

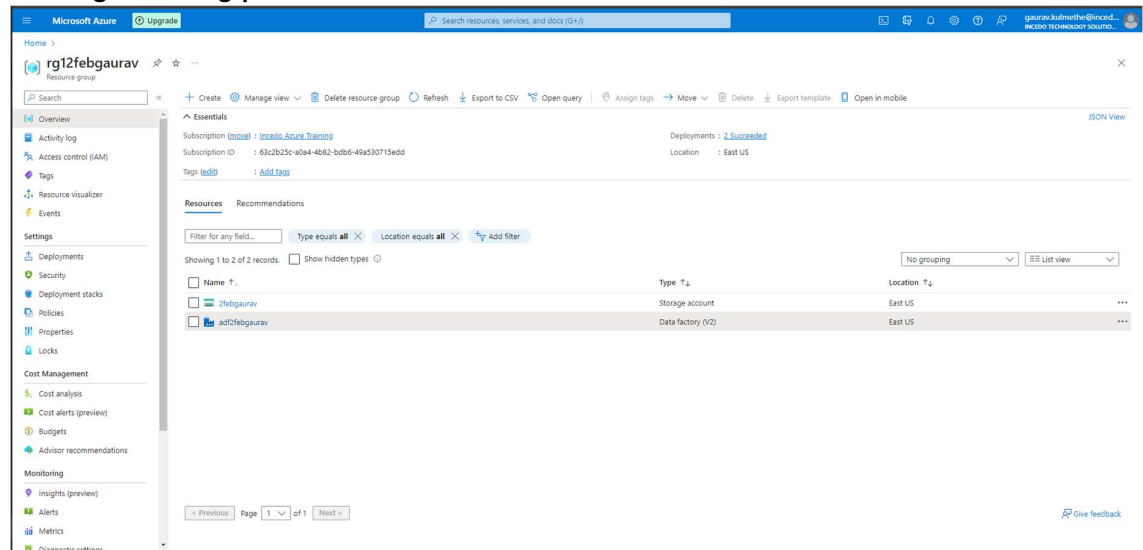
# Data Factory Project

Submitted by – Gaurav Kulmethe

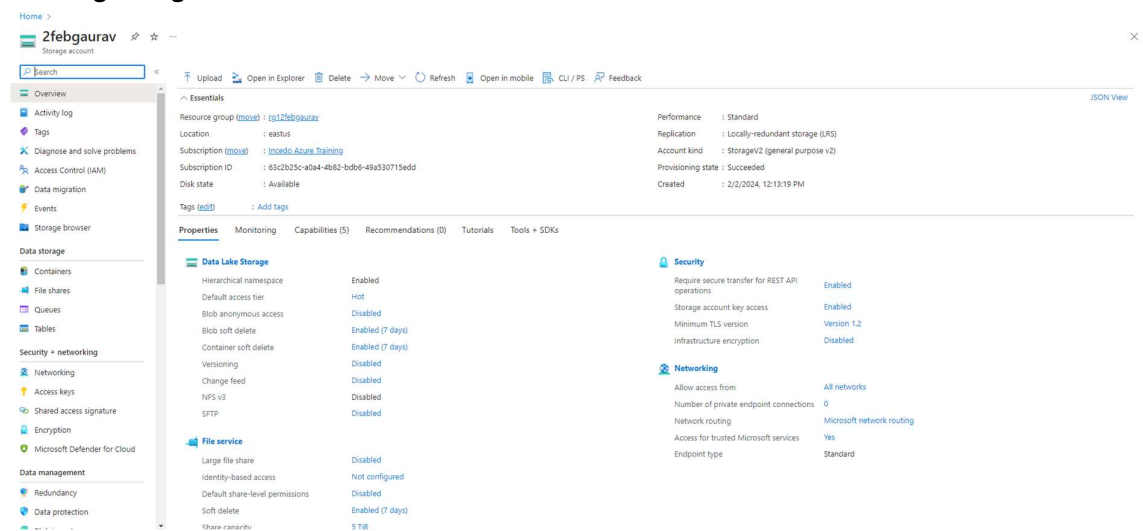
Dt. 2 feb 2024

## Task 1-Copy file from input container to output container by using azure data factory.

### 1. Creating resource grp



### 2. Creating storage accounts



### 3. Creating container

Home > 2febgaaurav

2febgaaurav | Containers

Storage account

Search

Container Change access level Restore containers Refresh Delete Give feedback

Search containers by prefix

Show deleted containers

Name	Last modified	Anonymous access level	Lease state
<input type="checkbox"/> logs	2/2/2024, 12:13:43 PM	Private	Available
<input type="checkbox"/> input	2/2/2024, 12:15:14 PM	Private	Available
<input type="checkbox"/> output	2/2/2024, 12:15:31 PM	Private	Available

