

Home - Microsoft Azure

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Microsoft Azure

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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

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Name	Type	Last Viewed
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awdatalakestoragep	Storage account	17 hours ago
Awproject	Resource group	21 hours ago

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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

remove favorites by pressing Ctrl+Shift+F

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awdatalakestoragep | Containers

Storage account

Container List					
Actions		Name	Last modified	Anonymous access level	Lease state
<input type="checkbox"/>		Search containers by prefix			<input checked="" type="checkbox"/> Only show active containers
Showing all 5 items					
<input type="checkbox"/>		\$logs	10/16/2025, 1:24:55 PM	Private	Available
<input type="checkbox"/>		bronze	10/16/2025, 1:46:09 PM	Private	Available
<input type="checkbox"/>		gold	10/16/2025, 1:47:16 PM	Private	Available
<input type="checkbox"/>		parameters	10/16/2025, 4:53:22 PM	Private	Available
<input type="checkbox"/>		silver	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... ☆

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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
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- > 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	✓	✗
trash	copy	next

General Source Sink Mapping Settings User properties

Name * Learn more

Description

Activity state Activated Deactivated

Timeout

Retry

Type here to search Cloud Copy Share 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	

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

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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
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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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 + Add

Pipelines 1

- DynamicGitToRow
- Change Data Capture (preview) 0
- Datasets 4
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Activities Search activities

- > Move and transform
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- > Iteration & conditionals
- > Machine Learning
- > Power Query

DynamicGitToRow x

✓ Validate ✓ Validate copy runtime Debug Add trigger

DynamicGitToRow > ForEachGIT

Copy data

DynamicCopy	✓
trash	copy
copy	copy
copy	copy

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 | aw-adf-p

Search

Preview experience Off

Factory Resources

Filter resources by name +

Pipelines 1

- DynamicGitToRow

Datasets 3

- ds_git_dynamic
- ds_sink_dynamic
- parameters_json

Data flows 0

Power Query 0

DynamicGitToRow

ds_git_dynamic

DelimitedText

Connection Schema Parameters

Linked service * HttpServer1

Base URL https://raw.githubusercontent.com

Relative URL @dataset().p_rel_url

Compression type No compression

Column delimiter ,

Row delimiter \r\n or \r\n

Encoding Default(UTF-8)

Quote character Double quote ("")

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

Factory Resources

Filter resources by name +

Pipelines

DynamicGitToRow

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ds_git_dynamic

ds_sink_dynamic

✓ Validate

✓ Validate copy runtime

Debug

DynamicGitToRow > ForEachGIT

General

Source

Sink

Mapping

Settings

Source dataset *

ds_git_dynamic

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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Factory Resources Filter resources by name Add

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- > 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 +

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ds_git_dynamic

ds_sink_dynamic

✓ Validate

✓ Validate copy runtime

▷ Debug

DynamicGitToRow > ForEachGIT

General

Source

Sink

Mapping

Settings

Sink dataset *

 ds_sink_dyna

∨ Dataset properties

Name

p_sink_folder

p_file_name

Select...

Copy behavior ⓘ

Max concurrent connections ⓘ

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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Filter resources by name +

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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

...

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ForEachGIT

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Factory Resources ▾ << DynamicGitToRow ▾ Activities ▾ <<

Filter resources by name +

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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

Type here to search

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Data Factory Validate all ↑ Publish all 1 Preview experience Off

Factory Resources Filter resources by name {} [+]

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DynamicGitToRow

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ds_git_dynamic
ds_sink_dynamic
parameters_json ...

Data flows 0

Power Query 0

DynamicGitToRow ds_git_dynamic ds_sink_dynamic parameters_json

parameters_json JSON

Connection Schema Parameters

Linked service * AzureDataLakeStorage1 Test connection Edit New Learn more

File path parameters / Directory / git.json Browse Preview data

Compression type No compression

Encoding Default(UTF-8)

Type here to search 40 1 25°C مشمس ENG 11:23 AM 10/17/2025

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LookupGit

ForEach

ForEachGIT

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General Settings Activities (1) User properties

Case Activity

ForEach DynamicCopy 1 Activity

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Factory Resources

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- ▶ Pipelines 1
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- ▶ Power Query 0

