

## **Module 3: Assignment 3**

### **Tasks To Be Performed:**

1. Create two storage accounts and create a container inside it
2. Upload some data to the first Blob service
3. Using Data Factory copy data to the second storage service's container

### **Solution:**

- 1. Create two storage accounts and create a container inside it**

# Create a storage account

...

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

## Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription \*

Free Trial

▼

Resource group \*

4sep2024

▼

[Create new](#)

## Instance details

Storage account name \* ⓘ

secondstorageaccount2sep

Region \* ⓘ

(Asia Pacific) Central India

▼

[Deploy to an Azure Extended Zone](#)

Primary service ⓘ

Select a primary service

▼

Performance \* ⓘ

☒ Standard: Recommended for most scenarios (general-purpose v2 account)

☐ Premium: Recommended for scenarios that require low latency.

Redundancy \* ⓘ

Locally-redundant storage (LRS)

▼

Home > Storage accounts >

## Create a storage account ...

- Basics
- Advanced
- Networking
- Data protection
- Encryption
- Tags
- Review + create

### Security

Configure security settings that impact your storage account.

- Require secure transfer for REST API operations
- Allow enabling anonymous access on individual containers
- Enable storage account key access
- Default to Microsoft Entra authorization in the Azure portal
- Minimum TLS version
- Permitted scope for copy operations (preview)

### Hierarchical Namespace

Hierarchical namespace, complemented by Data Lake Storage Gen2 endpoint, enables file and directory semantics, accelerates big data analytics workloads, and enables access control lists (ACLs) [Learn more](#)

- Enable hierarchical namespace

### Access protocols

Blob and Data Lake Gen2 endpoints are provisioned by default [Learn more](#)

- Previous
- Next
- Review + create

Home >

## secondstorageaccount2sep\_1725463534660 | Overview ...

Deployment

Search

DeleteCancelRedeployDownloadRefresh

### Overview

Inputs

Outputs

Template

### Your deployment is complete

Deployment name: secondstorageaccount2sep\_1725463534660  
Subscription: Free Trial  
Resource group: 4sep2024

Start time: 9/4/2024, 8:55:45 PM  
Correlation ID: a2655e8e-65e9-4cca-9abb-a1468164e4da

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Home > Storage accounts

Default Directory (aldrinfigerdo150@gmail.onmicrosoft.com)

+ Create Restore Manage view Refresh Export to CSV Open query Assign tags Delete

Filter for any field... Subscription equals all Resource group equals all Location equals all Add filter

Showing 1 to 2 of 2 records.

Name ↑	Type ↑	Kind ↑	Resource group ↑	Location ↑	Subscription ↑
secondstorageaccount2sep	Storage account	StorageV2	4sep2024	Central India	Free Trial
storageaccountmodule3	Storage account	StorageV2	4sep2024	Central India	Free Trial

## 2. Upload some data to the first Blob service

Home > Storage accounts > secondstorageaccount2sep

Storage accounts

Default Directory (aldrinfigerdo150@gmail.onmicro...

+ Create Restore

Filter for any field...

Name ↑

- secondstorageaccount2sep
- storageaccountmodule3

secondstorageaccount2sep | Containers

Storage account

Search

+ Container Change access level Restore containers Refresh Delete Give fee

Search containers by prefix

Name	Last modified	Anonymous access level
blobs	9/4/2024, 8:56:18 PM	Private

New container

Name \*

destination

Anonymous access level

Container (anonymous read access for containers and blobs)

All container and blob data can be read by anonymous request. Clients can enumerate blobs within the container by anonymous request, but cannot enumerate containers within the storage account.

Advanced

Home > Storage accounts > secondstorageaccount2sep

Storage accounts

Default Directory (aldrinfigerdo150@gmail.onmicro...

+ Create Restore

Filter for any field...

Name ↑

- secondstorageaccount2sep
- storageaccountmodule3

secondstorageaccount2sep | 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
blobs	9/4/2024, 8:56:18 PM	Private	Available
destination	9/4/2024, 9:00:36 PM	Container	Available

Microsoft Azure Upgrade

Search resources, services, and docs (G+)

Copilot

aldrinfigerdo150@gmail.com

Home > Storage accounts > storageaccountmodule3

Storage accounts

Default Directory (aldrinfigerdo150@gmail.onmicro...

+ Create Restore

Filter for any field...

