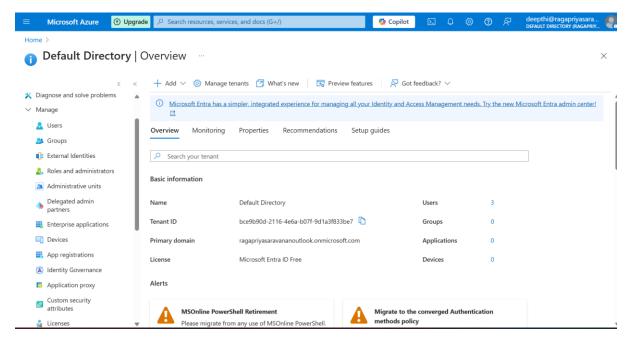
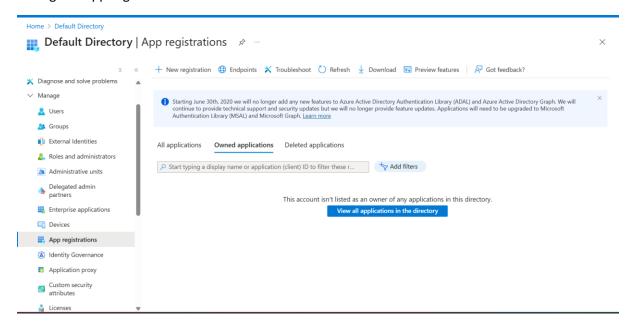
Mount to ADLS gen2 using Service Principle

Create a service principle in Azure account

Go to Azure account home page and search for Microsoft Entra ID and go to manage section

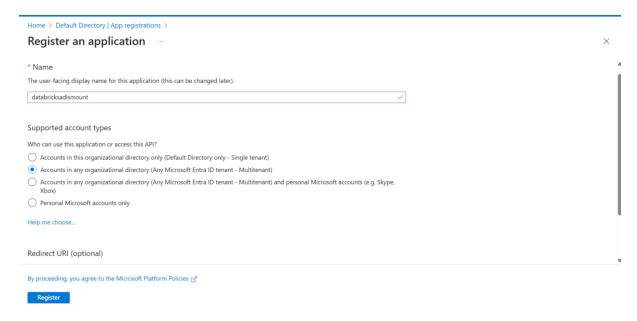


Here go to App registration

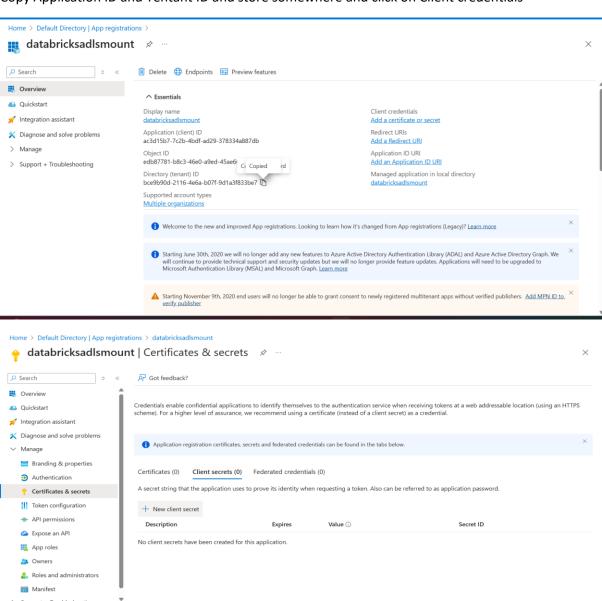


Create new registration

Give name and opt for second option in supported account types and click register