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Data storage

Containers

File shares

Queues

Tables

Security + networking

Networking

Access keys

Shared access signature

Encryption

Microsoft Defender for Cloud

Data management

Redundancy

Data protection

## 4. Input container

Home > 2febgaaurav | Containers

input

Container

Search

Upload Add Directory Refresh Rename Delete Change tier Acquire lease Break lease Give feedback

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

Location: input

Search blobs by prefix (case-sensitive)

Show deleted objects

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
<input type="checkbox"/> Catalog_v2.csv	2/2/2024, 12:28:06 PM	Hot (inferred)		Block blob	6.28 KiB	Available

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

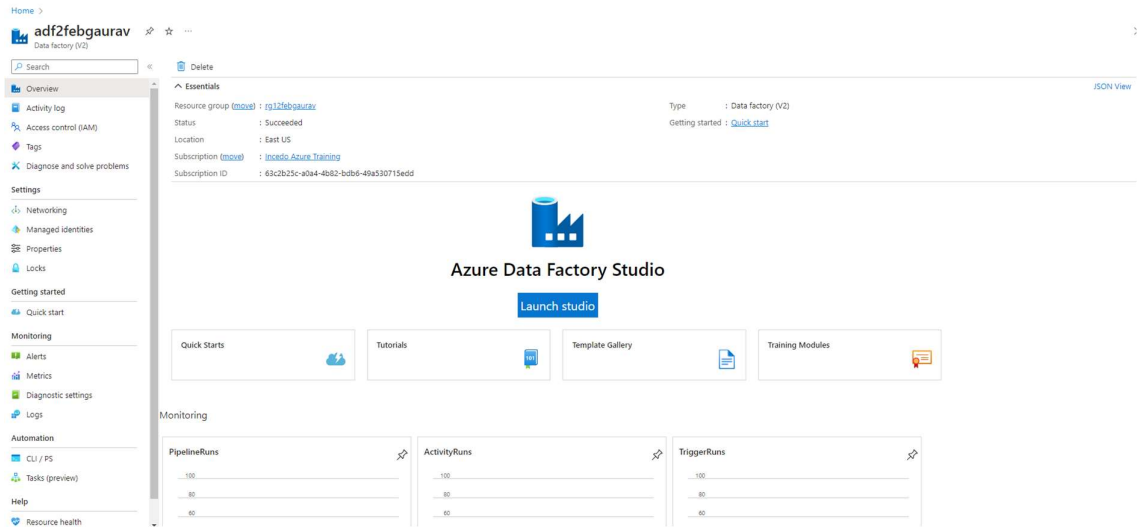
Manage ACL

Access policy

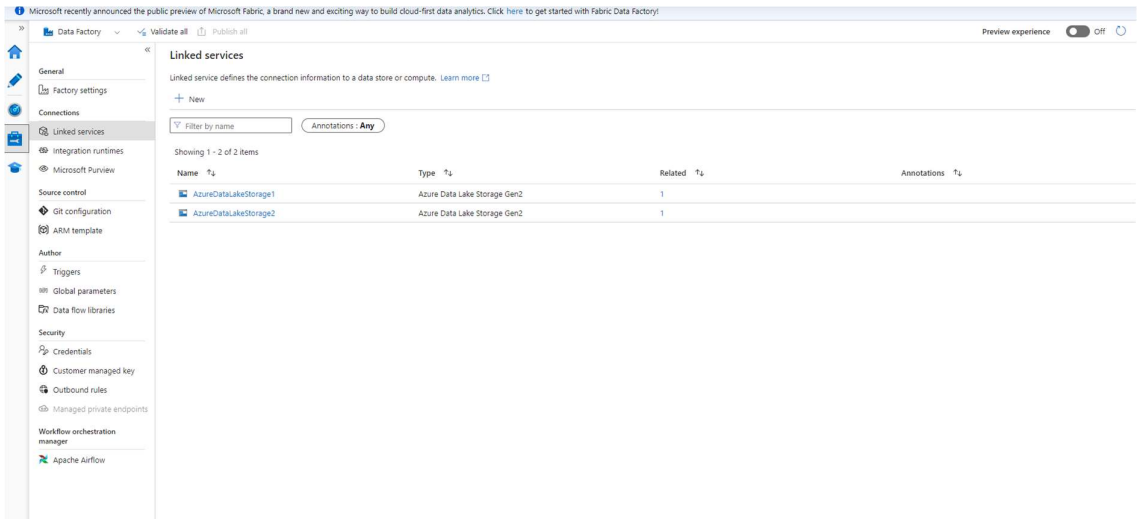
Properties

Metadata

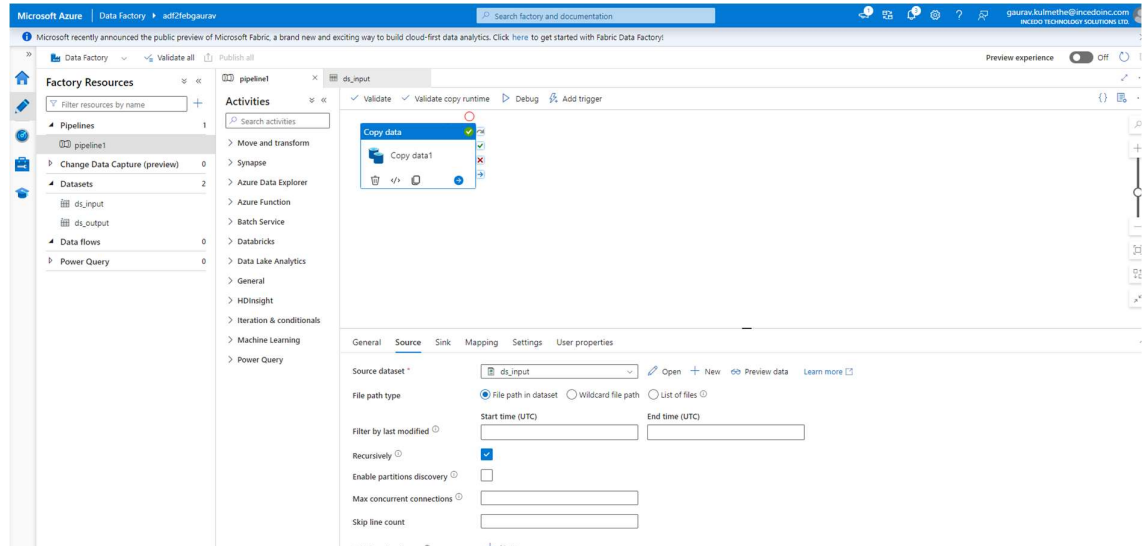
## 5. Data Factory Studio



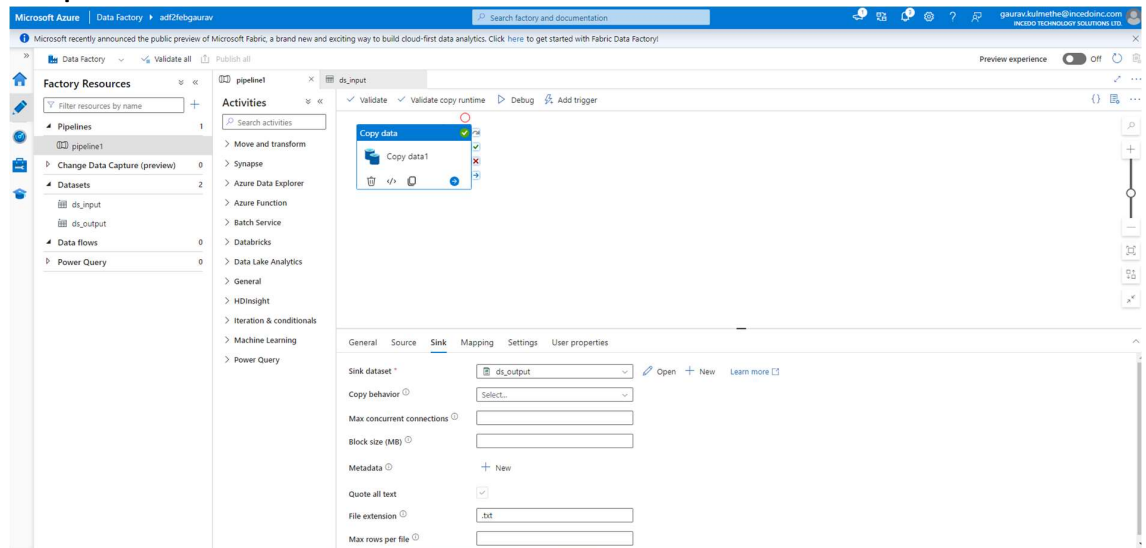
## 6. Linked Service



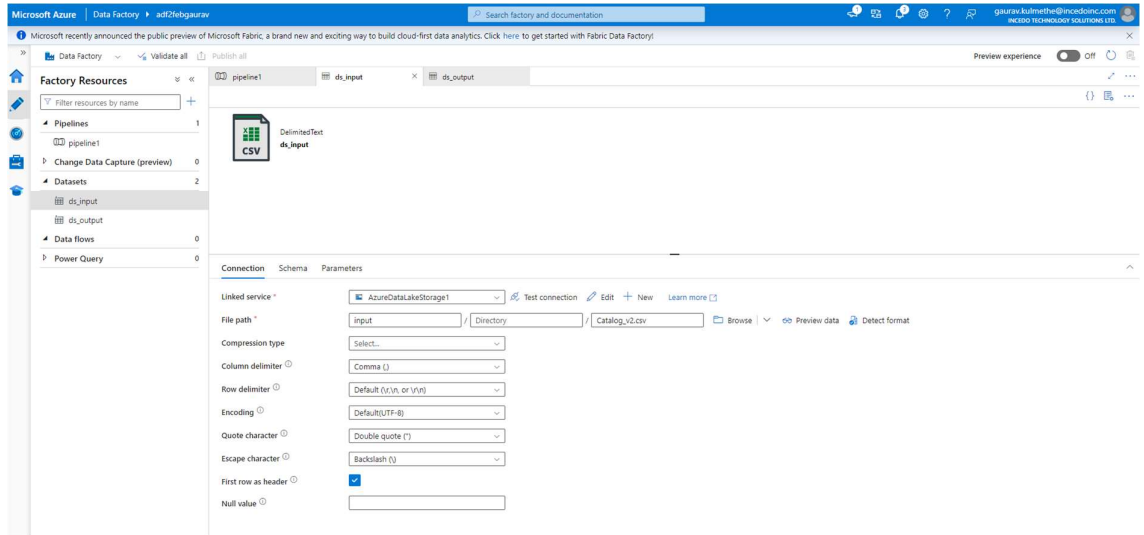
## 7. Factory Resources



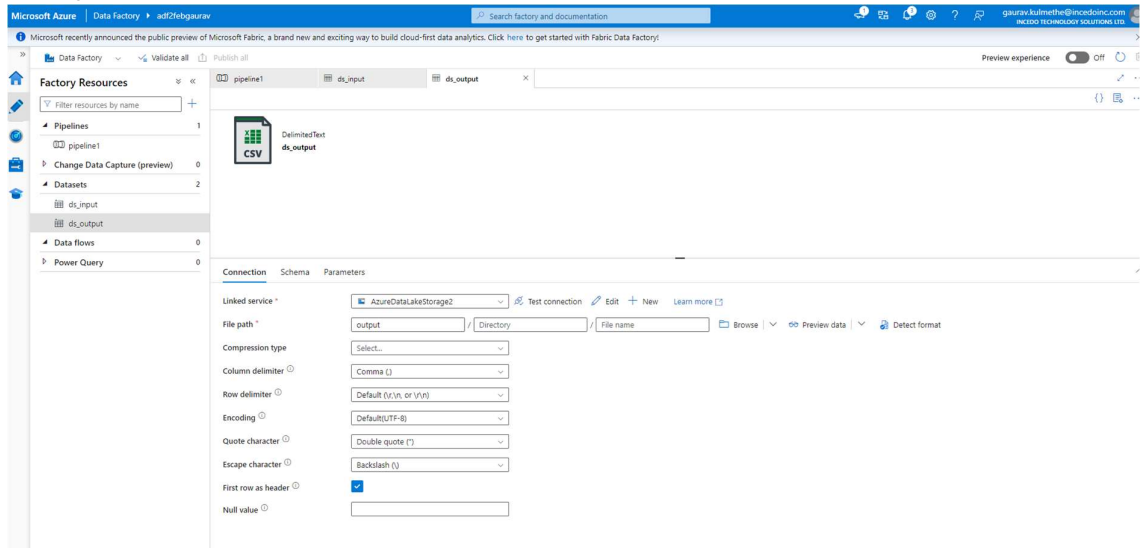
## 8. Sink path



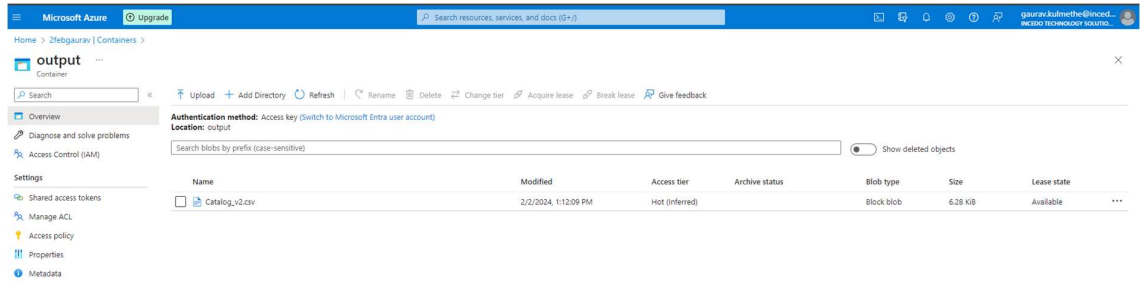
## 9. DsInput



## 10. Dsoutput

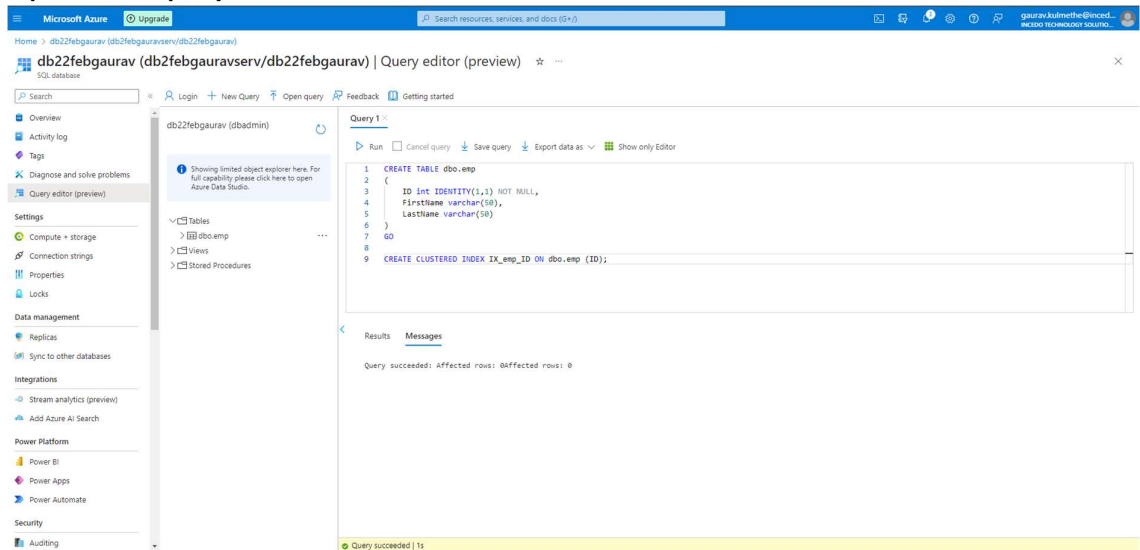


## 11. Output Container



## Task 2 - Copy data from Azure Blob storage to a database in Azure SQL Database by using Azure Data Factory

### 1. Sql database query



### 2. Resource Group

Microsoft Azure | Upgrade | Search resources, services, and docs (Ctrl+J)

