

Import from MSSQL to Azure PostgreSQL on Schedule

Last updated by | Karthickselvam M | Jul 7, 2021 at 5:41 PM PDT

Issue

Customer wants to import few tables from On-Premises MSSQL Server/SQL Server IaaS to Azure Database for PostgreSQL server using COPY command and also need to schedule it.

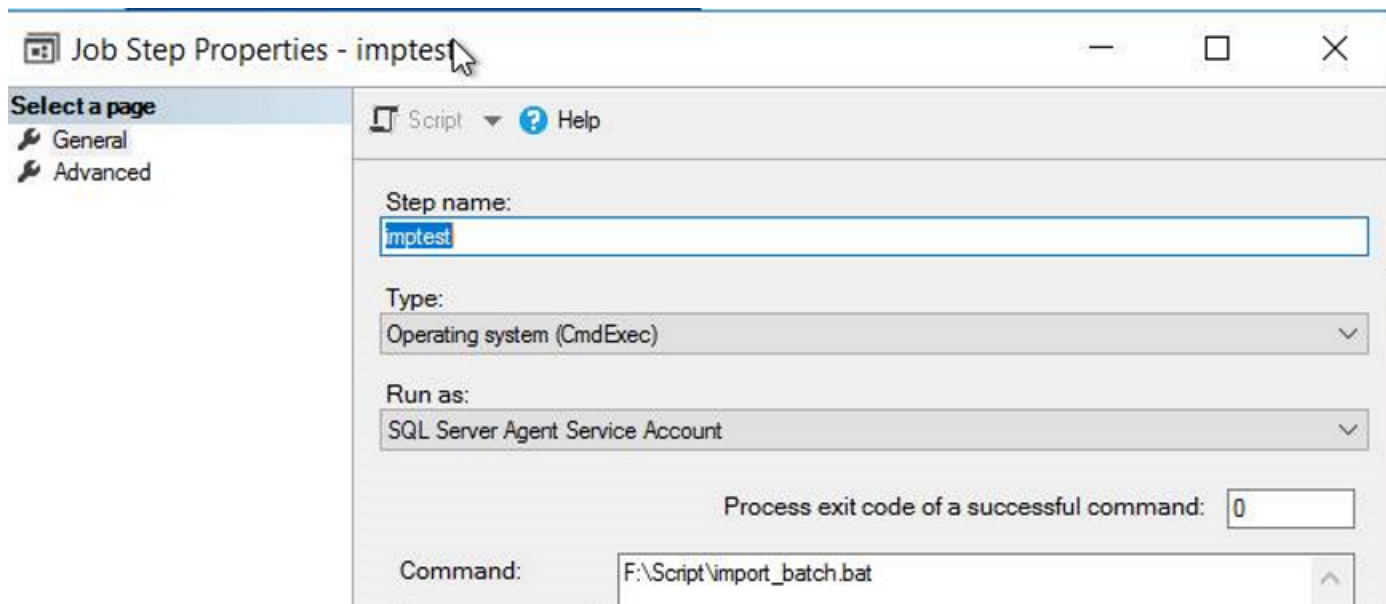
Investigation/Analysis

PG_CRON extension is not supported in Azure Database for PostgreSQL Single server hence it cannot be scheduled from PostgreSQL server.

Mitigation

Below workaround helps to schedule import on PostgreSQL from MSSQL

1. Export the Data from MSSQL server to CSV file.
2. Copy the CSV file (F:\Script\Importdata.txt) to Azure VM. (Not required if the SQL server is in Azure and if it is in the same region).
3. Install PGAdmin in On-Premises SQL server VM.
4. Create a Text file with the content **\COPY impptest FROM 'F:\Script\importdata.txt' DELIMITERS ',' CSV QUOTE '''';** and save it as **txt** file in the VM (F:\script\Script.txt)
5. Create a Batch file with the below query **"C:\Program Files\pgAdmin 4\v5\runtime\psql.exe" "host=servername port=5432 dbname=import_db user=admin@servername password=pwd sslmode=require" <F:\Script\script.txt** and save it with **.bat** extension.
6. Create a SQL server Agent Job with below steps.
 - a. Export the Data to CSV file
 - b. Copy the Data to Azure VM (Not required if the server is in Azure and in same region)
 - c. Execute the batch file to import the Data.



7. Execute the Job and verify if you are able to see the data in the Target server.

8. Schedule the Job as per the requirement.

Repro Steps

Refer to Mitigation section

Public Doc Reference

<https://docs.microsoft.com/en-us/azure/postgresql/concepts-extensions> <https://docs.microsoft.com/en-us/sql/ssms/agent/create-a-job?view=sql-server-ver15> <https://docs.microsoft.com/en-us/sql/ssms/agent/create-a-schedule?view=sql-server-ver15>

Root Cause Classification

/Root Cause: PostgreSQL Single Server/Migration/Advisory