

Homework | Cycle 29 | Session 14

- Build pipeline to loop multiple tables in synapse workspace

Microsoft Azure Upgrade

Search resources, services, and docs (G+)

Copilot

Home > Azure Synapse Analytics >

Create Synapse workspace

Project details
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all of your resources.

Subscription * ⓘ

Azure subscription 1

Resource group * ⓘ

AC29_bhavani_1

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 *

synapseworkspacebhav

✓

Region *

(US) West US 2

✓

Select Data Lake Storage Gen2 * ⓘ

☒ From subscription ☐ Manually via URL

Account name * ⓘ

adlsgend21

Create new

File system name *

contemp

Create new

☒ Assign myself the Storage Blob Data Contributor role on the Data Lake Storage Gen2 account to interactively query it in the workspace.

❗ We will automatically grant the workspace identity data access to the specified Data Lake Storage Gen2 account, using the [Storage Blob Data Contributor](#) role. To enable other users to use this storage account after you create your workspace, perform these tasks:

- Assign other users to the **Contributor** role on workspace
- Assign other users the appropriate **Synapse RBAC roles** using Synapse Studio
- Assign yourself and other users to the **Storage Blob Data**

Review + create

< Previous

Next: Security >

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F6482a0f-9528-4eec-80dc-c38590actd69%2FresourceGroups%2FAC29_bhavani_1%2Fproviders%2FMicrosoft.Resources%2Fdeployments%2F...

Microsoft Azure Upgrade

Search resources, services, and docs (G+)

Copilot

bhavani@jayathinkson...
DEFAULT DIRECTION

Home >

Microsoft.Azure.SynapseAnalytics-20250602210701 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name : Microsoft.Azure.SynapseAnalytics-20250602210701

Subscription : Azure subscription 1

Resource group : AC29_bhavani_1

Start time : 6/2/2025, 9:15:25 PM

Correlation ID : dce5bf25-b98c-4647-9fbc-97c0745709ea

Deployment details

Resource	Type	Status	Operation details
synapseworkspacebhav	Synapse workspace	Created	Operation details

Give feedback

Tell us about your experience with deployment

Microsoft Defender for Cloud

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Add an extension. Read the extension docs. (0/100)

Home > Microsoft.Azure.SynapseAnalytics-20250602210701 | Overview

Deployment

Search x < Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : Microsoft.Azure.SynapseAnalytics-20250602210701 Start time : 6/2/2025, 9:15:48 PM

Subscription : Azure subscription 1 Correlation ID : dce5bf25-b98c-4647-9fbc-97c0745709ea

Resource group : AC29_bhavani_1

> Deployment details

< Next steps

Go to resource group

Give feedback

Tell us about your experience with deployment

Home > Microsoft.Azure.SynapseAnalytics-20250602210701 | Overview > AC29_bhavani_1

Resource group

Search < + Create Manage view Delete resource group Refresh Export to CSV Open query Assign tags Move Delete Export template Open in mobile

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Cost Management

Monitoring

Automation

Help

Essentials

Subscription (move) : Azure subscription 1 Deployments : 4 Succeeded

Subscription ID : 64a82a0f-9528-4eec-80dc-c38590acf69 Location : East US

Tags (edit) : Add tags

Resources Recommendations (8)

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

Showing 1 to 5 of 5 records. Show hidden types No grouping

Name	Type	Location
aztestblobstbhav	Storage account	East US
sqljobbhav (sqlserverbhav/sqljobbhav)	SQL database	West US 2
sqlserverbhav	SQL server	West US 2
synapseworkspacebhav	Synapse workspace	West US 2

Home > Microsoft.Azure.SynapseAnalytics-20250602210701 | Overview > AC29_bhavani_1 > synapseworkspacebhav

Synapse workspace

Search < + New dedicated SQL pool + New Apache Spark pool Refresh Reset SQL admin password Delete

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Settings

Analytics pools

Security

Monitoring

Automation

Help

Essentials

Resource group (move) : AC29_bhavani_1

Status : Succeeded

Location : West US 2

Subscription (move) : Azure subscription 1

Subscription ID : 64a82a0f-9528-4eec-80dc-c38590acf69

Managed virtual network : No

Workspace web URL : https://web.azure.synapse.net/workspace-%2Fsubscriptions%2F64a82a0f-9528-4eec-80dc-c38590acf69%2FresourceGroups%2FAC29_bhavani_1%2Fproviders%2FMicrosoft.Synapse%2Fworkspaces%2Fsynapseworkspacebhav

Tags (edit) : Add tags

Networking : Show firewall settings

Primary ADLS Gen2 acco... : https://adls2gen21.dfs.core.windows.net

Primary ADLS Gen2 file s... : contemp

SQL admin username : sqladminuser

SQL Microsoft Entra admin : bhavani@gayathri@esaavaluodk.onmicrosoft.com

Dedicated SQL endpoint : synapseworkspacebhav.sql.azuresynapse.net

Serverless SQL endpoint : synapseworkspacebhav-ondemand.sql.azuresynapse.net

Development endpoint : https://synapseworkspacebhav.dev.azure.synapse.net

Getting started

Open Synapse Studio Start building your fully-integrated analytics solution and unlock new insights. Open

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		
Built-in	Serverless	Auto
Apache Spark pools		
No pools provisioned		

Microsoft Azure | Synapse Analytics | synapseworkspacebhav

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Synapse Analytics workspace
synapseworkspacebhav

[New](#)

Ingest
Perform a one-time or scheduled data load.

