentication method: Access key (Switch to Azure AD User Account)
Location: output2
Search blobs by prefix (case-sensitive)
Show deleted objects
Name
Modified
Access tier
Archive status
Blob type
Size
Lease state
android-games.csv
11/26/2022, 11:25:27...
Hot (Inferred)
Block blob
181.23 KiB
Available
Data Model - Pizza S...
11/26/2022, 11:25:27...
Hot (Inferred)
Block blob
5.33 MiB
Available
Task_3_Retail(Dataset...
11/26/2022, 11:25:27...
Hot (Inferred)
Block blob
1.06 MiB
Available