

Home - Microsoft Azure

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Microsoft Azure

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

Copilot

Ahmed.Hedr@sh-eng.r  
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## Azure services



Create a  
resource



Data factories



Storage  
accounts



Resource  
groups



Quickstart  
Center



Azure AI  
Foundry



Kubernetes  
services



Virtual  
machines



App Services



More services

## Resources

Recent   Favorite

Name	Type	Last Viewed
aw-adf-p	Data factory (V2)	17 hours ago
awdatalakestoragep	Storage account	17 hours ago
Awproject	Resource group	21 hours ago

See all

## Navigate



Subscriptions



Resource groups



All resources



Dashboard

## Tools



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Awproject - Microsoft Azure

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# Awproject

Resource group

Help me generate Terraform for this resource group configuration.

How to manage these changes more efficiently with deployment tools?

Generate Bicep code to duplicate this resource group.

Create Manage view Delete resource group Refresh Export to CSV Open query Assign tags Move Delete ...

Group by none

Overview

Activity log

Access control (IAM)

Logs

Resource visualizer

Ents

Settings

Cost Management

Monitoring

Automation

Help

Essentials

Resources Recommendations

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

	Name ↑	Type	Location
<input type="checkbox"/>	aw-adf-p	Data factory (V2)	UAE North
<input type="checkbox"/>	awdatalakestoragep	Storage account	UAE North

Showing 1 - 2 of 2. Display count: auto

Give fee

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awdatalakestoragep | Containers

## Storage account

Container List					
Actions		Name	Last modified	Anonymous access level	Lease state
<input type="checkbox"/> <a href="#">Add container</a>		<a href="#">\$logs</a>	10/16/2025, 1:24:55 PM	Private	Available
<input type="checkbox"/>		<a href="#">bronze</a>	10/16/2025, 1:46:09 PM	Private	Available
<input type="checkbox"/>		<a href="#">gold</a>	10/16/2025, 1:47:16 PM	Private	Available
<input type="checkbox"/>		<a href="#">parameters</a>	10/16/2025, 4:53:22 PM	Private	Available
<input type="checkbox"/>		<a href="#">silver</a>	10/16/2025, 1:46:35 PM	Private	Available

awdatalakestoragep - Microsoft x aw-adf-p - Azure Data Factory x +

adf.azure.com/en/authoring/pipeline/DynamicGitToRow?factory=%2Fsubscriptions%2F8106a7db-1ce1-407d-a8f3-e941e39599e3%2FresourceGroups%2FAwproject%2Fproviders%2FMicrosoft.DataFacto... ☆

soft Azure | Data Factory ▶ aw-adf-p Search Cloud Copy Help ? Filter Ahmed.Hedr@sh-eng.menofia.edu.FACULTY OF ENGINEERING - MENOFIA UNIVERSITY

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Data Factory Validate all Publish all Preview experience Off

**Factory Resources** Filter resources by name + Add

**Pipelines** 1

- DynamicGitToRow
- Change Data Capture (preview) 0
- Datasets 4
- Data flows 0
- Power Query 0

**Activities** Search activities

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

**DynamicGitToRow** x

Validate ✓ Validate copy runtime ▷ Debug ⚡ Add trigger

DynamicGitToRow > ForEachGIT

**Copy data**

DynamicCopy	<span>✓</span>	<span>✗</span>
<span>trash</span>	<span>copy</span>	<span>next</span>

**General** Source Sink Mapping Settings User properties

Name \* DynamicCopy Learn more

Description

Activity state Activated Deactivated

Timeout 0.12:00:00

Retry 0

Type here to search Cloud Copy Help ? Filter 1 25°C مشمس ENG 11:03 AM 10/17/2025

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adf.azure.com/en/management/datalinkedservices?factory=%2Fsubscriptions%2F8106a7db-1ce1-407d-a8f3-e941e39599e3%2FresourceGroups%2FAwproject%2Fproviders%2FMicrosoft.DataFactory%2... ☆

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## 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 ↑↓
AzureDataLakeStorage1	Azure Data Lake Storage Gen2	3	
HttpServer1	HTTP	1	

Type here to search Cloud File Help ? Copy AHMED HEDR 1 25°C مشمس ENG 11:03 AM 10/17/2025

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adf.azure.com/en/management/datalinkedservices?factory=%2Fsubscriptions%2F8106a7db-1ce1-407d-a8f3-e941e39599e3%2FresourceGroups%2FAwproject%2Fproviders%2FMicrosoft.DataFactory%2... ☆

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Search

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## 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 ↑↓
AzureDataLakeStorage1	Azure Data Lake Storage
HttpServer1	HTTP

**Edit linked service**

HTTP [Learn more](#)

**Name \***  
HttpServer1

**Description**

**Connect via integration runtime \*** ⓘ  
 AutoResolveIntegrationRuntime

**Base URL \***  
https://raw.githubusercontent.com

**Information** ⚠ Information will be sent to the URL specified. Please ensure you trust the URL entered.

**Server certificate validation** ⓘ  
 Enable  Disable

**Authentication type \*** ⓘ  
Anonymous

**Auth headers** ⓘ

+ New

**Annotations**

+ New

Save Cancel Test connect

Type here to search

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adf.azure.com/en/management/datalinkedservices?factory=%2Fsubscriptions%2F8106a7db-1ce1-407d-a8f3-e941e39599e3%2FresourceGroups%2FAwproject%2Fproviders%2FMicrosoft.DataFactory%2... ☆

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## Linked services

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+ New Filter by name Annotations : Any

Showing 1 - 2 of 2 items

Name	Type
AzureDataLakeStorage1	Azure Data Lake Storage Gen2
HttpServer1	HTTP

General

- Connector upgrade advis...
- Factory settings

Connections

- Linked services
- Integration runtimes
- Microsoft Purview
- ADF in Microsoft Fabric

Source control

- Git configuration
- ARM template

Author

- Triggers
- Global parameters
- Data flow libraries

Security

- Credentials
- Customer managed key

**Edit linked service**

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

**URL \*** <https://awdatalakestoragep.dfs.core.windows.net/>

**Storage account key** [Azure Key Vault](#)

Storage account key \*  .....

**Test connection** [?](#)

To linked service  To file path

Save Cancel Test connect

Type here to search Cloud File Help ? ? 25°C مشمس ENG 11:04 AM 10/17/2025

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Data Factory Validate all Publish all Preview experience Off

**Factory Resources** Filter resources by name + Add

**Pipelines** 1

- DynamicGitToRow
- Change Data Capture (preview) 0
- Datasets 4
- Data flows 0
- Power Query 0

**Activities** Search activities

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

**DynamicGitToRow** x

✓ Validate ✓ Validate copy runtime Debug Add trigger

DynamicGitToRow > ForEachGIT

**Copy data**

DynamicCopy	<span>✓</span>
<span>trash</span>	<span>copy</span>
<span>copy</span>	<span>copy</span>
<span>copy</span>	<span>copy</span>

General Source Sink Mapping Settings User properties

Source dataset \* ds\_git\_dynamic Open New Preview data Learn more

Dataset properties ①

Name	Type
p_rel_url	String

Value: @item().p\_rel\_url

Request method \* ① GET

Additional headers ①

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Data Factory    Validate all    Publish all 1    Preview experience    Off

Factory Resources    Filter resources by name

- Pipelines (1)
  - DynamicGitToRow
- Change Data Capture (preview) (0)
- Datasets (3)
  - ds\_git\_dynamic
  - ds\_sink\_dynamic
  - parameters\_json
- Data flows (0)
- Power Query (0)

DynamicGitToRow    ds\_git\_dynamic

CSV DelimitedText ds\_git\_dynamic

Connection Schema Parameters

Linked service \* HttpServer1 Test connection Edit New Learn more

Base URL https://raw.githubusercontent.com

Relative URL @dataset().p\_rel\_url Preview data Detect format

Compression type No compression

Column delimiter Comma (,)

Row delimiter Default (\r,\n, or \r\n)

Encoding Default(UTF-8)

Quote character Double quote ("")

Type here to search

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## Factory Resources

Filter resources by name +

### Pipelines

DynamicGitToRow

### Change Data Capture (preview)

### Datasets

ds\_git\_dynamic

ds\_sink\_dynamic

parameters\_json

### Data flows

### Power Query

DynamicGitToRow

ds\_git\_dynamic

ds\_sink\_dynamic

## Activities

Search activities

> Move and transform

> Synapse

> Azure Data Explorer

> Azure Function

> Batch Service

> Databricks

> Data Lake Analytics

> General

> HDInsight

> Iteration & conditionals

> Machine Learning

> Power Query

DynamicGitToRow

> ForEachGIT

Validate Validate copy runtime Debug

General Source Sink Mapping Settings

Source dataset \*

ds\_git\_dynam

Dataset properties

Name

p\_rel\_url

Request method \* ⓘ

GET

Additional headers ⓘ

## Pipeline expression builder

Add dynamic content below using any combination of expressions, functions and system variables

@item().p\_rel\_url

Clear contents

ForEach iterator

Activity outputs

Parameters

System variables

...

