Azure Data Pipeline Lab

Outline

- Lab1: Setup & query data from Azure SQL Database
- Lab2: ETL pipeline in Azure Data Factory (ADF) with Azure Data Lake (ADL)
 - Lab2-1: Create Dataflow "IMDBDataflow"
 - Lab2-2: Create Pipeline "IMDBPipeline"
 - Add "Web node" to send email
 - Need to setup LogicApps
 - Lab2-3: Set triggers (scheduler)

Lab1: Setup & query data from Azure SQL Database

Steps

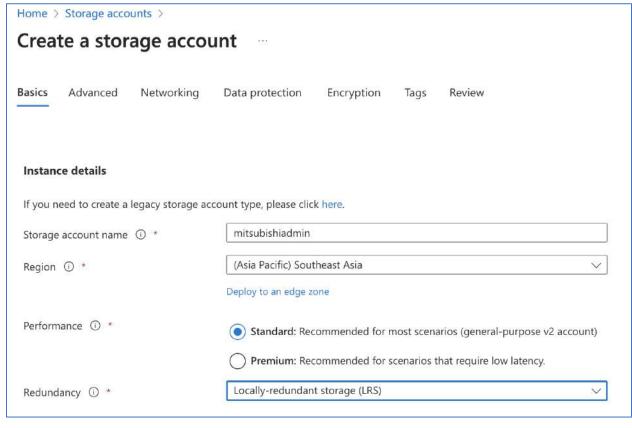
- Create "Storage account" (lake)
- Upload data source "AllElectronics.bacpac" to Container "data"

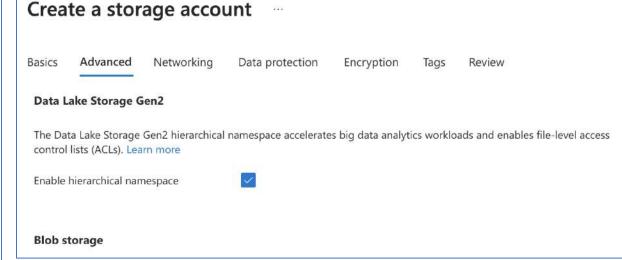
- Create "Azure SQL server" (serverless)
- Create "Azure SQL database"
- Import database (file.bacpac) from the Storage account (lake)

Now ready to query data using "Query Editor"

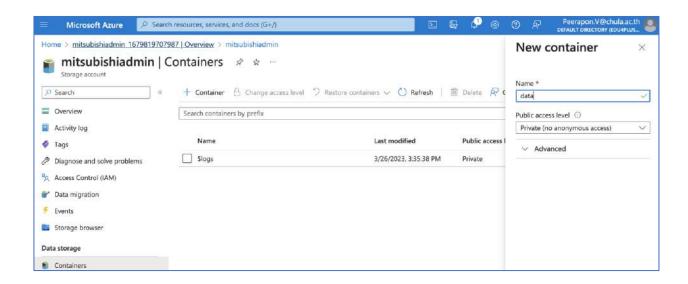
Create "Storage account"

Check to enable "Data Lake Storage Gen2" in Advanced tab





Upload data source "AllElectronics.bacpac" to Container "data"



