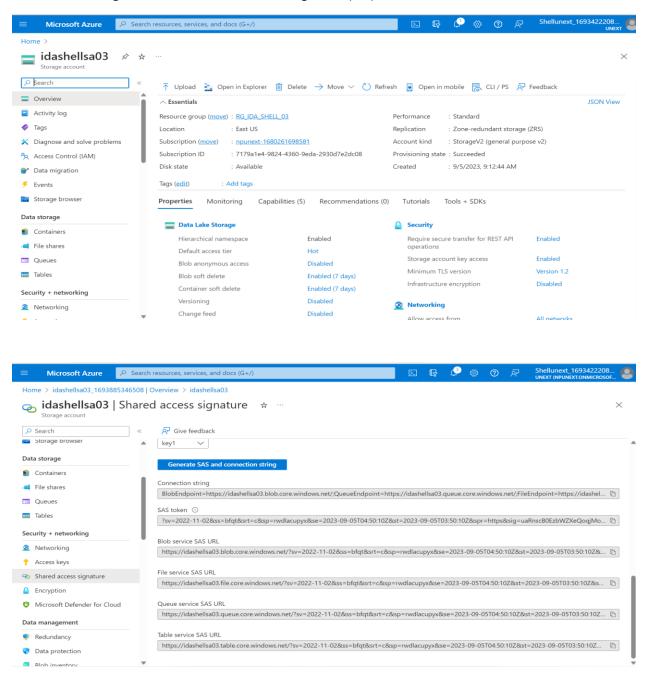
Custom Learnings

Day 6

To communicate between data storage account and data factory:

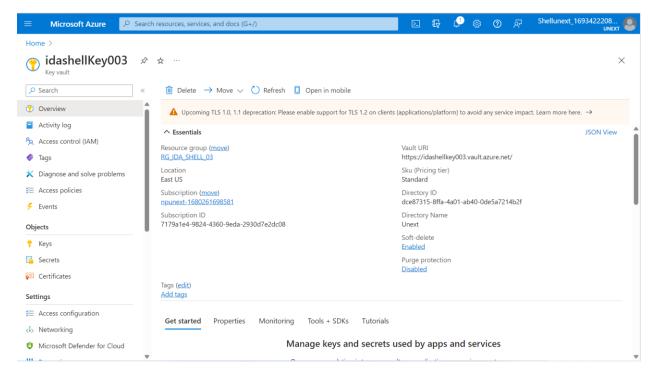
- 1. Shared Access Signature: Time bounded
- 2. Access Key: Life time access

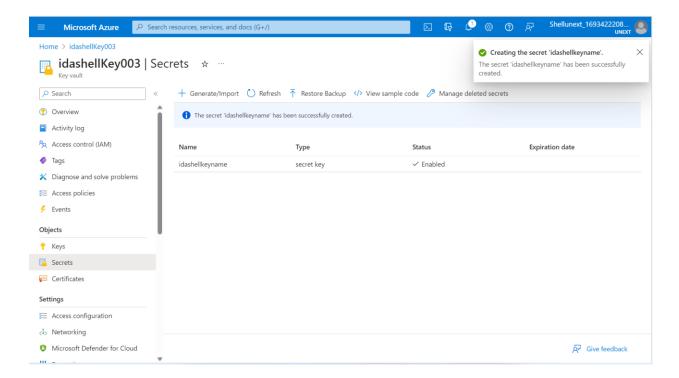
Creation of storage account and shared access signature(sas):



In case of data, we can't give hard-coded passwords to give access to database. Hence we use Azure Key Vault to give a time bounded name that is mapped to a key password that can be used as a login credential.

Creation of key vault and secret:





Access Control (IAM): Check your access level and assign role to other users.

Azure Data Factory:

Transformation: ADB

E&L: ADF, using for data flow activity

ADF Components:

1. Pipelines: Combination of one or more activities

- 2. Activities: Action to be carried out
- 3. Datasets: To access the particular file or table we create datasets.
- 4. Linked services: To access the particular path or database we create linked service.
- 5. Integration runtime: To communicate to any source or destination, we create a connection. Gives access to a higher level.
- 6. Triggers
- 7. Data flow

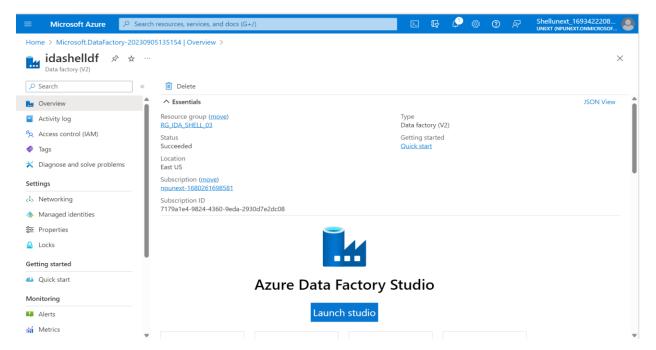
ELT: Advantage is we need not extract data from the source each and every time.