Search

ForEachGIT

Current item



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adf.azure.com/en/authoring/pipeline/DynamicGitToRow?factory=%2Fsubscriptions%2F8106a7db-1ce1-407d-a8f3-e941e39599e3%2FresourceGroups%2FAwproject%2Fproviders%2FMicrosoft.DataFacto... ☆

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Data Factory Validate all Publish all Filter resources by name Add

**Factory Resources** Filter resources by name Add

**Pipelines** 1

- DynamicGitToRow
- Change Data Capture (preview) 0
- Datasets 4
- Data flows 0
- Power Query 0

**Activities** Search activities

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

**DynamicGitToRow** Validate Validate copy runtime Debug Add trigger

**DynamicGitToRow > ForEachGIT**

**Copy data**

- DynamicCopy

**Sink**

**Sink dataset \***

- ds\_sink\_dynamic Open New Learn more

**Dataset properties**

Name	Type
p_sink_folder	String
p_file_name	String

**Copy behavior**

- Select...

Type here to search Cloud Copy Feedback Help Preview experience Off

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Data Factory v Validate all ↑ Publish all

## Factory Resources

Filter resources by name +

### Pipelines

DynamicGitToRow

### Change Data Capture (preview)

### Datasets

ds\_git\_dynamic

ds\_sink\_dynamic

parameters\_json

### Data flows

### Power Query

## DynamicGitToRow

### Activities

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

## ds\_git\_dynamic

## ds\_sink\_dynamic

### Validate

### Validate copy runtime

### Debug

## DynamicGitToRow > ForEachGIT

### General

### Source

### Sink

### Mapping

### Settings

### Sink dataset \*

ds\_sink\_dynam

### Dataset properties

#### Name

p\_sink\_folder

p\_file\_name

### Copy behavior

Select...

### Max concurrent connections

1

OK

Cancel

## Pipeline expression builder

Add dynamic content below using any combination of expressions, functions and system variables

@item().p\_sink\_folder

Clear contents

### ForEach iterator

### Activity outputs

### Parameters

### System variables

Search

ForEachGIT

Current item



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Data Factory ▾ [Validate all](#) [Publish all](#)

## Factory Resources

Filter resources by name +

### Pipelines

DynamicGitToRow

### Change Data Capture (preview)

### Datasets

ds\_git\_dynamic

ds\_sink\_dynamic

parameters\_json

### Data flows

### Power Query

## DynamicGitToRow

### Activities

Move and transform

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

Power Query

## ds\_git\_dynamic

## ds\_sink\_dynamic

✓ Validate ✓ Validate copy runtime ▶ Debug

## DynamicGitToRow > ForEachGIT

General Source Sink Mapping Settings

Sink dataset \*

ds\_sink\_dynam

Dataset properties

Name

p\_sink\_folder

p\_file\_name

Copy behavior ⓘ

Select...

Max concurrent connections ⓘ

Select...

## Pipeline expression builder

Add dynamic content below using any combination of expressions, functions and system variables

@item().p\_file\_name

Clear contents

ForEach iterator

Activity outputs

Parameters

System variables

...

Search

ForEachGIT

Current item



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Data Factory ▾ Validate all Publish all Preview experience Off

Factory Resources ▾ << DynamicGitToRow ▾ Activities ▾ <<

Filter resources by name +

Pipelines 1

- DynamicGitToRow
- Change Data Capture (preview) 0
- Datasets 4
- Data flows 0
- Power Query 0

Activities ▾ <<

Search activities

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

Validate Debug Add trigger

Lookup **LookupGit** ForEach **ForEachGIT**

ForEach **ForEachGIT**

Activities

DynamicCopy

General Settings User properties

Source dataset \* parameters\_json Open New Preview data Learn more

First row only

File path type File path in dataset Wildcard file path List of files

Start time (UTC)

End time (UTC)

Filter by last modified Recursively

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 Data Factory   Validate all  Publish all 

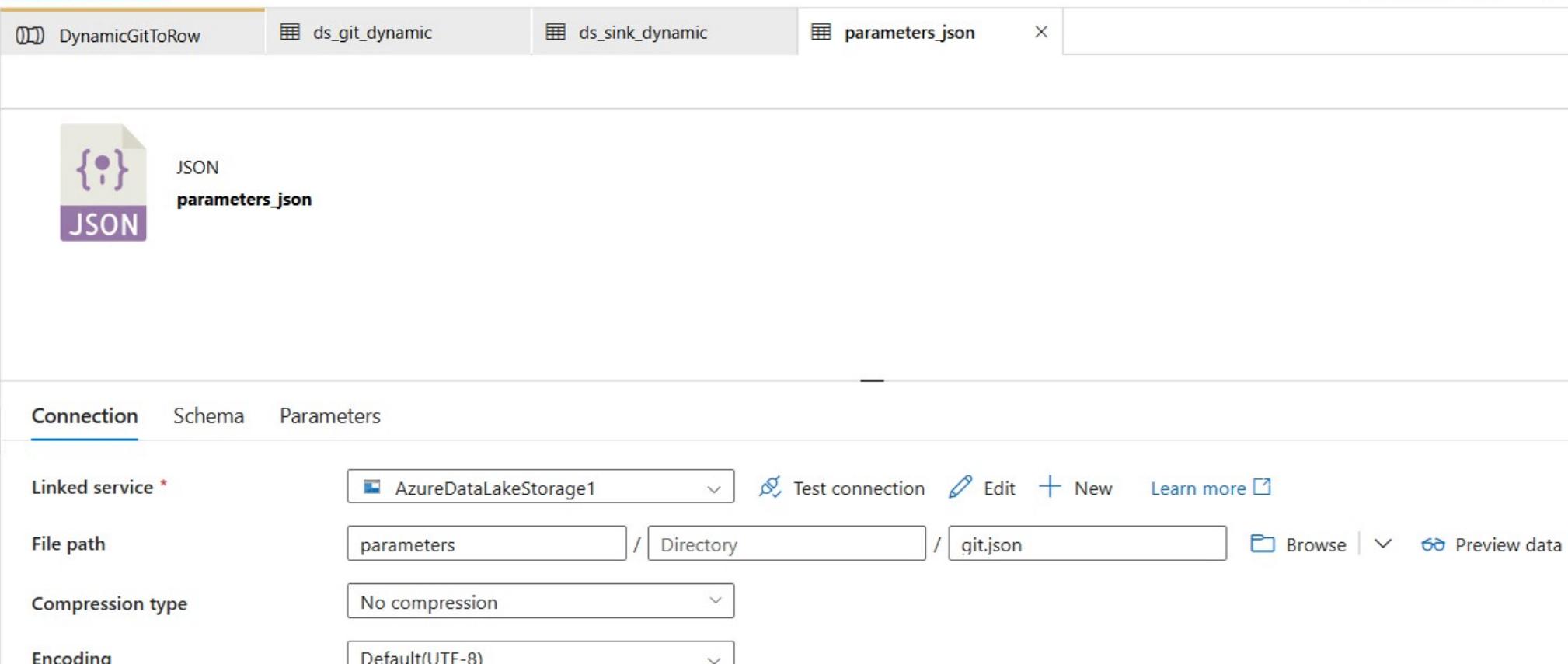
## Preview experience

Off

## Factory Resources

 Filter resources by name

- ▶ Pipelines
    - ⌚ DynamicGitToRow
    - ▶ Change Data Capture (preview)
  - ▶ Datasets
    - grid ds\_git\_dynamic
    - grid ds\_sink\_dynamic
    - grid parameters\_json
    - ...
  - ▶ Data flows
  - ▶ Power Query



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adf.azure.com/en/authoring/pipeline/DynamicGitToRow?factory=%2Fsubscriptions%2F8106a7db-1ce1-407d-a8f3-e941e39599e3%2FresourceGroups%2FAwproject%2Fproviders%2FMicrosoft.DataFacto... ☆

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Factory Resources Filter resources by name +

Pipelines DynamicGitToRow 1

Change Data Capture (preview) 0

Datasets 4

Data flows 0

Power Query 0

Activities

Search activities

Move and transform

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

Power Query

DynamicGitToRow

Validate Debug Add trigger

Lookup

LookupGit

ForEach

ForEachGIT

Activities

DynamicCopy

General Settings Activities (1) User properties

Case Activity

ForEach DynamicCopy

1 Activity

Type here to search

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### Factory Resources

Filter resources by name +

- ▶ Pipelines 1
  - DynamicGitToRow
- ▶ Change Data Capture (preview) 0
- ▶ Datasets 3
  - ds\_git\_dynamic
  - ds\_sink\_dynamic
  - parameters\_json
- ▶ Data flows 0
- ▶ Power Query 0

### Activities

Search activities

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

### DynamicGitToRow

Validate    Debug    Add trigger

Lookup

Activity outputs    Parameters    System variables    Functions    Variables

General    Settings    Activities (1)    User properties

Sequential   

Items    @activity('LookupGit')

OK    Cancel

### Pipeline expression builder

Add dynamic content below using any combination of expressions, functions and system variables

```
@activity('LookupGit').output.value
```

Clear contents

Activity outputs    Parameters    System variables    Functions    Variables

Search

- DynamicCopy
- DynamicCopy activity output
- LookupGit
- LookupGit activity output
- LookupGit count
- Count of the rows
- LookupGit value array
- Array of row data

Type here to search

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10/17/2025

```
1 [  
2 {  
3     "p_rel_url" : "ahmed7rafat/Azure-Data-Engineering-Project/refs/heads/main/data/AdventureWorks_Product_Categories",  
4     "p_sink_folder" : "AdventureWorks_Product_Categories",  
5     "p_file_name" : "AdventureWorks_Product_Categories.csv"  
6 },  
7 {  
8     "p_rel_url" : "ahmed7rafat/Azure-Data-Engineering-Project/refs/heads/main/data/AdventureWorks_Calendar.csv",  
9     "p_sink_folder" : "AdventureWorks_Calendar",  
10    "p_file_name" : "AdventureWorks_Calendar.csv"  
11 },  
12 {  
13     "p_rel_url" : "ahmed7rafat/Azure-Data-Engineering-Project/refs/heads/main/data/AdventureWorks_Customers.csv",  
14     "p_sink_folder" : "AdventureWorks_Customers",  
15     "p_file_name" : "AdventureWorks_Customers.csv"  
16 },  
17 {  
18     "p_rel_url" : "ahmed7rafat/Azure-Data-Engineering-Project/refs/heads/main/data/AdventureWorks_Product_Subcategories",  
19     "p_sink_folder" : "Product_Subcategories",  
20     "p_file_name" : "AdventureWorks_Product_Subcategories.csv"  
21 },  
22 {  
23     "p_rel_url" : "ahmed7rafat/Azure-Data-Engineering-Project/refs/heads/main/data/AdventureWorks_Products.csv",  
24     "p_sink_folder" : "AdventureWorks_Products",  
25     "p_file_name" : "AdventureWorks_Products.csv"  
26 },
```



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github.com/ahmed7rafat/Azure-Data-Engineering-Project/tree/main/data

ahmed7rafat / Azure-Data-Engineering-Project

Type / to search

ode Issues Pull requests Actions Projects Wiki Security Insights Settings

Add file ▾

Files

main

..

