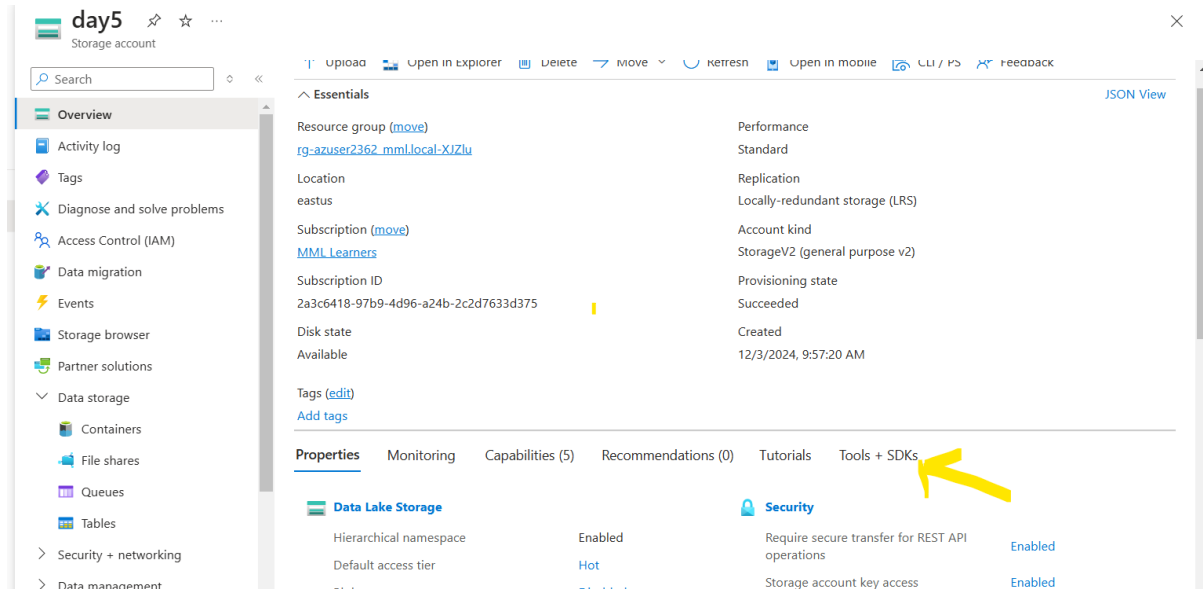


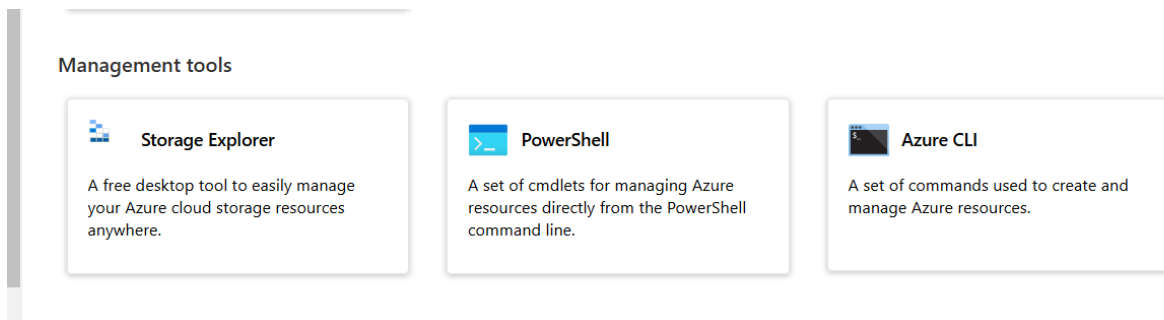
Day 5 Assignment | Dec 03 2024

Steps to Download Azure blob storage account on desktop

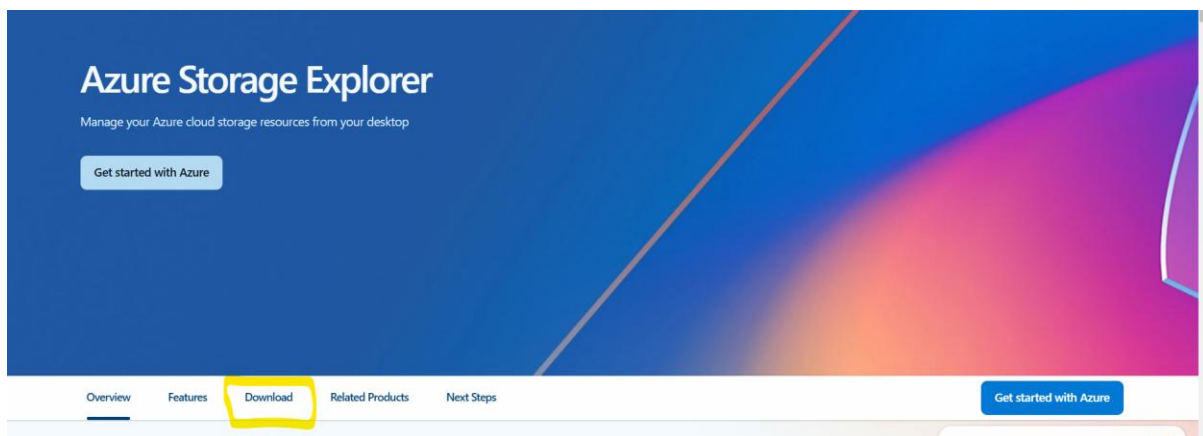
Step1. Create a storage account and in overview select “Tools/SDK”