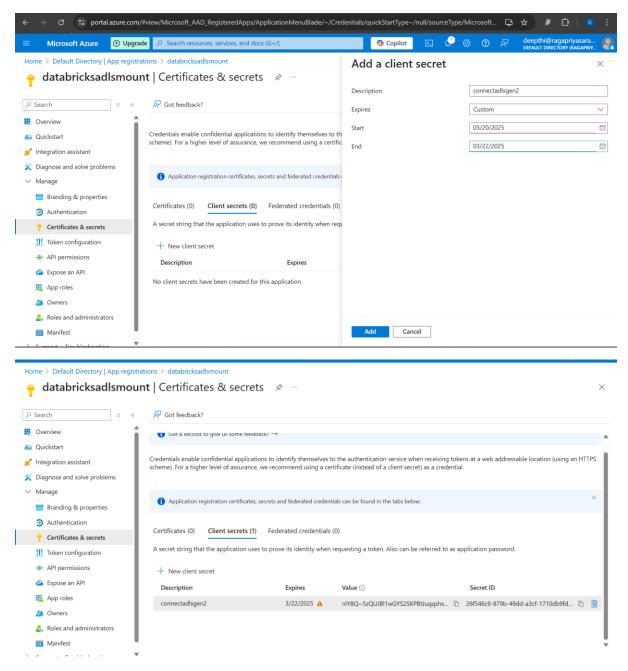


Copy Application ID and Tentant ID and store somewhere and click on Client credentials



Create new client secret

Give description and select expires, opt for custom and give start and end dates



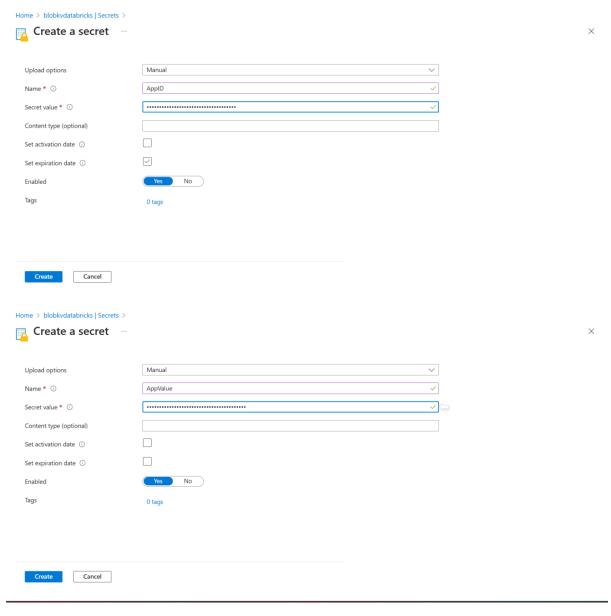
Now go to key vault and create secrets using these details

App ID key

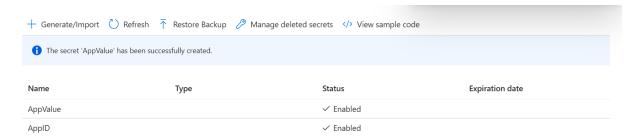
App ID value you will get from

Microsoft Entra ID-> Manage -> App register -> There Application ID

Value ID: Microsoft Entra ID-> Manage -> App register -> All Applications-> Select the one which we created-> manage-> certificates and secrets -> value need to copy the value key once application is created after it will not display



2 keys are generated



Now have to create scope with these 2 keys

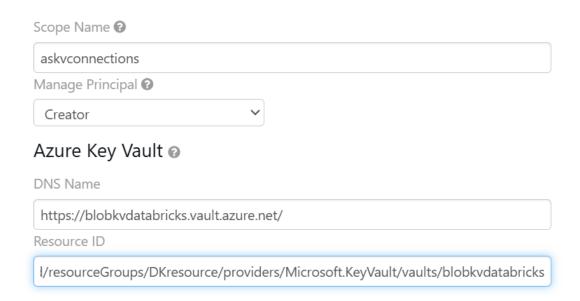
Got to https://adb-

2147694267598473.13.azuredatabricks.net/?o=2147694267598473#secrets/createScope

HomePage / Create Secret Scope

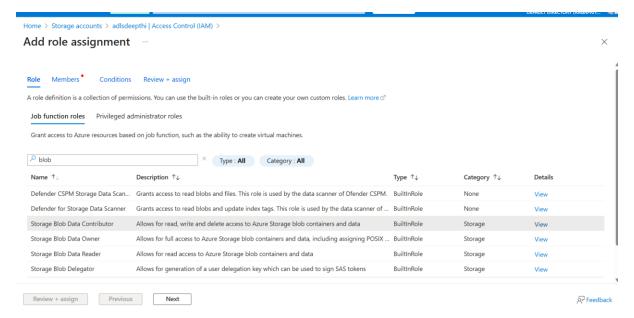
Create Secret Scope Cancel Create

A store for secrets that is identified by a name and backed by a specific store type. Learn more