AdventureWorks\_Calendar.csv

AdventureWorks\_Customers.csv

AdventureWorks\_Product\_Cate...

AdventureWorks\_Product\_Subc...

AdventureWorks\_Products.csv

AdventureWorks\_Returns.csv

AdventureWorks\_Sales\_2015.csv

AdventureWorks\_Sales\_2016.csv

AdventureWorks\_Sales\_2017.csv

AdventureWorks\_Territories.csv

README.md

Azure-Data-Engineering-Project / data /

ahmed7rafat Add files via upload 13ffd8d · yesterday History

Name	Last commit message	Last commit date
..		
AdventureWorks_Calendar.csv	Add files via upload	yesterday
AdventureWorks_Customers.csv	Add files via upload	yesterday
AdventureWorks_Product_Categories.csv	Add files via upload	yesterday
AdventureWorks_Product_Subcategories.csv	Add files via upload	yesterday
AdventureWorks_Products.csv	Add files via upload	yesterday
AdventureWorks_Returns.csv	Add files via upload	yesterday
AdventureWorks_Sales_2015.csv	Add files via upload	yesterday
AdventureWorks_Sales_2016.csv	Add files via upload	yesterday
AdventureWorks_Sales_2017.csv	Add files via upload	yesterday
AdventureWorks_Territories.csv	Add files via upload	yesterday

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awdatalakestoragep - Microsoft X aw-adf-p - Azure Data Factory X raw.githubusercontent.com/ahr X +

https://raw.githubusercontent.com/ahmed7rafat/Azure-Data-Engineering-Project/refs/heads/main/data/AdventureWorks\_Products.csv

Key,ProductSubcategoryKey,ProductSKU,ProductName,ModelName,ProductDescription,ProductColor,ProductSize,ProductStyle,ProductCost,ProductPrice  
HL-U509-R,"Sport-100 Helmet, Red",Sport-100,"Universal fit, well-vented, lightweight , snap-on visor.",Red,0,0,13.0863,34.99  
HL-U509,"Sport-100 Helmet, Black",Sport-100,"Universal fit, well-vented, lightweight , snap-on visor.",Black,0,0,12.0278,33.6442  
SO-B909-M,"Mountain Bike Socks, M",Mountain Bike Socks,Combination of natural and synthetic fibers stays dry and provides just the right cushioning.,White,M,U,3.3963,9.5  
SO-B909-L,"Mountain Bike Socks, L",Mountain Bike Socks,Combination of natural and synthetic fibers stays dry and provides just the right cushioning.,White,L,U,3.3963,9.5  
HL-U509-B,"Sport-100 Helmet, Blue",Sport-100,"Universal fit, well-vented, lightweight , snap-on visor.",Blue,0,0,12.0278,33.6442  
CA-1098,AWC Logo Cap,Cycling Cap,Traditional style with a flip-up brim; one-size fits all.,Multi,0,U,5.7052,8.6442  
LJ-0192-S,"Long-Sleeve Logo Jersey, S",Long-Sleeve Logo Jersey,Unisex long-sleeve AWC logo microfiber cycling jersey,Multi,S,U,31.7244,48.0673  
LJ-0192-M,"Long-Sleeve Logo Jersey, M",Long-Sleeve Logo Jersey,Unisex long-sleeve AWC logo microfiber cycling jersey,Multi,M,U,31.7244,48.0673  
LJ-0192-L,"Long-Sleeve Logo Jersey, L",Long-Sleeve Logo Jersey,Unisex long-sleeve AWC logo microfiber cycling jersey,Multi,L,U,31.7244,48.0673  
LJ-0192-X,"Long-Sleeve Logo Jersey, XL",Long-Sleeve Logo Jersey,Unisex long-sleeve AWC logo microfiber cycling jersey,Multi,XL,U,31.7244,48.0673  
FR-R92R-62,"HL Road Frame - Red, 62",HL Road Frame,Our lightest and best quality aluminum frame made from the newest alloy; it is welded and heat-treated for strength. Our innovative design results in comfort and performance.,Red,62,U,747.9682,1263.4598  
FR-R92R-44,"HL Road Frame - Red, 44",HL Road Frame,Our lightest and best quality aluminum frame made from the newest alloy; it is welded and heat-treated for strength. Our innovative design results in comfort and performance.,Red,44,U,747.9682,1263.4598  
FR-R92R-48,"HL Road Frame - Red, 48",HL Road Frame,Our lightest and best quality aluminum frame made from the newest alloy; it is welded and heat-treated for strength. Our innovative design results in comfort and performance.,Red,48,U,747.9682,1263.4598  
FR-R92R-52,"HL Road Frame - Red, 52",HL Road Frame,Our lightest and best quality aluminum frame made from the newest alloy; it is welded and heat-treated for strength. Our innovative design results in comfort and performance.,Red,52,U,747.9682,1263.4598  
FR-R92R-56,"HL Road Frame - Red, 56",HL Road Frame,Our lightest and best quality aluminum frame made from the newest alloy; it is welded and heat-treated for strength. Our innovative design results in comfort and performance.,Red,56,U,747.9682,1263.4598  
FR-R38B-58,"LL Road Frame - Black, 58",LL Road Frame,"The LL Frame provides a safe comfortable ride, while offering superior bump absorption in a value-priced aluminum frame.",Black,58,U,176.1997,297.6346  
FR-R38B-60,"LL Road Frame - Black, 60",LL Road Frame,"The LL Frame provides a safe comfortable ride, while offering superior bump absorption in a value-priced aluminum frame.",Black,60,U,176.1997,297.6346  
FR-R38B-62,"LL Road Frame - Black, 62",LL Road Frame,"The LL Frame provides a safe comfortable ride, while offering superior bump absorption in a value-priced aluminum frame.",Black,62,U,176.1997,297.6346  
FR-R38R-44,"LL Road Frame - Red, 44",LL Road Frame,"The LL Frame provides a safe comfortable ride, while offering superior bump absorption in a value-priced aluminum frame.",Red,44,U,181.4857,306.563  
FR-R38R-48,"LL Road Frame - Red, 48",LL Road Frame,"The LL Frame provides a safe comfortable ride, while offering superior bump absorption in a value-priced aluminum frame.",Red,48,U,181.4857,306.563  
FR-R38R-52,"LL Road Frame - Red, 52",LL Road Frame,"The LL Frame provides a safe comfortable ride, while offering superior bump absorption in a value-priced aluminum frame.",Red,52,U,181.4857,306.563  
FR-R38R-58,"LL Road Frame - Red, 58",LL Road Frame,"The LL Frame provides a safe comfortable ride, while offering superior bump absorption in a value-priced aluminum frame.",Red,58,U,181.4857,306.563  
FR-R38R-60,"LL Road Frame - Red, 60",LL Road Frame,"The LL Frame provides a safe comfortable ride, while offering superior bump absorption in a value-priced aluminum frame.",Red,60,U,181.4857,306.563  
FR-R38R-62,"LL Road Frame - Red, 62",LL Road Frame,"The LL Frame provides a safe comfortable ride, while offering superior bump absorption in a value-priced aluminum frame.",Red,62,U,181.4857,306.563  
FR-R72R-44,"ML Road Frame - Red, 44",ML Road Frame,"Made from the same aluminum alloy as our top-of-the line HL frame, the ML features a lightweight down-tube milled to the perfect diameter for optimum h. Men's version.",Red,44,U,352.1394,594.83  
FR-R72R-48,"ML Road Frame - Red, 48",ML Road Frame,"Made from the same aluminum alloy as our top-of-the line HL frame, the ML features a lightweight down-tube milled to the perfect diameter for optimum h. Men's version.",Red,48,U,352.1394,594.83  
FR-R72R-52,"ML Road Frame - Red, 52",ML Road Frame,"Made from the same aluminum alloy as our top-of-the line HL frame, the ML features a lightweight down-tube milled to the perfect diameter for optimum h. Men's version.",Red,52,U,352.1394,594.83  
FR-R72R-58,"ML Road Frame - Red, 58",ML Road Frame,"Made from the same aluminum alloy as our top-of-the line HL frame, the ML features a lightweight down-tube milled to the perfect diameter for optimum h. Men's version.",Red,58,U,352.1394,594.83  
FR-R72R-60,"ML Road Frame - Red, 60",ML Road Frame,"Made from the same aluminum alloy as our top-of-the line HL frame, the ML features a lightweight down-tube milled to the perfect diameter for optimum h. Men's version.",Red,60,U,352.1394,594.83  
FR-R38B-44,"LL Road Frame - Black, 44",LL Road Frame,"The LL Frame provides a safe comfortable ride, while offering superior bump absorption in a value-priced aluminum frame.",Black,44,U,176.1997,297.6346  
FR-R38B-48,"LL Road Frame - Black, 48",LL Road Frame,"The LL Frame provides a safe comfortable ride, while offering superior bump absorption in a value-priced aluminum frame.",Black,48,U,176.1997,297.6346  
FR-R38B-52,"LL Road Frame - Black, 52",LL Road Frame,"The LL Frame provides a safe comfortable ride, while offering superior bump absorption in a value-priced aluminum frame.",Black,52,U,176.1997,297.6346

