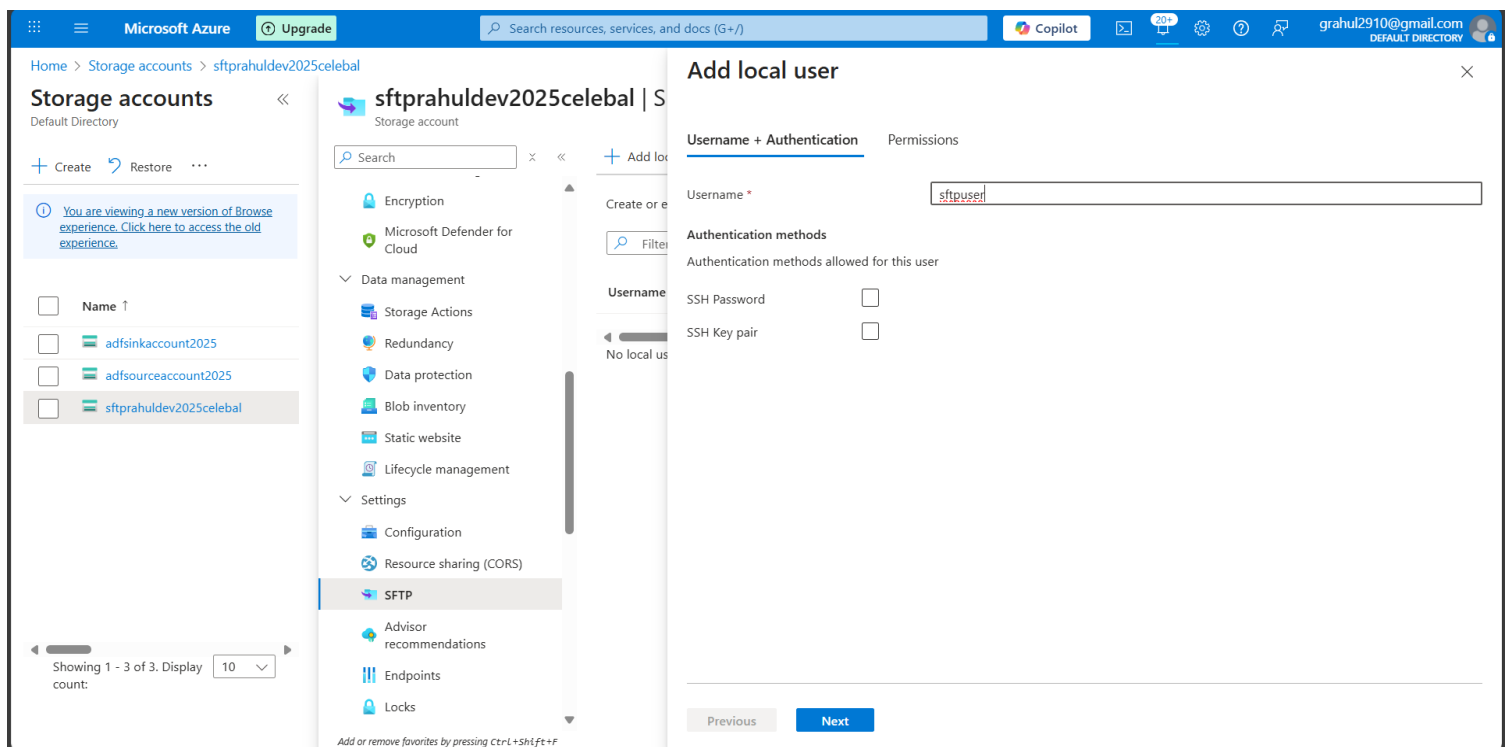


FTP/SFTP Server and Create an ADF Pipeline for Data Extraction

1. Set Up Azure SFTP Server on Storage Account

- Created an Azure Storage Account with hierarchical namespace enabled
- Enabled SFTP in the storage account
- Created a container named input-data
- Created a Local User with:
 - Username: sftpuser
 - Home directory: input-data
 - Permissions: Read, Write, List
 - Authentication type: Password
 - Saved the generated password