Explore and analyze
Learn how to get insights from your data.

Visualize
Build interactive reports with Power BI capabilities.

Discover more

[Knowledge center](#) [Browse partners](#)

Recent resources

No recent resources
Your recently opened resources will show up here.

Search

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

/alidate copy runtime ▶ Debug ⚙️ Add trigger

Copy data

Copy data1

Select... + New

Edit linked service

Azure SQL Database [Learn more](#)

Connect via integration runtime * ⓘ
AutoResolveIntegrationRuntime

Version
☒ 2.0 ☐ 1.0

Account selection method ⓘ
☐ From Azure subscription ☒ Enter manually

Fully qualified domain name *
sqlserverbhav.database.windows.net

Database name *
sqlddbhav

Authentication type *
SQL authentication

User name *
sqladmin

Password Azure Key Vault

Password *

Always encrypted ⓘ ☐

Encrypt ⓘ
Optional

Trust server certificate ⓘ ☐

Host name in certificate

[Apply](#) [Cancel](#)

✓ Connection successful
[Test connection](#)

Publish all 2

Pipeline 1

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

Activities

Search activities

Synapse

Move and transform

Copy data

Data flow

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

Validate Validate copy runtime Debug Add trigger

Copy data

Copy data1

General Source Sink Mapping Settings User properties

Source dataset * AzureSqlTable1 Open New Preview data Learn more

Use query Table Query Stored procedure

Query timeout (minutes) 120

Isolation level Select...

Partition option None Physical partitions of table Dynamic range

Please preview data to validate the partition settings.

Additional columns New

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

Validate Validate copy runtime Debug Add trigger

Copy data

Copy data1

General Source Sink Mapping Settings User properties

Sink dataset * Select... New

New integration dataset

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

Select a data store

Search

All Azure Database File Generic protocol

Azure AI Search

Azure Blob Storage

Azure Cosmos DB for MongoDB

Azure Cosmos DB for NoSQL

Azure Data Explorer (Kusto)

Azure Data Lake Storage Gen2

Azure Database for MySQL

Azure Database for PostgreSQL

Azure Databricks Delta Lake

Continue

Cancel

Search

1

2

?

bhavani@gayathrikesavaluoutlook.onmicrosoft.com
DEFAULT DIRECTORY

Other users in your workspace may have access to modify this item. Do not use this item unless you are the owner.

Validate copy runtime Debug Add trigger

Copy data

Copy data1

✓ ✗ ↺ ↻

Sink Mapping Settings User properties

Select... + New

Set properties

Name

DelimitedText1

Linked service *

synapseworkspacebhav-WorkspaceDefaultStorage

Connect via integration runtime * ⓘ

✓ AutoResolveIntegrationRuntime

File path

contemp / Directory / File name

First row as header

✓

Import schema

From connection/store

From sample file

None

Advanced

OK Back Cancel

synapseworkspacebhav

Search

1

2

?

bhavani@gayathrikesavaluoutlook.onmicrosoft.com
DEFAULT DIRECTORY

Other users in your workspace may have access to modify this item. Do not use this item unless you are the owner.

Validate Validate copy runtime Debug Add trigger

Copy data

Copy data1

✓ ✗ ↺ ↻

General Sink Mapping Settings User properties

Sink dataset *

DelimitedText1

Open + New Learn more

Copy behavior ⓘ

Select...

Max concurrent connections ⓘ

Block size (MB) ⓘ

Metadata ⓘ

+ New

Quote all text

✓

File extension ⓘ

.txt

Max rows per file ⓘ

Publish all

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

Pending changes (3)

NAME	CHANGE	EXISTING
Pipelines		
Pipeline 1	(New)	-
Datasets		
AzureSqlTable1	(New)	-
DelimitedText1	(New)	-

Publish Cancel

Microsoft Azure | Synapse Analytics | synapseworkspacebhav

Search

lhavani@gguyathriksavakunoutlook.onmicrosoft.com

DEFAULT DIRECTORY

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Accept | Reject | More options

Synapse live | Validate all | Publish all

Data

Workspace

Linked

Filter resources by name

Azure Data Lake Storage Gen2 2

synapseworkspacebhav (Primary - ...

contemp (Primary)

(Attached Containers)

Integration datasets 2

AzureSqlTable1

DelimitedText1

Pipeline 1 | AzureSqlTable1 | contemp

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.

New SQL script | New notebook | Upload | Download | New folder | Select all | Rename | Manage access | Properties | Delete | Refresh

contemp

Name	Last Modified	Content Type	Size
contemp	5/29/2025, 6:07:20 PM	Folder	
sqinrpl	5/28/2025, 7:37:15 PM	Folder	
DCtestfile.xlsx	5/25/2025, 9:25:31 PM		8.6 KB
pizza_sales.csv	5/25/2025, 9:12:50 PM		7.5 MB
SalesLT.Customer.txt	6/2/2025, 10:38:53 PM		212.9 KB