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Data Factory    Validate all    Publish all    Preview experience    Off

**Factory Resources**

+ Filter resources by name

- Pipelines 1
  - DynamicGitToRow
- Change Data Capture (preview) 0
- Datasets 3
  - ds\_git\_dynamic
  - ds\_sink\_dynamic
  - parameters\_json
- Data flows 0
- Power Query 0

**DynamicGitToRow**

Activities

Validate    Debug    Add trigger

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

ForEach    ForEachGIT    Activities    DynamicCopy

Lookup    LookupGit

Parameters    Variables    Settings    Output

Pipeline run ID: 5d339db9-d764-4571-ac57-1fb7f89f586a    Pipeline status: Succeeded

All status    List

Showing 1 - 12 of 12 items

Activity name	Activity st...	Activit...	Run start	Duration	Integration runtime
DynamicCopy	Succeeded	Copy data	10/17/2025, 11:23:05 AM	17s	AutoResolveIntegrationRuntime (UAI)
DynamicCopy	Succeeded	Copy data	10/17/2025, 11:22:49 AM	15s	AutoResolveIntegrationRuntime (UAI)
DynamicCopy	Succeeded	Copy data	10/17/2025, 11:22:31 AM	16s	AutoResolveIntegrationRuntime (UAI)

View debug run consumption    Monitor in Azure Metrics    Export to CSV

awdatalakestoragep | Containers >

## bronze

Container

Search

+ Add Directory    ⬆ Upload    ⏪ Refresh    ⚡ Delete    🗂 Copy    🗃 Paste    📁 Rename    ⚡ Acquire lease    ⚡ Break lease    📊 Edit columns

Overview

Detect and solve problems

Access Control (IAM)

Settings



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

🔍 Search blobs by prefix (case-sensitive)

Only show active objects

Showing all 10 items

<input type="checkbox"/>	Name	Last modified	Access tier	Blob type	Size	Lease state
<input type="checkbox"/>	📁 AdventureWorks_Calendar	10/16/2025, 5:54:54 PM				
<input type="checkbox"/>	📁 AdventureWorks_Customers	10/16/2025, 6:04:47 PM				
<input type="checkbox"/>	📁 AdventureWorks_Product_Categories	10/16/2025, 5:54:40 PM				
<input type="checkbox"/>	📁 AdventureWorks_Products	10/16/2025, 5:55:35 PM				
<input type="checkbox"/>	📁 AdventureWorks_Returns	10/16/2025, 5:55:48 PM				
<input type="checkbox"/>	📁 AdventureWorks_Sales_2015	10/16/2025, 5:56:01 PM				
<input type="checkbox"/>	📁 AdventureWorks_Sales_2016	10/16/2025, 5:56:17 PM				
<input type="checkbox"/>	📁 AdventureWorks_Sales_2017	10/16/2025, 5:56:31 PM				
<input type="checkbox"/>	📁 AdventureWorks_Territories	10/16/2025, 5:56:47 PM				
<input type="checkbox"/>	📁 Product_Subcategories	10/16/2025, 5:55:22 PM				

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bronze - Microsoft Azure    aw-adf-p - Azure Data Factory    Azure-Data-Engineering-Projec...    +

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awdatalakestoragep | Containers > bronze

bronze ...  
Container

Add Directory    Upload    Refresh    Delete    Copy    Paste    Rename    Acquire lease    Break lease    Edit columns

bronze > AdventureWorks\_Calendar

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
<input type="checkbox"/>	[..]					
<input type="checkbox"/>	AdventureWorks_Calendar.csv	10/17/2025, 11:21:17 AM	Hot (Inferred)	Block blob	9.72 KiB	Available

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# adb-aw-p

[Summarize the jobs running on this Azure Databricks Service.](#)[List access control settings for this Azure Databricks Service.](#)[How do I troubleshoot issues with this Azure Databricks Service?](#)

Azure Databricks Service

Search

 Delete

## Essentials

Status : Active

Managed Resource Group : [managed-adb-aw-p](#)Resource group : [Awproject](#)URL : <https://adb-4003125300893577.17.azuredatabricks.net>

Location : UAE North

Pricing Tier : [Premium \(+ Role-based access controls\) \(Click to change\)](#)Subscription : [Azure for Students](#)

Enable No Public IP : Yes

Subscription ID : 8106a7db-1ce1-407d-a8f3-e941e39599e3

Tags ([edit](#)) : [Add tags](#)[Launch Workspace](#)[Documentation](#)[Getting Started](#)[Import Data from File](#)[Import Data from Azure Storage](#)[Notebook](#)[Admin Guide](#)[Link Azure ML workspace](#)

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Compute &gt; Simple form: ON

## Aw-project-Cluster



Terminate

Send fee

Configuration

Notebooks (0)

Libraries

Event log

Spark UI

Driver logs

Metrics

Apps

Spark compute UI - Master

Summary

16 GB Memory, 4 Cores

Data access

Unity Catalog

Price

1 DBU/h

### General

Compute name

Aw-project-Cluster



Policy

Unrestricted



### Performance

 Machine learning 

Databricks runtime

14.3 LTS (includes Apache Spark 3.5.0, Scala 2.12)

 Photon acceleration 

Node type

Standard\_D4ds\_v5

16 GB Memory, 4 Cores

 Single node

This account may not have enough CPU cores to satisfy this request

Estimated available: 0, requested: 4

[Learn more about CPU quota.](#) Terminate after

20



minutes of inactivity



Compute &gt; Simple form: ON

## Aw-Cluster

⋮ Terminate**Configuration**

Notebooks (0)

Libraries

Event log

Spark UI

Driver logs

Metrics

Apps

Spark compute UI - Master

Send feed

Summary

16 GB Memory, 4 Cores

Data access

Unity Catalog

Price

0.75 DBU/h

## Performance

 Machine learning 

Databricks runtime

16.4 LTS (includes Apache Spark 3.5.2, Scala 2.12)

 Photon acceleration 

Node type

Standard\_D4ds\_v4

16 GB Memory, 4 Cores

 Single node Terminate after

20



minutes of inactivity

Advanced performance

## Tags

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Compute &gt; Simple form: ON

## Aw-Cluster • Cluster running

Terminate

Configuration

Notebooks (0)

Libraries

Event log

Spark UI

Driver logs

Metrics

Apps

Spark compute UI - Master

Send fee

⚠️ Based on your existing cloud quotas, your default compute size has been reduced. View or increase your quotas in Azure portal.

### General

Compute name

Aw-Cluster



Policy

Unrestricted



Summary

16 GB Memory, 4 Cores

Data access

Unity Catalog

Price

0.75 DBU/h

### Performance

Machine learning



Databricks runtime

16.4 LTS (includes Apache Spark 3.5.2, Scala 2.12)



Photon acceleration



Node type

Standard\_D4ds\_v4

16 GB Memory, 4 Cores



Single node

Terminate after

20



minutes of inactivity

Advanced performance



aw-app - Microsoft Azure

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aw-app

Delete Endpoints Preview features

Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer). →

^ Essentials

Display name	: aw-app	Client credentials	: <a href="#">Add a certificate or secret</a>
Application (client) ID	: a8d1feff-3724-4df4-8d11-95a055be1413	Redirect URIs	: <a href="#">Add a Redirect URI</a>
Object ID	: 44ba1513-ffb1-4eb9-8b44-466474bf3082	Application ID URI	: <a href="#">Add an Application ID URI</a>
Directory (tenant) ID	: 7b099a53-e263-4dc9-b493-06a0633226fc	Managed application in I...	: <a href="#">aw-app</a>

Supported account types : [My organization only](#)

Welcome to the new and improved App registrations. Looking to learn how it's changed from App registrations (Legacy)? [Learn more](#)

Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure Active Directory Graph. We will continue to provide technical support and security updates but we will no longer provide feature updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. [Learn more](#)

Get Started Documentation

## Build your application with the Microsoft identity platform

The Microsoft identity platform is an authentication service, open-source libraries, and application management tools. You can create modern, standards-based authentication solutions, access and protect APIs, and add sign-in for your users and customers. [Learn more](#)

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Add a client secret - Microsoft / +

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Microsoft Azure  Copilot

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## aw-app | Certificates & secrets

Got feedback? 

Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens (using the client ID and client secret scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.

 Application registration certificates, secrets and federated credentials can be found in the tabs below.

Certificates (0) Client secrets (0) Federated credentials (0)

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as app password.

+ New client secret

Description	Expires	Value 
No client secrets have been created for this application.		

Add Cancel

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aw-app - Microsoft Azure

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Microsoft Azure

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## aw-app | Certificates & secrets

Got feedback?

Got a second to give us some feedback? →

Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.

Application registration certificates, secrets and federated credentials can be found in the tabs below.

