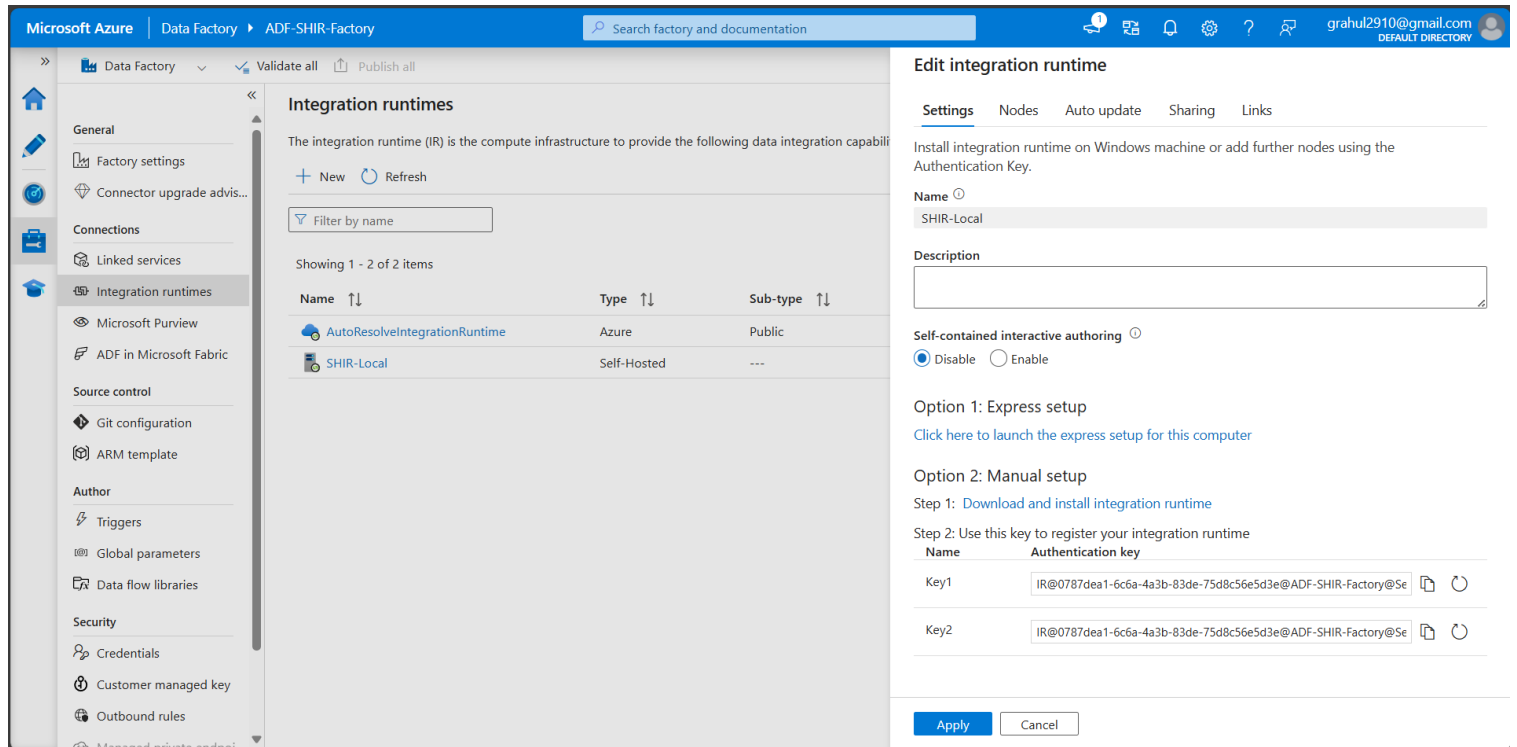


- Enabled public access and SQL authentication.