Step2. Select storage explorer



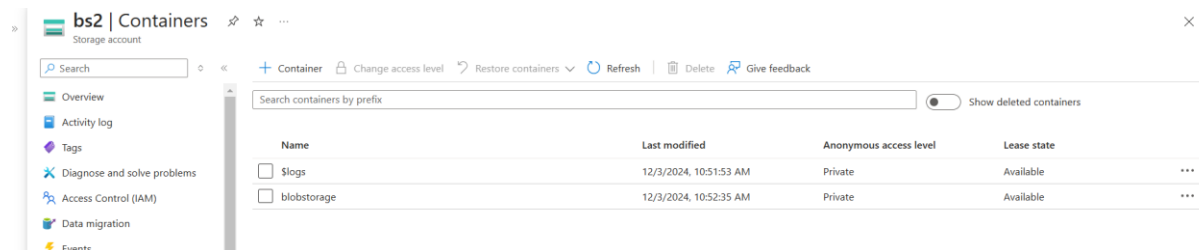
Step3: Go to download and then download “windows*64” version and then install it on desktop



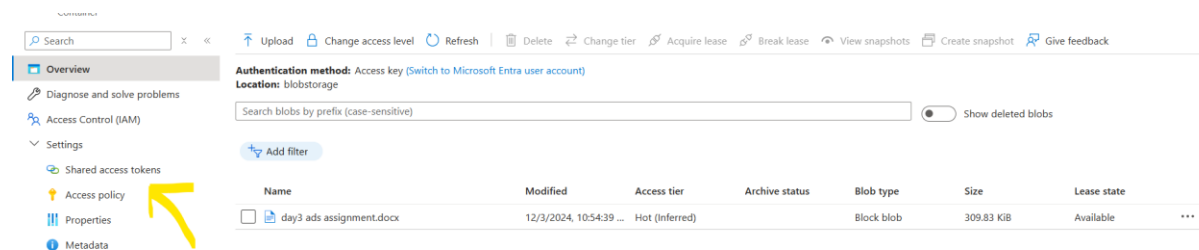
Create 2 storage accounts one for blob storage and other for Datalake gen2

1.Blob storage

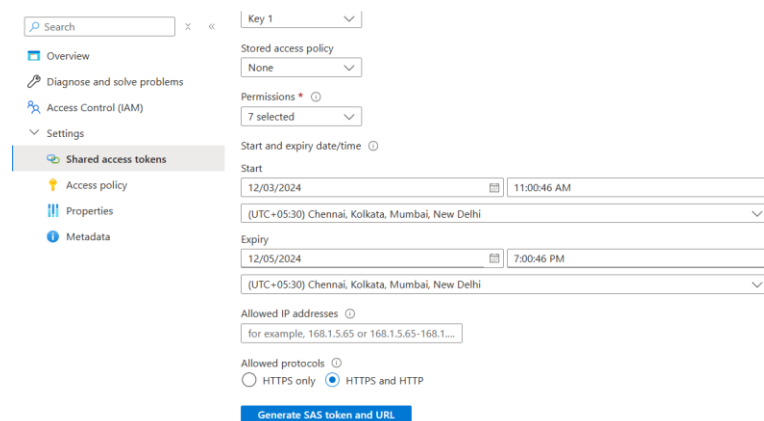
Step1: Create container



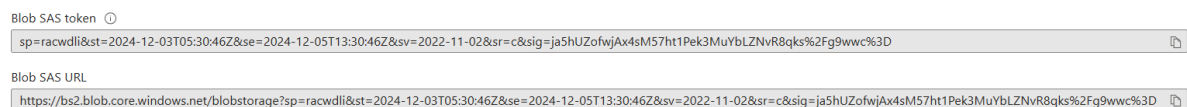
Step2: select settings/shared token access