Name ↑

- secondstorageaccount2sep
- storageaccountmodule3

storageaccountmodule3 | Containers

Storage account

Search

+ Container Change access level Restore containers Refresh Delete Give fee

Search containers by prefix

Name	Last modified	Anonymous access level
blobs	9/4/2024, 7:41:42 PM	Private
assignment2blob	9/4/2024, 8:30:35 PM	Private
hello	9/4/2024, 7:55:28 PM	Private

New container

Name \*

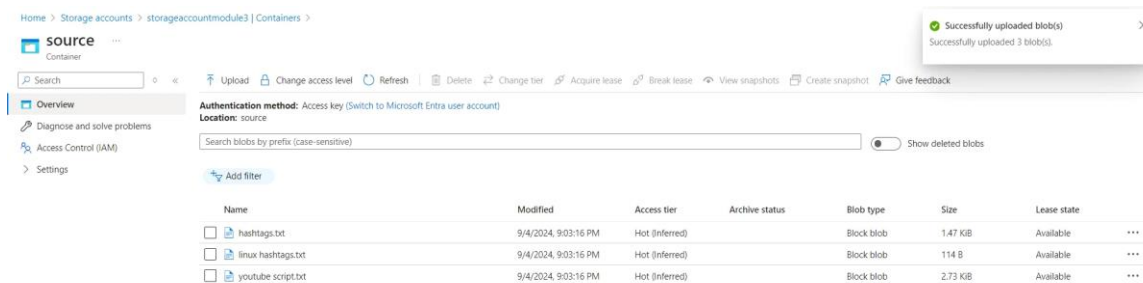
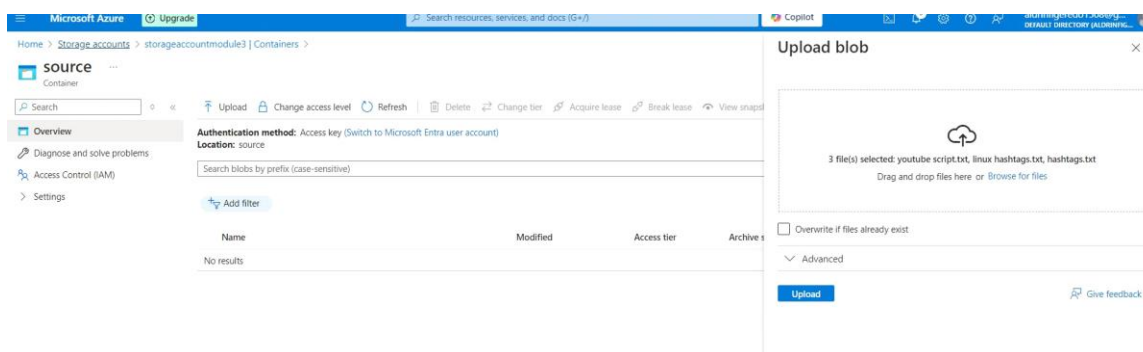
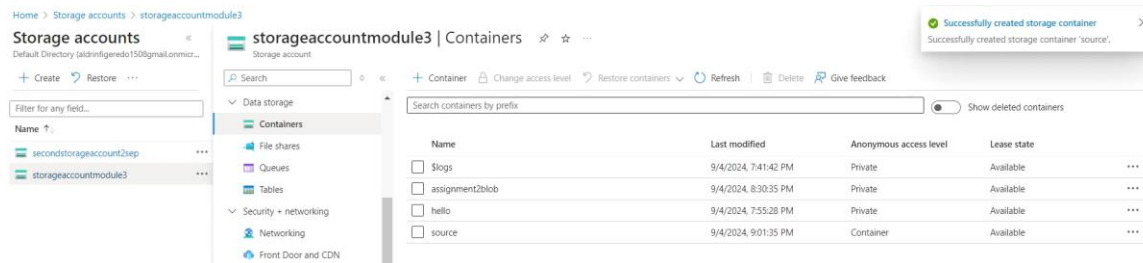
source

Anonymous access level

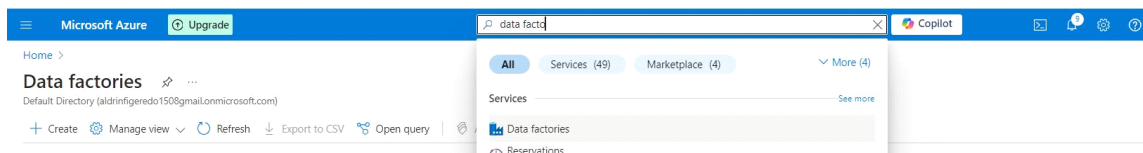
Container (anonymous read access for containers and blobs)

All container and blob data can be read by anonymous request. Clients can enumerate blobs within the container by anonymous request, but cannot enumerate containers within the storage account.

