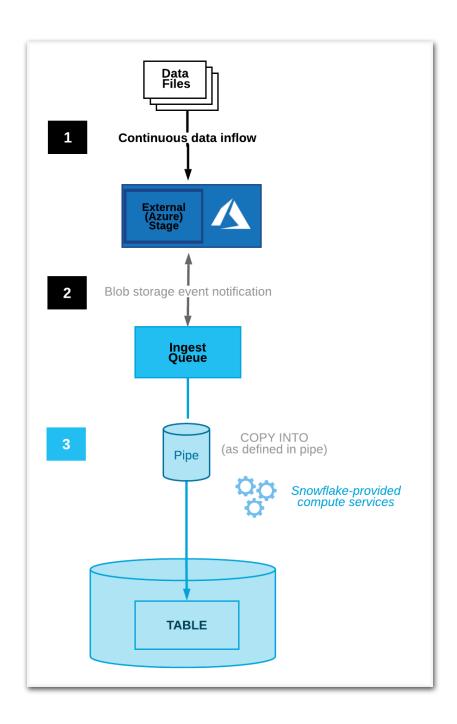
Automating Snowpipe for Microsoft Azure Blob Storage



Snowflake supports the following types of blob storage accounts:

- 1. Blob storage
- 2. Data Lake Storage Gen2
- 3. General-purpose v2

How to create External Stage and Load Data Into snowflake Table without snow pipe?

1) creating External Stage

```
2)
    Creating FileFormat
***********************

    create azure blob storage external stage

CREATE OR REPLACE STAGE azure_blob_stage
URL = 'azure://storageaccount.blob.core.windows.net/container/folder/'
CREDENTIALS = (AZURE_SAS_TOKEN = 'z32bt4FIFQ5NTkY%3D&sdd=1');
list @azure_blob_stage;
-- Create CSV File Format
create or replace file format my_csv_format
type = csv
field_delimiter = '|'
skip_header = 1
null_if = ('NULL', 'null')
empty_field_as_null = true
compression = none;
-- -- copy into table using external stage
copy into dept from @azure_blob_stage file_format = my_csv_format;
-- verify target table.
select * from dept;
```

How to create External Stage and Load Data Into snowflake Table with snow pipe?

- 1) STORAGE INTEGRATION
- 2) NOTIFICATION INTEGRATION
- 3) Creating External Stage
- 4) Creating File Format

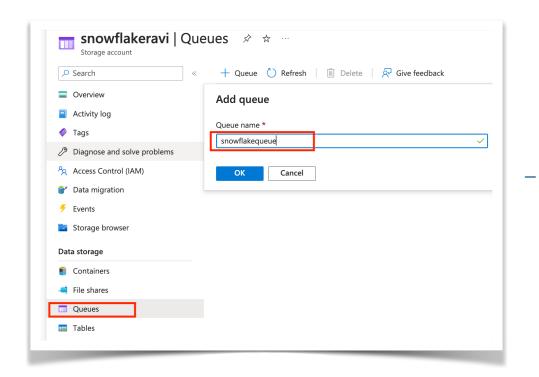
CREATE OR REPLACE STORAGE INTEGRATION AZURE_INT TYPE = EXTERNAL_STAGE STORAGE_PROVIDER = 'AZURE' ENABLED = TRUE AZURE_TENANT_ID = '89556edd--43c1' storage_allowed_locations = ('*');

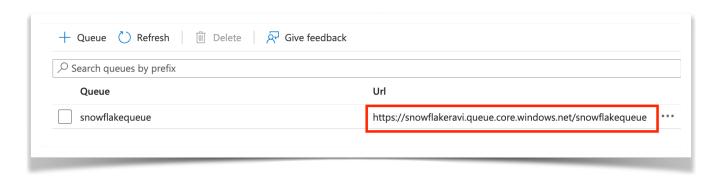
desc integration AZURE_INT;

DESC STORAGE INTEGRATION AZURE INT:



Creating Queue in storage account.





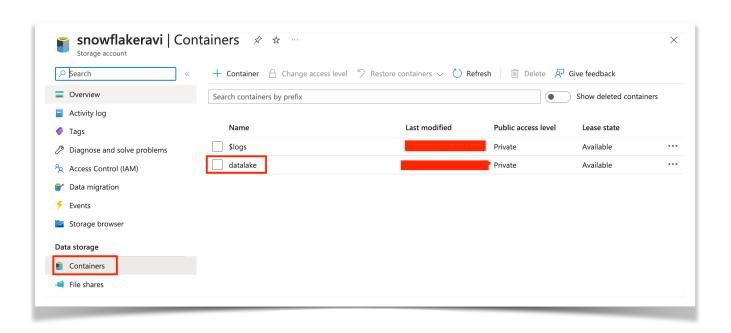
-- Create External Queue Integration

CREATE OR REPLACE NOTIFICATION INTEGRATION azure_data_event
ENABLED = TRUE
TYPE = QUEUE
NOTIFICATION_PROVIDER = AZURE_STORAGE_QUEUE
AZURE_STORAGE_QUEUE_PRIMARY_URI = 'https://snowflakeravi.queue.core.windows.net/snowflakequeue'
AZURE_TENANT_ID = '89556edd-0e4a-43c1';

desc notification INTEGRATION azure_data_event;

	property	property_type	property_value	property_default
	ENABLED	Boolean	true	false
	AZURE_STORAGE_QUEUE_PRIMARY_URI	String		
,	AZURE_CONSENT_URL	String	https://login.microsoftonline.com	
1	AZURE_MULTI_TENANT_APP_NAME	String	pgv3qvsnowflakepacint_1000000000000000000000000000000000000	
	COMMENT	String		

Create Storage Account -> Container->folder



```
****************************
-- Create External Storage
create or replace stage my_azure_stage
 url='azure://snowflakeravi.blob.core.windows.net/datalake/landing/'
 file format = my csv format
 STORAGE INTEGRATION = AZURE INT;
 list @my_azure_stage;
-- Create snow pipe for external storage read
 -- create pipeline
 create or replace pipe dept snowpipe
 auto ingest=true
 integration='AZURE_DATA_EVENT'
 copy into dept from @my_azure_stage;
--https://snowflakeravi.queue.core.windows.net/queue
--truncate table dept;
select * from dept;
ALTER PIPE dept_snowpipe refresh;
-- Verify pipe is paused and has pendingFileCount 0
SELECT SYSTEM$PIPE_STATUS('dept_snowpipe');
-- Pause pipe
ALTER PIPE dept_snowpipe SET PIPE_EXECUTION_PAUSED = false
```