Certificates (0) Client secrets (1) Federated credentials (0)

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

New client secret

Client secret values cannot be viewed, except for immediately after creation. Be sure to save the secret when created before leaving the page.

Description	Expires	Value ⓘ	Secret ID
aw-secret	4/16/2026	eFH8Q~NpXRBaRnTZBVMrpL7IAk5ohLLY...	734beb71-9d1f-412b-abf8-2a47a811384c

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aw-app - Microsoft Azure

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## aw-app | Certificates & secrets

Got feedback?

Got a second to give us some feedback? →

Credentials enable confidential applications to identify themselves to the authentication scheme. For a higher level of assurance, we recommend using a certificate (instead of a

Application registration certificates, secrets and federated credentials can be found in the

Certificates (0) Client secrets (1) Federated credentials (0)

A secret string that the application uses to prove its identity when requesting a token.

+ New client secret

Description	Expires	Value ⓘ
aw-secret	4/16/2026	eFH8Q~NpXRBaRnTZBVMrpL71Ak5ohLLYVKh58ced

\*Untitled - Notepad

File Edit Format View Help

Application (client) ID : a8d1feff-3724-4df4-8d11-95a055be1413  
Directory (tenant) ID : 7b099a53-e263-4dc9-b493-06a0633226fc  
secret value : eFH8Q~NpXRBaRnTZBVMrpL71Ak5ohLLYVKh58ced

Ln 3, Col 56 100% Windows (CRLF) UTF-8

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awdatalakestoragep

## awdatalakestoragep | Access Control (IAM)

Storage account

Add Download role assignments Edit columns Refresh Delete Feedback

Add role assignment

Check access Role assignments Roles Deny assignments Classic administrators

### My access

View my level of access to this resource.

[View my access](#)

### Check access

Review the level of access a user, group, service principal, or managed identity has to this resource. [Learn more](#)

[Check access](#)

#### Grant access to this resource

Grant access to resources by assigning a role.

[Learn more](#)

[Add role assignment](#)

#### View access to this resource

View the role assignments that grant access to this and other resources.

[Learn more](#)

[View](#)

#### View deny assignments

View the role assignments that have been denied access to specific actions at this scope.

[Learn more](#)

[View](#)

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Add role assignment - Microsoft

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## Microsoft Azure

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awdatalakestoragep | Access Control (IAM) >

### Role assignment

Members \* Conditions Review + assign

The definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. [Learn more](#)

Copilot can help pick a role

function roles Privileged administrator roles

Grant access to Azure resources based on job function, such as the ability to create virtual machines.

Name <span>↑↓</span>	Description <span>↑↓</span>	Type <span>↑↓</span>	Category <span>↑↓</span>	Details
Defender CSPM Storage Data Scanner	Grants access to read blobs and files. This role is used by the data scanner of Defender CSPM.	BuiltInRole	None	<a href="#">View</a>
Defender for Storage Data Scanner	Grants access to read blobs and update index tags. This role is used by the data scanner of Defender for Storage.	BuiltInRole	None	<a href="#">View</a>
Storage Actions Blob Data Operator	Used by the Storage Actions - Storage Task to list & perform operations on the Storage Account blobs	BuiltInRole	None	<a href="#">View</a>
Storage Blob Data Contributor	Allows for read, write and delete access to Azure Storage blob containers and data	BuiltInRole	Storage	<a href="#">View</a>
Storage Blob Data Owner	Allows for full access to Azure Storage blob containers and data, including assigning POSIX access control.	BuiltInRole	Storage	<a href="#">View</a>
Storage Blob Data Reader	Allows for read access to Azure Storage blob containers and data	BuiltInRole	Storage	<a href="#">View</a>
Storage Blob Delegator	Allows for generation of a user delegation key which can be used to sign SAS tokens	BuiltInRole	Storage	<a href="#">View</a>

Showing 1 - 7 of 7 results.

[View + assign](#) [Previous](#) [Next](#)

Select members - Microsoft Azl x +

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Microsoft Azure Search resources, services, and docs (G+/)

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awdatalakestoragep | Access Control (IAM) >

## Role assignment

Members Conditions Review + assign

Selected role Storage Blob Data Contributor

Design access to  User, group, or service principal  Managed identity

Members + Select members

Name	Object ID	Type
No members selected		

Description Optional

view + assign Previous Next

## Select members

aw-app

aw-app Application

Selected members:

aw-app Application 

Select Close

Microsoft Azure

databricks

Search data, notebooks, recents, and more...

CTRL + P

adb-aw-p

Share

Create

new  
Workspace  
recent  
catalog  
Jobs & Pipelines  
compute  
Marketplace  
  
SQL Editor  
queries  
dashboards  
enie  
Alerts  
Query History  
SQL Warehouses  
  
Engineering  
Job Runs  
Data Ingestion  
  
Playground  
Experiments

Workspace  
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Shared with me  
Workspace  
Favorites  
Trash

Workspace &gt; Users &gt;

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Send feedback

⋮

Share

Create

Search Type Owner Last modified

Name

Type

Owner

Created at

## New folder

aw-project

Cancel

Create



adb-aw-p - Microsoft Azure    x    aw-project - Databricks    x    +

adb-4003125300893577.17.azuredatabricks.net/browse/folders/4264103740509794?o=4003125300893577

Microsoft Azure    databricks    Search data, notebooks, recents, and more...    CTRL + P

Workspace    Share    Create

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layground  
experiments

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## aw-project

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Name	Type	Owner

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Notebook  
  
File  
Query  
Dashboard  
Genie space  
  
ETL Pipeline  
Alert  
MLflow experiment

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Microsoft Azure databricks

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Run all Connect Schedule Share

Active resources

Aw-Cluster 16.4 LTS

More... Create new resource...

[Shift+Enter] to run and move to next cell  
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[Esc H] to see all keyboard shortcuts

Start typing or generate with AI (Ctrl + I)...

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Aw-Cluster 16.4 Run all Aw-Cluster Schedule Share

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Filter by title

Overview

## Connect to Azure Data Lake Storage and Blob Storage

Access storage with Azure Active Directory

Connect to Google Cloud Storage

Connect to Amazon S3

Discover data

Query data

Explore data

Work with files

Access data using external systems

Monitor data and AI assets

Share data securely

Data engineering

and machine learning

TP databases (Lakebase)

Data warehousing

Business intelligence

Compute

Notebooks

Samples

Download PDF

# Azure service principal

Use the following format to set the cluster Spark configuration:

ini

Copy

```
spark.hadoop.fs.azure.account.auth.type.<storage-account>.dfs.core.windows.net OAuth
spark.hadoop.fs.azure.account.oauth.provider.type.<storage-account>.dfs.core.windows.net o
spark.hadoop.fs.azure.account.oauth2.client.id.<storage-account>.dfs.core.windows.net <app
spark.hadoop.fs.azure.account.oauth2.client.secret.<storage-account>.dfs.core.windows.net
spark.hadoop.fs.azure.account.oauth2.client.endpoint.<storage-account>.dfs.core.windows.ne
```

You can use `spark.conf.set` in notebooks, as shown in the following example:

Python

Copy

```
service_credential = dbutils.secrets.get(scope="<secret-scope>",key="<service-credential-k
spark.conf.set("fs.azure.account.auth.type.<storage-account>.dfs.core.windows.net", "OAuth
spark.conf.set("fs.azure.account.oauth.provider.type.<storage-account>.dfs.core.windows.ne
spark.conf.set("fs.azure.account.oauth2.client.id.<storage-account>.dfs.core.windows.net",
spark.conf.set("fs.azure.account.oauth2.client.secret.<storage-account>.dfs.core.windows.n
spark.conf.set("fs.azure.account.oauth2.client.endpoint.<storage-account>.dfs.core.windows
```

## Replace

- `<secret-scope>` with the Databricks secret scope name.
- `<service-credential-key>` with the name of the key containing the client secret.
- `<storage-account>` with the name of the Azure storage account.
- `<application-id>` with the **Application (client) ID** for the Microsoft Entra ID application.
- `<directory-id>` with the **Directory (tenant) ID** for the Microsoft Entra ID application.