Home > Resource groups > rg2febgaaurav

Resource groups

cloud-shell-storage-centralindia  
NetworkWatcherRG  
rg2febgaaurav

rg2febgaaurav

Overview

Activity log  
Access control (IAM)  
Tags  
Resource visualizer  
Events

Settings

Deployments  
Security  
Deployment stacks  
Policies  
Properties  
Locks

Cost Management

Cost analysis  
Cost alerts (preview)  
Budgets  
Advisor recommendations

Monitoring

Insights (preview)  
Alerts  
Metrics

Essentials

Subscription (mouse): Incedo Azure Training  
Subscription ID: 63c2b25c-a0a4-4b82-b0b6-49a530715edd  
Location: East US  
Deployments: 3 Succeeded

Resources

Filter for any field... Type equals all Location equals all Add filter

Showing 1 to 4 of 4 records. Show hidden types No grouping List view

Name	Type	Location
db2febgaaurav (db2febgaaurav)	SQL database	East US
db2febgaaurav	SQL server	East US
df2febgaaurav	Data factory (V2)	East US
str2febgaaurav	Storage account	East US

Page 1 of 1

Give feedback

### 3. Storage Account

Microsoft Azure | Upgrade | Search resources, services, and docs (Ctrl+J)

Home > Resource groups > str2febgaaurav

str2febgaaurav

Storage account

Overview

Activity log  
Tags  
Diagnose and solve problems  
Access control (IAM)  
Data migration  
Events  
Storage browser

Data storage

Containers  
File shares  
Queues  
Tables

Security + networking

Networking  
Access keys  
Shared access signature  
Encryption  
Microsoft Defender for Cloud

