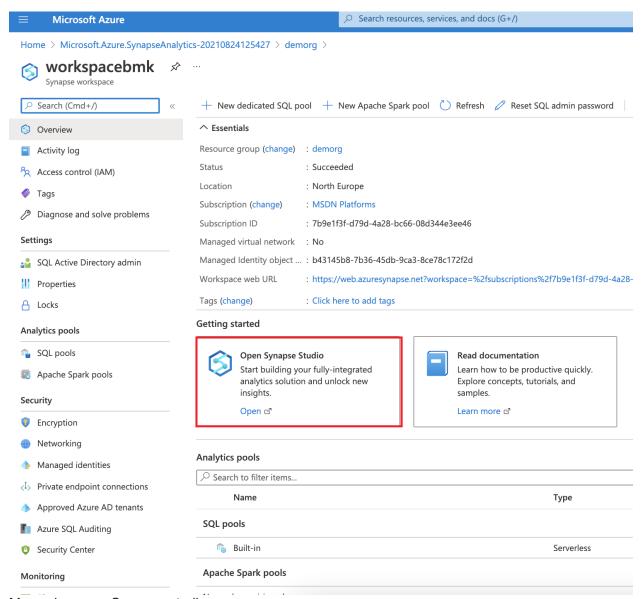
Exercise - Create pools in Azure Synapse Analytics

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

To create an Azure Synapse Analytics pool, perform the following steps:

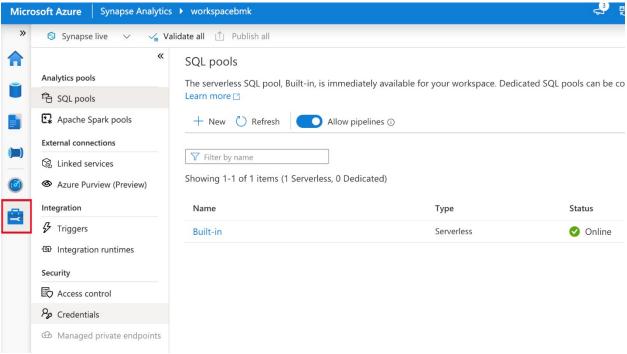
For Azure Synapse SQL pool

1. Launch Azure Synapse Studio. The URL can be found in the Azure Synapse Workspace created in the Azure portal.



My workspace - Synapse studio

2. In Azure Synapse Studio, navigate to the **Management Hub** in the left navigation by selecting the **Manage** icon.



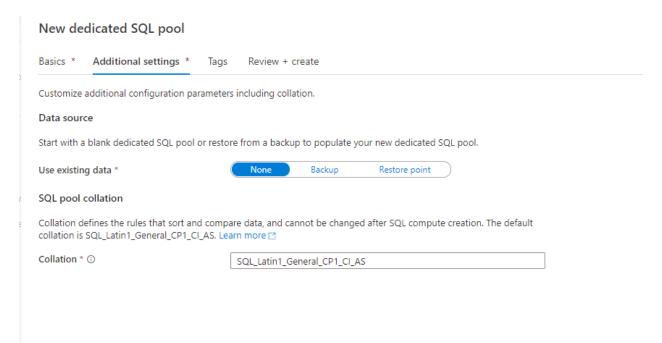
Select the Manage icon

- 3. Once in the Management Hub, navigate to the **SQL pools** section to see the current list of SQL pools that are available in the workspace.
- 4. Select + **New** command and the new SQL pool create wizard will appear.

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. Learn more	
Dedicated SQL pool details	
Name your dedicated SQL pool and choose its initial settings.	
Dedicated SQL pool name *	SQLPool01
Performance level ①	O DW100c
Estimated price ①	Est. cost per hour 1.17 EUR View pricing details

New dedicated SQL pool

- 5. Enter the following details in the **Basics** tab:
 - SQL pool name: SQLPool01Performance level: DW100c
- 6. In the next tab, **Additional settings**, select **none** to provision the SQL pool without data. Leave the default collation as selected.



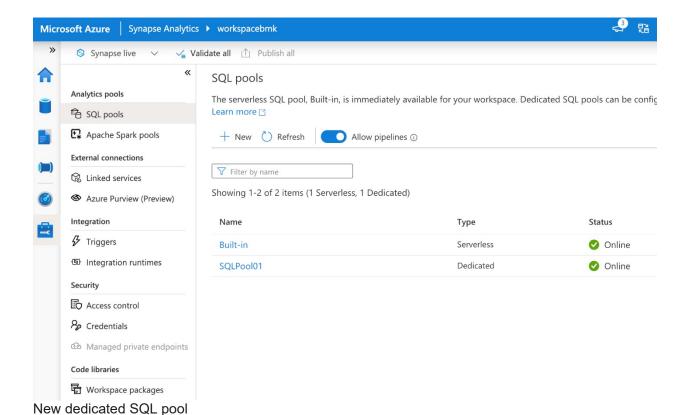
New dedicated SQL Pool

- 7. We won't add any tags for now, so next select **Review + create**.
- 8. In the **Review + create** tab, make sure that the details look correct based on what was previously entered, and press **create**.

