

Create a datalake gen2 storage account

Microsoft Azure

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Create a storage account

Basics

Advanced

Networking

Data protection

Encryption

Tags

Review + create

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

Project details

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

Subscription *

Azure subscription 1

Resource group *

Demo-RG

[Create new](#)

Instance details

Storage account name * ⓘ

datalakestore10010

Region * ⓘ

(Asia Pacific) Central India

[Deploy to an Azure Extended Zone](#)

Primary service ⓘ

Azure Blob Storage or Azure Data Lake Storage Gen 2

Performance * ⓘ

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

☐ Premium: Recommended for scenarios that require low latency.

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Primary service ⓘ

Azure Blob Storage or Azure Data Lake Storage Gen 2

Performance * ⓘ

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

☐ Premium: Recommended for scenarios that require low latency.

Redundancy * ⓘ

Locally-redundant storage (LRS)

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Create a storage account ...

Allow enabling anonymous access on individual containers ⓘ ☐

Enable storage account key access ⓘ ☒

Default to Microsoft Entra authorization in the Azure portal ⓘ ☐

Minimum TLS version ⓘ

Version 1.2

Permitted scope for copy operations (preview) ⓘ

From any storage account

Hierarchical Namespace

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

Enable hierarchical namespace ⓘ ☒

Access protocols

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

Enable SFTP ⓘ ☐

Enable network file system v3 ⓘ ☐

Blob storage

Allow cross-tenant replication ⓘ ☐

i Cross-tenant replication and hierarchical namespace cannot be enabled simultaneously.

Access tier ⓘ

☒ Hot: Optimized for frequently accessed data and everyday usage scenarios

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Recovery

Protect your data from accidental or erroneous deletion or modification.

- ☐ **Enable point-in-time restore for containers**
Use point-in-time restore to restore one or more containers to an earlier state. If point-in-time restore is enabled, then versioning, change feed, and blob soft delete must also be enabled. [Learn more](#)
- ☐ **Enable soft delete for blobs**
Soft delete enables you to recover blobs and directories that were previously marked for deletion. [Learn more](#)
- ☐ **Enable soft delete for containers**
Soft delete enables you to recover containers that were previously marked for deletion. [Learn more](#)
- ☐ **Enable soft delete for file shares**
Soft delete enables you to recover file shares that were previously marked for deletion. [Learn more](#)

Tracking

Manage versions and keep track of changes made to your blob data.

- ☐ **Enable versioning for blobs**
Use versioning to automatically maintain previous versions of your blobs. [Learn more](#)

Consider your workloads, their impact on the number of versions created, and the resulting costs. Optimize costs by automatically managing the data lifecycle. [Learn more](#)
- ☐ **Enable blob change feed**
Keep track of create, modification, and delete changes to blobs in your account. [Learn more](#)

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Create a storage account

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Basics

Subscription	Azure subscription 1
Resource group	Demo-RG
Location	Central India
Storage account name	datalakestore10010
Primary service	Azure Blob Storage or Azure Data Lake Storage Gen 2
Performance	Standard
Replication	Locally-redundant storage (LRS)

Advanced

Enable hierarchical namespace	Enabled
Enable SFTP	Disabled
Enable network file system v3	Disabled
Allow cross-tenant replication	Disabled
Access tier	Hot
Enable large file shares	Enabled

Security

Secure transfer	Enabled
Blob anonymous access	Disabled

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CloudWatch Logs console

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datalakestore10010_1738674608897 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: datalakestore10010_1738674608897

Subscription: Azure subscription 1

Resource group: Demo-RG

Start time: 2/4/2023, 6:40:22 PM

Correlation ID: f31f5a49-4e15-4675-b65c-e445f6a12275

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Deployment succeeded

Deployment 'datalakestore10010_1738674608897' to resource group 'Demo-RG' was successful.

Go to resource

Pin to dashboard

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Create a container

Microsoft Azure

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datalakestore10010 Containers

Storage account

Search

Containers Change access level Restore containers Refresh Delete Give feedback

Search containers by prefix

Name	Last modified	Anonymous access level
You don't have any containers yet. Click "+ Container" to get started.		