Create Azure SQL Server

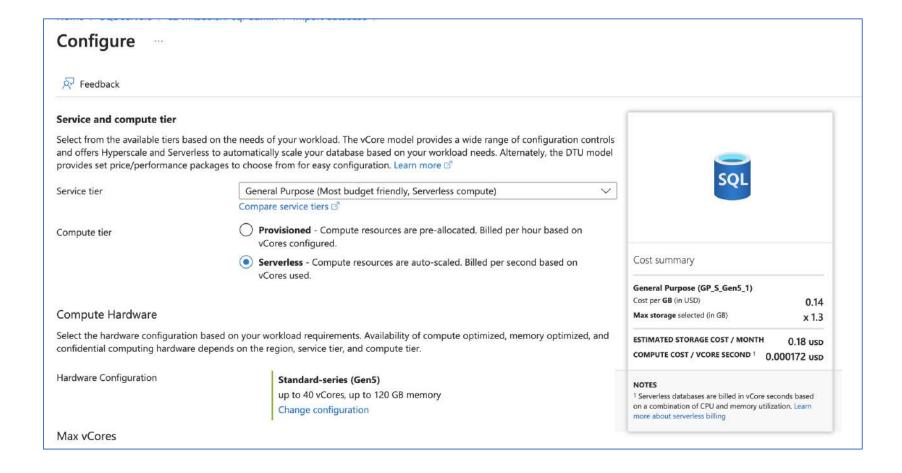
 Search resources, services, and docs (G+/) Microsoft Azure Home > SQL servers > Create SQL Database Server Microsoft az-mitsubishi-sql-admin Server name * .database.windows.net (Asia Pacific) Southeast Asia Location * Authentication Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Azure AD authentication Learn more of using an existing Azure AD user, group, or application as Azure AD admin Learn more ₺, or select both SQL and Azure AD authentication. Use only Azure Active Directory (Azure AD) authentication Authentication method Use both SQL and Azure AD authentication Use SQL authentication Server admin login * student Password * Confirm password * Review + create Next : Networking >

User: student

Password: Mitsubishi2023

| Home > SQL servers > |
|---|
| Create SQL Database Server Microsoft |
| Basics Networking Additional settings Tags Review + create |
| Configure networking access for your server. |
| Firewall rules |
| Allow Azure services and resources to access this server ① |

Set SQL Server to be "serverless"



Import database



Lab2: ETL pipeline in Azure Data Factory (ADF) with Azure Data Lake (ADL)

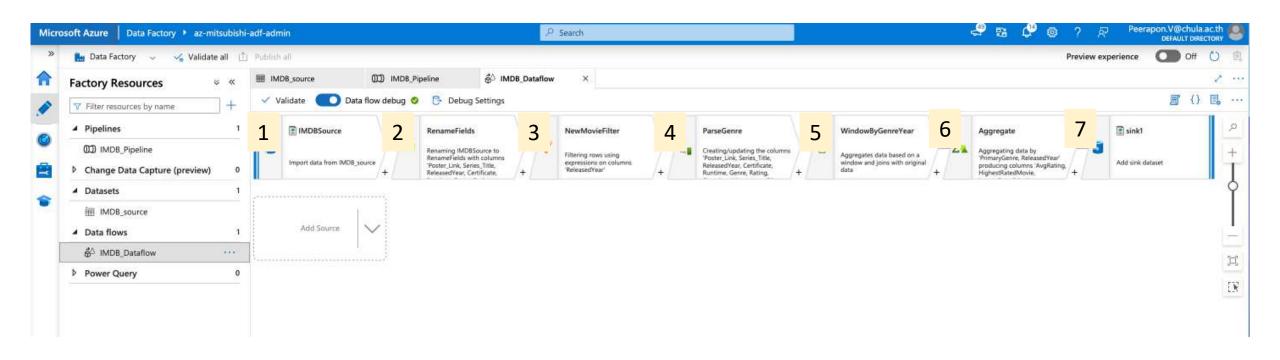
Steps

- Lab2-0: Upload "imdb-top-1000.csv" into ADL (Storage account)
- Lab2-1: Create Dataflow "IMDBDataflow"
- Lab2-2: Create Pipeline "IMDBPipeline"
 - Add "Web node" to send email
 - Need to setup LogicApps
- Lab2-3: Set triggers (scheduler)

