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Batch: Data Engineering Batch-1

Azure Synapse Analytics, formerly known as Azure SQL Data Warehouse, is a cloud-based analytics service provided by Microsoft Azure. It's a unified analytics platform that integrates enterprise data warehousing and big data analytics. Azure Synapse aims to streamline the process of ingesting, preparing, managing, and serving data for immediate business intelligence and machine learning needs.

### **Hands On:**

How Azure Synapse can be used to manage all the services linked with with same workspace and resource group.

Not only just for Analytics purpose but also for managing the data sources, manipulation of the data, connecting the resources and managing it Azure Synapse can be used.

# Creating Account :

Home > Azure Synapse Analytics >

## Create Synapse workspace

Validation succeeded

Workspace name: (new) azuresynapseworkspace1064

Data Lake Storage Gen2 account: https://workspace1064.dfs.core.windows.net

Data Lake Storage Gen2 file system: data lake test1064

Managed resource group: None

Role assignments: The Storage Blob Data Contributor role will be assigned on the specified Data Lake Storage Gen2 account to both the workspace managed identity and the current user.

### Security

Authentication method: Use both local and Microsoft Entra ID authentication

SQL Server admin login: sqladminuser

SQL Password: Auto-generated

Double encryption: No

### Networking

Managed virtual network: No

Allow connections from all IP addresses: Yes

Create < Previous Next > Download a template for automation

Home >

## Microsoft.Azure.SynapseAnalytics-20240228082823 | Overview

Deployment

Search << Delete Cancel Redeploy Download Refresh

### Deployment is in progress

Deployment name: Microsoft.Azure.SynapseAnalytics-20240228082823 Start time: 2/28/2024, 8:30:16 AM

Subscription: Azure subscription 1 Correlation ID: cb7c27e9-c411-4148-815b-7a93d3447924

Resource group: Test1064

#### Deployment details

Resource	Type	Status	Operation details
There are no resources to display.			

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## Deploying Azure Synapse :

The screenshot shows the 'Overview' page for a deployment named 'Microsoft.Azure.SynapseAnalytics-20240228082823'. The deployment is complete, with a start time of 2/28/2024, 8:30:16 AM and a correlation ID of cb7c27e9-c411-4148-815b-7a93d3447924. The deployment details show it was created under 'Azure subscription 1' in the 'Test1064' resource group. The 'Next steps' section includes a button to 'Go to resource group'. The right sidebar contains links for 'Cost management', 'Microsoft Defender for Cloud', and 'Free Microsoft tutorials'.

Home > Microsoft.Azure.SynapseAnalytics-20240228082823 | Overview

Deployment

Search resources, services, and docs (G+)

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : Microsoft.Azure.SynapseAnalytics-20240228082823 Start time : 2/28/2024, 8:30:16 AM

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Resource group : Test1064

Deployment details

Next steps

Go to resource group

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## Connecting and working on resources :

The screenshot shows the 'Overview' page for the 'Test1064' resource group. The 'Essentials' section displays a list of resources, including storage accounts, Synapse workspace, Data factory (V2), and Storage account. The table shows 14 records, with columns for Name, Type, and Location. The 'List view' is selected, and the page shows 'Page 1 of 1'.

Home > Test1064

Resource group

Search resources, services, and docs (G+)

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Deployments

Security

Deployment stacks

Policies

Properties

Locks

Cost Management

Cost analysis

Cost alerts (preview)

Essentials

Resources Recommendations (1)

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

Showing 1 to 14 of 14 records. Show hidden types

No grouping List view

Name	Type	Location
adis10test1	Storage account	East US
adisinput1064	Storage account	East US
adisoutput1064	Storage account	East US
azuresynapseworkspace1064	Synapse workspace	East US
bolbtloads1064	Data factory (V2)	East US
etlstorageadis2	Storage account	East US
etlstorageaccount1	Storage account	East US

< Previous Page 1 of 1 Next >

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