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- > 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 },
```



awdatalakestoragep - Microsoft x | aw-adf-p - Azure Data Factory x | Azure-Data-Engineering-Proje... x +

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

Type here to search

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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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1 25°C مشرقي ENG 11:15 AM 10/17/2025

Home - Microsoft Azure aw-adf-p - Azure Data Factory Azure-Data-Engineering-Proje... +

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

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Would you like to see Data Factory inside of Microsoft Fabric, Microsoft's newest cloud-first data analytics SaaS platform? Click [here](#) to get started with Fabric Data Factory!

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)

Activities

Search activities

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

DynamicGitToRow

Validate Debug Add trigger

```
graph LR; Lookup[Lookup Git] --> Activities[Activities]; subgraph Activities [Activities]; direction TB; DC1[DynamicCopy] --> DC2[DynamicCopy] --> DC3[DynamicCopy]; end;
```

ForEach

ForEachGIT

Activities

DynamicCopy

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)

Type here to search 🌐 📈 📁 🔍 🌐 1 25°C ENG 12:07 PM 10/17/2025

awdatalakestoragep | Containers >

bronze

Container

Search



Add Directory



Upload



Refresh



Delete



Copy



Paste



Rename



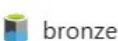
Acquire lease



Break lease



...



bronze

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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12:08 PM
10/17/2025

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](#)
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Compute > 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

adb-aw-p

General

Compute name

Aw-project-Cluster



Summary

16 GB Memory, 4 Cores

Policy

Unrestricted



Data access

Unity Catalog

Performance

 Machine learning

Databricks runtime

14.3 LTS (includes Apache Spark 3.5.0, Scala 2.12)

 Photon acceleration

Price

1 DBU/h

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



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10/18/2025

Compute > 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

Aw-Cluster

Policy

Unrestricted

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**

No custom tags

> Automatically added tags

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Compute > 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

portal.azure.com/?Microsoft_Azure_Education_correlationId=11ae250f-b4df-41dc-a419-4c84f09de91c&Microsoft_Azure_Education_newA4E=true&Microsoft_Azure_Education_asoSubGuid=8106a...

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

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 / +

portal.azure.com/?Microsoft_Azure_Education_correlationId=11ae250f-b4df-41dc-a419-4c84f09de91c&Microsoft_Azure_Education_newA4E=true&Microsoft_Azure_Education_asoSubGuid=8106a...    

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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 a certificate or a client secret). 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 an 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 - Microsoft

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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

portal.azure.com/?Microsoft_Azure_Education_correlationId=11ae250f-b4df-41dc-a419-4c84f09de91c&Microsoft_Azure_Education_newA4E=true&Microsoft_Azure_Education_asoSubGuid=8106a...

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	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	View
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	View
Storage Actions Blob Data Operator	Used by the Storage Actions - Storage Task to list & perform operations on the Storage Account blobs	BuiltInRole	None	View
Storage Blob Data Contributor	Allows for read, write and delete access to Azure Storage blob containers and data	BuiltInRole	Storage	View
Storage Blob Data Owner	Allows for full access to Azure Storage blob containers and data, including assigning POSIX access control.	BuiltInRole	Storage	View
Storage Blob Data Reader	Allows for read access to Azure Storage blob containers and data	BuiltInRole	Storage	View
Storage Blob Delegator	Allows for generation of a user delegation key which can be used to sign SAS tokens	BuiltInRole	Storage	View

Showing 1 - 7 of 7 results.

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

Select members - Microsoft Azl x +

portal.azure.com/?Microsoft_Azure_Education_correlationId=11ae250f-b4df-41dc-a419-4c84f09de91c&Microsoft_Azure_Education_newA4E=true&Microsoft_Azure_Education_asoSubGuid=8106a...     

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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

a

new
Workspace
recent
catalog
Jobs & Pipelines
compute
Marketplace

SQL Editor
queries
dashboards
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Alerts
Query History
SQL Warehouses

engineering
Job Runs
Data Ingestion

playground
experiments

Workspace
Home
Shared with me
Workspace
Favorites
Trash

Workspace > Users >

ahmed.hedr@sh-eng.menofia.edu.eg ☆

Send feedback

Share

Create

Search Type Owner Last modified

Name



x

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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Workspace Home Shared with me Workspace Favorites Trash

Workspace > Users > ahmed.hedr@sh-eng.menofia.edu.eg >

aw-project

Send feedback :

Search Type Owner Last modified

Name	Type	Owner

This folder is empty

Folder
Git folder

Notebook

File
Query
Dashboard
Genie space

ETL Pipeline
Alert
MLflow experiment

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

adb-4003125300893577.17.azuredatabricks.net/editor/notebooks/4264103740509795?o=4003125300893577#command/5270371404732742

Microsoft Azure databricks

Search data, notebooks, recents, and more... CTRL + P

File Edit View Run Help Python Tabs: ON Last edit was 2 minutes ago

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
[Ctrl+Shift+P] to open the command palette
[Esc H] to see all keyboard shortcuts

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

ew
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recent
atalog
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ompute
arketplace
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queries
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lerts
Query History
QL Warehouses
engineering
Job Runs
ata Ingestion
playground
experiments

Type here to search

26°C مشمس ENG 11:45 AM 10/18/2025

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

adb-4003125300893577.17.azuredatabricks.net/editor/notebooks/4264103740509795?o=4003125300893577#command/5270371404732742

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

File Edit View Run Help Python Tabs: ON Last edit was 2 minutes ago

Aw-Cluster 16.4 Run all Aw-Cluster Schedule Share

ew workspace recent catalog jobs & Pipelines compute marketplace QL Editor queries dashboards engine alerts query History QL Warehouses engineering Job Runs Data Ingestion playground experiments

silver_layer +

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

[Shift+Enter] to run and move to next cell
[Ctrl+Shift+P] to open the command palette
[Esc H] to see all keyboard shortcuts

Type here to search

11:46 AM 10/18/2025



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