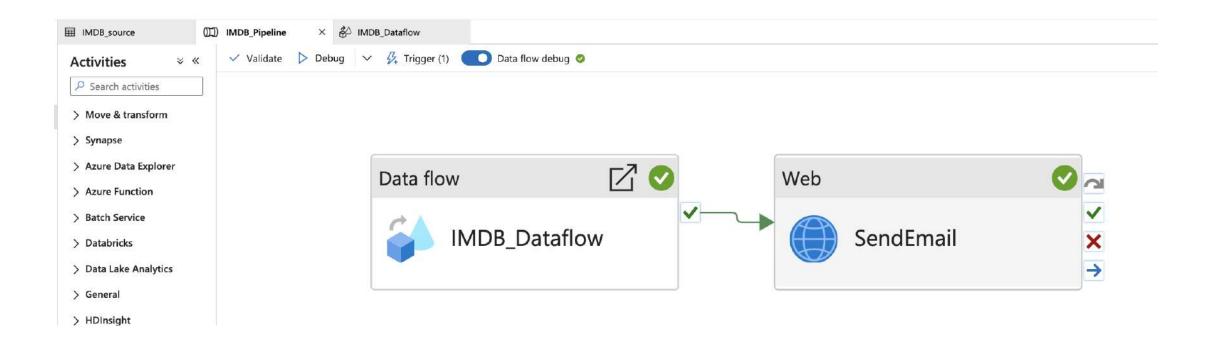
Lab2-1: Create Dataflow "IMDBDataflow"

- Create Link
 - AzureDataLakeStorage
- Create Data Set
 - IMDBsource "imdb-top-1000.csv" into ADL

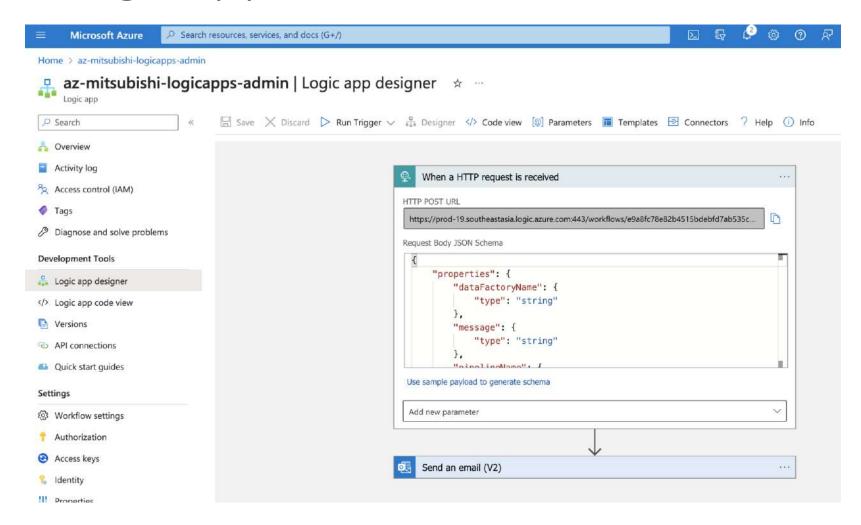
Lab2-1: Create Dataflow "IMDBDataflow" (cont.)