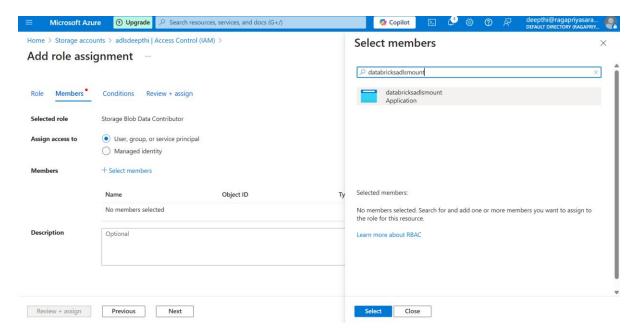


Now we have to give storage blob Data Contributor role to service principle

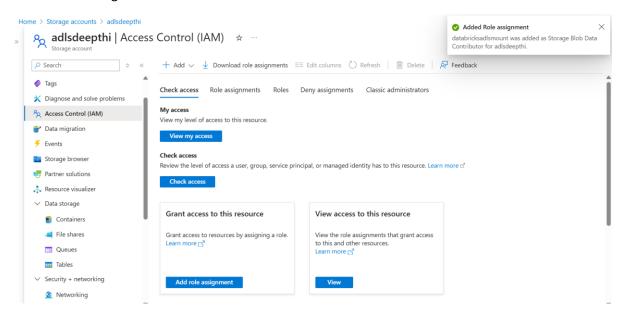
Go to storage account-> Access control-> Add role assignment



Click on next and search for application name



Role as been assigned



Now we have to write code to mount Databricks to ADLS gen2 using service principle configs = {"fs.azure.account.auth.type": "OAuth",

"fs.azure.account.oauth.provider.type":

"org.apache.hadoop.fs.azurebfs.oauth2.ClientCredsTokenProvider",

"fs.azure.account.oauth2.client.id": dbutils.secrets.get(scope="askvconnections",key="AppID"),

"fs.azure.account.oauth2.client.secret": dbutils.secrets.get(scope="askvconnections",key="AppValue"),

 $"fs. azure. account. oauth 2. client. endpoint": "https://login.microsoftonline.com/bce 9b 90d-2116-4e 6a-b07f-9d 1a 3f 833 be 7/oauth 2/token" \}$

```
dbutils.fs.mount(
  source = "abfss://ewd@adlsdeepthi.dfs.core.windows.net/",
  mount_point = "/mnt/ewd",
  extra_configs = configs)
```

```
✓ 02:25 PM (1s)
         dbutils.secrets.listScopes()
    [SecretScope(name='askvconnection'), SecretScope(name='askvconnections')]
      ▶ ✓ ✓ 02:25 PM (1s)
                                                                                                           Python ↑ ♦ □
::
         dbutils.secrets.list("askvconnections")
    [SecretMetadata(key='AppID'),
     SecretMetadata(key='AppValue'),
     SecretMetadata(key='sas-key')]
                                                                                                                                   Д
    ✓ 2 minutes ago (13s)
                                                                                                   Python 🗇 💠 []
                                                                                                                                   (1)
        configs = {"fs.azure.account.auth.type": "OAuth",
                                                                                                                                   {x}
                   "fs.azure.account.oauth.provider.type": "org.apache.hadoop.fs.azurebfs.oauth2.ClientCredsTokenProvider",
                  "fs.azure.account.oauth2.client.id": dbutils.secrets.get(scope="askvconnections",key="AppID"),
                                                                                                                                   00a
                  "fs.azure.account.oauth2.client.secret": dbutils.secrets.get(scope="askvconnections",key="AppValue"),
                  "fs.azure.account.oauth2.client.endpoint": "https://login.microsoftonline.com/
                  bce9b90d-2116-4e6a-b07f-9d1a3f833be7/oauth2/token"}
        dbutils.fs.mount(
          source = "abfss://ewd@adlsdeepthi.dfs.core.windows.net/",
          mount_point = "/mnt/ewd",
          extra_configs = configs)
```