Advanced



### 3. Using Data Factory copy data to the second storage service's containe



[Home](#) >

## Data factories

Default Directory (aldrinf@redondo1508@gmail.onmicrosoft.com)

[+ Create](#) [Manage view](#) [Refresh](#) [Export to CSV](#) [Open query](#) [Assign tags](#)

Filter for any field...

Subscription equals all

Type equals all

Resource group equals all

Location equals all

Add filter

Showing 0 to 0 of 0 records.

No grouping

List view

Name

Type

Subscription

Resource group

Location



### No data factories to display

Integrate data blobs with Azure Data Factory, a service built for all data integration needs and skill levels. Easily construct ETL and ELT processes code-free within the intuitive visual environment.

[Create data factory](#)

[Learn more](#)

# Create Data Factory ...

**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 \* ⓘ

Free Trial

Resource group \* ⓘ

4sep2024

Create new

### Instance details

Name \* ⓘ

Assignmnet3DataFactory

Region \* ⓘ

Central India

Version \* ⓘ

V2

Previous   Next   **Review + create**

## Microsoft.DataFactory-20240904210743 | Overview

Deployment

- Overview
- Inputs
- Outputs
- Template

**✓ Your deployment is complete**

Deployment name : Microsoft.DataFactory-20240904210743  
Subscription : Free Trial  
Resource group : 4sep2024

Start time : 9/4/2024, 9:09:37 PM  
Correlation ID : 6558c925-9781-4d31-82c1-4254d30612e4

> Deployment details

✓ Next steps

**Go to resource**

Give feedback

Tell us about your experience with deployment

Home >

Data factories

Default Directory (aldrinfigueroa150@gmail.onmicrosoft.com)

Create

Manage view

Refresh

Export to CSV

Open query

Assign tags

Filter for any field...

Subscription equals all

Type equals all

Resource group equals all

Location equals all

Add filter

Showing 1 to 1 of 1 records.

No grouping

List view

Name ↑	Type ↑	Subscription ↑	Resource group ↑	Location ↑
Assignmnet3DataFactory	Data factory (V2)	Free Trial	4sep2024	Central India

Data factories

Default Directory (aldrinfigueroa150@gmail.onmicr...

Create

Manage view

...

Filter for any field...

Name ↑

Assignmnet3DataFactory

Assignmnet3DataFactory

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)

4sep2024

Status

Succeeded

Location

Central India

Subscription (move)

Free Trial

Subscription ID

b38e7b3d-e40f-4a03-9ae8-665ffd950134

Type

Data factory (V2)