New container

Name * data

Anonymous access level Private (no anonymous access)

The access level is set to private because anonymous access is disabled on this storage account.

Advanced

Create

Add directory

Microsoft Azure

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data Container

Search

Upload Add Directory Refresh Rename Delete Change tier Acquire lease Break lease Give feedback

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

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

Location: data

Search blobs by prefix (case-sensitive)

Show deleted objects

Name	Modified	Access tier	Archive status	Blob type	Size
No results					

Add Directory

Name * logdata

Save Give feedback

Microsoft Azure

Home > datalakestore10010 | Containers >

data Container

Search

Upload Add Directory Refresh Rename Delete Change tier Acquire lease Break lease Give feedback

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

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

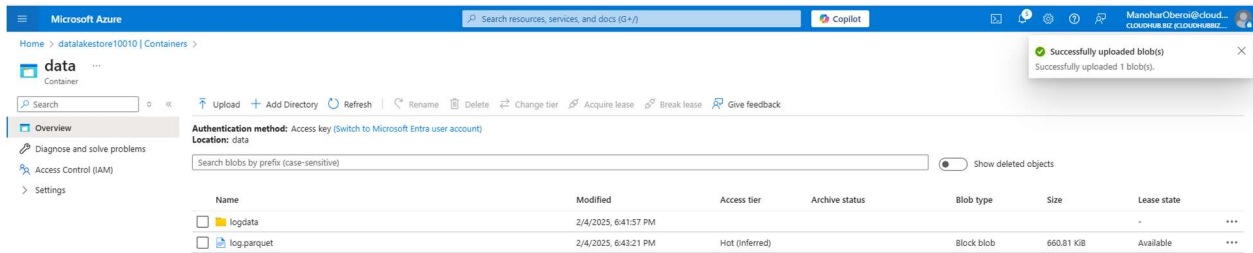
Location: data

Search blobs by prefix (case-sensitive)

Show deleted objects

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
logdata	2/4/2025, 6:41:57 PM					

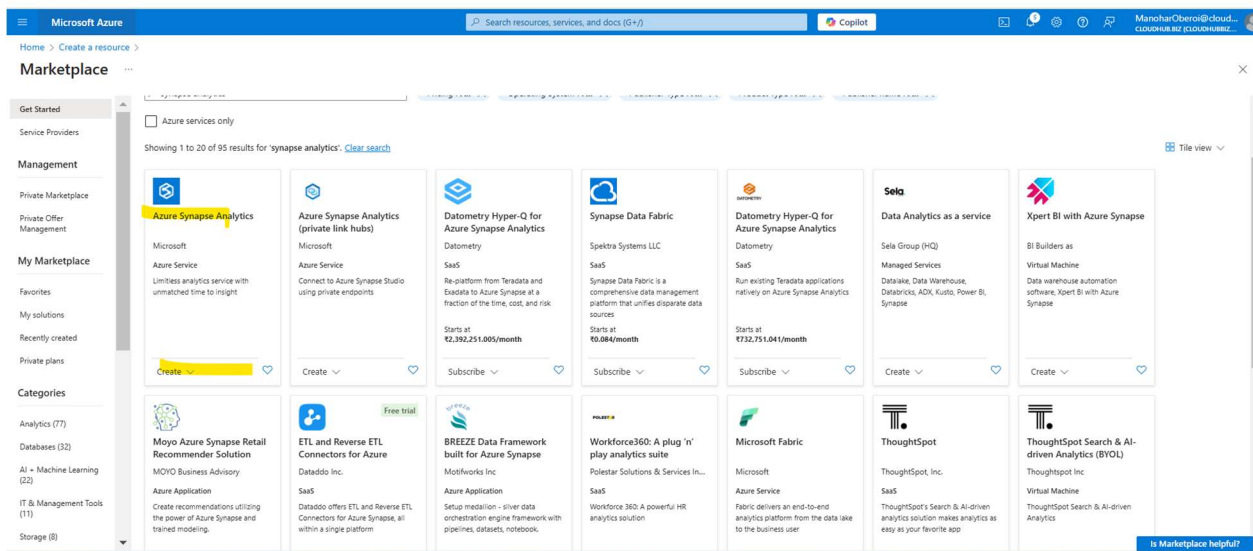
Upload log.parquet file in the container



The screenshot shows the Microsoft Azure portal interface. At the top, there's a search bar and a user profile. Below the navigation bar, the 'data' container is selected. A search bar for blobs is present, and a table lists the contents of the container. Two files are listed: 'logdata' and 'log.parquet'. The 'log.parquet' file is highlighted. A notification in the top right corner states 'Successfully uploaded blob(s)'.

