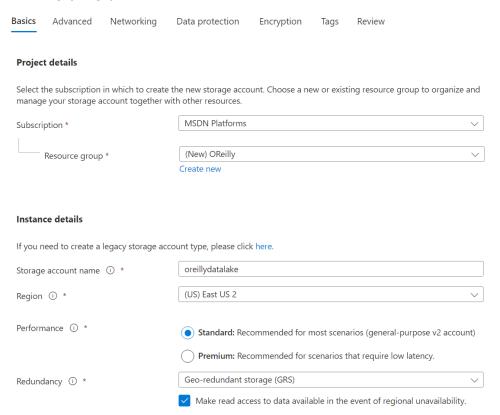
# Working with Azure Data Lake Gen2 account

### Exercise 1 – Create Azure Data Lake Gen2 Account

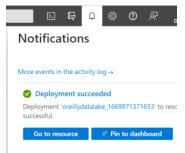
- 1. Go to Azure portal (portal.azure.com)
- 2. In the search bar, search for Storage Accounts. And select it
- 3. Click on Create New
- 4. Fill up the properties to create account
  - a. [Basics Tab]
    - i. Select subscription
    - ii. On Resource Group, click Create new and provide a name
    - iii. Provide a unique storage account name
    - iv. Select region of your choice (example East US 2)
    - v. You have options for selecting performance & redundancy options keep it as is.
    - vi. Click Next



- b. [Advanced Tab]
  - i. In Data Lake Gen2 section -> Select "Enable Hierarchical Namespace" checkbox
  - ii. Click Review

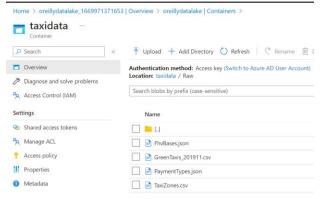


- c. Click Create
- 5. This will create a new Azure Data Lake Gen2 account



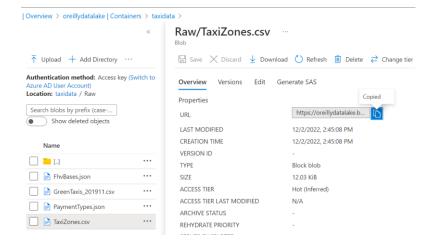
## Exercise 2 – Upload Files to Azure Data Lake Gen2 Account

- 0. In a separate browser window, go to following URL and download sample files: https://tinyurl.com/data-lake-bootcamp-2022
- 1. Open Data Lake account created in the previous step
- 2. From left pane, go to Containers
- 3. Create a new container
  - a. Name: taxidata
  - b. Public access level: Private
  - c. Click Create
- 4. Once created, open taxidata container
- 5. To store raw data, add a directory: Raw
- 6. In Raw directory, upload the files downloaded in Step 0.

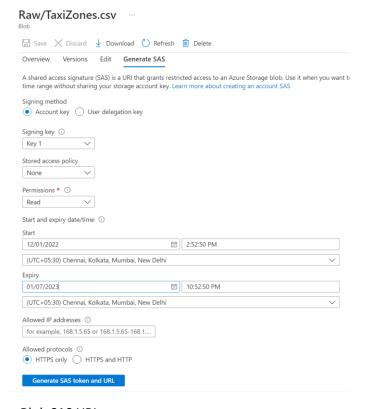


### Exercise 3 – Generate and use SAS Token

- 1. In taxidata container, click on TaxiZones.csv file.
- 2. Copy file URL for TaxiZones.csv



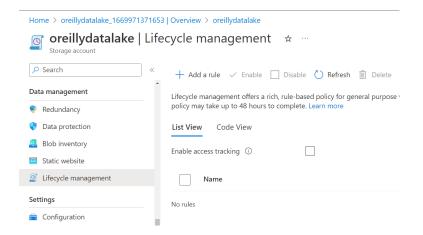
- 3. Paste URL in browser and see if its accessible
  - This should not work, since no access is available
- 4. Click on Generate SAS, and define the permissions
  - a. Permissions: Read
  - b. Start: Keep one day before to avoid Timezone issues
  - c. End: One month ahead in future
  - d. Click on Generate SAS token and URL



- 5. Copy Blob SAS URL
  - This will include file URL and SAS token
- 6. Paste URL in browser and see if its accessible
  - This should work, since access is provided via SAS token

# Exercise 4 – Configure Data Lifecycle

1. From left pane of storage account, navigate to Lifecycle management tab



### 2. Click on Add a rule

### 3. Provide details:

a. Rule name: Rule1

b. Rule scope: Apply rule to all blobs in your storage account

c. Blob type: Block blobsd. Blob subtype: Base blobs

e. Click Next

#### Define rule conditions:

- a. If Base blobs haven't been modified in 60 days, then move to Cool storage
- b. If Base blobs haven't been modified in 180 days, then move to Archive storage
- c. If Base blobs haven't been modified in 365 days, then Delete the blob
- d. Save