## In this article

### Connect to Azure Data Lake Storage or Blob Storage using Azure credentials

Azure Data Lake Storage known issues

Deprecated patterns for storing and accessing data from Azure Databricks

## Was this page helpful?

Yes

No



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# SILVER LAYER SCRIPT

## DATA ACCESS USING APP

```
Just now (7s) 4 Python
spark.conf.set("fs.azure.account.auth.type.awdatalakestoragep.dfs.core.windows.net", "OAuth")
spark.conf.set("fs.azure.account.oauth.provider.type.awdatalakestoragep.dfs.core.windows.net", "org.apache.hadoop.fs.azurebfs.oauth2.ClientCredsTokenProvider")
spark.conf.set("fs.azure.account.oauth2.client.id.awdatalakestoragep.dfs.core.windows.net", "a8d1feff-3724-4df4-8d11-95a055be1413")
spark.conf.set("fs.azure.account.oauth2.client.secret.awdatalakestoragep.dfs.core.windows.net", "eFH8Q~NpXRBaRnTzBvMrpL71Ak5ohLLYVKH58ced")
spark.conf.set("fs.azure.account.oauth2.client.endpoint.awdatalakestoragep.dfs.core.windows.net", "https://login.microsoftonline.com/7b099a53-e263-4dc9-b493-06a0633226fc/oauth2/token")
```

## DATA LOADING

## Reading Data

Type here to search

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# TRANSFORMATIONS

## Calendar

Just now (1s)

```
df_cal.display()
```

(1) Spark Jobs

Table Date

	Date
1	2015-01-01
2	2015-01-02
3	2015-01-03
4	2015-01-04
5	2015-01-05
6	2015-01-06
7	2015-01-07
8	2015-01-08
9	2015-01-09
10	2015-01-10

Type here to search

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## Customers

Just now (1s) 21 Python

```
df_cus.display()
```

(1) Spark Jobs

Table +

	CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress
1	11000	MR.	JON	YANG	1966-04-08	M	M	jon24@adventure-work:
2	11001	MR.	EUGENE	HUANG	1965-05-14	S	M	eugene10@adventure-v
3	11002	MR.	RUBEN	TORRES	1965-08-12	M	M	ruben35@adventure-wc
4	11003	MS.	CHRISTY	ZHU	1968-02-15	S	F	christy12@adventure-w
5	11004	MRS.	ELIZABETH	JOHNSON	1968-08-08	S	F	elizabeth5@adventure-v
6	11005	MR.	JULIO	RUIZ	1965-08-05	S	M	julio1@adventure-work:
7	11007	MR.	MARCO	MEHTA	1964-05-09	M	M	marco14@adventure-w
8	11008	MRS.	ROBIN	VERHOFF	1964-07-07	S	F	rob4@adventure-works.
9	11009	MR.	SHANNON	CARLSON	1964-04-01	S	M	shannon38@adventure-
10	11010	MS.	JACQUELYN	SUAREZ	1964-02-06	S	F	jacquelyn20@adventure
11	11011	MR.	CURTIS	LU	1963-11-04	M	M	curtis9@adventure-worl
12	11012	MRS.	LAUREN	WALKER	1968-01-18	M	F	lauren41@adventure-w
13	11013	MR.	IAN	JENKINS	1968-08-06	M	M	ian47@adventure-work:

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10,000+ rows | Truncated data | 0.87s runtime Refreshed now

Just now (1s) 22 Python

```
df_cus.withColumn("fullName",concat(col('Prefix'),lit(' '),col('FirstName'),lit(' '),col('LastName'))).display()
```

(1) Spark Jobs

Table +

	Address	AnnualIncome	TotalChildren	EducationLevel	Occupation	HomeOwner	fullName
1	ture-works.com	\$90,000	2	Bachelors	Professional	Y	MR. JON YANG
2	venture-works.com	\$60,000	3	Bachelors	Professional	N	MR. EUGENE HUANG
3	nture-works.com	\$60,000	3	Bachelors	Professional	Y	MR. RUBEN TORRES
4	nture-works.com	\$70,000	0	Bachelors	Professional	N	MS. CHRISTY ZHU
5	nture-works.com	\$80,000	5	Bachelors	Professional	Y	MRS. ELIZABETH JOHNS...
6	ure-works.com	\$70,000	0	Bachelors	Professional	Y	MR. JULIO RUIZ
7	nture-works.com	\$60,000	3	Bachelors	Professional	Y	MR. MARCO MEHTA
8	ure-works.com	\$60,000	4	Bachelors	Professional	Y	MRS. ROBIN VERHOFF
9	dventure-works.com	\$70,000	0	Bachelors	Professional	N	MR. SHANNON CARLSON
10	adventure-works.com	\$70,000	0	Bachelors	Professional	N	MS. JACQUELYN SUAREZ
11	nture-works.com	\$60,000	4	Bachelors	Professional	Y	MR. CURTIS LU
12	nture-works.com	\$100,000	2	Bachelors	Management	Y	MRS. LAUREN WALKER
13	ure-works.com	\$100,000	2	Bachelors	Management	Y	MR. IAN JENKINS
14	nture-works.com	\$100,000	3	Bachelors	Management	N	MRS. SYDNEY BENNETT
15							

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Create Synapse workspace - Mi x +

portal.azure.com/?Microsoft\_Azure\_Education\_correlationId=11ae250f-b4df-41dc-a419-4c84f09de91c&Microsoft\_Azure\_Education\_newA4E=true&Microsoft\_Azure\_Education\_asoSubGuid=8106a... Print Star

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> Create a resource > Marketplace > Azure Synapse Analytics >

# Create Synapse workspace

Basics \*Security Networking Tags Review + create

Configure security options for your workspace.

## Authentication

Choose the authentication method for access to workspace resources such as SQL pools. The authentication method can be changed later on. [Learn more](#)

Authentication method i

- Use both local and Microsoft Entra ID authentication
- Use only Microsoft Entra ID authentication

Server admin login \* i

adminahmed ✓

Password i

..... ✓

Confirm password

..... ✓ P

## Item assigned managed identity permission

Grant to grant the workspace network access to the Data Lake Storage Gen2 account using the workspace system identity. [Learn more](#)

### Allow network access to Data Lake Storage Gen2 account. i

The selected Data Lake Storage Gen2 account does not restrict network access using any network access rules, or you selected a storage account manually via URL under Basics tab. [Learn more](#)

\*Untitled - Notepad

File Edit Format View Help

123456789qwe@

Ln 1, Col 14 100% Windows (CRLF) UTF-8

View + create < Previous Next: Networking >

Type here to search Search icon File icon Power icon Cloud icon Folder icon Windows icon Chrome icon WhatsApp icon OneDrive icon Android icon Google Sheets icon File icon Cloud icon Document icon

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Create Synapse workspace - Mi x +

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> Create a resource > Marketplace > Azure Synapse Analytics >

## Create Synapse workspace

Validation succeeded

**Product Details**

Azure Synapse Analytics workspace	Serverless SQL est. cost/TB <span>ⓘ</span>
Microsoft	<b>5.00 USD</b>
<a href="#">Terms of use</a>   <a href="#">Privacy policy</a>	

**Agreements**

By clicking Create, I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not reserve rights for third-party offerings. For additional details see [Azure Marketplace Terms](#).

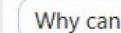
**Properties**

Description	Azure for Students
Source group	Awproject
Location	UAE North
Workspace name	(new) aw-synapse-p
Lake Storage Gen2 account	(new) <a href="https://defaultsynapses.dfs.core.windows.net">https://defaultsynapses.dfs.core.windows.net</a>
Lake Storage Gen2 file system	(new) defaultfilesystem

Create < Previous Next > [Download a template for automation](#)

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# awdatalakestoragep



Why can't this storage account be accessed

Create an LCM rule for my storage account

Help me save costs by tiering unused blobs

Storage account

Search



Upload

Open in Explorer



Delete



Move



Refresh



Open in mobile



CLI / PS



Feedback

Overview

Activity log

Logs

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Partner solutions

Resource visualizer

Data storage

Containers

File shares

Queues

Tables

Security + networking

Data management

## Essentials

Resource group <a href="#">(move)</a>	: Awproject	Performance	: Standard
Location	: uaenorth	Replication	: Locally-redundant storage (LRS)
Subscription <a href="#">(move)</a>	: Azure for Students	Account kind	: StorageV2 (general purpose v2)
Subscription ID	: 8106a7db-1ce1-407d-a8f3-e941e39599e3	Provisioning state	: Succeeded
Disk state	: Available	Created	: 10/16/2025, 1:24:29 PM
Tags <a href="#">(edit)</a>	: Add tags		

## Properties

### Monitoring

### Capabilities (5)

### Recommendations (0)

### Tutorials

### Tools + SDKs

## 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

## Security

Require secure transfer for REST API operations	Enabled
Storage account key access	Enabled
Minimum TLS version	Version 1.2
Infrastructure encryption	Disabled
Public network access	Enabled
Public network access scope	Enable from all networks

## Networking

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awdatalakestoragep

## awdatalakestoragep | Access Control (IAM)

Storage account

Add  Download role assignments  Refresh  Feedback

Add role assignment  Role assignments Roles Deny assignments Classic administrators

**My access**  
View my level of access to this resource.  
[View my access](#)

**Check access**  
Review the level of access a user, group, service principal, or managed identity has to this resource. [Learn more](#)

[Check access](#)

**Grant access to this resource**  
Grant access to resources by assigning a role.  
[Learn more](#)

[Add role assignment](#)

**View access to this resource**  
View the role assignments that grant access to this and other resources.  
[Learn more](#)

[View](#)

**View deny assignments**  
View the role assignments that have been denied access to specific actions at this scope.  
[Learn more](#)

[View](#)

Type here to search       40    

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Add role assignment - Microsoft < aw-synapse-p - Azure Synapse < portal.azure.com/?Microsoft\_Azure\_Education\_correlationId=11ae250f-b4df-41dc-a419-4c84f09de91c&Microsoft\_Azure\_Education\_newA4E=true&Microsoft\_Azure\_Education\_asoSubGuid=8106a... < Ahmed.Hedr@sh-eng.r

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awdatalakestoragep | Access Control (IAM) >

### Role assignment

Members Conditions Review + assign

The definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. [Learn more](#)

Copilot can help pick a role

function roles Privileged administrator roles

nt access to Azure resources based on job function, such as the ability to create virtual machines.