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
logdata	2/4/2025, 6:41:57 PM					
log.parquet	2/4/2025, 6:43:21 PM	Hot (inferred)		Block blob	660.81 KiB	Available

Create azure synapse analytics workspace



The screenshot shows the Microsoft Azure Marketplace. The left sidebar contains navigation options like 'Get Started', 'Service Providers', 'Management', 'Private Marketplace', 'My Marketplace', 'Favorites', 'My solutions', 'Recently created', 'Private plans', and 'Categories'. The main area displays a grid of service cards. The first card is 'Azure Synapse Analytics', which is highlighted. Other cards include 'Datametry Hyper-Q for Azure Synapse Analytics', 'Synapse Data Fabric', 'Datametry Hyper-Q for Azure Synapse Analytics', 'Data Analytics as a service', 'Xpert BI with Azure Synapse', 'Moyo Azure Synapse Retail Recommender Solution', 'ETL and Reverse ETL Connectors for Azure', 'BREEZE Data Framework built for Azure Synapse', 'Workforce360: A plug 'n' play analytics suite', 'Microsoft Fabric', 'ThoughtSpot', and 'ThoughtSpot Search & AI-driven Analytics (BYOL)'.

Microsoft Azure

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Create Synapse workspace

of your resources.

Subscription *

Azure subscription 1

Resource group *

Demo-RG

Create new

Managed resource group

Enter managed resource group name

Workspace details

Name your workspace, select a location, and choose a primary Data Lake Storage Gen2 file system to serve as the default location for logs and job output.

Workspace name *

dataworkspace10010

Region *

Central India

Select Data Lake Storage Gen2 *

From subscription

Manually via URL

Account name *

datalakestore10010

Create new

File system name *

data

Create new

Data Lake Storage Gen2 file system

Name *

synapse

OK

Cancel

Review + create

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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

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

SQL Server admin login *

SQL Password

Confirm password

Password and confirm password must match.

System assigned managed identity permission

Select 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.

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](#)

Workspace encryption

Double encryption configuration cannot be changed after opting into using a customer-managed key at the time of

[Review + create](#)

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Create Synapse workspace

Validation succeeded

BasicsSecurityNetworkingTagsReview + create

Product Details

Azure Synapse Analytics workspace
by Microsoft
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Serverless SQL est. cost/TB ⓘ
415.97 INR

Terms

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Basics

Subscription	Azure subscription 1
Resource group	Demo-RG
Region	Central India
Workspace name	(new) dataworkspace10010
Data Lake Storage Gen2 account	https://datalakestore10010.dfs.core.windows.net
Data Lake Storage Gen2 file system	(new) synapse
Managed resource group	None

Create

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Home >

Microsoft.Azure.SynapseAnalytics-20250204184423 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : Microsoft.Azure.SynapseAnalytics-20250204184423
Subscription : Azure subscription 1
Resource group : Demo-RG

Start time : 2/4/2025, 6:46:00 PM
Correlation ID : 97213b04-c0e1-4028-b3ae-fe0f6da436fd

Deployment details

Next steps

Go to resource group

Give feedback

Tell us about your experience with deployment

Deployment succeeded

Deployment "Microsoft.Azure.SynapseAnalytics-20250204184423" to resource group "Demo-RG" was successful.

Pin to dashboard... Go to resource gr...

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Home > Microsoft.Azure.SynapseAnalytics-20250204184423 | Overview > Demo-RG >

dataworkspace10010 ☆ ...