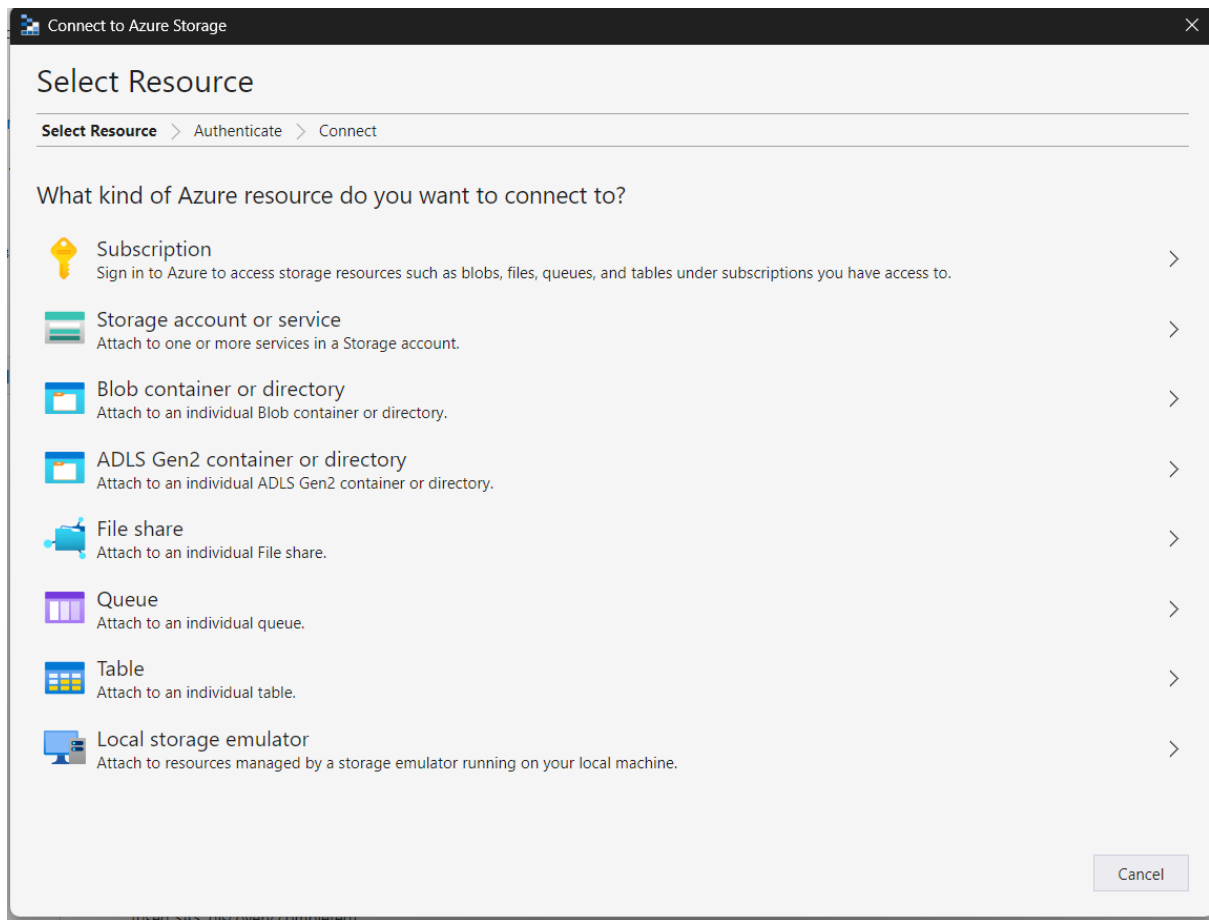
Step3:Generate SAS URL by giving following specifications



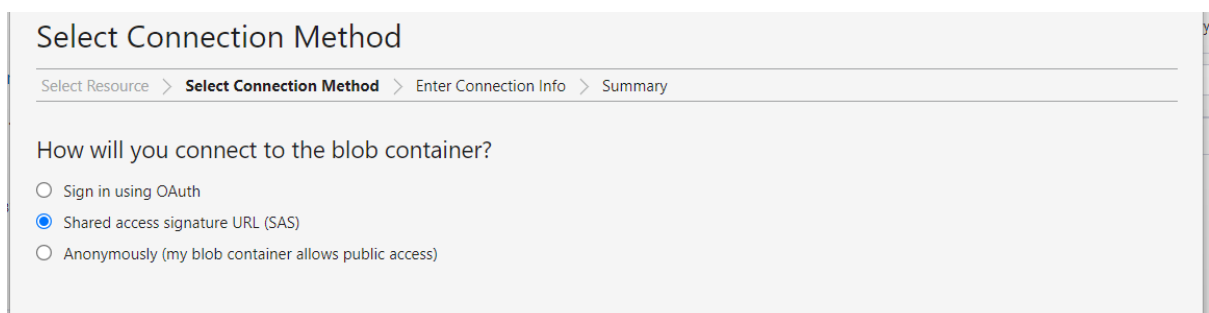
Step4: Copy blob SAS URL



Step5:In azure blob storage account, go to plugin.Select blob container or directory