Getting started

Quick start

Launch studio

Quick Starts

Tutorials

Template Gallery

Training Modules

Monitoring

PipelineRuns

ActivityRuns

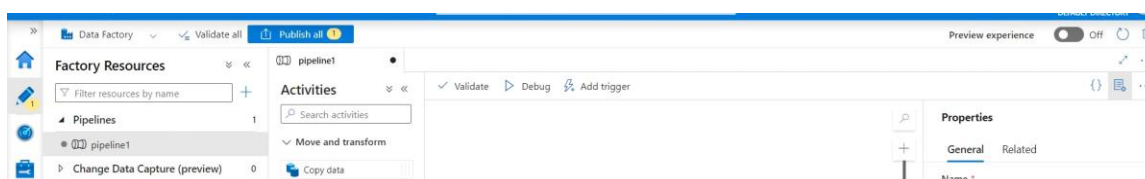
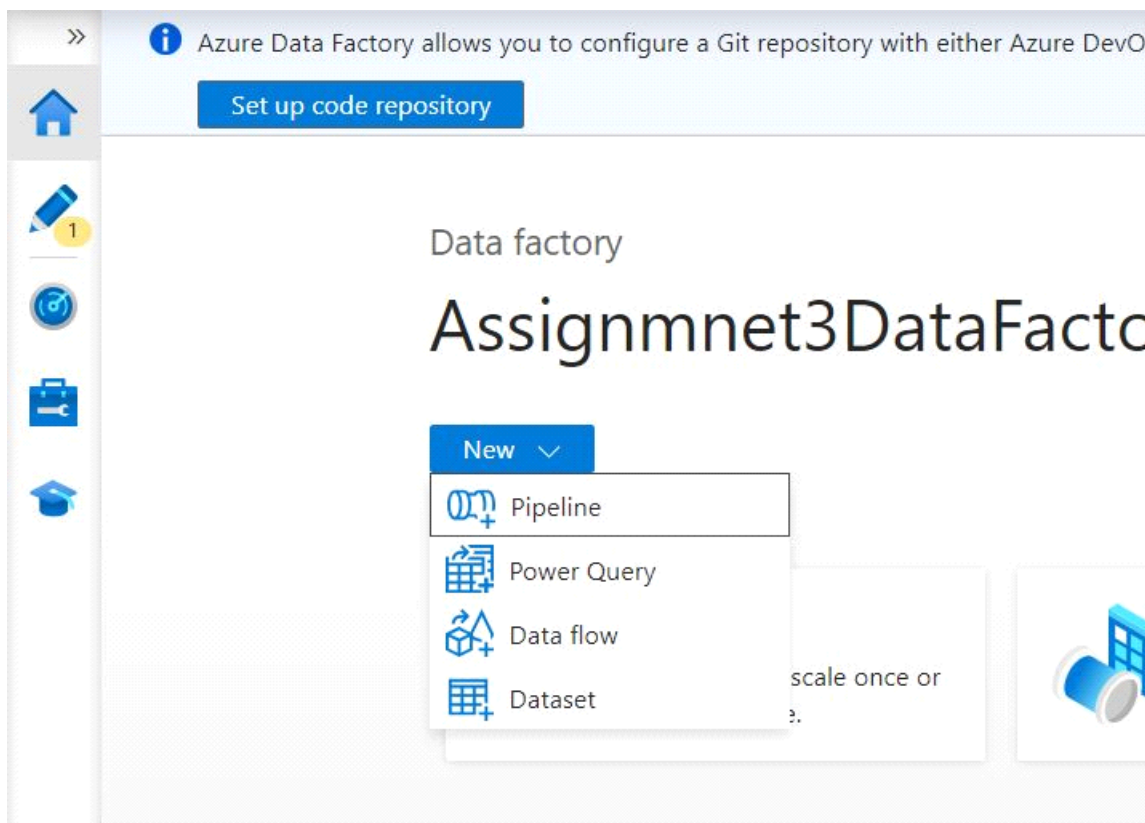
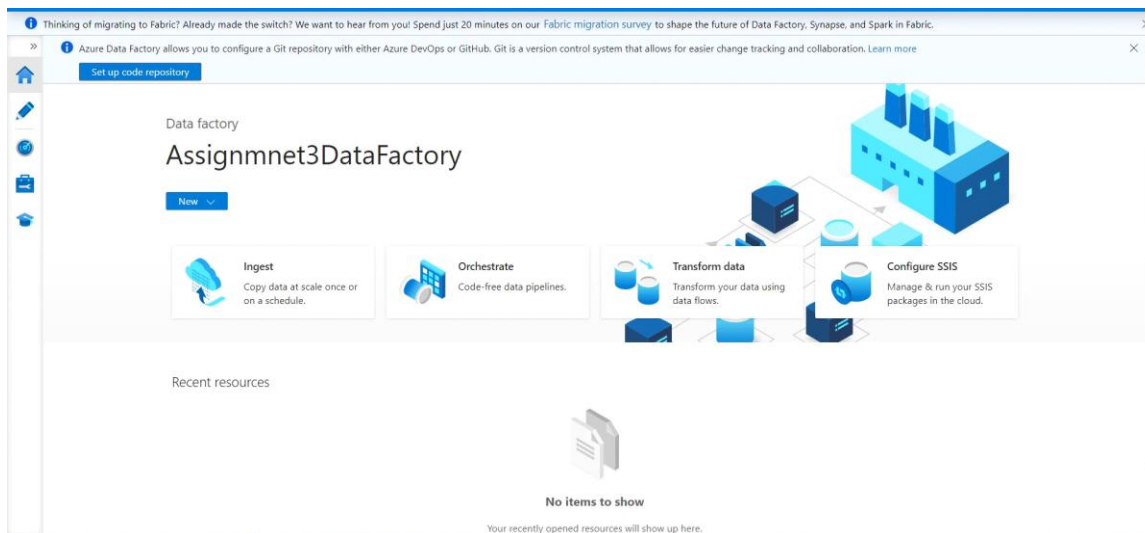
Assignmnet3DataFactory - Mic

