

Azure Data Engineering

Connecting Azure Storage Explorer with Resource Container:

Microsoft Azure

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storejj | Shared access tokens

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Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Manage ACL

Access policy

Properties

Metadata

Signing key

Key 1

Stored access policy

None

Permissions *

Read

Start and expiry date/time

Start

12/04/2024 9:10:28 AM

(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Expiry

12/04/2024 5:10:28 PM

(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Allowed IP addresses

for example, 168.1.5.65 or 168.1.5.65-168.1.5.65

Allowed protocols

☒ HTTPS only ☐ HTTPS and HTTP

Generate SAS token and URL

Shared access tokens

(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Expiry

12/04/2024 5:10:28 PM

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Allowed IP addresses

for example, 168.1.5.65 or 168.1.5.65-168.1.5.65

Allowed protocols

☒ HTTPS only ☐ HTTPS and HTTP

Generate SAS token and URL

Blob SAS token

sp=r&st=2024-12-04T03:40:28Z&se=2024-12-04T11:40:28Z&spr=https&sv=2022-11-02&sr=c&sig=zQ54u9wiQIUIX318psHKAOz%2FsYvCnOIBKxCW%2F6drqc%3D

Blob SAS URL

https://azdatalakejj.blob.core.windows.net/storejj?sp=r&st=2024-12-04T03:40:28Z&se=2024-12-04T11:40:28Z&spr=https&sv=2022-11-02&sr=c&sig=zQ54u9wiQIUIX318psHKAOz%2FsYvCnOIBKxCW%2F6drqc%3D

Microsoft Azure Storage Explorer

File Edit View Help

ACCOUNT MANAG One or more accounts requires reauthentication. Manage Accounts Close

Choose which tenants you want to load subscriptions from and the subscriptions you want to view resources from.

Techademy Learning Solutions Private... azuser2367_mml.local@techademy.com

Techademy Learning Solutions Private... techademy.com

Could not access resources for this tenant. You may need to reauthenticate. See the error details for more information.

Error details... Reauthenticate now

Sign in with Azure...

Open Explorer

Connect to Azure Storage

Select Resource

Select Resource > Authenticate > Connect

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.

Connect to Azure Storage

×

Enter Connection Info

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

Display name:

storejj-2

Blob container or directory SAS URL:

<https://azdatalakejj.blob.core.windows.net/storejj?sp=racwdlmeop&st=2024-12-04T03:40:28Z&se=2024-12-05T11:40:28Z&spr=https&sv=2022-11-02&sr=c&sig=PbdLjdo8eM7h4cYZVpcrOzAk%2BPBEjwMsZ2sIFj27jXs%3D>

BackNextCancel

Connect to Azure Storage

×

Enter Connection Info

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

Display name:

storejj-2

Blob container or directory SAS URL:

<https://azdatalakejj.blob.core.windows.net/storejj?sp=racwdlmeop&st=2024-12-04T03:40:28Z&se=2024-12-05T11:40:28Z&spr=https&sv=2022-11-02&sr=c&sig=PbdLjdo8eM7h4cYZVpcrOzAk%2BPBEjwMsZ2sIFj27jXs%3D>

BackNextCancel

Creating Delta-Live Table:

The screenshot shows the Databricks interface with a workspace containing a Delta live table named `taxi_raw_records`. The table is defined with the following schema:

Name	Type
<code>tpet_pickup_datetime</code>	timestamp
<code>tpet_dropoff_datetime</code>	timestamp
<code>trip_distance</code>	double
<code>fare_amount</code>	double
<code>pickup_zip</code>	int
<code>dropoff_zip</code>	int

To populate your table you must either:

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

This result is stored as `_sqldf` and can be used in other Python cells.

The screenshot shows the Databricks interface with a workspace containing a Delta Live Table named `taxi_raw_recordsonadb`. The table is defined with the following schema:

Name	Type
<code>tpet_pickup_datetime</code>	timestamp
<code>tpet_dropoff_datetime</code>	timestamp
<code>trip_distance</code>	double
<code>fare_amount</code>	double
<code>pickup_zip</code>	int
<code>dropoff_zip</code>	int

To populate your table you must either:

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

This result is stored as `_sqldf` and can be used in other Python cells.

The screenshot shows the Databricks interface with a workspace containing a Delta Live Table named `flagged_rides`. The table is defined with the following schema:

Name	Type
<code>week</code>	timestamp
<code>zip</code>	int
<code>trip_distance</code>	double
<code>fare_amount</code>	double

To populate your table you must either:

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

This result is stored as `_sqldf` and can be used in other Python cells.

Microsoft Azure databricks

Search data, notebooks, recents, and more... CTRL + P

Hexaware-Databricks

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azuser2367_mm1local@techademy...

AzureDay4

Delta live tables

Sample job - filtering and reporting task

Sample job - ingestion task

Untitled Notebook 2024-12-04 09:24:09

File Edit View Run Help

Run all azuser2367_mm1local's... Schedule Share

Just now (<1s) 4

SQL

```
%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

This result is stored as `_sqldf` and can be used in other Python cells.

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File Edit View Run Help

Run all azuser2367_mm1local's... Schedule Share

Just now (<1s) 5

SQL

```
%sql
CREATE OR REPLACE MATERIALIZED VIEW top_m
AS SELECT
  weekly_stats.week,
  ROUND(avg_amount,2) as avg_amount,
  ROUND(avg_distance,1) as avg_distance,
  fare_amount,trip_distance, zip
FROM live.flagged_rides
LEFT JOIN live.weekly_stats ON flagged_rides.week = weekly_stats.week
ORDER BY fare_amount DESC;
```

top_m is defined as a Delta Live Tables dataset with schema.

Name	Type
week	timestamp
avg_amount	double
avg_distance	double
fare_amount	double
trip_distance	double
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

This result is stored as `_sqldf` and can be used in other Python cells.