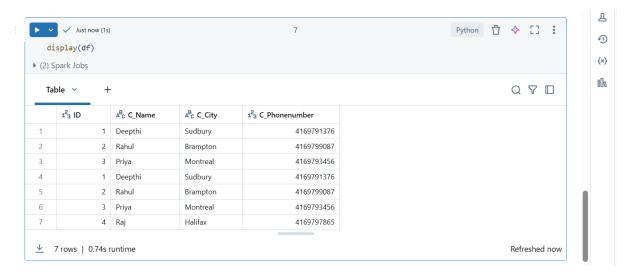
Mount is successful

All the files of that container

```
{x}
Just now (1s)
                                                                                                 Python ☐ ❖ [] :
                                                                                                                                  00a
    dbutils.fs.ls("/mnt/ewd")
[FileInfo(path='dbfs:/mnt/ewd/Customer/', name='Customer/', size=0, modificationTime=1741712870000),
FileInfo(path='dbfs:/mnt/ewd/Customers/', name='Customers/', size=0, modificationTime=1740606687000),
FileInfo(path='dbfs:/mnt/ewd/Data_MIgration_SCD_2/', name='Data_MIgration_SCD_2/', size=0, modificationTime=1741746870000),
FileInfo(path='dbfs:/mnt/ewd/Data_Migration_SCD/', name='Data_Migration_SCD/', size=0, modificationTime=1741731988000),
FileInfo(path='dbfs:/mnt/ewd/Delta_file/', name='Delta_file/', size=0, modificationTime=1741632189000),
FileInfo(path='dbfs:/mnt/ewd/Employee/', name='Employee/', size=0, modificationTime=1741712848000),
FileInfo(path='dbfs:/mnt/ewd/Orders/', name='Orders/', size=0, modificationTime=1740610891000),
FileInfo(path='dbfs:/mnt/ewd/Product/', name='Product/', size=0, modificationTime=1740621793000),
FileInfo(path='dbfs:/mnt/ewd/Rest/', name='Rest/', size=0, modificationTime=1741716963000),
FileInfo(path='dbfs:/mnt/ewd/Rest_Ap/', name='Rest_Ap/', size=0, modificationTime=1741728729000),
FileInfo(path='dbfs:/mnt/ewd/Sales/', name='Sales/', size=0, modificationTime=1740613864000),
FileInfo(path='dbfs:/mnt/ewd/post', name='post', size=21240, modificationTime=1741729074000),
FileInfo(path='dbfs:/mnt/ewd/synapse/', name='synapse/', size=0, modificationTime=1741732852000)]
```

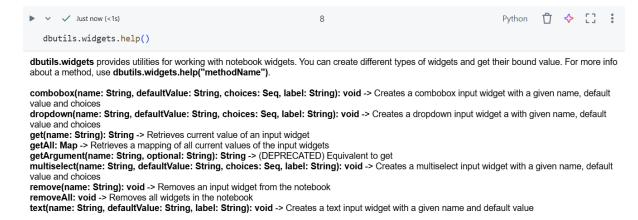
Read the data from the container

Display the data



How to create a parameter in databricks

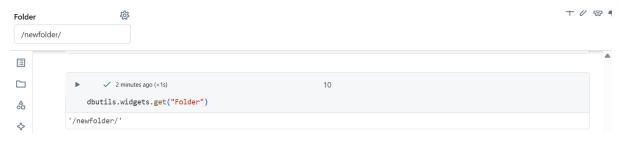
These are the commands



A folder parameter is created



Give value in parameter and get the value



Assigning the value to a variable

Write it to storage account