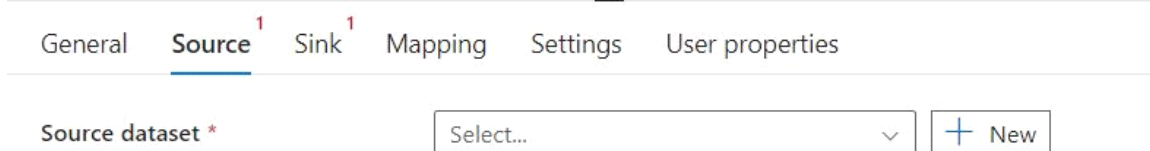
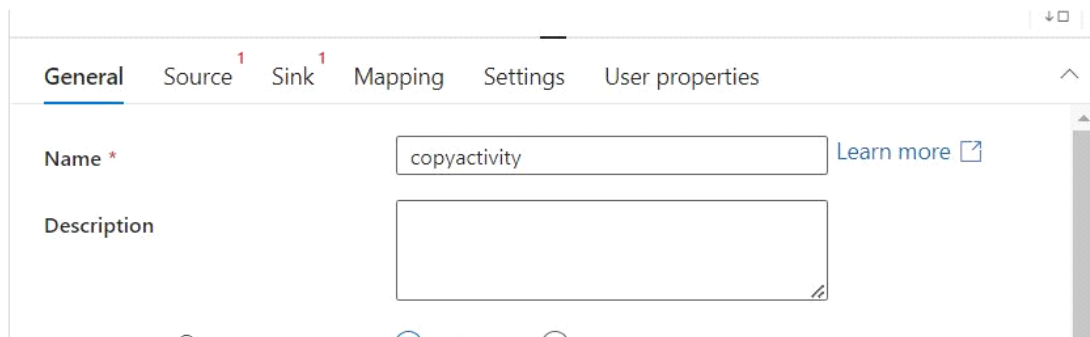
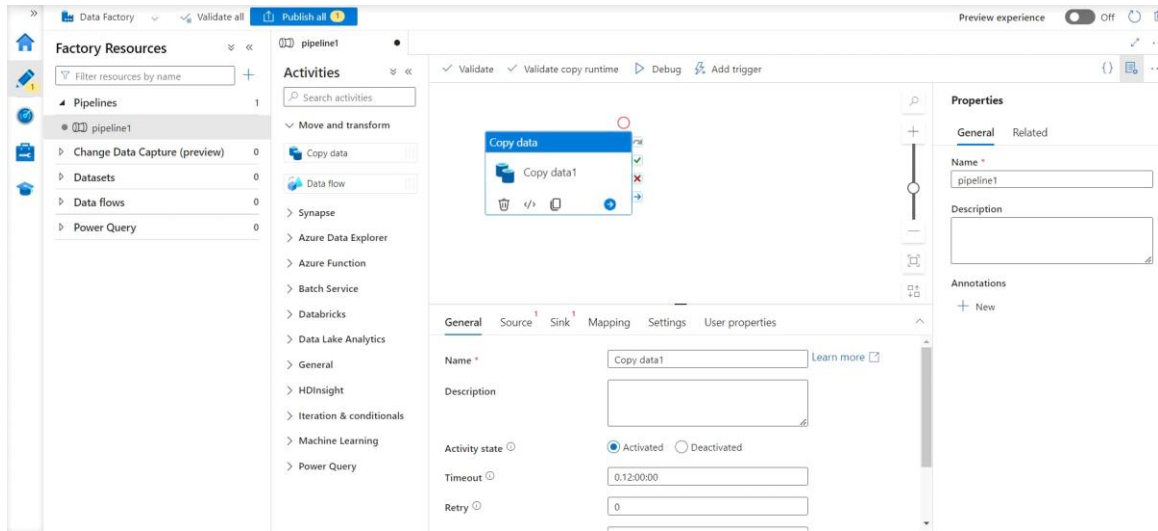
Azure Data Factory

adf.azure.com/en/home?factory=%2Fsubscriptions%2Fb38e9b3d-e40f-4a03-9ae8-665ffd950134%2FresourceGroups%2F4sep2024%2Fproviders%2FMicrosoft.DataFactory%2Ffactories%2FAss









publish all 1

pipeline1

Activities

Search activities

Move and transform

Copy data

Data flow

> Synapse

> Azure Data Explorer

> Azure Function

> Batch Service

Validate

Validate copy runtime

Debug

Copy data

copyactivity

New dataset

In pipeline activities and data flows, reference a dataset to specify the location and structure of your data within a data store. [Learn more](#)

Select a data store

blob


All

Azure

Database

File









Generic protocol



Azure Blob Storage

## Select format

Choose the format type of your data

 Avro	 Binary	 DelimitedText
 Excel	 JSON	 ORC
 Parquet	 XML	

Continue

Back

Cancel

## Set properties

Name

DelimitedText1

Linked service \*

Select...

Filter...