Data management

Redundancy  
Data protection

Essentials

Resource group (mouse): rg2febgaaurav  
Location: eastus  
Subscription (mouse): Incedo Azure Training  
Subscription ID: 63c2b25c-a0a4-4b82-b0b6-49a530715edd  
Disk state: Available  
Tags: Add tags

Performance: Standard  
Replication: Locally-redundant storage (LRS)  
Account kind: StorageV2 (general purpose v2)  
Provisioning state: Succeeded  
Created: 2/2/2024, 4:45:49 PM

Properties

Data Lake Storage

Hierarchical namespace	Enabled
Default access tier	Hot
Blob anonymous access	Disabled
Blob soft delete	Enabled (7 days)
Container soft delete	Enabled (7 days)
Versioning	Disabled
Change feed	Disabled
NFS v3	Disabled
SFTP	Disabled

File service

Large file share	Disabled
Identity-based access	Not configured
Default share-level permissions	Disabled
Soft delete	Enabled (7 days)
Share capacity	5 TiB

Security

Require secure transfer for REST API operations	Enabled
Storage account key access	Enabled
Minimum TLS version	Version 1.2
Infrastructure encryption	Disabled

Networking

Allow access from	All networks
Number of private endpoint connections	0
Network routing	Microsoft network routing
Access for trusted Microsoft services	Yes
Endpoint type	Standard

### 4. Database Server

Home > Resource groups > rg2febgaaurav >

**db2febgaauravserv** SQL server

Search

Create database + New elastic pool + New dedicated SQL pool (formerly SQL DW) Import database Reset password Move Delete Feedback

**Essentials**

Resource group (mcasb) : rg2febgaaurav  
Status : Available  
Location : East US  
Subscription (mcasb) : Incedo Azure Training  
Subscription ID : 63c2b25c-40a4-4b82-bdb6-49a530715edd  
Tags (edit) : Add tags

Server admin : dbadmin  
Networking : Show networking settings  
Microsoft Entra admin : Not configured  
Server name : db2febgaauravserv.database.windows.net

Notifications (0) Features (6)

All Security (4) Performance (1) Recovery (1)

**Microsoft Entra admin**  
Allows you to centrally manage identity and access to your Azure SQL databases.  
NOT CONFIGURED

**Microsoft Defender for SQL**  
Vulnerability Assessment and Advanced Threat Protection.  
NOT CONFIGURED

**Automatic tuning**  
Monitors and tunes your database automatically to optimize performance.  
CONFIGURED

**Auditing**  
Track database events and writes them to an audit log in Azure storage.  
NOT CONFIGURED

**Failover groups**  
Automatically manages replication, connectivity and failover for a set of databases.  
NOT CONFIGURED

**Transparent data encryption**  
Encryption at rest for your databases, backups, and logs.  
SERVICE-MANAGED KEY

Available resources

Filter by name All types

1 database

Name	Type	Status	Pricing tier
db2febgaaurav	SQL database	Online	General Purpose - Serverless: Standard-series (Gen5), 1 vCore

## 5. Database

Home > Resource groups > rg2febgaaurav >

**db2febgaauravserv** SQL server

Search

Create database + New elastic pool + New dedicated SQL pool (formerly SQL DW) Import database Reset password Move Delete Feedback

**Essentials**

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Location : East US  
Subscription (mcasb) : Incedo Azure Training  
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Server admin : dbadmin  
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Available resources

