

# Data Factory

## Create Data Factory, Copy Data Tool, SQL Database

**Name:** Aathirainathan P

**Date:** 02-12-2024

### 1. Create Data Factory:

Microsoft Azure

Search resources, services, and docs (G+/I)

Copilot

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TECHADEMY LEARNING SOLUTI...

Home > Data factories >

Create Data Factory ...

⚠ Changes on this step may reset later selections you have made. Review all options prior to deployment.

BasicsGit configurationNetworkingAdvancedTagsReview + create

One-click to create data factory with sample pipeline and datasets. [Try it](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \* ⓘMML Learners

Resource group \* ⓘrg-azuser2356\_mml.local-eylrK  
[Create new](#)

Instance details

Name \* ⓘazdatafactoryhexaware ✓

Region \* ⓘEast US

Version \* ⓘV2

PreviousNextReview + create

Give feedback

Microsoft Azure

Search resources, services, and docs (G+/I)

Copilot

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TECHADEMY LEARNING SOLUTI...

Home >

Microsoft.DataFactory-20241210140915 | Overview ...

Deployment

SearchDeleteCancelRedeployDownloadRefresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : Microsoft.DataFactory-20241210140915

Subscription : MML Learners

Resource group : rg-azuser2356\_mml.local-eylrK

Start time : 12/10/2024, 2:10:39 PM

Correlation ID : c5f01a6e-6a0d-4262-aa6a-f4a89771bf38

> Deployment details

< Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Deployment succeeded

Deployment 'Microsoft.DataFactory-20241210140915' to resource group 'rg-azuser2356\_mml.local-eylrK' was successful.

Pin to dashbo...Go to resource gr...

Cost management

Get notified to stay within your budget and prevent unexpected charges on your bill.

Set up cost alerts >

Microsoft Defender for Cloud

Secure your apps and infrastructure

Go to Microsoft Defender for Cloud >

Free Microsoft tutorials

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Work with an expert

Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.

Microsoft Azure

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Home > Microsoft.DataFactory-20241210140915 | Overview >

**azdatafactoryhexaware**  
Data factory (V2)

Search

Delete

**Overview**

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
- Getting started
- Monitoring
- Automation
- Help

**Essentials**

Resource group (move) : [rg-azuser2356\\_mml.local-eylrk](#)

Status : Succeeded

Location : East US

Subscription (move) : [MML Learners](#)

Subscription ID : 2a3c6418-97b9-4d96-a24b-2c2d7633d375

Type : Data factory (V2)

Getting started : [Quick start](#)

**Azure Data Factory Studio**

[Launch studio](#)

Quick Starts

Tutorials

Template Gallery

Training Modules

JSON View

## 2. Copy Data Tool:

Microsoft Azure | Data Factory > azdatafactoryhexaware

Search factory and documentation

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Data factory

**azdatafactoryhexaware**

New

**Ingest**  
Copy data at scale once or on a schedule.

**Orchestrate**  
Code-free data pipelines.

**Transform data**  
Transform your data using data flows.

**Configure SSIS**  
Manage & run your SSIS packages in the cloud.

Recent resources

**No items to show**  
Your recently opened resources will show up here.

Microsoft Azure | Data Factory | azdatafactoryhexaware

Search factory and documentation

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Copy Data tool

1 Properties

2 Source

3 Destination


4 Settings

5 Review and finish


Use Copy Data Tool to perform a one-time or scheduled data load from 90+ data sources. Follow the wizard experience to specify your data loading settings, and let the Copy Data Tool generate the artifacts for you, including pipelines, datasets, and linked services. [Learn more](#)

### Properties

Select copy data task type and configure task schedule

**Built-in copy task**

You will get a single pipeline which is capable of smoothly copying data from over 100 different data sources.

**Metadata-driven copy task**

You will get parameterized pipelines which can read metadata from an external store to load data at a large scale.

You will get single pipeline to quickly copy objects from data source store to destination in a very intuitive manner.

**Task cadence or task schedule \***

☒ Run once now ☐ Schedule ☐ Tumbling window

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Cancel

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Copy Data tool

1 Properties

2 Source

3 Dataset

4 Configuration

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6 Settings

7 Review and finish

### Source data store

Specify the source data store for the copy task. You can use an existing data store connection or specify a new one.

**Source type**

**Connection \***  [Edit](#) [+ New](#)

**File or folder \***

If the identity you use to access the data store only has permission to subdirectory instead of the entire account, specify the path to browse. Append a slash (/) at the end if the path refers to a folder.

**Options**

☐ Binary copy ⓘ

☒ Recursively ⓘ

☐ Enable partitions discovery ⓘ

**Max concurrent connections ⓘ**

**Filter by last modified**

**Start time (UTC)** **End time (UTC)**

< Previous

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### Edit linked service

[Azure Blob Storage](#) [Learn more](#)

**Name \***

**Description**

**Connect via integration runtime \*** ⓘ

☒ AutoResolveIntegrationRuntime

**Authentication type**

**Connection string** [Azure Key Vault](#)

**Account selection method** ⓘ

☒ From Azure subscription ☐ Enter manually

**Azure subscription** ⓘ

**Storage account name \***

[Refresh](#)

**Additional connection properties**

Apply

Cancel

[Test connection](#)

Microsoft Azure

Data Factory > azdatafactoryhexaware

Search factory and documentation

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## Copy Data tool

- Properties
- Source
- Destination
- Dataset
- Configuration
- Settings
- Review and finish

## Destination data store

Specify the destination data store for the copy task. You can use an existing data store connection or specify a new data store.