Synapse workspace

Search

+ New dedicated SQL pool + New Apache Spark pool + New Data Explorer pool (preview) Refresh Reset SQL admin password Delete

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Analytics pools

Security

Monitoring

Automation

Help

Essentials

Resource group (move) : Demo-RG

Status : Succeeded

Location : Central India

Subscription (move) : Azure subscription 1

Subscription ID : 97eeb79c-d3f5-4128-a3ed-56158dc0b7c4

Managed virtual network : No

Managed identity object ... : b1efac1c-5719-4d79-ae29-6e7f903126ac

Workspace web URL : <https://web.azure.synapse.net/workspace=%2fsubscriptions%2f97eeb79c-d3f5-4128-a3ed-56158...>

Tags (edit) : Add tags

Networking : [Show firewall settings](#)

Primary ADLS Gen2 acco... : <https://datalakestore10010dfs.core.windows.net>

Primary ADLS Gen2 file s... : synapse

SQL admin username : sqladminuser

SQL Microsoft Entra admin : ManoharOberoi@cloudhubbiz.onmicrosoft.com

Dedicated SQL endpoint : dataworkspace10010.sql.azure.synapse.net

Serverless SQL endpoint : dataworkspace10010-ondemand.sql.azure.synapse.net

Development endpoint : <https://dataworkspace10010.dev.azure.synapse.net>

Getting started

Open Synapse Studio
Start building your fully-integrated analytics solution and unlock new insights.
[Open it](#)

Read documentation
Learn how to be productive quickly. Explore concepts, tutorials, and samples.
[Learn more](#)

Analytics pools

Search to filter items...

Name	Type	Size
SQL pools		

Create dedicated sql pool

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dataworkspace10010 | SQL pools ☆ ...

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+ New Refresh Assign tags Delete

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SQL pools

Apache Spark pools

Data Explorer pools (preview)

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Search to filter items...

Name	Type	Status	Size
Built-in	Serverless	N/A	Auto

Microsoft Azure

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CC

Home > Microsoft.Azure.SynapseAnalytics-20250204184423 | Overview > Demo-RG > dataworkspace10010 | SQL pools >

New dedicated SQL pool ...

* Basics

* Additional settings

Tags

Review + create

Create a dedicated SQL pool with your preferred configurations. Complete the Basics tab then go to Review + Create to provision with smart defaults, or visit each tab to customize. [Learn more](#)

Dedicated SQL pool details

Name your dedicated SQL pool and choose its initial settings.

Dedicated SQL pool name *

warehouseodb

✓

Performance level ⓘ

DW100c

Estimated price ⓘ

Est. Cost Per Hour

140.60 INR

[View pricing details](#)

✓

Dedicated SQL pool name should not match special patterns

✓

The value has a length of at most 60.

✓

Dedicated SQL pool name should not contain reserved words

✓

No dedicated SQL pool with the same name exists in the workspace

Review + create

Next: Additional settings >

Microsoft Azure

Search resources, services, and docs (G+)

CC

Home > Microsoft.Azure.SynapseAnalytics-20250204184423 | Overview > Demo-RG > dataworkspace10010 | SQL pools >

New dedicated SQL pool ...

* Basics

* Additional settings

Tags

Review + create

Customize additional configuration parameters including collation & data source.

Data source

Start with a blank dedicated SQL pool, restore from a backup or leverage a restore point to populate your new dedicated SQL pool.

Use existing data *

None

Backup

Restore point

Dedicated SQL pool collation

Collation defines the rules that sort and compare data, and cannot be changed after dedicated SQL pool creation. The default collation is SQL_Latin1_General_CP1_CI_AS. [Learn more](#)

Collation *

SQL_Latin1_General_CP1_CI_AS

Review + create

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New dedicated SQL pool ...

* Basics * Additional settings **Tags** Review + create

Tags are name/value pairs that enable you to categorize and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more](#) ¹²

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name ⓘ	Value ⓘ	Resource
		Dedicated SQL pool

Review + create

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New dedicated SQL pool ...

* Basics * Additional settings **Tags** **Review + create**

Product details

Azure Synapse Analytics dedicated SQL pool
by Microsoft
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Est. Cost Per Hour
140.60 INR
[View pricing details](#)

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Basics

Dedicated SQL pool name	warehousedb
Performance level	DW100c

Additional settings

Use existing data	None
Collation	SQL_Latin1_General_CP1_CI_AS

Tags

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Home > Microsoft.Azure.Synapse.SqlPoolOnExistingWorkspace_d7bcc5bddc144 | Overview

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Deployment details

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Give feedback

Tell us about your experience with deployment

Deployment succeeded

Deployment 'Microsoft.Azure.Synapse.SqlPoolOnExistingWorkspace...' to resource group 'Demo-RG' was successful.

