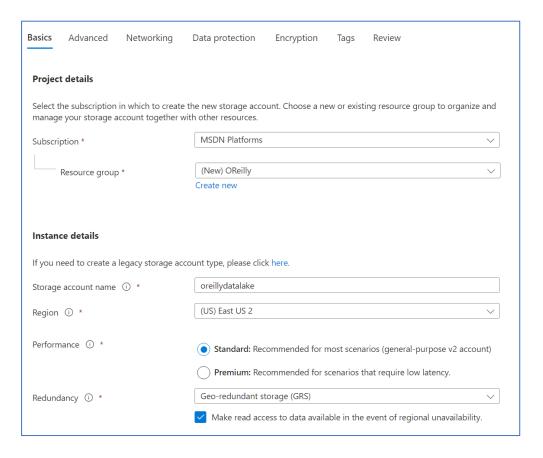
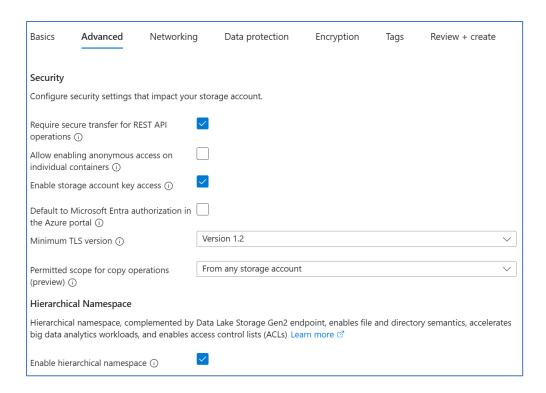
### Working with Azure Data Lake Gen2 account

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

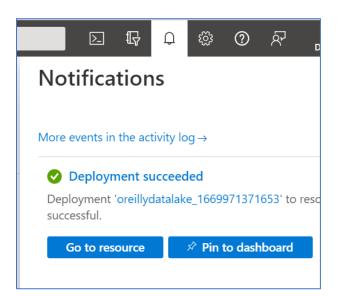
- 1. Go to Azure portal (portal.azure.com)
- 2. In the search bar, search for Storage Accounts. And select it.
- 3. Click on Create.
- 4. Fill up the properties to create account:
  - a. [Basics Tab]
    - i. Select subscription
    - ii. On Resource Group, click Create new and provide a name
    - iii. 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 Hierarchical Namespace section -> Select Enable Hierarchical Namespace checkbox.
  - ii. Click Review + create.



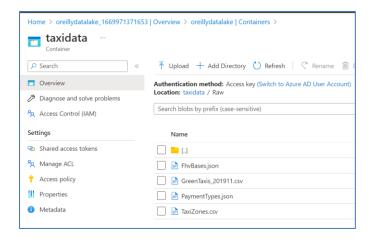
- c. Click Create.
- 5. This will create a new Azure Data Lake Gen2 account.



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

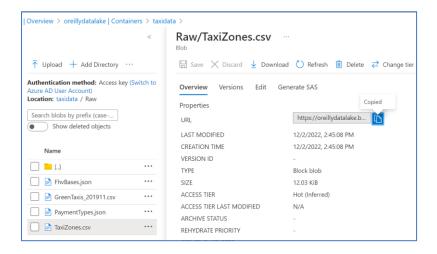
- 0. In a separate browser window, go to following URL and download sample files: <a href="https://tinyurl.com/data-lake-bootcamp-2022">https://tinyurl.com/data-lake-bootcamp-2022</a>
- 1. Open Data Lake account created in the previous step.
- 2. From left pane, under Data storage, go to Containers.
- 3. Click on Add container, fill up the properties, and click Create:
  - a. Name: taxidata
  - b. Public access level: Private

- 4. Once created, open taxidata container.
- 5. To store raw data, click on **Add Directory**, fill up the properties, and click **Save**:
  - a. Name: Raw
- 6. Click on Raw directory to open it.
- 7. In Raw directory, upload the files downloaded in Step 0.

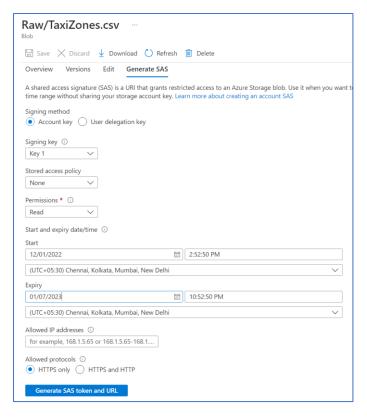


#### Exercise 3 – Generate and use SAS Token

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



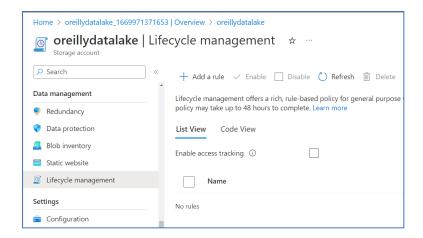
- 3. Paste URL in browser and see if its accessible.
  - This should not work, since no access is available.
- 4. Click on Generate SAS, and define the permissions:
  - a. Permissions: Read
  - b. Start: Keep one day before to avoid Timezone issues
  - c. End: One month ahead in future
  - d. Click on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



- 2. Click on Add a rule.
- 3. Provide the 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

- 4. Define rule conditions, and click on Save:
  - 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