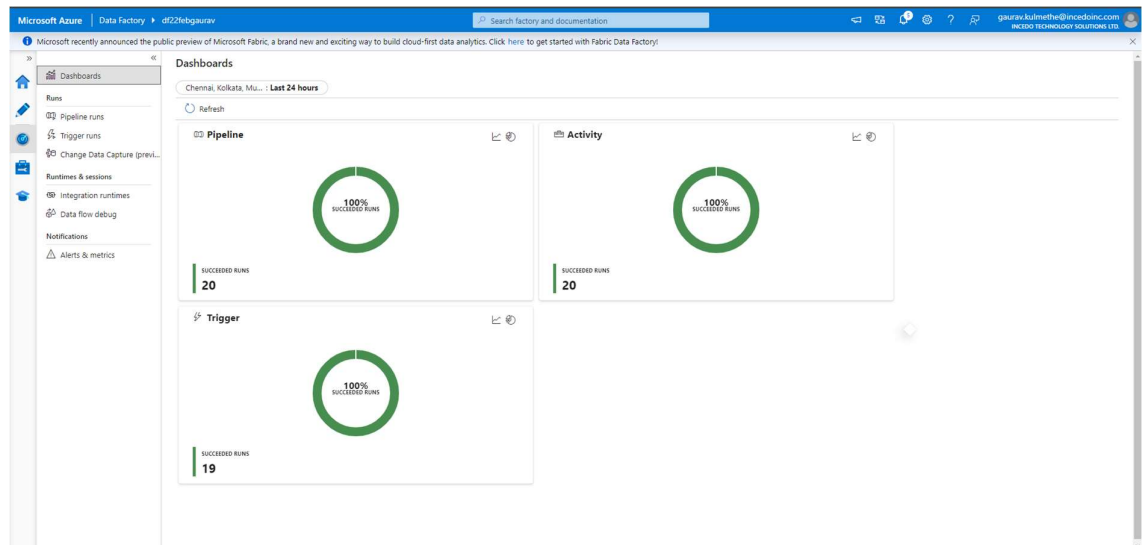
Filter by name All types

1 database

Name	Type	Status	Pricing tier
db22febgaaurav	SQL database	Online	General Purpose - Serverless: Standard-series (Gen5), 1 vCore

## 6. Datafactory Dashboard





## 7. Triggered Runs

Pipeline name	Run start	Run end	Duration	Triggered by	Status	Run	Parameters	Annotations	Run ID
CopyPipeline	2/2/2024, 6:04:00 PM	2/2/2024, 6:04:16 PM	17s	RunEveryMinute	Succeeded	Original			3045f33b-c917-4153-ae3e-b3bebf3c
CopyPipeline	2/2/2024, 6:03:00 PM	2/2/2024, 6:03:17 PM	17s	RunEveryMinute	Succeeded	Original			a26df18e-d439-4d39-9c81-7c9900b
CopyPipeline	2/2/2024, 6:02:00 PM	2/2/2024, 6:02:26 PM	26s	RunEveryMinute	Succeeded	Original			1dc591cc-2653-43f9-b7fb-2992084b
CopyPipeline	2/2/2024, 6:01:00 PM	2/2/2024, 6:01:34 PM	34s	RunEveryMinute	Succeeded	Original			07c374ac-15e4-4c07-b606-897f5614
CopyPipeline	2/2/2024, 6:00:01 PM	2/2/2024, 6:00:24 PM	23s	RunEveryMinute	Succeeded	Original			781550a6-0392-4d44-9999-b5b5f25a
CopyPipeline	2/2/2024, 5:59:00 PM	2/2/2024, 5:59:21 PM	21s	RunEveryMinute	Succeeded	Original			317979b4-21b5-444f-9999-b5b5f25a
CopyPipeline	2/2/2024, 5:58:00 PM	2/2/2024, 5:58:30 PM	31s	RunEveryMinute	Succeeded	Original			8f0f0360-2038-4990-a248-8f17ef0ec
CopyPipeline	2/2/2024, 5:57:01 PM	2/2/2024, 5:57:17 PM	16s	RunEveryMinute	Succeeded	Original			c54205a6-89ce-4ce3-982f-f8bb3110
CopyPipeline	2/2/2024, 5:56:00 PM	2/2/2024, 5:56:34 PM	35s	RunEveryMinute	Succeeded	Original			dc48f07f-7389-44c1-9eae-39ab9904
CopyPipeline	2/2/2024, 5:55:00 PM	2/2/2024, 5:55:16 PM	16s	RunEveryMinute	Succeeded	Original			7a8ab04b-fd4e-4d0b-b365-a412393
CopyPipeline	2/2/2024, 5:54:00 PM	2/2/2024, 5:54:14 PM	15s	RunEveryMinute	Succeeded	Original			d7ac3351-9737-4d95-b397-d24e31dc
CopyPipeline	2/2/2024, 5:53:01 PM	2/2/2024, 5:53:18 PM	18s	RunEveryMinute	Succeeded	Original			bc230d81-48ac-d699-b118-9c3be04
CopyPipeline	2/2/2024, 5:52:00 PM	2/2/2024, 5:52:14 PM	14s	RunEveryMinute	Succeeded	Original			a3d911a0-e00f-49f1-9745-25a5ca38
CopyPipeline	2/2/2024, 5:51:00 PM	2/2/2024, 5:51:14 PM	15s	RunEveryMinute	Succeeded	Original			f28a9f4e-71a3-49ee-9c2e-9e7e628c
CopyPipeline	2/2/2024, 5:50:01 PM	2/2/2024, 5:50:22 PM	22s	RunEveryMinute	Succeeded	Original			11211452-d08f-4dc7-803f-f69f1143
CopyPipeline	2/2/2024, 5:49:00 PM	2/2/2024, 5:49:17 PM	17s	RunEveryMinute	Succeeded	Original			05346000-6a64-4a57-a18a-7422545
CopyPipeline	2/2/2024, 5:48:00 PM	2/2/2024, 5:48:18 PM	19s	RunEveryMinute	Succeeded	Original			d0501600-b5eb-478a-b9c7-d0ff167f
CopyPipeline	2/2/2024, 5:47:00 PM	2/2/2024, 5:47:16 PM	17s	RunEveryMinute	Succeeded	Original			93866531-3320-4c1a-b433-c5c2af4c
CopyPipeline	2/2/2024, 5:46:00 PM	2/2/2024, 5:46:14 PM	15s	RunEveryMinute	Succeeded	Original			5d7a202d-190e-4973-936c-76d1d47f
CopyPipeline	2/2/2024, 5:45:01 PM	2/2/2024, 5:45:20 PM	20s	RunEveryMinute	Succeeded	Original			3e4c9e26-d44a-4ded-a01e-c34e30b