ETL: We transform all the data that is extracted.

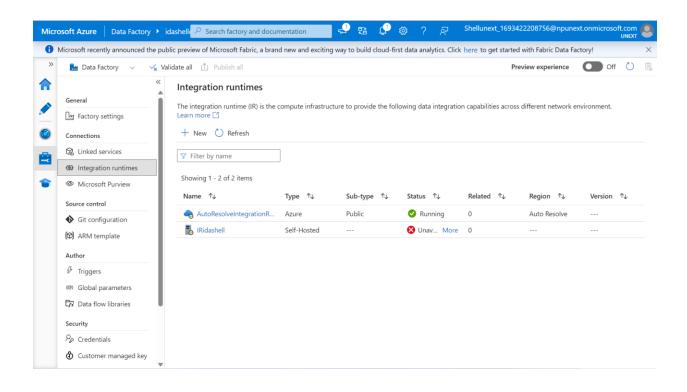
IR:

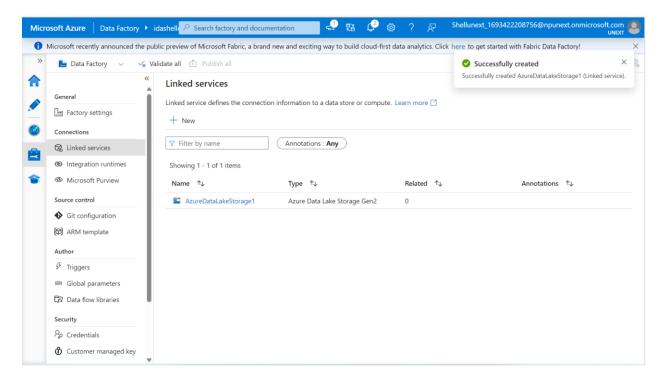
- 1. Azure Auto Resolved: If we have any cloud based storage.
- 2. Self Hosted: If we have any on-premises or local storage and want to connect to it.
- 3. Azure SSIS: If any existing SSIS package and want to run that in Azure SSIS.

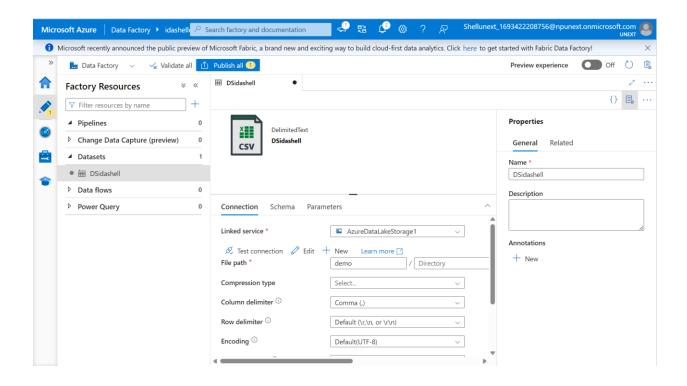
Creation of Data Factory:



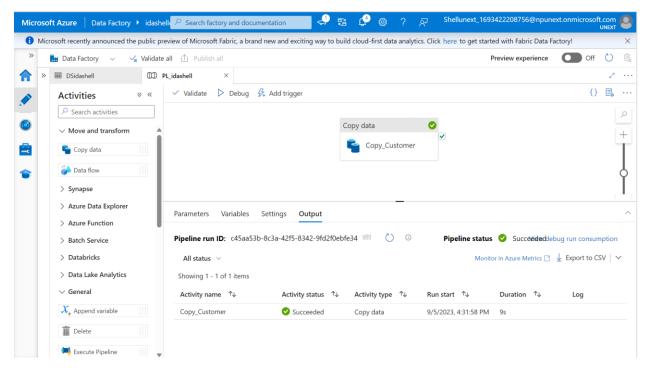
Creation of integration runtime, linked service and dataset:







Creation of pipeline:



Parameterized dataset and linked service: Each time it will run, we can give the name of dataset and linked service so that the same pipeline can be used for different parameters.

Pipeline: Overview of pipeline and simple copying of data from one source to another with and without parameterization.