TASK 2

Configure FTP/SFTP Server and Create an ADF Pipeline for Data Extraction: Set up access to FTP/SFTP servers and build a pipeline in Azure Data Factory to extract files or datasets from these sources. This facilitates integration with external systems or partners.

(A sample SFTP is used using: https://sftpcloud.io/tools/free-sftp-server, it allows, 1GB free storage of cloud based SFTP server for one hour)

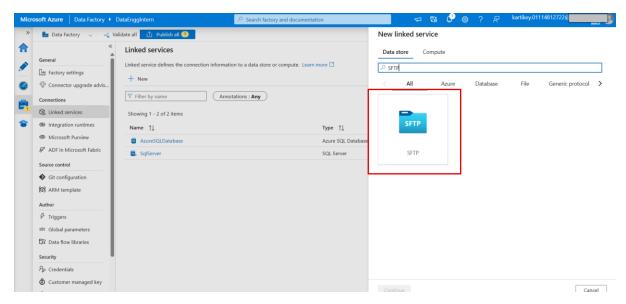
Step 1: Create Linked Services (Connections)

We'll create two linked services:

- One for your **SFTP**
- One for Azure SQL Database

A. Creating Linked Service for SFTP

- 1. Go to Manage > Linked Services > Click + New.
- 2. In the search box, type **SFTP**, then select it and click **Continue**.



3. Fill in the details:

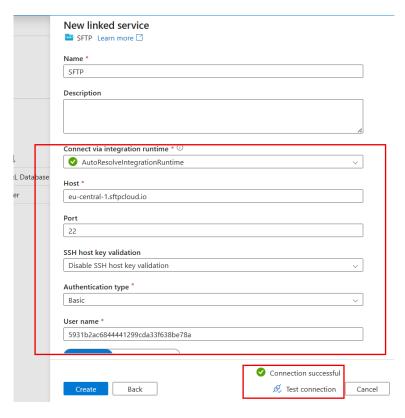
• Name: <name>

• **Host**: sftp.xxxxx.com

Database name: <db_name>

• Authentication: SSH or Basic authentication(enter username/password)

- 4. Click **Test Connection** (make sure it's green).
- 5. Click Create.



B. Creating Linked Service for Azure SQL Database

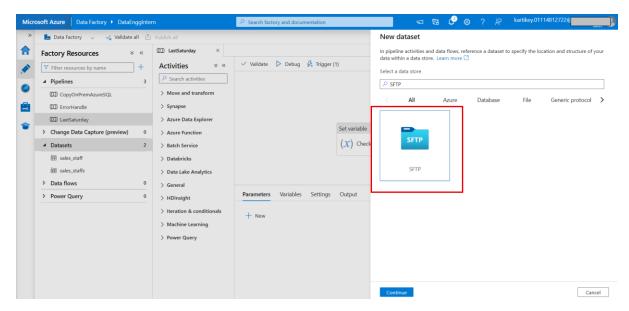
1. We created Azure SQL Database in Task 1

Step 2: Create Datasets

These datasets define the structure and source/target of the data being moved.

A. Create SFTP Dataset

1. Go to **Author** > Datasets > + **New dataset**.



- 2. Choose:
 - o **SFTP**
- 3. Choose file format
- 4. Choose:
 - File name
 - Linked Service
 - File Path
- 5. Click OK.

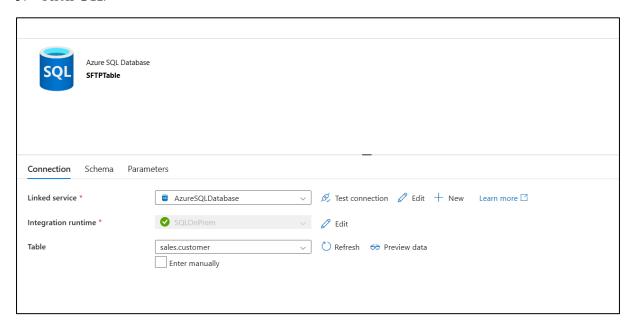
Set properties Name DelimitedText2 Linked service * SFTP File path eu-central-1.sftpcloud.io / sales customers First row as header Import schema From connection/store From sample file None

Cancel

Back

B. Create Sink Dataset (Azure SQL Database)

- 1. Click + New dataset.
- 2. Choose:
 - o Azure SQL Database
 - Linked Service: <service name>
- 3. Name it:
- 4. Select the target table name (can be pre-created or we can let ADF create it).
- 5. Click OK.



Step 3: Create a Copy Pipeline

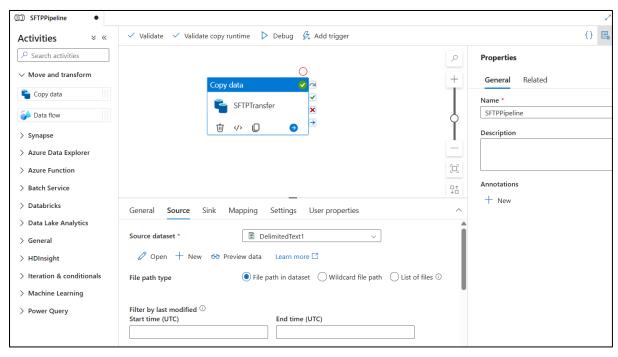
A. Creating the Pipeline

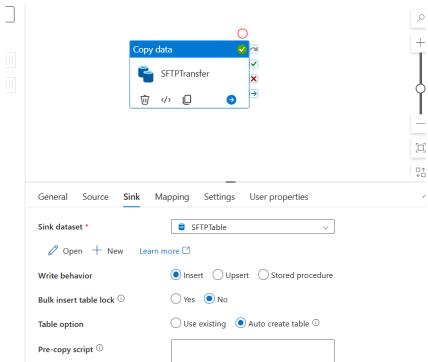
- 1. In Author, click Pipeline.
- 2. Name the pipeline: pipeline_name>.

B. Add a Copy Data Activity

- 1. Drag Copy Data from the Activities pane to the pipeline canvas.
- 2. Select it and configure:
 - o Source tab:
 - Dataset:
 - Query/table: double-check settings
 - o Sink tab:

- Dataset: <table_name>
- We can auto-create the table or map columns manually in the Mapping tab





TESTING THE PIPELINE



DATA COPIED SUCCESSFULLY IN AZURE SQL