Go to resource Pin to dashboard

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Home > Microsoft.Azure.Synapse.SqlPoolOnExistingWorkspace_d7bcc5bddc144 | Overview > dataworkspace10010

Synapse workspace

Search

+ New dedicated SQL pool + New Apache Spark pool + New Data Explorer pool (preview) Refresh Reset SQL admin password Delete

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Resource group (move) : Demo-RG

Status : Succeeded

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Managed identity object ... : b1efac1c-5719-4d79-ae29-6e7f303126ac

Workspace web URL : https://web.azure.synapse.net/workspace=%2fsubscriptions%2f97eeb79c-d3f5-4128-a3ed-56158...

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Primary ADLS Gen2 acco... : https://datalakestore10010.dfs.core.windows.net

Primary ADLS Gen2 file s... : synapse

SQL admin username : sqladminuser

SQL Microsoft Entra admin : ManoharOberoi@cloudhubbiz.ormicrosoft.com

Dedicated SQL endpoint : dataworkspace10010.sql.azuresynapse.net

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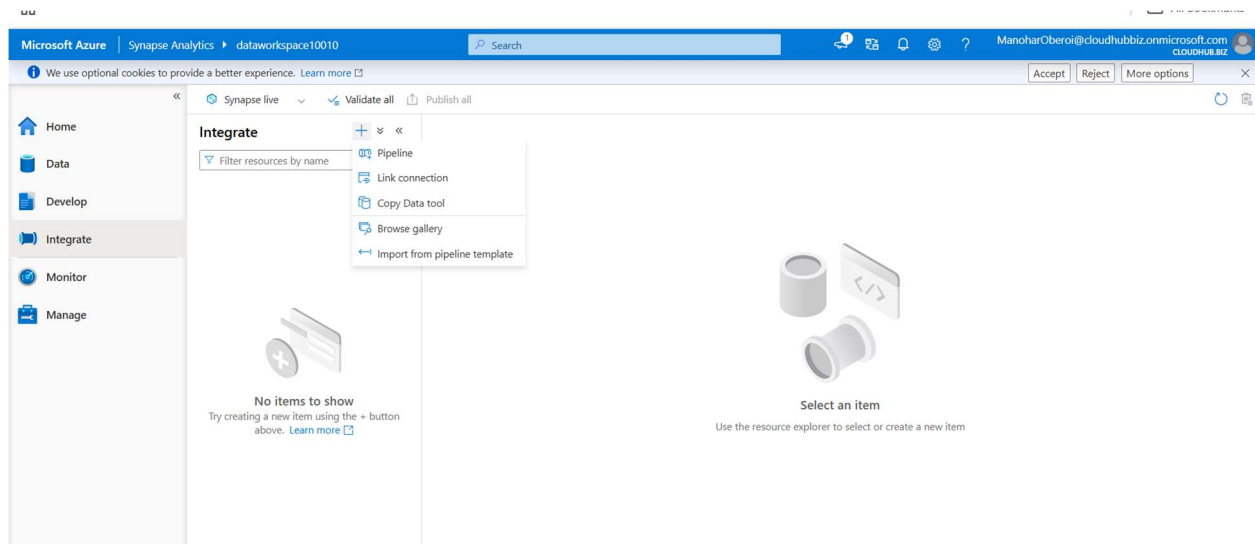
Learn more it