Destination type

Connection \*  [Edit](#) [+ New connection](#)

## Folder path

If the identity you use to access the data store only has permission to subdirectory instead of the entire account, specify the path to browse.

[Browse](#)

## File name

File names are defined by source

Compression type

Copy behavior

Max concurrent connections

Block size (MB)

< Previous

Next >

Cancel

## Copy Data tool

- Properties
- Source
- Destination
- Settings
- Review and finish

## Settings

Enter name and description for the copy data task, more options for data movement

Task name \*

Task description

Fault tolerance

Enable logging ☐

Enable staging ☐

## Advanced

Maximum data integration unit

☐ Use custom value

You will be charged # of used DIUs \* copy duration \* \$0.25/DIU-hour. Local currency and separate discounting may apply per subscription type. [Learn more](#)

Degree of copy parallelism

Preserve

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Cancel

## Copy Data tool

- Properties
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## Summary

You are running pipeline to copy data from Azure Blob Storage to Azure Data Lake Storage Gen2.



## Properties

Task name CopyPipeline\_activity

Task description

## Source

Connection name AzureBlobStorage1  
Dataset name SourceDataset\_zno  
Container mycontainer

## Destination

Connection name AzureDataLakeStorage1

[< Previous](#)[Next >](#)[Cancel](#)

## Copy Data tool

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## Deployment complete

Deployment step	Status
Validating copy runtime environment	✓ Succeeded
> Creating datasets	✓ Succeeded
> Creating pipelines	✓ Succeeded
> Running pipelines	✓ Succeeded

Datasets and pipelines have been created. You can now monitor and edit the copy pipelines or click finish to close Copy Data Tool.

[Finish](#)[Edit pipeline](#)[Monitor](#)

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» Data Factory | Validate all | Publish all

Preview experience | Off

Factory Resources

Filter resources by name

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CopyPipeline\_activity

Change Data Capture (preview) | 0

Datasets | 2

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Pipeline run ID: d245141a-7af2-477c-a921-fa4ef2901039

Pipeline status: Succeeded

View debug run consumption

All status

Showing 1 - 1 of 1 items

Activity name	Activity status	Activity type	Run start	Duration	Integration runtime
Copy_zno	Succeeded	Copy data	12/10/2024, 2:33:10 PM	17s	AutoResolveIntegrator

### 3. Sql Database:

Microsoft Azure

Search resources, services, and docs (G+/I)

Copilot

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TECHADEMY LEARNING SOLUTL...

Home > SQL databases > Create SQL Database >

Create SQL Database Server

Microsoft

Server details

Enter required settings for this server, including providing a name and location. This server will be created in the same subscription and resource group as your database.

Server name \*

myserverhexaware

.database.windows.net

Location \*

(US) East US

Authentication

Azure Active Directory (Azure AD) is now Microsoft Entra ID. [Learn more](#)

Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Microsoft Entra authentication [Learn more](#) using an existing Microsoft Entra user, group, or application as Microsoft Entra admin [Learn more](#), or select both SQL and Microsoft Entra authentication.

Microsoft Azure

Search resources, services, and docs (G+/I)

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azuser2356\_mm1.local@...  
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Create SQL Database Server

Microsoft

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Authentication method

☐ Use Microsoft Entra authentication

☒ Use both SQL and Microsoft Entra authentication

☐ Use SQL authentication only

Set Microsoft Entra admin \*

Not Selected

[Set admin](#)

The value must not be empty

Server admin login \*

Enter server admin login

Password \*

Confirm password \*

OK

Microsoft Entra ID

Microsoft Entra ID

Try changing or adding filters if you don't see what you're looking for.

Search

2356

1 result found

All

Users

Groups

Enterprise applications

	Name	Type	Details
<input checked="" type="checkbox"/>	azuser2356_mm1.local	User	azuser2356_mm1.local@techademy.com

Selected item (1)

[Reset](#)

azuser2356\_mm1.local  
azuser2356\_mm1.local@techademy.com

Select



Microsoft Azure

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## Create SQL Database Server

Microsoft

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Authentication method

☐ Use Microsoft Entra-only authentication  
☒ Use both SQL and Microsoft Entra authentication  
☐ Use SQL authentication

Set Microsoft Entra admin

azuser2356\_mml.local@techademy.com  
Admin Object/App ID: 7c8ded81-ab62-4a27-8ab4-70aab26290a5  
[Set admin](#)

Server admin login \*

Aathirainathan ✓

Password \*

\*\*\*\*\* ✓

Confirm password \*

\*\*\*\*\* ✓

✓ Password and confirm password must match.

OK

Microsoft Azure

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## Create SQL Database

Microsoft

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \*

MML Learners

Resource group \*

rg-azuser2356\_mml.local-eylrK

[Create new](#)

Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

Database name \*

mysqldbhexaware ✓

Server \*

myserverhexaware (East US)

[Create new](#)

Compute + storage \*

**General Purpose - Serverless**  
Standard-series (Gen5), 2 vCores, 32 GB storage, zone redundant disabled  
[Configure database](#)

Overage billing <sup>1</sup>

Disabled

ESTIMATED STORAGE COST / MONTH

0.00 USD

COMPUTE COST / VCORE SECOND <sup>2</sup>

0.000000 USD

<sup>1</sup> There will be no charges for usage within the free limits. The database will be paused automatically when the free limits are reached.

<sup>2</sup> Serverless databases are billed in vCore seconds based on a combination of CPU and memory utilization. [Learn more about serverless billing](#)

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Review + create

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Submitted by:  
Aathirainathan P