+ New

## New linked service

 Azure Blob Storage [Learn more](#) 

Name \*

AzureBlobStorage1

Description

Connect via integration runtime \* ⓘ

AutoResolveIntegrationRuntime

Authentication type

Account key


Connection string

Azure Key Vault

Account selection method ⓘ

☒ From Azure subscription ☐ Enter manually

## New linked service

 Azure Blob Storage [Learn more](#) 

### Authentication type

Account key



Connection string

Azure Key Vault

### Account selection method

☒ From Azure subscription ☐ Enter manually

### Azure subscription

Free Trial (b38e9b3d-e40f-4a03-9ae8-665ffd950134)



### Storage account name \*

storageaccountmodule3



### Additional connection properties

+ New

### Test connection

☒ To linked service ☐ To file path

### Annotations

+ New

> Parameters

> Advanced 

Create

Cancel

 Test connection

## Set properties

Name

DelimitedText1

Linked service \*

AzureBlobStorage1



File path

Container

/

Directory

/

File name



First row as header



Import schema



From connection/store



From sample file



None

> Advanced

OK

Back

Cancel

## Set properties

Name

DelimitedText1

Linked service \*

AzureBlobStorage1



File path

Container

/

Directory

/

File name



First row as header



Import schema



From connection/store



From sample file



None

> Advanced

OK

Back

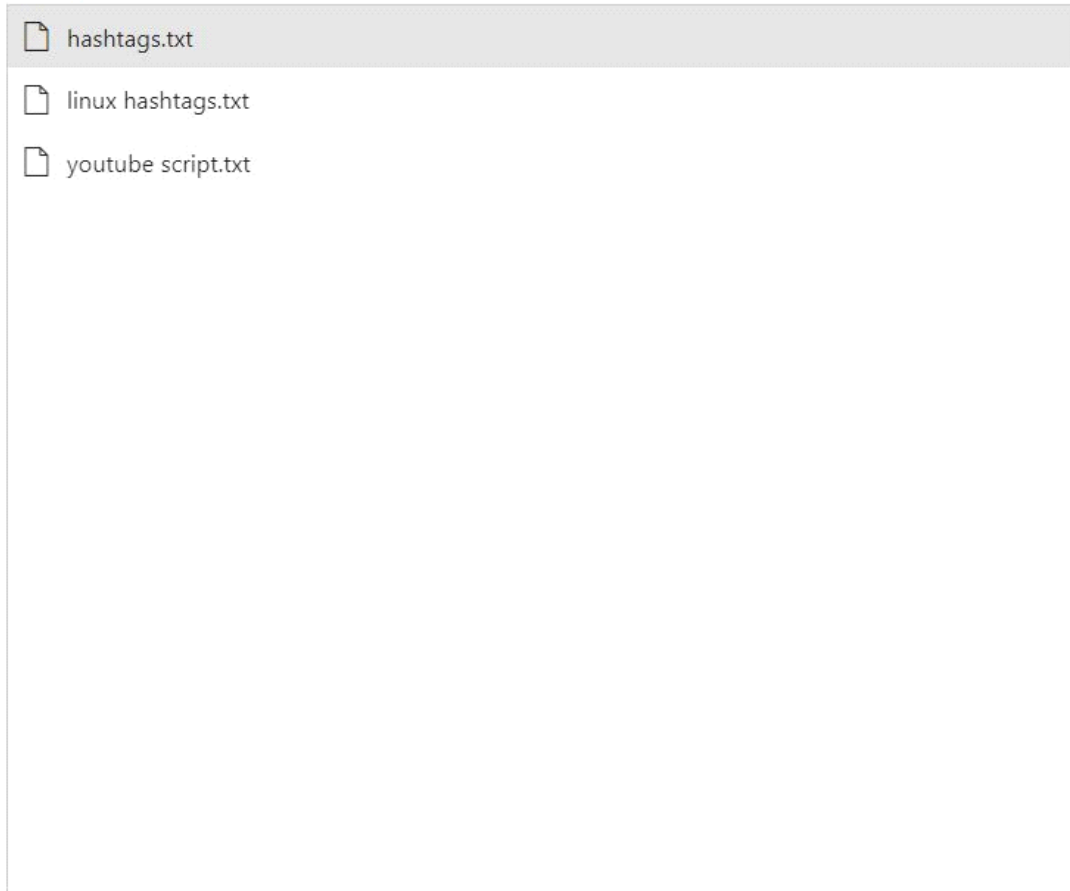
Cancel



## Browse

Select a file or folder.