Analytics pools

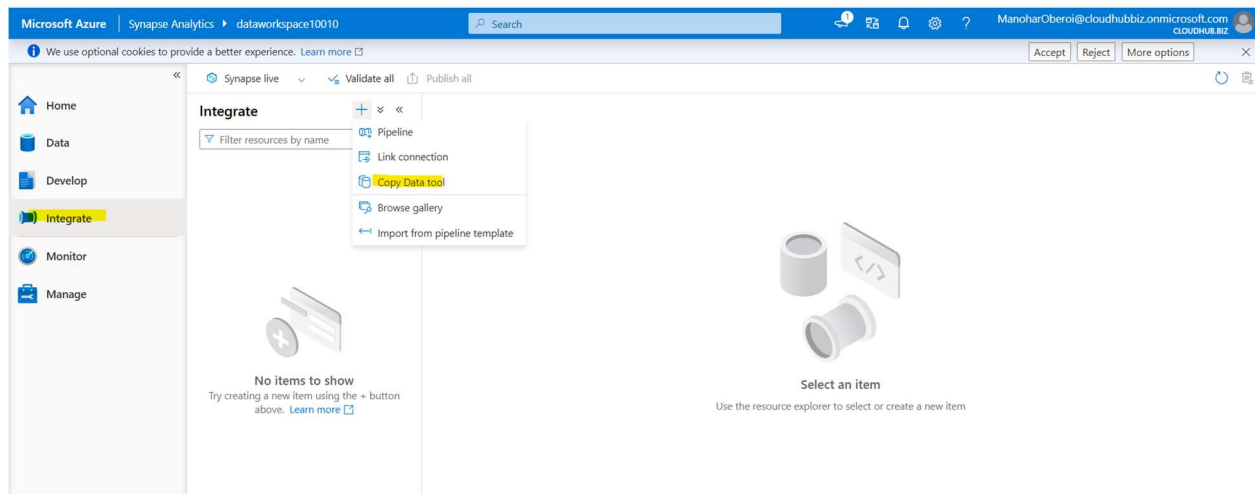
Search to filter items...

Name	Type	Size
SQL pools		

Open synapse studio



We will now take the data from the datalake storage account and create a table in the dedicated sql pool and copy the data in the sql pool.



Microsoft Azure | Synapse Analytics | dataworkspace10010

Search

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Copy Data tool

1 Properties

2 Source

3 Destination

4 Settings


5 Review and finish

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


Properties

Select copy data task type and configure task schedule

Task type



Built-in copy task
You will get a single pipeline which is capable of smoothly copying data from over 100 different data sources.



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

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

Task cadence or task schedule *

☒ Run once now ☐ Schedule ☐ Tumbling window

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Cancel

Adding source data store

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Search

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Copy Data tool

1 Properties

2 Source

3 Dataset

4 Configuration

5 Destination

6 Settings

7 Review and finish

Source data store

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

Source type

All

Connection *

dataworkspace10010-WorkspaceDef.w

Edit

+ New connection

Integration runtime *

AutoResolveIntegrationRuntime

Edit

File or folder

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

Browse

Options

☐ Binary copy

☒ Recursively

☐ Enable partitions discovery

Max concurrent connections

Filter by last modified

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Browse

Select a file or folder.

Root folder > data

logdata

log.parquet

Showing 1 - 2 of 2 items

OK

Cancel

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Search

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Copy Data tool

Properties

Source

Dataset

Configuration

Destination

Settings

Review and finish

Source data store

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

Source type: All

Connection: dataworkspace10010-WorkspaceDefaultStorage

Integration runtime: AutoResolveIntegrationRuntime

File or folder

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

data/log.parquet

Options

☐ Binary copy

☒ Recursively

☐ Enable partitions discovery

Max concurrent connections

Filter by last modified

< Previous Next >

Cancel

Preview data

Microsoft Azure | Synapse Analytics | dataworkspace10010

Search

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Copy Data tool

Properties

Source

Dataset

Configuration

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Settings

Review and finish

File format settings

File format: Parquet

Compression type

Additional columns: + New

Preview data

Linked service: dataworkspace10010-WorkspaceDefaultStorage

Object: data/log.parquet

Correlationid	Operationname	Status	Eventcategory	Level	Time	Subscription
99fe9c3a-e36e-44e0-acd4-58272ab10c7e	Update SQL database	Succeeded	Administrative	Informational	2023-04-25T03:36:59.503Z	6912d7a0-bc28-459a-9407-33bbba641c07
99fe9c3a-e36e-44e0-acd4-58272ab10c7e	Create Deployment	Started	Administrative	Informational	2023-04-25T03:23:57.601Z	6912d7a0-bc28-459a-9407-33bbba641c07
99fe9c3a-e36e-44e0-acd4-58272ab10c7e	Create Deployment	Accepted	Administrative	Informational	2023-04-25T03:24:02.274Z	6912d7a0-bc28-459a-9407-33bbba641c07
99fe9c3a-e36e-44e0-acd4-58272ab10c7e	Registers the Microsoft SQL Database Resource	Started	Administrative	Informational	2023-04-25T03:24:03.467Z	6912d7a0-bc28-459a-9407-33bbba641c07