```
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



```
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?



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File Edit View Run Help Python Tabs: ON Last edit was 4 minutes ago Run all Aw-Cluster Schedule Share

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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Microsoft Azure databricks

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File Edit View Run Help Python Tabs: ON Last edit was 6 minutes ago Run all Aw-Cluster Schedule Share

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

12:50 PM 10/18/2025

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adb-4003125300893577.17.azuredatabricks.net/editor/notebooks/4264103740509795?o=4003125300893577#command/5270371404732762

Microsoft Azure databricks

Search data, notebooks, recents, and more... CTRL + P

File Edit View Run Help Python Tabs: ON Last edit was 1 minute ago Run all Aw-Cluster Schedule Share

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:

Type here to search

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adb-4003125300893577.17.azuredatabricks.net/editor/notebooks/4264103740509795?o=4003125300893577#command/5270371404732763

Microsoft Azure databricks

Search data, notebooks, recents, and more... CTRL + P

File Edit View Run Help Python Tabs: ON Last edit was 1 minute ago

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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FACULTY OF ENGINEERING - M...

> 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

غائب غالباً 26°C 7:19 PM 10/18/2025 ENG

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

Validation succeeded

Product Details

Azure Synapse Analytics workspace	Serverless SQL est. cost/TB ⓘ
Microsoft	5.00 USD
Terms of use Privacy policy	

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) https://defaultsynapses.dfs.core.windows.net
Lake Storage Gen2 file system	(new) defaultfilesystem

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

Type here to search   26°C غائم غالباً 7:19 PM 10/18/2025 ENG

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 (move)	: Awproject	Performance	: Standard
Location	: uaenorth	Replication	: Locally-redundant storage (LRS)
Subscription (move)	: 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 (edit)	: 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

Networking

Public network access	Enabled
Public network access scope	Enable from all networks

awdatalakestoragep - 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...  

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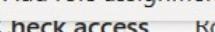
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awdatalakestoragep

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    

غائب غالباً 25°C ENG 10/18/2025 7:35 PM

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	View
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	View
Storage Actions Blob Data Operator	Used by the Storage Actions - Storage Task to list & perform operations on the Storage Account blobs	BuiltInRole	None	View
Storage Blob Data Contributor	Allows for read, write and delete access to Azure Storage blob containers and data	BuiltInRole	Storage	View
Storage Blob Data Owner	Allows for full access to Azure Storage blob containers and data, including assigning POSIX access control.	BuiltInRole	Storage	View
Storage Blob Data Reader	Allows for read access to Azure Storage blob containers and data	BuiltInRole	Storage	View
Storage Blob Delegator	Allows for generation of a user delegation key which can be used to sign SAS tokens	BuiltInRole	Storage	View

Showing 1 - 7 of 7 results.

view + assign Previous Next

Type here to search

25°C 7:36 PM 10/18/2025

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 x aw-synapse-p - Azure Synapse x +

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

soft Azure | Synapse Analytics ▶ aw-synapse-p

Search

1 🔍 🌐 📡 🚧 ?

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Synapse live ▾ Validate all Publish all 1

Data

Workspace + Linked

Filter resources by name

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 Query plan Connect to Built-in Use database master

1

Select SQL pool type *

Serverless i

Dedicated i

Create SQL database

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

Select SQL pool type *

Serverless i

Dedicated i

Database *

awdatabase

Create Cancel

Type here to search

25°C 7:46 PM 10/18/2025

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

portal.azure.com/?Microsoft_Azure_Education_correlationId=11ae250f-b4df-41dc-a419-4c84f09de91c&Microsoft_Azure_Education_newA4E=true&Microsoft_Azure_Education_asoSubGuid=8106a... ↴ ⚡

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awdatalakestoragep | Access Control (IAM) >

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

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 1

Data Workspace Linked Filter resources by name SQL database 1

create schema

Other users in your workspace may have access to modify this item. Do not use this item unless you trust all users who may have access to the workspace.

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

1 CREATE SCHEMA gold ;| 2

Properties General Related (0)

Name * create schema

Description

Type .sql script

Size 0 bytes

Results settings per query ⓘ

First 5000 rows (default)

All rows

Results Messages

No results to show

Your query yielded no displayable results

✓ 00:00:01 Query executed successfully.

Type here to search

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soft Azure | Synapse Analytics > aw-synapse-p

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Synapse live ▾ Validate all Publishing 2

Develop

Filter resources by name

SQL scripts 2

- create schema
- create-views-gold

create schema

create-views-gold

Run Undo Publish... Query plan Connect to Built-in