Name	Description	Type	Category	Details
Defender CSPM Storage Data Scanner	Grants access to read blobs and files. This role is used by the data scanner of Defender CSPM.	BuiltInRole	None	<a href="#">View</a>
Defender for Storage Data Scanner	Grants access to read blobs and update index tags. This role is used by the data scanner of Defender for Storage.	BuiltInRole	None	<a href="#">View</a>
Storage Actions Blob Data Operator	Used by the Storage Actions - Storage Task to list & perform operations on the Storage Account blobs	BuiltInRole	None	<a href="#">View</a>
Storage Blob Data Contributor	Allows for read, write and delete access to Azure Storage blob containers and data	BuiltInRole	Storage	<a href="#">View</a>
Storage Blob Data Owner	Allows for full access to Azure Storage blob containers and data, including assigning POSIX access control.	BuiltInRole	Storage	<a href="#">View</a>
Storage Blob Data Reader	Allows for read access to Azure Storage blob containers and data	BuiltInRole	Storage	<a href="#">View</a>
Storage Blob Delegator	Allows for generation of a user delegation key which can be used to sign SAS tokens	BuiltInRole	Storage	<a href="#">View</a>

Showing 1 - 7 of 7 results.

view + assign Previous Next

Type here to search

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Select managed identities - Mic x aw-synapse-p - Azure Synapse x +

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awdatalakestoragep | Access Control (IAM) >

## Role assignment

**Members** \* Conditions Review + assign

**Selected role** Storage Blob Data Contributor

**Assign access to**  User, group, or service principal  Managed identity

**Members** \* [+ Select members](#)

Name	Object ID	Type
No members selected		

**Description** Optional

**Select managed identities**

⚠ Some results might be hidden due to your ABAC condition.

**Subscription** \* Azure for Students

Managed identity  
Synapse workspace (1)

[Search by name](#)

**Selected members:** aw-synapse-p /subscriptions/8106a7db-1ce1-407d-a8f3-e941e39599e3/resourceGroups... [Re](#)

[view + assign](#) [Previous](#) [Next](#) [Select](#) [Close](#)

awdatalakestoragep - Microsoft  aw-synapse-p - Azure Synapse  +

web.azure-synapse.net/en/authoring/explore/workspace/sqlscripts/SQL%20script%201?workspace=%2Fsubscriptions%2F8106a7db-1ce1-407d-a8f3-e941e39599e3%2FresourceGroups%2FAwproject%2... ☆

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Synapse live  Validate all  Publish all 

Data    SQL script 1  Other users in your workspace may have access to modify this item. Do not use this item unless you trust all users in your workspace.

Run Undo  Publish  Connect to  Built-in  master

Workspace  Filter resources by name

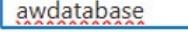
1

Create SQL database

Create database to organize your workload into databases and database objects.

Select SQL pool type \*

Serverless   
 Dedicated 

Database \* 

Create Cancel

Select members - Microsoft Azl x aw-synapse-p - Azure Synapse x +

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## Role assignment

Members Conditions Review + assign

On access to User, group, or service principal Managed identity

+ Select members

Name	Object ID	Type
No members selected		

Description Optional

view + assign Previous Next

Select Close

## Select members

ahmed.hedr

AH Ahmed Hedr Ahmed.Hedr@sh-eng.menofia.edu.eg

Selected members:

AH Ahmed Hedr Ahmed.Hedr@sh-eng.menofia.edu.eg

7:53 PM 10/18/2025

> awdatalakestoragep | Containers >

**silver** ...

Container

Search

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Add Directory

silver > Adve...

Authentication methods

Search blobs by

Showing all 4 items

Name

[..]

\_SUCCE...

\_commi...

\_started...

part-00...

Blob

## AdventureWorks\_Calendar/part-00000-tid-4204134690189856120-7c26da74-7100-4537-ae52...

Save Discard Download Refresh Delete Change tier Acquire lease Break lease Give feedback

Overview Versions Edit Generate SAS

Properties

Copy to clipboard

URL https://awdatalakestoragep... 

LAST MODIFIED 10/18/2025, 12:52:03 PM

CREATION TIME 10/18/2025, 12:52:01 PM

VERSION ID -

TYPE Block blob

SIZE 4.84 KiB

ACCESS TIER Hot (Inferred)

ACCESS TIER LAST MODIFIED N/A

ARCHIVE STATUS -

REHYDRATE PRIORITY -

SERVER ENCRYPTED true

ETAG 0x8DE0E2BFDBA9881

VERSION-LEVEL IMMUTABILITY POLICY Disabled

CACHE-CONTROL

CONTENT-TYPE application/octet-stream

CONTENT-MD5

CONTENT-ENCODING

CONTENT-LANGUAGE

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web.azure-synapse.net/en/authoring/analyze/sqlscripts/silver?workspace=%2Fsubscriptions%2F8106a7db-1ce1-407d-a8f3-e941e39599e3%2FresourceGroups%2FAwproject%2Fproviders%2FMicrosoft.S... ☆

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Develop + <>

Filter resources by name

SQL scripts 3

gold

setup

silver

silver x gold setup

Run Undo Publish Query plan Connect to Built-in Use database awdatabase

```
86  SELECT
87  *
88  FROM OPENROWSET(
89  |      BULK 'https://awdatalakestoragep.dfs.core.windows.net/silver/AdventureWorks\_Territories/',
90  |      FORMAT = 'PARQUET'
91  ) AS territories;
92 GO
93
94 -----
95 -- VIEW: CALENDAR
96 -----
97
98 CREATE OR ALTER VIEW silver.calendar
99 AS
100 SELECT
101 *
102 FROM OPENROWSET(
103 |      BULK 'https://awdatalakestoragep.dfs.core.windows.net/silver/AdventureWorks\_Calendar/',
104 |      FORMAT = 'PARQUET'
105 ) AS calendar;
106 GO
```

Results Messages

00:00:01 Query executed successfully.

Type here to search

24°C 8:49 PM 10/27/2025

## Develop

+ ⌂ <<

 Filter resources by name

## ► SQL scripts

gold

 setup

 silver

```
1 CREATE MASTER KEY ENCRYPTION BY password = '123456789qwe@' ;
2
3 CREATE DATABASE SCOPED CREDENTIAL credential_ahmed
4 WITH IDENTITY = 'managed identity' ;
5
6 CREATE EXTERNAL DATA SOURCE source_silver
7 with
8 (
9     LOCATION ='https://awdatalakestoragep.blob.core.windows.net/silver',
10    CREDENTIAL= credential_ahmed
11 );
12
13 CREATE EXTERNAL DATA SOURCE source_gold
14 with
15 (
16     LOCATION ='https://awdatalakestoragep.blob.core.windows.net/gold',
17    CREDENTIAL= credential_ahmed
18 );
19
20
21 CREATE EXTERNAL FILE FORMAT format_parquet
```

## Results Message

✓ 00:00:01 Query executed successfully

aw-synapse-p - Microsoft Azure x aw-synapse-p - Azure Synapse x +

web.azure-synapse.net/en/authoring/analyze/sqlscripts/gold?workspace=%2Fsubscriptions%2F8106a7db-1ce1-407d-a8f3-e941e39599e3%2FresourceGroups%2Faw-project%2Fproviders%2FMicrosoft.Sy... ☆

soft Azure | Synapse Analytics ▶ aw-synapse-p Search

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Develop + ▾ <>

Filter resources by name

SQL scripts 3

- gold
- setup
- silver

gold

Run Undo Publish Query plan Connect to Built-in Use database awdatabase

```
147    r.ReturnQuantity,
148    r.TerritoryKey
149    FROM silver>Returns AS r;
150    GO
151
152
153 -----
154 -- Validation Checks
155 -----
156 SELECT COUNT(*) AS dim_date_count FROM gold.dim_date;
157 SELECT COUNT(*) AS dim_product_count FROM gold.dim_product;
158 SELECT COUNT(*) AS dim_customer_count FROM gold.dim_customer;
159 SELECT COUNT(*) AS dim_territory_count FROM gold.dim_territory;
160 SELECT COUNT(*) AS fact_sales_count FROM gold.fact_sales;
161 SELECT COUNT(*) AS fact_returns_count FROM gold.fact_returns;
162 GO
163
164 -----
```

Results Messages

View Table Chart Export results

Search

fact\_returns\_count

1809

00:00:01 Query executed successfully.

Type here to search

22°C 12:08 AM 10/28/2025

غائم غالباً ENG

gold - Microsoft Azure aw-synapse-p - Azure Synapse portal.azure.com/?Microsoft\_Azure\_Education\_correlationId=11ae250f-b4df-41dc-a419-4c84f09de91c&Microsoft\_Azure\_Education\_newA4E=true&Microsoft\_Azure\_Education\_asoSubGuid=8106a... Copilot Ahmed.Hedr@sh-eng.n FACULTY OF ENGINEERING - M

# Microsoft Azure

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

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gold | Containers > awdatalakestoragep | Containers >

gold Container

Add Directory Upload Refresh Delete Copy Paste Rename Acquire lease Break lease Edit columns

gold

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

Search blobs by prefix (case-sensitive) Only show active objects

Showing all 6 items

<input type="checkbox"/>	Name	Last modified	Access tier	Blob type	Size	Lease state
<input type="checkbox"/>	dim_customer	10/27/2025, 7:53:08 PM				
<input type="checkbox"/>	dim_date	10/27/2025, 8:21:19 PM				
<input type="checkbox"/>	dim_product	10/27/2025, 7:52:42 PM				
<input type="checkbox"/>	dim_territory	10/27/2025, 7:53:53 PM				
<input type="checkbox"/>	fact_returns	10/27/2025, 7:54:32 PM				
<input type="checkbox"/>	fact_sales	10/27/2025, 8:33:32 PM				

remove favorites by pressing Ctrl+Shift+F

Type here to search

22°C 12:10 AM 10/28/2025

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gold | Containers > awdatalakestoragep | Containers >

gold Container

Add Directory Upload Refresh Delete Copy Paste Rename Acquire lease Break lease Edit columns

gold > dim\_customer

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

Search blobs by prefix (case-sensitive) Only show active objects

Showing all 2 items

	Name	Last modified	Access tier	Blob type	Size	Lease state
<input type="checkbox"/>	[..]					
<input type="checkbox"/>	CE68C9F5-6BEA-498B-B28C-42B0D38D5C65_71_0-1.parquet	10/27/2025, 7:53:10 PM	Hot (Inferred)	Block blob	377.31 KiB	Available
<input type="checkbox"/>	-	10/27/2025, 7:53:08 PM	Hot (Inferred)	Block blob	0	Available

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Get data Excel OneLake SQL Server Enter Data

Clipboard

Get data workbook catalog Server Data

Get Data

Search

All File Database Microsoft Fabric Power Platform Azure Online Services Other

Import data from Azure Synapse Analytics SQL.