< Previous Next >

Cancel

Adding destination data store

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Synapse Analytics

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Copy Data tool

1 Properties

2 Source

3 Destination

4 Dataset

Configuration

5 Settings

6 Review and finish

Destination data store

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

Destination type

All

Connection *

warehousedb

Source

log

Destination

logdata

(auto-create)

Use existing table

☐ Skip column mapping for all tables

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Next >

Cancel

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Copy Data tool

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Settings

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

Task name *

CopyParquetLogData

Task description

Fault tolerance

Enable logging

☐

Enable staging

☐

Advanced

Copy method

Copy command

PolyBase

Bulk insert

Upsert

Bulk insert table lock

Yes

No

Maximum data integration unit

Auto

Use custom value

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

Degree of copy parallelism

Auto

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Cancel

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Copy Data tool

Properties

Source

Destination

Settings

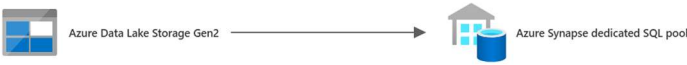
Review and finish

Review

Deployment

Summary

You are running pipeline to copy data from Azure Data Lake Storage Gen2 to Azure Synapse dedicated SQL pool.



Properties

Task name: CopyParquetLogData

Task description:

Source

Connection name: dataworkspace10010-WorkspaceDefaultStorage

Dataset name: SourceDataset_q05

File name: log.parquet

Destination

Connection name: warehousedb

< Previous Next > Cancel

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Copy Data tool

