How to Bulk Insert data into MI database

Last updated by | Charlene Wang | Oct 12, 2020 at 7:46 PM PDT

If your application logic relies on BULK INSERT from external files, you won't be able to continue loading from local file system anymore.   Managed Instances are PaaS offering and access to local disk or VM is not allowed. However you can use BULK INSERT from Azure Blob Storage, same way as with other SQL Database service flavors.

Use article https://techcommunity.microsoft.com/t5/azure-sql-database/loading-files-from-azure-blob-storage-into-azure-sql-database/ba-p/386133, or the following script as a quick reference:

```sql
-- create test database
CREATE DATABASE  subbutest;

USE subbutest;

--Create master key
CREATE MASTER KEY ENCRYPTION BY PASSWORD = 'P@ssw0rd';

-- Create SAS credentials
CREATE CREDENTIAL [https://subbukwestdiag614.blob.core.windows.net/<testbackup>]
WITH IDENTITY = 'SHARED ACCESS SIGNATURE',
SECRET = 'sv=2017-04-17&ss=bfqt&srt=sco&sp=rwdlacup&se=2018-01-12T04:57:45Z&st=2018-01-11T20:57:45Z&spr=https&
GO

--Warning: <URL> parameter below needs to point to Azure container where
-- data files are stored. It must not end with '/'!

-- Create External Data source
CREATE EXTERNAL DATA SOURCE MyAzureBlobStorage
WITH ( TYPE = BLOB_STORAGE, LOCATION = 'https://subbukwestdiag614.blob.core.windows.net/testbackup/test123.bak
CREDENTIAL= MyAzureBlobStorageCredential);
GO

--UPLOAD .csv or .dat file to your storage account which is accessible on <URL>

CREATE TABLE Product (ProdId int, ProdName varchar(100))

SELECT *
FROM OPENROWSET(BULK 'Products.dat', DATA_SOURCE = 'MyAzureBlobStorage', SINGLE_CLOB) AS [Data]

BULK INSERT Product
FROM 'Products.dat'
WITH ( DATA_SOURCE = 'MyAzureBlobStorage',FIELDTERMINATOR = ',');

SELECT * FROM Product;
```

How good have you found this content?

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