Azure

- Azure SQL database
- Azure Synapse Analytics SQL
- Azure Analysis Services database
- Azure Blob Storage
- Azure Table Storage
- Azure Cosmos DB v1
- Azure Data Explorer (Kusto)
- Azure Data Lake Storage Gen2
- Azure HDInsight (HDFS)
- Azure HDInsight Spark
- HDInsight Interactive Query
- Azure Cost Management
- Azure Resource Graph
- Azure Cosmos DB v2
- Azure Databricks

Certified Connectors Template Apps Connect Cancel

Visualizations

Build visual

Filters

Values

Add data fields here

Drill through

Cross-report

Keep all filters

Add drill-through fields here

Page 1 +

1

83%

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Get data from workbook catalog SQL Server Enter data Data source Recent sources Transform Refresh data New visual Text box More visuals New visual calculation New measure Quick measure Sensitivity Publish Prep data for Copilot AI

Clipboard

Queries Insert Calculations Sensitivity Share Copilot

Visualizations Build visual

Filters

SQL Server database

Server synapse-p-on-demand.sql.azuresynapse.net

Database (optional)

Data Connectivity mode Import  DirectQuery

Advanced options

OK Cancel

Import data from

Page 1 +

1

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Get data workbook catalog Server Data

Excel OneLake SQL Server Enter data Dataverse Recent sources

Transform Refresh data

New visual Text box More visuals

New visual calculation New measure

Quick measure

Sensitivity Publish

Prep data for Copilot AI

Copilot

Visualizations Build visual

adminahmed-conn - Notepad

File Edit Format View Help

synapse

123456789qwe@  
adminahmed

Windows Database Microsoft account

SQL Server database

aw-synapse-p-on-demand.sql.azure

User name

Password

Import data from

Back

Page 1 +

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1 In 6, Col 1 100% Windows (CRLF) 3:07 PM

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Get data Excel OneLake SQL Server Enter data Dataverse Recent sources Transform Refresh data New visual Text box More visuals New visual calculation New measure Quick measure Sensitivity Publish Prep data for Copilot AI Copilot

Build visuals with your data

Select or drag fields from the Data pane onto the report canvas.

Visualizations

Build visual

Filters

Data

Search

gold dim\_customer

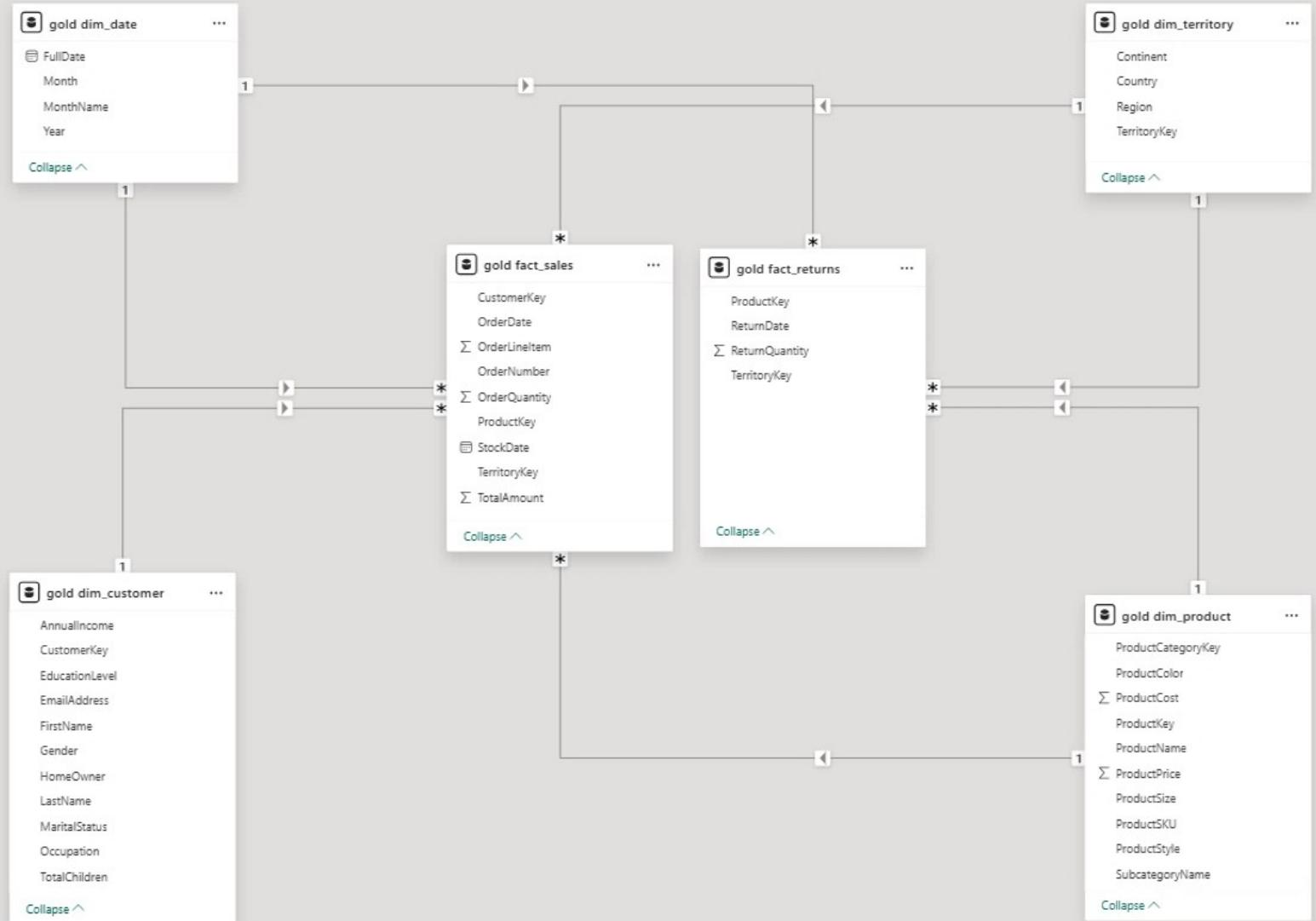
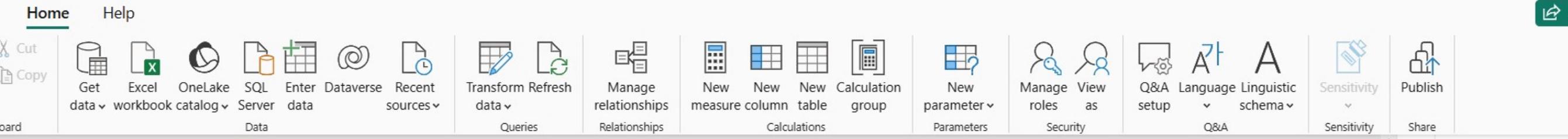
gold dim\_date

gold dim\_product

gold dim\_territory

gold fact\_returns

gold fact\_sales



**Data**

**Tables**

Search: gold dim\_custo

- gold dim\_date
- gold dim\_territory
- gold fact\_returns
- gold fact\_sales
- gold dim\_product
- gold dim\_customer

**Properties**

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Microsoft Azure

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

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Review service health across resources

Generate Bicep code for managing multiple resources

Discover key trends in resource metrics

Manage view Refresh Export to CSV Clear Assign tags Group by none

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

Name	Type	Location	Resource Group	Subscription	Last accessed
aw-synapse-p	Synapse workspace	UAE North	Awproject	Azure for Students	15 minutes ago
awdatalakestoragep	Storage account		Awproject	Azure for Students	57 minutes ago
Awproject	Resource group	East US	Awproject	Azure for Students	19 hours ago
defaultsynapses	Storage account	UAE North	Awproject	Azure for Students	19 hours ago
adb-aw-p	Azure Databricks Service	UAE North	Awproject	Azure for Students	1 day ago
aw-adf-p	Data factory (V2)	UAE North	Awproject	Azure for Students	2 days ago

Showing 1 - 6 of 6. Display count: auto

Give feedback

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# Awproject

Resource group

How to manage these changes more efficiently with deployment tools? Generate Bicep code to duplicate this resource group. Help me generate Terraform for this resource group configuration.

Create Manage view Delete resource group Refresh Export to CSV Open query Assign tags Move Delete ...

Group by none

Essentials

Resources Recommendations

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

	Name ↑	Type	Location
<input type="checkbox"/>	adb-aw-p	Azure Databricks Service	UAE North
<input type="checkbox"/>	aw-adf-p	Data factory (V2)	UAE North
<input type="checkbox"/>	aw-synapse-p	Synapse workspace	UAE North
<input type="checkbox"/>	awdatalakestoragep	Storage account	UAE North
<input type="checkbox"/>	defaultsynapses	Storage account	UAE North

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