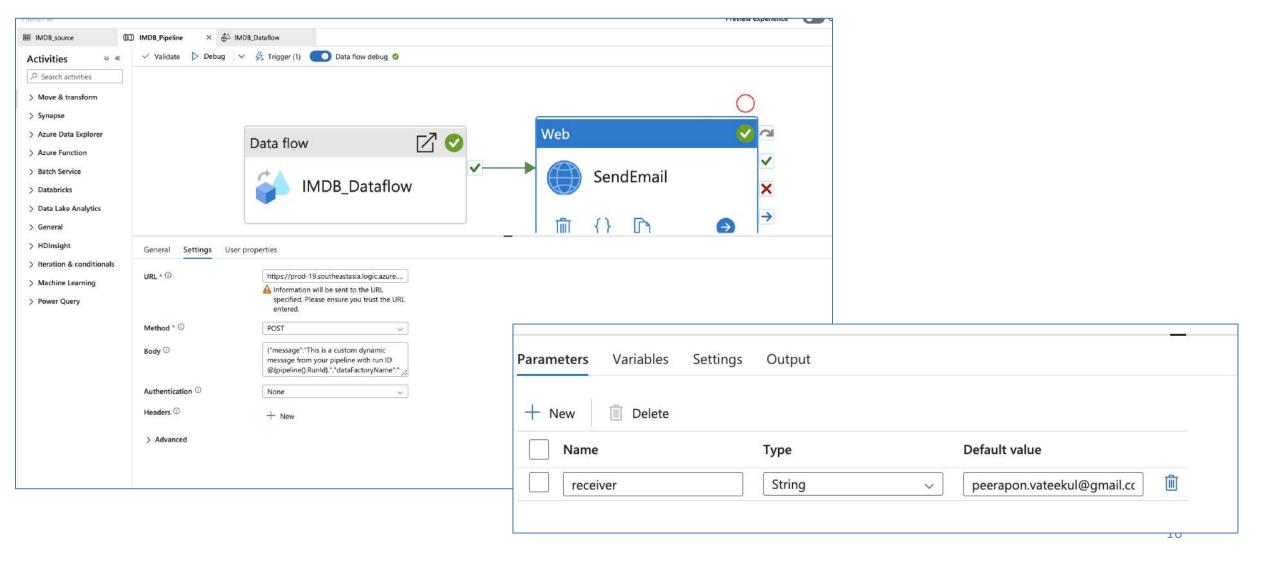
Lab2-2: Create Pipeline "IMDBPipeline"



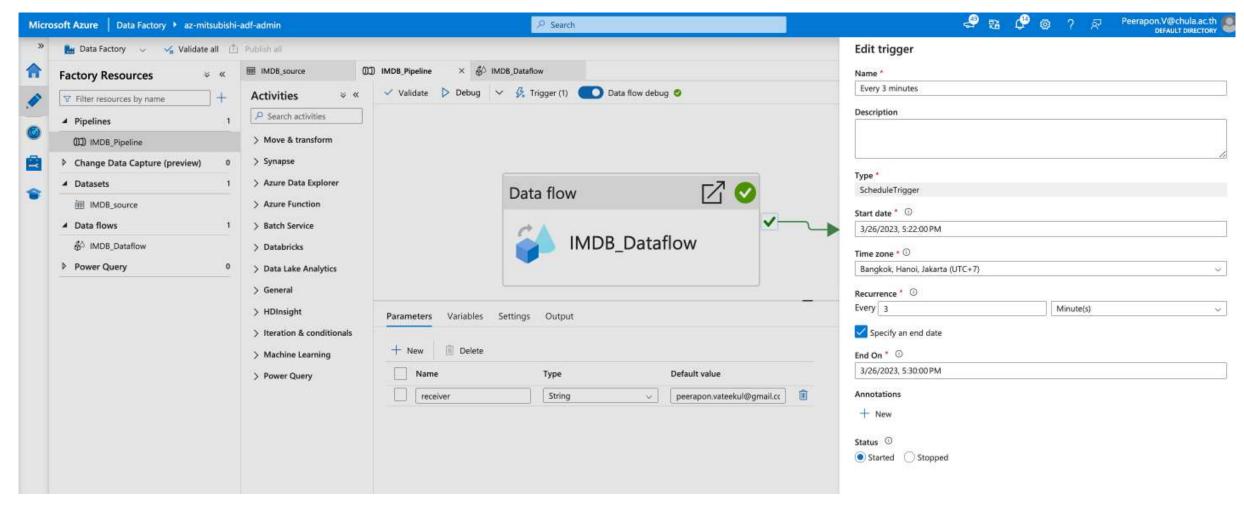
Create LogicApps



Create Web node in Pipeline



Lab2-3: Set triggers (scheduler)



Finally, you can check your trigger here ©

Monitor → Trigger runs

