

Data Factory

Submitted By: Aniroop Gupta
DE Batch 1

1. Create Data Factory:

Microsoft Azure

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Home > Data factories >

Create Data Factory

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

Basics | Git configuration | Networking | Advanced | Tags | Review + 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

[Previous](#) [Next](#) [Review + create](#)

[Give feedback](#)

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Home >

Microsoft.DataFactory-20241210140915 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : Microsoft.DataFactory-20241210140915 Start time : 12/10/2024, 2:10:39 PM

Subscription : MML Learners Correlation ID : c5f01a6e-6a0d-4262-aa6a-f4a89771bf38

Resource group : rg-azuser2356_mml.local-eylrK

> 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.

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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](#)

JSON View

Azure Data Factory Studio

Launch studio

Quick Starts

Tutorials

Template Gallery

Training Modules

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.

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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

< Previous

Next >

Cancel

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Copy Data tool

1 Properties

2 Source

3 Destination

4 Settings

5 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

Next >

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](#)

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>>

Copy Data tool

1 Properties

2 Source

3 Dataset

4 Configuration

5 Destination

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 data store.

Source typeAll

Connection *AzureBlobStorage1EditNew connection

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.
mycontainer/ Browse

Options

Binary copy

Compression typeNone

Recursively

Delete files after completion

Max concurrent connections

Filter by last modified

< Previous

Next >

Cancel

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Copy Data tool

1 Properties

2 Source

3 Destination

4 Dataset

5 Configuration

6 Settings

7 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 connection.

Destination typeAll

Connection *Select...New connection

New connection

Azure Data Lake Storage Gen2 Learn more

Name *
AzureDataLakeStorage1

Description

Connect via integration runtime *
AutoResolveIntegrationRuntime

Authentication type
Account key

Account selection method
From Azure subscription Enter manually

Azure subscription
MML Learners (2a3c6418-97b9-4d96-a24b-2c2d7633d375)

Storage account name *
hexadatalakeaccount

Test connection
To linked service To file path

CreateBackTest connectionCancel

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» Copy Data tool

✓ Properties

✓ Source

3 Destination

• Dataset

○ Configuration

4 Settings

5 Review and finish

Destination data store

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

Destination typeAll

Connection *AzureDataLakeStorage1 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.
mycontainer2/ Browse

File name
Filenames are defined by source

Compression typeNone

Copy behavior ①
Flatten hierarchy

Max concurrent connections ①

Block size (MB) ①

< Previous Next > Cancel

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» Copy Data tool

✓ Properties

✓ Source

✓ Destination

4 Settings

5 Review and finish

Settings

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

Task name *CopyPipeline_activity

Task description

Fault tolerance ①Skip missing files

Enable logging ①

Enable staging ①

Advanced

Maximum data integration unit
Auto
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 parallelismAuto

Preserve

< Previous Next > Cancel

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Copy Data tool

✓ Properties

✓ Source

✓ Destination

✓ Settings


9 Review and finish

• Review


○ Deployment

Summary

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

 Azure Blob Storage

→

 Azure Data Lake Storage Gen2

Properties

Edit

Task nameCopyPipeline_activity

Task description

Source

Edit

Connection nameAzureBlobStorage1

Dataset nameSourceDataset_zno

Containermycontainer

Destination

Edit

Connection nameAzureDataLakeStorage1

< Previous

Next >

Cancel

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Copy Data tool

✓ Properties

✓ Source


✓ Destination

✓ Settings


9 Review and finish

• Review

• Deployment

 Azure Blob Storage

→

 Azure Data Lake Storage Gen2

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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Preview experience Off

Factory Resources

- Pipelines 1
 - CopyPipeline_activity
- Change Data Capture (preview) 0
- Datasets 2
- Data flows 0
- Power Query 0

Activities

- Move and transform
- Synapse
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDInsight
- Iteration & conditionals
- Machine Learning
- Power Query

Copy data

Copy_zno

Parameters Variables Settings Output

+ New

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Preview experience Off

Factory Resources

- Pipelines 1
 - CopyPipeline_activity
- Change Data Capture (preview) 0
- Datasets 2
- Data flows 0
- Power Query 0

Activities

- Move and transform
- Synapse
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDInsight
- Iteration & conditionals
- Machine Learning
- Power Query

Copy data

Copy_zno

Parameters Variables Settings Output

Pipeline run ID: d245141a-7af2-477c-a921-fa4ef2901039 Pipeline status Succeeded View debug run consumption

All status Monitor in Azure Metrics Export to CSV

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	AutoResolveIntegration

3. Sql Database:

Microsoft Azure

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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](#) or using an existing Microsoft Entra user, group, or application as Microsoft Entra admin [Learn more](#) , or select both SQL and Microsoft Entra authentication.

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Create SQL Database Server

Microsoft

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

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_mml.local	User	azuser2356_mml.local@techademy.com

Selected item (1)

Reset

azuser2356_mml.local

azuser2356_mml.local@techademy.com

Select

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Create SQL Database Server

Microsoft

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.

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

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Home > SQL databases >

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

Disabled

ESTIMATED STORAGE COST / MONTH0.00 USD

COMPUTE COST / VCORE SECOND²0.000000 USD

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

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

PLEASE CONTACT YOUR RESELLER

Review + create

Next : Networking >