### P-4: Work with the database

#### **Global Inbound and Outbound Travel**

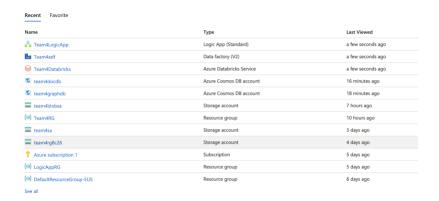
Juilee Patil – NUID 002724809 Raksha Israni – NUID: 002925990 Dristi Dani – NUID: 002756885

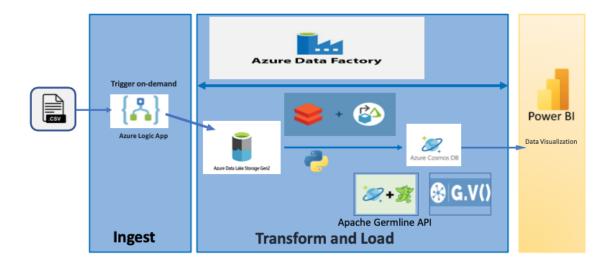
Ashwin Kumar Kuchibhotla - NUID: 002655594

### Introduction

To implement the project, we have followed our architecture diagram. We have used many services available on Azure cloud platform which are listed below.

- 1. Azure Logic Apps
- 2. Azure Databaricks
- 3. Azure Blob Storage
- 4. Azure Data Factory
- 5. Azure Cosmos DB





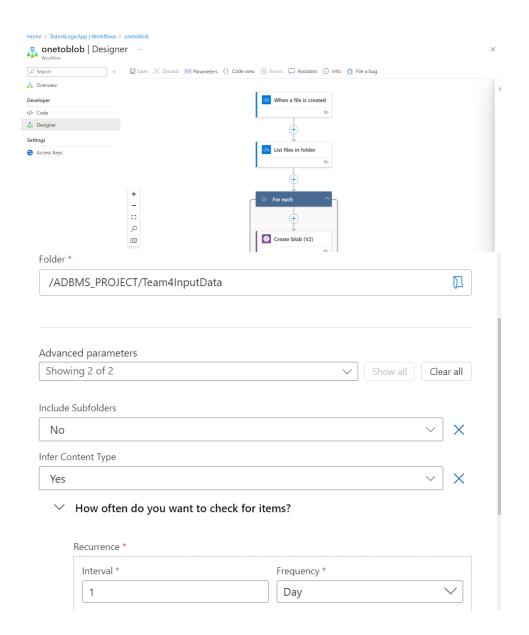
#### **Data Refresh**

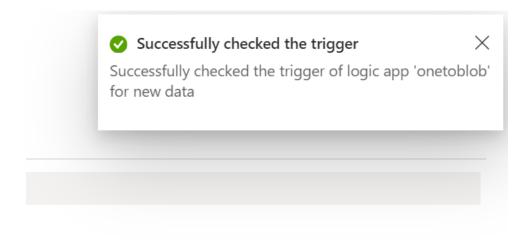
For the P4 submission, we have implemented the data refresh through Azure Data Factory and logic apps.

## **Implementation**

For loading new file through Logic App workflow -onetoblob

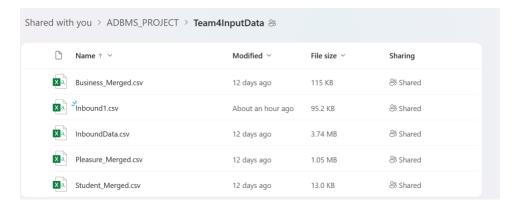
1.The Logic app will run when a new file is uploaded. It is scheduled to check every day.



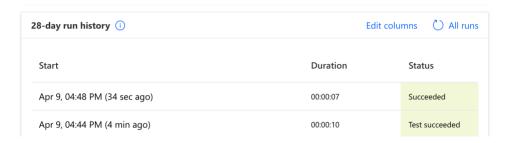


ghts

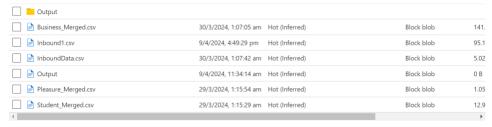
#### 2. New file added on one drive



# 3.Trigger is fired when a new file is added. The screenshot shows that the new file upload is succeeded

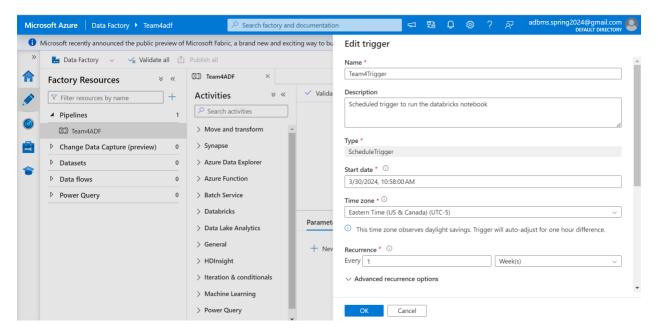


4. After the successful trigger we can verify that the file gets uploaded to blob.

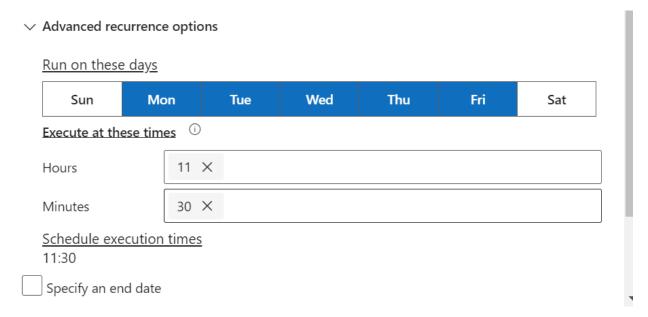


For the refresh through the ADF, we have followed the below mentioned steps.

 Created ADF trigger to run the databricks notebook to load latest data in document db and cosmosdb

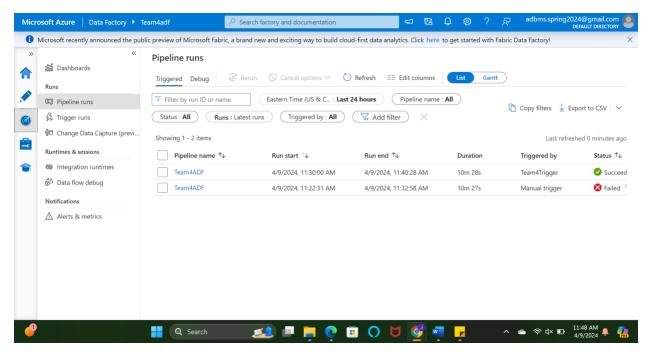


2. Scheduled the trigger to run only on weekdays at 11:30 am.



3. Once the trigger is created and scheduled as per the requirements, we can check the status of the trigger and monitor. Below is the screenshot of trigger running successfully at 11:30 am on a week day.

The second entry is a manual trigger that can be ignored. The first entry with Triggered by value as "Team4Trigger" is the scheduled trigger.



Showing 1 - 2 items

Last refreshed 0 minutes ago

Pipeline name ↑↓	Run start ↑↓	Run end ↑↓	Duration	Triggered by	Status ↑↓
Team4ADF	4/9/2024, 11:30:00 AM	4/9/2024, 11:40:28 AM	10m 28s	Team4Trigger	Succeeded
Team4ADF	4/9/2024, 11:22:31 AM	4/9/2024, 11:32:58 AM	10m 27s	Manual trigger	S Failed 🧐