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**.

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Azure Synapse Analytics 📌 ⋯
Microsoft

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★ 3.8 (13 Azure ratings)

Create

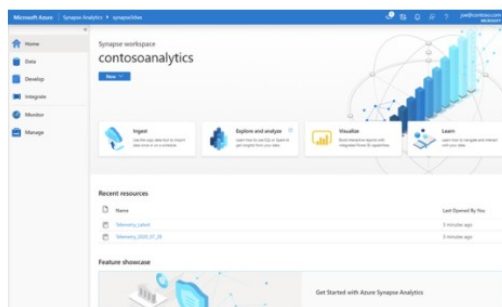**Overview** Plans Usage Information + Support Reviews

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 Synap 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.

Create Synapse Workspace

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. ⓘ

ⓘ 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

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