Step 6:select shared access signature URL(SAS)



Step7: Paste the URL and click on “connect”

Enter Connection Info

Select Resource > Select Connection Method > Enter Connection Info > Summary

Display name:

bloburl

Blob container or directory SAS URL:

<https://bs2.blob.core.windows.net/blobstorage?sp=racwdli&st=2024-12-03T05:30:46Z&se=2024-12-05T13:30:46Z&sv=2022-11-02&sr=c&sig=ja5hUZofwjAx4sM57ht1Pek3MuYbLZNvR8qks%2Fg9wwc%3D>

Back Next Cancel

2.Blob storage data lake gen2

The steps followed are same except the 5th step

Step5 Since it is data lake account select ADLS Gen2 container under “plug in”

What kind of Azure resource do you want to connect to?

- Subscription
Sign in to Azure to access storage resources such as blobs, files, queues, and tables under subscriptions you have access to.
- Storage account or service
Attach to one or more services in a Storage account.
- Blob container or directory
Attach to an individual Blob container or directory.
- ADLS Gen2 container or directory
Attach to an individual ADLS Gen2 container or directory.
- File share
Attach to an individual File share.
- Queue
Attach to an individual queue.
- Table
Attach to an individual table.
- Local storage emulator
Attach to resources managed by a storage emulator running on your local machine.

Cancel

Delta Live Tables

▶

✓ 02:23 PM (2s)

1

SQL

✦

⌵

⋮

🗑

```
%sql
create or refresh streaming table taxi_raw_records
as
select *
from
STREAM(samples.nyctaxi.trips)
```

taxi_raw_records is defined as a **Delta Live Tables** dataset with schema:

Name	Type
tpep_pickup_datetime	timestamp
tpep_dropoff_datetime	timestamp
trip_distance	double
fare_amount	double
pickup_zip	int
dropoff_zip	int

To populate your table you must either:

- › Run an existing pipeline using the **Delta Live Tables** menu
- › Create a new pipeline: [Create Pipeline](#)

▶

✓ 02:27 PM (1s)

2

SQL

✦

⌵

⋮

🗑

```
%sql
create or refresh streaming table taxi_raw_records
(constraint valid expect(trip_distance>0.0)on violation drop row)
as
select *
from
STREAM(samples.nyctaxi.trips)
```

taxi_raw_records is defined as a **Delta Live Tables** dataset with schema:

Name	Type
tpep_pickup_datetime	timestamp
tpep_dropoff_datetime	timestamp
trip_distance	double
fare_amount	double
pickup_zip	int
dropoff_zip	int

To populate your table you must either:

- › Run an existing pipeline using the **Delta Live Tables** menu
- › Create a new pipeline: [Create Pipeline](#)

▶

✓ 02:51 PM (<1s)

3

SQL

✦

⌵

⋮

🗑

```
%sql
--silver layer:Data transformation and cleansing
--we look into short trips or trips within the same zipcode thats more than $50
create or refresh streaming table flagged_rides
as select
date_trunc('week',tpep_pickup_datetime) as week,
pickup_zip as zip,trip_distance,fare_amount
from stream(samples.nyctaxi.trips)
where (pickup_zip=dropoff_zip and fare_amount>50);
```

flagged_rides is defined as a **Delta Live Tables** dataset with schema:

Name	Type
week	timestamp
zip	int
trip_distance	double
fare_amount	double

To populate your table you must either:

- › Run an existing pipeline using the **Delta Live Tables** menu
- › Create a new pipeline: [Create Pipeline](#)

```
%sql
create or refresh materialized view weekly_stats
as select
date_trunc('week',tpep_pickup_datetime) as week,
avg(fare_amount) as avg_amount,
avg(trip_distance) as avg_distance
from live.taxi_raw_records
group by week
order by week asc
```

weekly_stats is defined as a **Delta Live Tables** dataset with schema:

Name	Type
week	timestamp
avg_amount	double
avg_distance	double

To populate your table you must either:

- › Run an existing pipeline using the **Delta Live Tables** menu
- › Create a new pipeline: [Create Pipeline](#)

i This result is stored as `_sqldf` and can be used in other [Python](#) cells.