```
1 -- CREATE VIEW CALENDAR
2
3
4 CREATE VIEW gold.calendar
5 AS
6 SELECT *
7 FROM
8 OPENROWSET(
9   (
10    BULK 'https://awdatalakestoragep.dfs.core.windows.net'
11    FORMAT = 'PARQUET'
12  ) as QUER1
13
14
15
16 -- CREATE VIEW CUSTOMERS
17
18
19 CREATE VIEW [dbo].[customers]
```

Results Messages

00:00:01 Query executed successfully.

No results to show

Publish all

You are about to publish all pending changes to the live environment. [Learn more](#)

Pending changes (2)

NAME	CHANGE	EXISTING
✓ SQL script		
 create schema	(New)	-
 create-views-gold	(New)	-

silver - Microsoft Azure

aw-synapse-p - Azure Synapse

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

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Search

1 1 1 ?

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Synapse live Validate all Publish all 1

Develop + <<

Filter resources by name

SQL scripts 3

- create-views-gold
- create schema
- SQL script 1

create schema create-views-gold SQL script 1

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

1 SELECT * from gold.calendar ;

Results Messages

View Table Chart Export results

Search

Date	Month	Year
2015-01-01	1	2015
2015-01-02	1	2015
2015-01-03	1	2015
2015-01-04	1	2015
2015-01-05	1	2015
2015-01-06	1	2015
2015-01-07	1	2015

00:00:08 Query executed successfully.

Properties

General Related (0)

Name * SQL script 1

Description

Type .sql script

Size 0 bytes

Results settings per query ⓘ

First 5000 rows (default)

All rows

Type here to search

8:36 PM 10/18/2025

غائب غالباً 25°C ENG

Synapse live Validate all Publish all 1

Develop external-table create-views-gold

Filter resources by name

SQL scripts 4

- create-views-gold
- create schema
- SQL script 1
- external-table

1 -- CREATE VIEW CALENDAR
2
3 --
4 CREATE VIEW gold.calendar
5 AS
6 SELECT
7 *
8 FROM
9 OPENROWSET
10 (
11 BULK 'https://awdatalakestoragep.dfs.core.windows.net/silver/AdventureWorks_Calendar/',
12 FORMAT = 'PARQUET'
13) as QUER1
14
15 --
16 -- CREATE VIEW CUSTOMERS
17 --
18 CREATE VIEW gold.customers
19 AS
20 SELECT
21 *
22 FROM
23 OPENROWSET
24 (
25 BULK 'https://awdatalakestoragep.dfs.core.windows.net/silver/AdventureWorks_Customers/',
26 FORMAT = 'PARQUET'
27) as QUER2
28
29

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Container properties - Microsoft ⌘ aw-synapse-p - Azure Synapse ⌘ CREATE EXTERNAL FILE FORMA ⌘ +

web.azure-synapse.net/en/authoring/analyze/sqlscripts/external-table?workspace=%2Fsubscriptions%2F8106a7db-1ce1-407d-a8f3-e941e39599e3%2FresourceGroups%2FAwproject%2Fproviders%2FMi... ⌘

soft Azure | Synapse Analytics ▶ aw-synapse-p Search 1 ⓘ 🔍 🔔 🔒 ? Ahmed.Hedr@sh-eng.menofia.edu.
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Filter resources by name

SQL scripts 4

- create-views-gold
- create schema
- SQL script 1
- external-table

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