Step 3: Configure Azure Data Factory

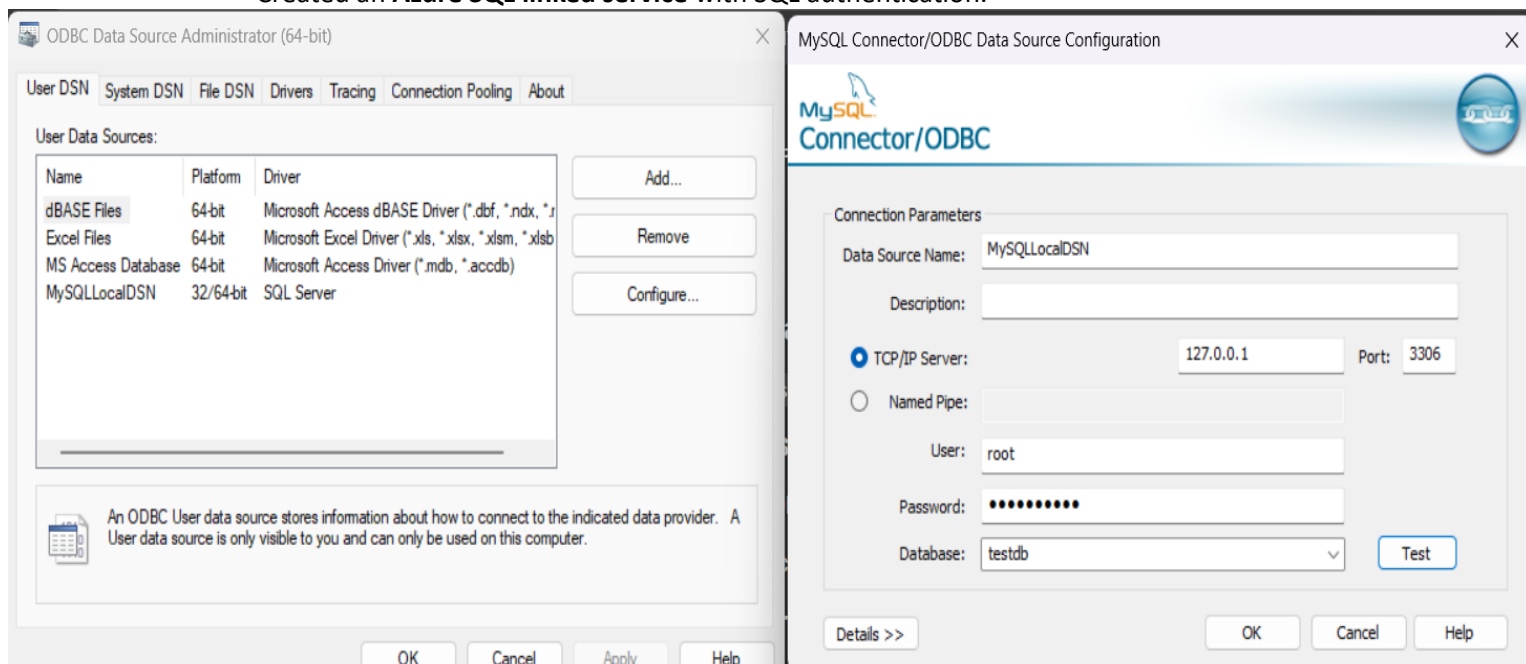
- Created a new **Azure Data Factory** instance.
- Downloaded and installed **Self-hosted Integration Runtime (SHIR)** on the local machine.



- Registered SHIR using the authentication key from ADF.

Step 4: Create Linked Services

- Created an **ODBC linked service** using DSN for MySQL and SHIR.
- Created an **Azure SQL linked service** with SQL authentication.



Step 5: Create Datasets

- Created **ODBC dataset** for the source (local MySQL).
- Created **Azure SQL dataset** for the sink (cloud database).
- Manually entered table name and schema in sink dataset (dbo, employees).

Step 6: Build and Run Pipeline

- Created a **Copy Data pipeline** linking source and sink datasets.

The screenshot displays the Microsoft Azure Data Factory Author interface. The top navigation bar includes 'Microsoft Azure', 'Data Factory', and 'ADF-SHIR-Factory'. The left sidebar shows navigation options: Home, Author, Monitor, Manage, and Learning Center. The main workspace is divided into several panes:

- Factory Resources:** Lists resources under 'Pipelines' (1 item: 'CopyLocalMySQLToAzureSQL') and 'Datasets' (2 items: 'DS_AzureSQL', 'DS_LocalMySQL').
- Activities:** A list of activities including 'Copy data', 'Data flow', 'Synapse', 'Notebook', 'Spark job definition', 'Azure Data Explorer', 'Azure Function', 'Batch Service', and 'Databricks'.
- Copy data1:** A visual representation of the 'Copy data' activity, showing a green checkmark indicating success.
- Properties:** A panel on the right showing the 'General' tab for the 'CopyLocalMySQLToAzureSQL' pipeline. It includes fields for 'Name' and 'Description', and an 'Annotations' section.
- Output:** A table showing the pipeline run details:

Activity name	Activity st...	Activit...
Copy data1	✓ Succeeded	Copy data

- In the **Sink > Settings**, added a **pre-copy script** to auto-create the destination table.
- Ran the pipeline using **Debug**, and verified successful execution.

Step 7: Validate Results

- Queried Azure SQL Database via **Query Editor (Preview)** to verify data was copied.
- Confirmed rows from local MySQL were visible in Azure SQL.

Microsoft Azure

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Home > SQL databases > TargetSQLDB (rahulsqlserver2025/TargetSQLDB)

SQL databases

Default Directory (grahul2910gmail.onmicrosoft.c...

Create

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Name ↑

TargetSQLDB (rahulsqlserver2025/

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TargetSQLDB (rahulsqlserver2025/TargetSQLDB) | Query editor (preview)

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Intelligent performance

Query performance insight

Showing limited object explorer here. For full capability please click here to open Azure Data Studio.

Tables

Views

Stored Procedures

TargetSQLDB (grahul2910@gmail.com)

Query 1

Run

Cancel query

Save query

Export data as

Show only Editor

1 SELECT * FROM employees;

2

Results

Messages

Search to filter items...

id	name	department
1	Rahul Gupta	Engineering
2	Anjali Sharma	Marketing
3	Amit Roy	Sales

Query succeeded | 0s

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