[Root folder](#) > **source**



Showing 1 - 3 of 3 items

OK

Cancel

## Set properties

Name

DelimitedText1

Linked service <sup>\*</sup>

AzureBlobStorage1



File path

source

/

Directory

/

hashtags.txt



First row as header



Import schema

☒ From connection/store ☐ From sample file ☐ None

> Advanced

OK

Back

Cancel

pipeline1

Activities

Search activities

Move and transform

Copy data

Data flow

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

Power Query

Validate Validate copy runtime Debug Add trigger

Copy data

copyactivity

General

Source

Sink<sup>1</sup>

Mapping

Settings

User properties

Source dataset \*

DelimitedText1

Open New Preview data Learn more

File path type

File path in dataset

Prefix

Wildcard file path

List of f

Filter by last modified ⓘ

Start time (UTC)

End time (UTC)

General

Source

Sink<sup>1</sup>

Mapping

Settings

User properties

Sink dataset \*

Select...

New

Publish all

2

pipeline1

Activities

Search activities

Move and transform

Copy data

Data flow

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

Power Query

Copy data

copyactivity

General

Source

Sink<sup>1</sup>

Mapping

Settings

Sink dataset \*

Select...

New dataset

In pipeline activities and data flows, reference a dataset to specify the location and structure of your data within a data store. [Learn more](#)

Select a data store

blob

All

Azure

Database

File

Generic protocol







Azure Blob Storage

Continue

Cancel

## Select format

Choose the format type of your data

 Avro	 Binary	 DelimitedText
 JSON	 ORC	 Parquet

Continue

Back

Cancel

## Set properties

Name

DelimitedText2

Linked service \*

Select...

Filter...

+ New

Publish all

pipeline1

Activities

Search activities

Move and transform

Copy data

Data flow

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

Power Query

Validate

Validate copy runtime

Debug

Copy data

copyactivity

General

Source

Sink

Mapping

Settings

Sink dataset

Select...

New linked service

Azure Blob Storage Learn more

Name

AzureBlobStorage2

Description

Connect via integration runtime

AutoResolveIntegrationRuntime

Authentication type

Account key

Connection string

Azure Key Vault

Account selection method

From Azure subscription

Enter manually

Azure subscription

Free Trial (b38e9b3d-e40f-4a03-9ae8-665ffd950134)

Storage account name

secondstorageaccount2sep

Additional connection properties

New

Create

Cancel

Test connection

publish all 2

pipeline1

Activities

Search activities

Move and transform

Copy data

Data flow

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

Power Query

Validate

Validate copy runtime

Debug

Copy data

copyactivity

General

Source

Sink 1

Mapping

Settings

Sink dataset \*

Select...

Set properties

Name

DelimitedText2

Linked service \*

AzureBlobStorage2

File path

Container

/

Directory

/

File name

⌵

First row as header

☒

Import schema

☐ From connection/store

☐ From sample file

☒ None

> Advanced

OK


Back

Cancel

# Browse

Select a file or folder.

Root folder

 destination

Showing 1 item

OK

Cancel



## Set properties

Name

DelimitedText2

Linked service \*

AzureBlobStorage2



File path

destination

/

Directory

/

File name



First row as header



Import schema

☒ From connection/store ☐ From sample file ☐ None

> Advanced

OK


Back

Cancel

# Browse

Select a file or folder.