```
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
10    LOCATION ='https://awdatalakestoragep.blob.core.windows.net/silver',
11    CREDENTIAL= credential_ahmed
12 );
13
14 CREATE EXTERNAL DATA SOURCE source_gold
15 with
16 (
17
18    LOCATION ='https://awdatalakestoragep.blob.core.windows.net/gold',
19    CREDENTIAL= credential_ahmed
20 );
```

Results Messages

View Table Chart Export results

Search

00:00:03 Query executed successfully.

Type here to search

2:48 PM 10/19/2025

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Develop + <<

external-table create-views-gold

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

```
22 CREATE EXTERNAL FILE FORMAT format_parquet
23 WITH
24 (
25   FORMAT_TYPE= PARQUET,
26   DATA_COMPRESSION = 'org.apache.hadoop.io.compress.SnappyCodec'
27 );
28 -----
29 ---create external table extsales
30 -----
31 create external table gold.extsales
32 WITH
33 (
34   LOCATION = 'extsales',
35   data_source = source_gold,
36   file_format = format_parquet
37 )
38 as
39 select * from gold.sales
```

Results Messages

View Table Chart Export results

Search

00:00:03 Query executed successfully.

Type here to search

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 Validate all

Publish all 1

i Other users in your workspace may have access to modify this item. Do not use this item unless you trust all users who may have access to the workspace. X