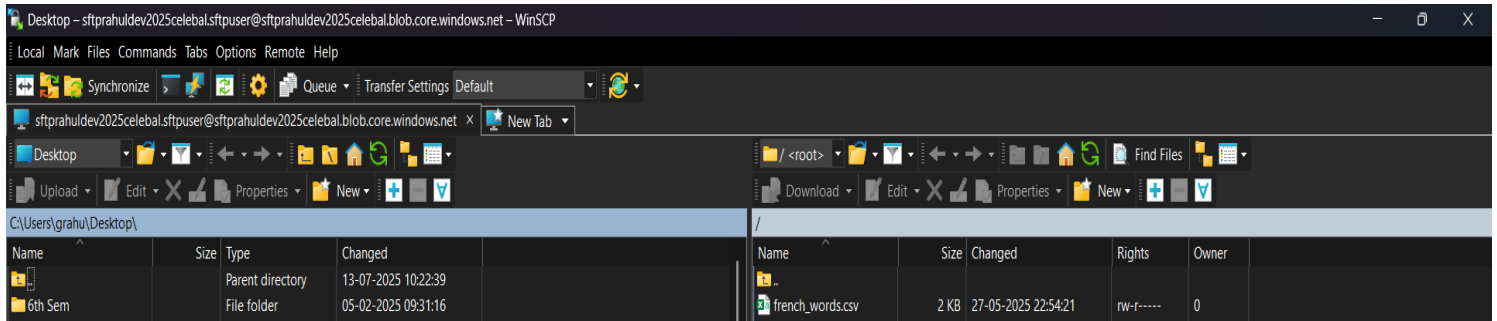
2. Tested SFTP Access with WinSCP

- Connected to:

sftp://sftprahuldev2025celebal.blob.core.windows.net

- Username format used:

- sftpuser@sftprahuldev2025celebal.blob.core.windows.net
- Port: 22
- Uploaded the test file: french_words.csv to /input-data/



3. Created Azure Data Factory

- Created a new Data Factory instance and launched the Studio

4. Created SFTP Linked Service in ADF

- Type: SFTP
- Host: sftprahuldev2025celebal.blob.core.windows.net
- Port: 22
- Authentication: Basic
- Username: sftpuser@sftprahuldev2025celebal.blob.core.windows.net

New linked service

[SFTP - Learn more](#)

New linked service

Name *

SFTP_LinkedService

Description

Connect via integration runtime *

✓ AutoResolveIntegrationRuntime

Host *

sftprahuldev2025celebal.<CONTAINER_NAME>.sftpuser@sftprahuldev2025celebal.blob.coi