## 8. Debug

Microsoft Azure | Data Factory | d122f6bgaurav

Search factory and documentation

Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data analytics. Click here to get started with Fabric Data Factory!

Dashboard

Runs

Pipeline runs

Trigger runs

Change Data Capture (previ...

Runtimes & sessions

Integration runtimes

Data flow debug

Notifications

Alerts & metrics

Pipeline runs

Triggered | Debug

Filter by run ID or name

Chennai, Kolkata, Ma... | Last 24 hours

Pipeline name: All

Status: All

Add filter

Copy filters

Export to CSV

Showing 1 - 1 items

Last refreshed 0 minutes ago

Pipeline name	Run start	Run end	Duration	Status	Triggered by	Run ID	Parameters
CopyPipeline	2/2/2024, 5:05:30 PM	2/2/2024, 5:05:53 PM	23s	Succeeded	Manual trigger	6444670f-31b5-455a-b3a7-9ed7	

## 9. Linked Service

Microsoft Azure | Data Factory | d122f6bgaurav

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Data Factory

Validate all

Publish all

Preview experience

Off

General

Factory settings

Connections

Linked services

Integration runtimes

Microsoft Purview

Source control

Git configuration

ARM template

Author

Triggers

Global parameters

Data flow libraries

Security

Credentials

Customer managed key

Outbound rules

Managed private endpoints

Workflow orchestration manager

Apache Airflow

Linked services

Linked service defines the connection information to a data store or compute. Learn more

New

Filter by name

Annotations: Any

Showing 1 - 2 of 2 items

Name	Type	Related	Annotations
AzureSQLDatabaseLinkedService	Azure SQL Database	1	
AzureStorageLinkedService	Azure Blob Storage	1	

## 10. Output SQL dataset

Microsoft Azure | Data Factory | d122f6bgauxv

Search factory and documentation

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Data Factory | Validate all | Publish all

Preview experience ☐ Off

**Factory Resources**

Filter resources by name

- Pipelines 1
  - CopyPipeline
- Change Data Capture (preview) 0
- Datasets 2
  - OutputSqlDataset
  - SourceBlobDataset
- Data flows 0
- Power Query 0

**CopyPipeline**

**OutputSqlDataset**

**Preview data**

Linked service: AzureSQLDatabaseLinkedService

Object: dbo.emp

ID	FirstName	LastName
1	John	Doe
2	Jane	Doe
3	John	Doe
4	Jane	Doe
5	John	Doe
6	Jane	Doe
7	John	Doe
8	Jane	Doe
9	John	Doe
10	Jane	Doe

Connection Schema Parameters

Linked service \*

Table

## 11. Sourceblobdatasets

Microsoft Azure | Data Factory | d122f6bgauxv

Search factory and documentation

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Data Factory | Validate all | Publish all

Preview experience ☐ Off

**Factory Resources**

Filter resources by name

- Pipelines 1
  - CopyPipeline
- Change Data Capture (preview) 0
- Datasets 2
  - OutputSqlDataset
  - SourceBlobDataset
- Data flows 0
- Power Query 0

**CopyPipeline**

**SourceBlobDataset**

**Preview data**

Linked service: AzureStorageLinkedService

Object: emp.bit

FirstName	LastName
John	Doe
Jane	Doe

Connection Schema Parameters

Linked service \*

File path \*

Compression type

Column delimiter

Row delimiter

Encoding

Quote character

Escape character

First row as header ☒

Null value

Backslash \

Preview data Detect format