Root folder

 destination

Showing 1 item

OK

Cancel

## Set properties

Name

DelimitedText2

Linked service \*

AzureBlobStorage2

File path

destination

/

Directory

/

File name



First row as header



Import schema

☒ From connection/store ☐ From sample file ☐ None

> Advanced

OK

Back

Cancel

General

Source

**Sink**

Mapping

Settings

User properties

Sink dataset \*

DelimitedText2

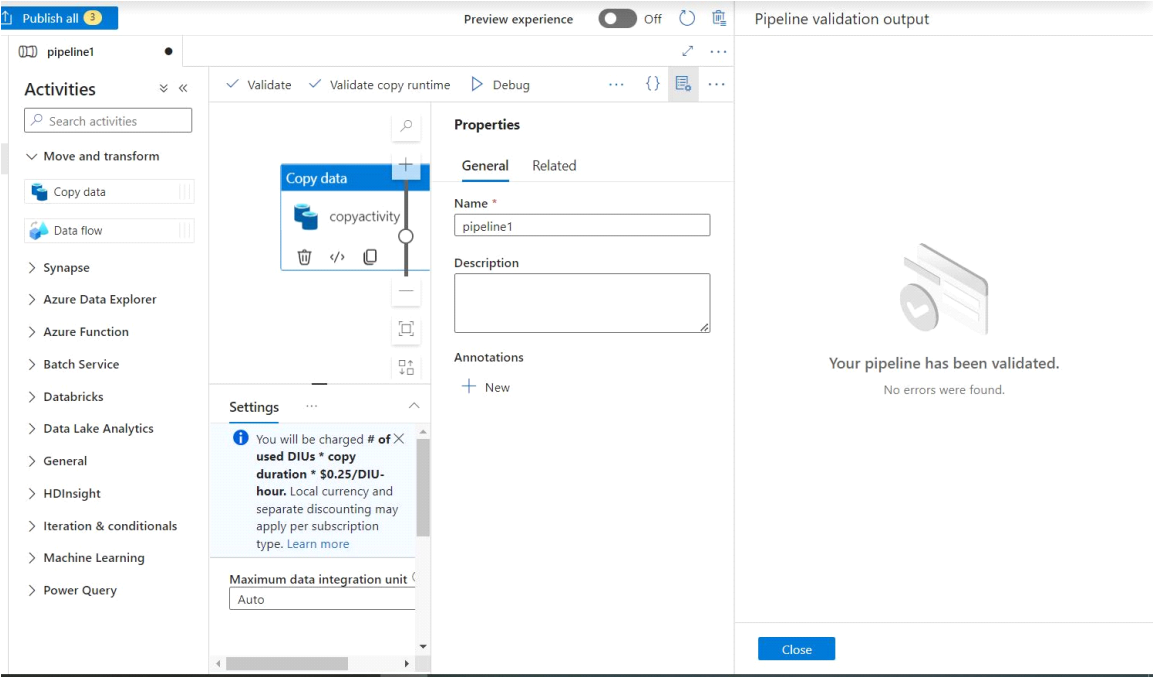
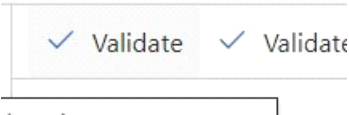


Open



New

[Learn more](#)



est runs of the current pipeline  
publishing your changes to the

Publish all

Preview experience

Off

pipeline1

Validate

Cancel options

Add trigger

Activities

Search activities

Move and transform

Copy data

Data flow

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

Power Query

Copy data

copyactivity

Properties

General

Related

Name \*

pipeline1

Description

Annotations

+ New

Parameters

Variables

Settings

Output

Pipeline run ID: 9656fe8c-2fb9-42e7-9a33-c8413a9f6f44

Pipeline status In progress

All status Monitor in Azure Metrics Export to CSV

Showing 1 - 1 of 1 items

Activity name	Activity status	Activity type	Run start
copyactivity	Queued	Copy data	9/4/2024, 9:30:15 PM

Publish all

pipeline1

Validate

Debug

Add trigger

Activities

Search activities

Move and transform

Copy data

Data flow

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

Power Query

Trigger test runs of the current pipeline without publishing your changes to the service

Copy data

copyactivity

Properties

General

Related

Name \*

pipeline1

Description

Annotations

+ New

Parameters

Variables

Settings

Output

Pipeline run ID: 9656fe8c-2fb9-42e7-9a33-c8413a9f6f44

Pipeline status Succeeded

All status Monitor in Azure Metrics View debug run consumption Export to CSV

Showing 1 - 1 of 1 items

Activity name	Activity status	Activity type	Run start
copyactivity	Succeeded	Copy data	9/4/2024, 9:30:15 PM

Home > Storage accounts > secondstorageaccount2sep

Storage accounts

secondstorageaccount2sep | Containers

Default Directory (aldrinf@redo1508@gmail.com)

+ Create + Restore ...

Filter for any field...

Name ↑

secondstorageaccount2sep

storageaccountmodule3

Search

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Storage Mover

Partner solutions

Data storage

Containers

Search containers by prefix

Show deleted containers

Name	Last modified	Anonymous access level	Lease state
<input type="checkbox"/> Slogs	9/4/2024, 8:56:18 PM	Private	Available
<input type="checkbox"/> destination	9/4/2024, 9:00:36 PM	Container	Available

Home > Storage accounts > secondstorageaccount2sep | Containers >

destination

Container

Search

Upload

Change access level

Refresh

Delete

Change tier

Acquire lease

Break lease

View snapshots

Create snapshot

Give feedback

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

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

Location: destination

Search blobs by prefix (case-sensitive)

Show deleted blobs

Add filter

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
<input type="checkbox"/> hashtags.txt	9/4/2024, 9:30:28 PM	Hot (Inferred)		Block blob	1.47 KB	Available