```
37     data_source = source_gold,
38     file_format = format_parqu
39 )
40 as
41 select * from gold.sales;
42
43
44
45 SELECT* from gold.extsales
46
```

Results Message

View Table Chart ↗ Export results

OrderDate	StockDate	OrderNumber	ProductKey	CustomerKey	TerritoryKey	OrderLineItem	OrderQuantity	multiply
2016-01-01	2002-10-17T00:00:00	TO48797	385	14335	1	1	1	1
2016-01-01	2002-09-30T00:00:00	TO48802	383	24923	9	1	1	1
2016-01-01	2002-11-29T00:00:00	TO48801	326	15493	1	1	1	1
2016-01-01	2002-11-16T00:00:00	TO48799	352	26708	4	1	1	1
2016-01-01	2002-12-16T00:00:00	TO48798	360	22222	2	1	1	1

✓ 00:00:03 Query executed successfully



gold - Microsoft Azure aw-synapse-p - Azure Synapse CREATE EXTERNAL FILE FORMA portal.azure.com/?Microsoft_Azure_Education_correlationId=11ae250f-b4df-41dc-a419-4c84f09de91c&Microsoft_Azure_Education_newA4E=true&Microsoft_Azure_Education_asoSubGuid=8106a... Microsoft Azure Search resources, services, and docs (G+/) Copilot Ahmed.Hedr@sh-eng.n FACULTY OF ENGINEERING - M gold Container

Search ...

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 1 items

<input type="checkbox"/>	Name	Last modified	Access tier	Blob type	Size	Lease state
<input type="checkbox"/>	extsales	10/19/2025, 2:41:07 PM				

remove favorites by pressing Ctrl+Shift+F

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gold Container

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

gold > extsales

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

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

Showing all 2 items

<input type="checkbox"/>	Name	Last modified	Access tier	Blob type	Size	Lease state
<input type="checkbox"/>	[..]					
<input type="checkbox"/>	ACBA5082-4254-4199-8519-D3866A931B84_2_0-1.parquet	10/19/2025, 2:41:10 PM	Hot (Inferred)	Block blob	606.72 KiB	Available
<input type="checkbox"/>	-	10/19/2025, 2:41:07 PM	Hot (Inferred)	Block blob	0	Available

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aw-synapse-p

Suggest a workload for this Synapse workspace

New dedicated SQL pool New Apache Spark pool Refresh Reset SQL admin password Delete

view JSON View

Resource group ([move](#)) : [Awproject](#)

Status : Succeeded

Location : UAE North

Subscription ([move](#)) : [Azure for Students](#)

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

Managed virtual network : No

Managed Identity object ... : 63c5568e-caed-4470-9825-6d4a06a86e38

Workspace web URL : <https://web.azuresynapse.net?workspace=%2bsubscriptions%2f81...>

Tags ([edit](#)) : [Add tags](#)

Networking : [Show firewall settings](#)

Primary ADLS Gen2 acco... : <https://defaultsynapsess.dfs.core.windows.net>

Primary ADLS Gen2 file s... : defaultfilesystem

SQL admin username : adminahmed

SQL Microsoft Entra admin : [Ahmed.Hedr@sh-eng.menofia.edu.eg](#)

Dedicated SQL endpoint : [aw-synapse-p.sql.azuresynapse.net](#)

Serverless SQL endpoint : [aw-synapse-p-on-demand.sql.azuresynapse.net](#) [Copy to clipboard](#)

Development endpoint : <https://aw-synapse-p.dev.azuresynapse.net>

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Analytics pools

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Search to filter items...

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Get data Excel OneLake SQL 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

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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

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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

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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

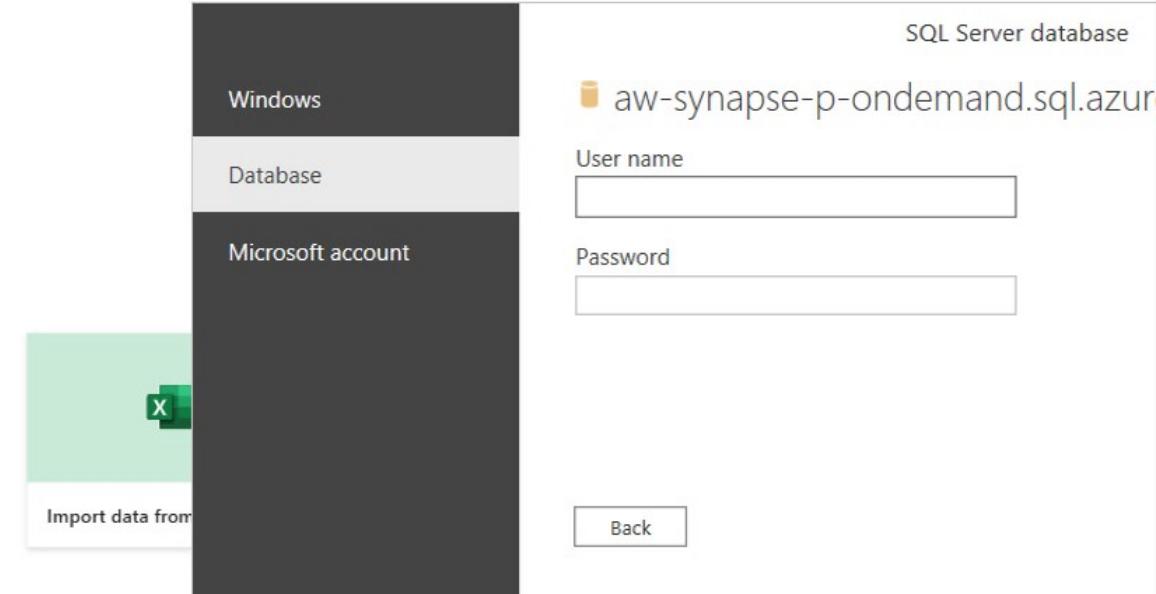
Sensitivity Publish Prep data for Copilot AI

Share Copilot

Visualizations

Build visual

File



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File Edit Format View Help

synapse

123456789qwe@
adminahmed

Navigator

-
-
-
- Display Options
-
-
- aw-synapse-p-on-demand.sql.azure Synapse.net...
-
- awdatabase [8]
-
- gold.calendar
-
- gold.customers
-
- gold.products
-
- gold>Returns
-
- gold.sales
-
- gold.subcat
-
- gold.territories
-
- gold.extsales

No items selected for preview

Load

Transform Data

Cancel

Select Related Tables



gold extsales (2)

Manage relationships
RelationshipsNew visual calculation
New Quick New measure measure column New tableMark as date table
Calendars

Structure

Calculations

Build visuals with your data

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

Visualizations

Build visual

Filters

Values

Add data fields here

Drill through

Cross-report Off

Keep all filters On

Add drill-through fields here

gold extsales (2)

- Σ Custom
- Σ multiply
- > OrderDate
- Σ OrderLine
- OrderNumber
- Σ OrderQuantity
- Σ Product
- > StockDate
- Σ Territory



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Subscriptions



Resource groups



All resources



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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

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