Port

22

SSH host key validation

Enable SSH host key validation

SSH host key fingerprint *

SHA256:4nr3E2Z3JYq1k1NUYZyVIOJkKK9waegvCniZdKpntk4

Authentication type *

Basic

User name *

sftpuser

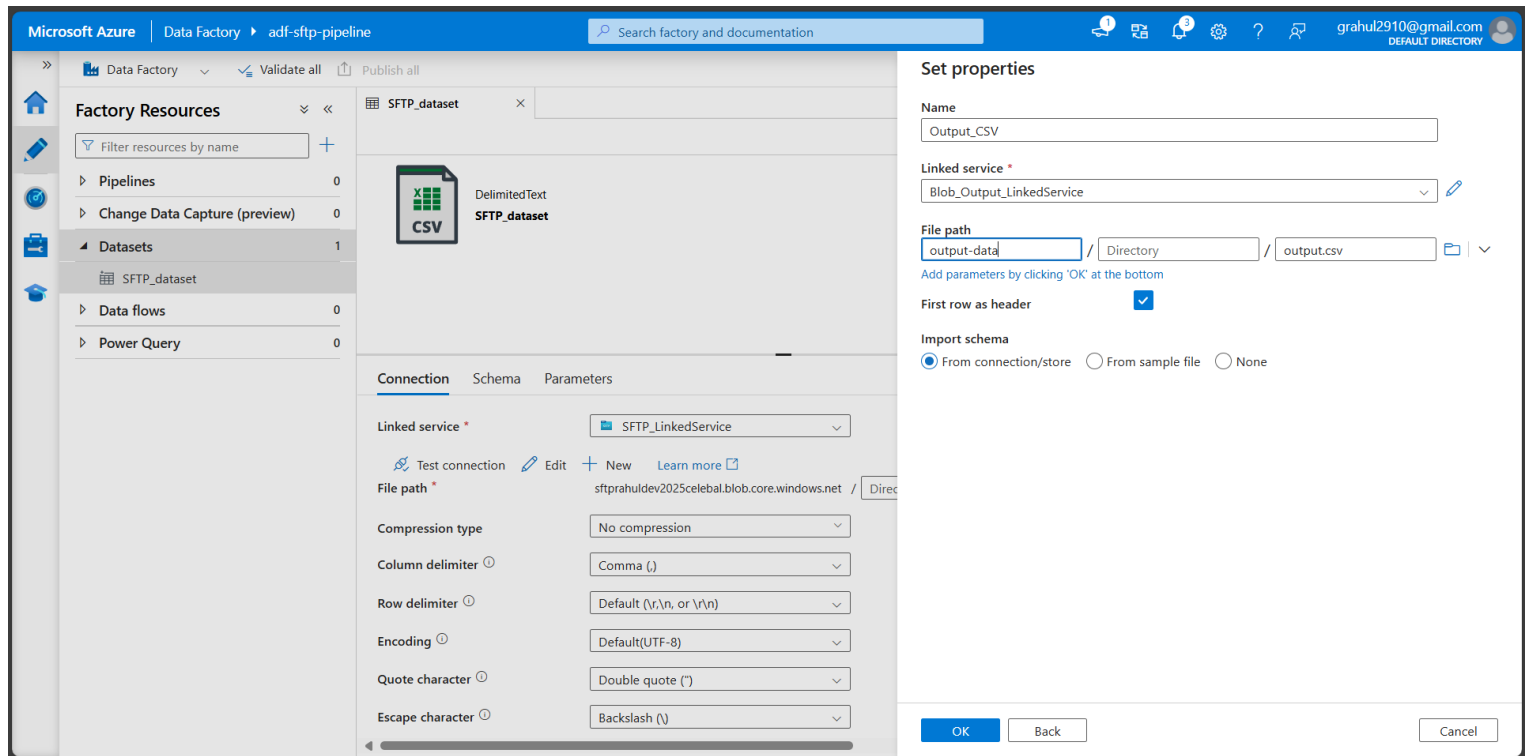
Create Back Test connection Cancel

5. Created Source Dataset (SFTP)

- Type: DelimitedText
- Schema: From connection/store

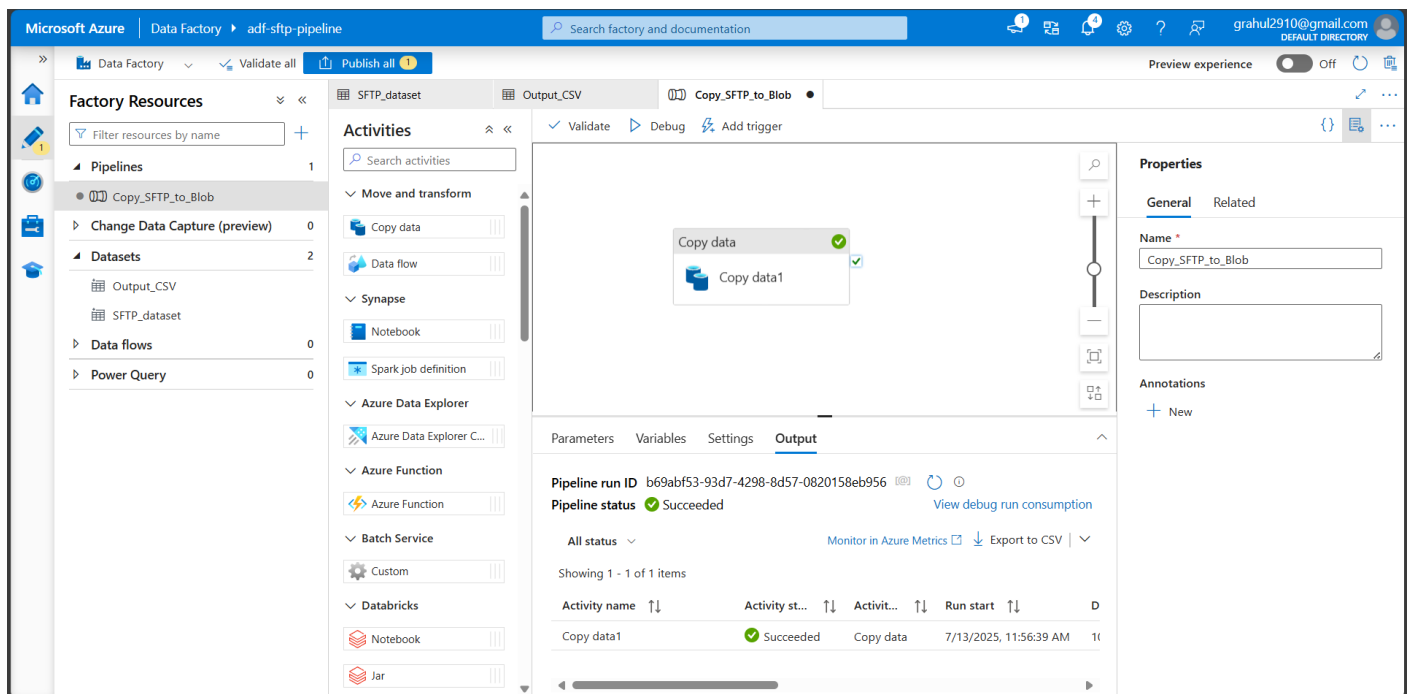
6. Created Sink Dataset (Blob Storage)

- Created another container: output-data
- Type: DelimitedText



7. Created ADF Pipeline

- Added Copy Data activity



8. Ran and Validated the Pipeline

- Clicked Debug to test the pipeline manually
- Pipeline ran successfully
- Verified that output.csv was created in the output-data container

The screenshot displays the Microsoft Azure portal interface. The top navigation bar includes the 'Microsoft Azure' logo, an 'Upgrade' button, a search bar, and a 'Copilot' button. The breadcrumb trail indicates the location: 'Home > Storage accounts > sftprahuldev2025celebal | Containers >'. The main content area is titled 'output-data' and is identified as a 'Container'. A left-hand sidebar contains navigation links: 'Overview' (selected), 'Diagnose and solve problems', 'Access Control (IAM)', and 'Settings'. The main area shows