Snow flake integration with cloud storage

Wednesday, June 21, 2023 10:35 AM

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Step 1:
Create the Integration storage in snow flake
create or replace storage integration gcs_int
  type = external stage
  storage_provider = 'GCS'
  enabled = true
  storage_allowed_locations =('gcs://snowflake_forex/');
2: grant the permission to access the storage bucket
     2.1 - To grant Permission
      i)Go to IAM Service
     II) Go to roles in IAM Service
     iii)create a role
            Give title, description, id
           Add the Permission
           To just load & unload data from gcp to snowflake and viceversa
            (like get,create,delete,object get,object list)
     2.2 Assign the Role to Cloud storage Account
      i)go to cloud Storage
     li)Select the Bucket and click on Permission
     lii)click on Add Principle-select storage account that created in snow flake
     Iv)Select the role that has created previously.
Step 3:
Create a external stage and grant the permission
  i) Create a role
  j) Grant create stage on schema to the role
  k) Grant usgae on integration to role
--**** creating and grant the role********
create or replace role my_role;
grant create stage on schema public to role my_role;
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grant usage on integration gcs_int to role my_role;

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Step 4:
Create the schema and use it
create or replace schema tutorial1.landing_zone;
use schema tutorial1.landing_zone;
Step 5:
Create the file format that exist in cloud storage
create or replace file format my_csv_format
type='csv'
compression='auto'
field_delimiter=','
record_delimiter='\n'
skip header=1
null_if=('\\N');
Step 6:
Create the stage with the properties:
  i) url='bucket link'
  j) Storageintegration=above created in step 1
  k) File_format= above created in step5
To alter stage use "alter stage stage name"
create or replace stage my_gcs_stage
url='gcs://snowflake_forex/'
storage_integration=gcs_int
file_format=my_csv_format;
Step 7:
Check the ware house is in suspend or resume
If suspended Resume it
To Resume the ware house use
"alter warehouse warehouse_name Resume"
alter warehouse compute_wh Resume;
Step8:
Check the stage whether its pointed to cloud bucket
By list @stagename
list @my_gcs_stage;
Step9:
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Create the Table with column names

create or replace table forex(
time varchar,
openn varchar,
high varchar,
low varchar,
closee varchar
)comment='this is forex table with landing_schema';
show tables;
select * from forex limit 100;

Step 10:

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Load the data from Cloud storage to table: By using copy into table_name From @stage File_format=file_format_name On error=continue

COPY into forex from @my_gcs_stage file_format=my_csv_format on_error=continue;

Check the data is loaded succesfully by using Select * from table_name

select * from forex limit 100;