

Exercise - Create and manage Azure Synapse Analytics workspace

Note: *In this reading you can see the steps involved in the process of creating and managing an Azure Synapse Analytics workspace.*

To create an Azure Synapse Analytics workspace, perform the following steps: 1. In the Azure portal, click on **+ Create a resource**. 2. In the text box, replace “Search the Marketplace” with the text “Azure Synapse” and then click on Azure Synapse Analytics. 3. Click on **Create**.

[Home](#) >

Azure Synapse Analytics

Microsoft



Azure Synapse Analytics

[Add to Favorites](#)

Microsoft

★ 3.8 (13 Azure ratings)

[Create](#)[Overview](#)[Plans](#)[Usage Information + Support](#)[Reviews](#)

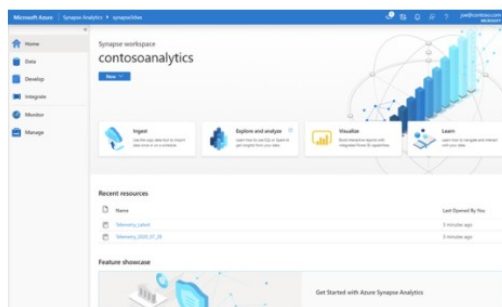
Azure Synapse is a limitless analytics service that brings together data integration, enterprise data warehousing, and Big I

It gives you the freedom to query data on your terms, using either serverless or dedicated resources-at scale. Azure Syna experience to ingest, explore, prepare, manage, and serve data for immediate BI and machine learning needs.

Key service capabilities include:

- Unified analytics platform
- Serverless and dedicated options
- Enterprise data warehouse
- Data lake exploration
- Code-free hybrid data integration
- Deeply integrated Apache Spark and SQL engines
- Cloud-native HTAP
- Choice of language (T-SQL, Python, Scala, SparkSQL, & .NET)
- Integrated AI and BI

Media



Create Azure Synapse Analytics

4. In Basics, enter your preferred Subscription, Resource group, Region, and then type in a workspace name.

5. You need to select a Data Lake Storage Gen2 account and a container in that account to create a workspace. The simplest choice it to create a new one. By clicking on the Create new hyperlink, but

there is the option to use an existing one by click on the drop-down list. 6. Select **Review + create > Create**. Your workspace is ready in a few minutes.

Microsoft Azure

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

[Home](#) > [Create a resource](#) > [Azure Synapse Analytics](#) >

Create Synapse workspace ...

* Basics

* Security

Networking

Tags

Review + create

Create a Synapse workspace to develop an enterprise analytics solution in just a few clicks.

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 *

MSDN Platforms

Resource group *

demorg

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 *

workspacebmk

Region *

North Europe

Select Data Lake Storage Gen2 *

☒ From subscription

☐ Manually via URL

Account name *

(New) adlsbmk

Create new

File system name *

(New) users

Create new

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

Review + create

< Previous

Next: Security >

Create Synapse Workspace

[Home](#) > [Create a resource](#) > [Azure Synapse Analytics](#) >

Create Synapse workspace

[* Basics](#) [* Security](#) [Networking](#) [Tags](#) [Review + create](#)

Configure security options for your workspace.

SQL administrator credentials

Provide credentials that can be used for administrator access to the workspace's SQL pools. If you don't provide a password, one will be automatically generated. You can change the password later.

SQL Server admin login * ⓘ

sqladminuser ✓

SQL Password ⓘ

..... ✓

Confirm password

..... ✓

System assigned managed identity permission

Choose the permissions that you would like to assign to the workspace's system-assigned identity. [Learn more](#) ↗

☒ Allow pipelines (running as workspace's system assigned identity) to access SQL pools. ⓘ☐ 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](#) ↗

Workspace encryption

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

Choose to encrypt all data at rest in the workspace with a key managed by you (customer-managed key). This will provide double encryption with encryption at the infrastructure layer that uses platform-managed keys. [Learn more](#) ↗

Double encryption using a customer-managed key ☐ Enable ☒ Disable

[Review + create](#)

< Previous

Next: Networking >