the 'output-data' container details, including the authentication method 'Access key' and a search bar for blobs. Below this, a table lists the contents of the container, showing one item: 'output.csv'. The table columns are 'Name', 'Last modified', 'Access tier', 'Blob type', 'Size', and 'Lease state'. The 'output.csv' file is listed with a last modified date of '13/7/2025, 11:57:44 am', an access tier of 'Hot (Inferred)', a blob type of 'Block blob', a size of '1.42 KiB', and a lease state of 'Available'. A footer note at the bottom left states: 'Add or remove favorites by pressing Ctrl+L+Shift+F'.

Home > Storage accounts > sftprahuldev2025celebal | Containers >

output-data ...
Container

Search

+ Add Directory ↑ Upload ↻ Refresh | 🗑 Delete 📄 Copy 📄 Paste 🔄 Rename 🔗 Acquire lease 🔗 Break lease 🛠 Edit columns

Overview

🔧 Diagnose and solve problems

🔑 Access Control (IAM)

> Settings

output-data

Authentication method: Access key ([Switch to Microsoft Entra user account](#))

Search blobs by prefix (case-sensitive)

Only show active objects

Showing all 1 items

✓	Name	Last modified	Access tier	Blob type	Size	Lease state
✓	📄 output.csv	13/7/2025, 11:57:44 am	Hot (Inferred)	Block blob	1.42 KiB	Available

Add or remove favorites by pressing Ctrl+L+Shift+F