Properties

Source

Destination

Settings

Review and finish

Review

Deployment

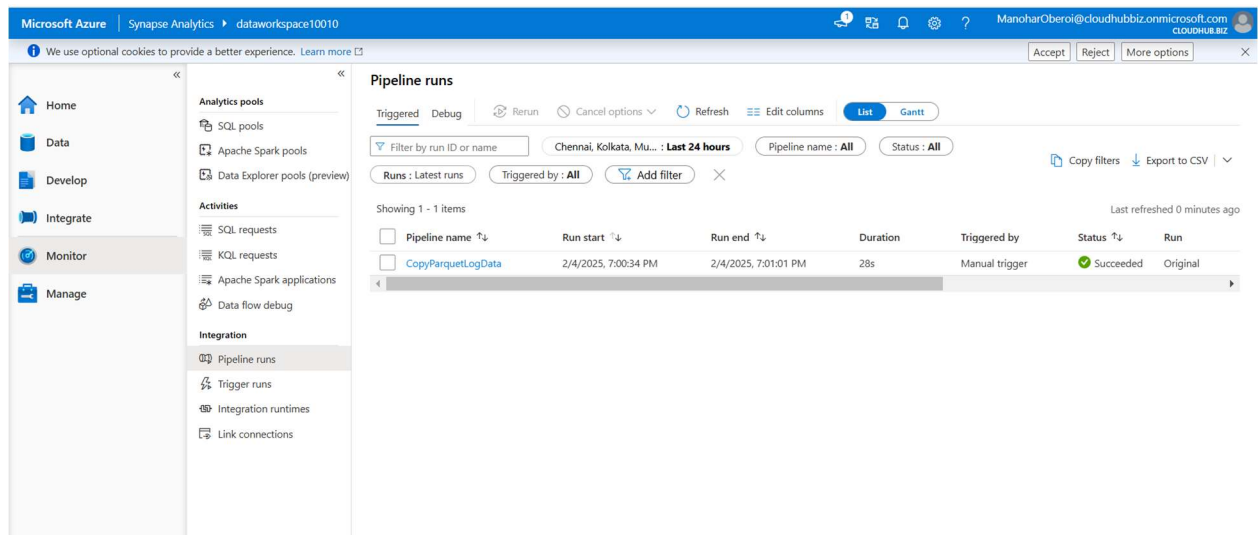
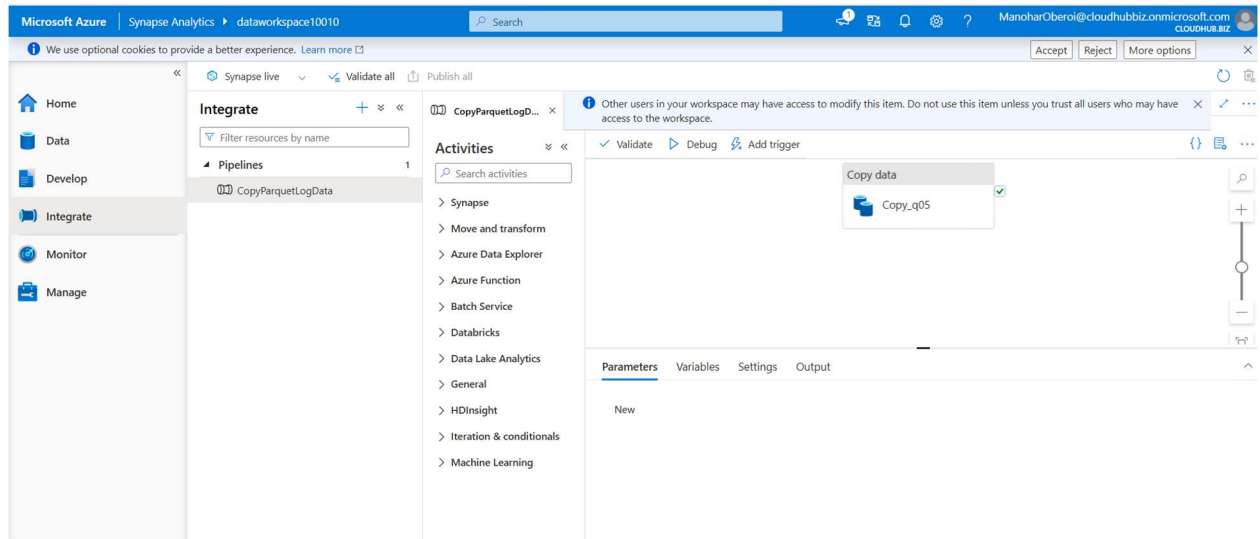
Deployment complete

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

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

Finish Edit pipeline Monitor

Checking status of the pipeline



We have a warahousedb sql pool and if we expand it we can see under table we have our table and we can see the data in the table.

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Synapse live Validate all Publish all

Home Data Develop Integrate Monitor Manage

Data

Workspace Linked

Filter resources by name

SQL database 1

warehousedb (SQL)

Tables

dbo.logdata

Columns

External tables

External resources

Views

Programmability

Schemas

Security

SQL script 1

Run Undo Publish Query plan Connect to warehousedb Use database warehousedb

```
1 SELECT TOP (100) [Correlationid]
2 , [Operationname]
3 , [Status]
4 , [Eventcategory]
5 , [Level]
```

Results Messages

View Table Chart Export results

Correlationid	Operationname	Status	Eventcategory	Level	Time	Subscription	Eventinitiatedby	Resou
84fb2d66-c063...	'audit'NotExist...	Succeeded	Policy	Informational	2023-04-17T15:...	6912d7a0-bc28...	techsup4000@...	Micro
84fb2d66-c063...	'audit' Policy ac...	Succeeded	Policy	Warning	2023-04-17T15:...	6912d7a0-bc28...	techsup4000@...	Micro
84fb2d66-c063...	'audit'NotExist...	Succeeded	Policy	Informational	2023-04-17T15:...	6912d7a0-bc28...	techsup4000@...	Micro
2127d1c8-ba1f...	'audit' Policy ac...	Succeeded	Policy	Warning	2023-04-17T15:...	6912d7a0-bc28...	techsup4000@...	Micro
2127d1c8-ba1f...	'audit' Policy ac...	Succeeded	Policy	Warning	2023-04-17T15:...	6912d7a0-bc28...	techsup4000@...	Micro

This complete the assignment.