New dedicated SQL pool Validation succeeded. Basics * Additional settings * Tags Review + create **Product details** Azure Synapse Analytics dedicated Est. cost per hour SQL pool by Microsoft 1.17 EUR View pricing details Terms of use | Privacy policy **Terms** By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. For additional details see Azure Marketplace Terms 🖸 Data source Dedicated SQL pool name SQLPool01 Performance level DW100c Additional settings Create < Previous Download template for automation

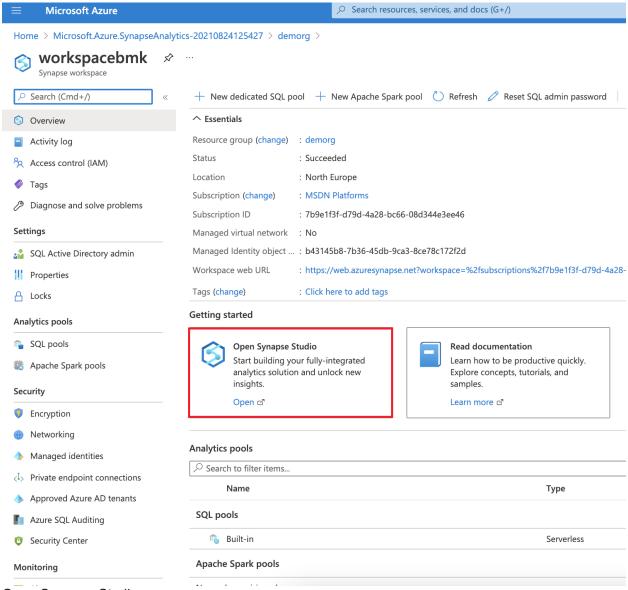
New dedicated SQL pool

At this point, the resource provisioning flow will start. After the provisioning completes, navigating back to the workspace will show a new entry for the newly created SQL pool. 9. Once the SQL pool is created, it will be available in the workspace for loading data, processing streams, reading from the lake, etc.



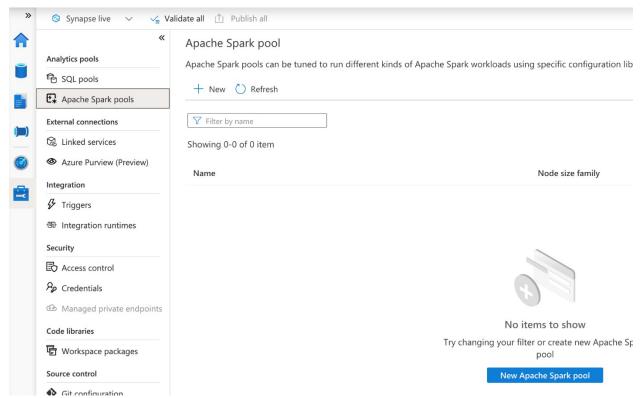
Azure Synapse Spark pool

1. Launch Azure Synapse Studio. The URL can be found in the Azure Synapse Workspace created in the Azure portal.



Open Synapse Studio

- 2. In Azure Synapse Studio, navigate to the **Management Hub** in the left navigation by selecting the **Manage** icon.
- 3. Once in the Management Hub, navigate to the **Apache Spark pools** section to see the current list of Apache Spark pools that are available in the workspace.



Apache Spark pools

4. Select + **New** and the new Apache Spark pool create wizard will appear.

5. Enter the following details in the **Basics** tab:

Apache Spark Pool name: Sparkpool01
Node size: Small (4 vCPU / 32 GB)

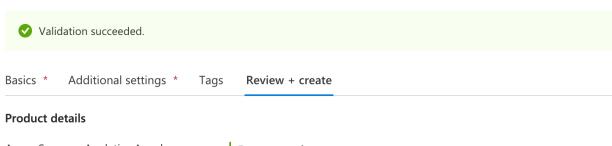
Autoscale: DisabledNumber of Nodes: 8

New Apache Spark pool Basics • Additional settings * Tags Review + create Create an Synapse Analytics Apache Spark 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. Apache Spark pool details Name your Apache Spark pool and choose its initial settings. Apache Spark pool name * SparkPool01 Node size family * Memory Optimized Node size * Small (4 vCores / 32 GB) Autoscale * (i) Disabled Enabled Number of nodes * \odot Estimated price ① Est. cost per hour 1.47 to 3.91 EUR View pricing details

Apache Spark pool create wizard

- 6. In the next tab (Additional settings), leave all settings as defaults.
- 7. We won't add any tags for now, so select **Review + create**.
- 8. In the **Review + create** tab, make sure that the details look correct based on what was previously entered, and press **Create**.

New Apache Spark pool



Azure Synapse Analytics Apache Spark pool by Microsoft Terms of use | Privacy policy Est. cost per hour 1.47 to 3.91 EUR View pricing details

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By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. For additional details see Azure Marketplace Terms

Basics

Subscription MSDN Platforms

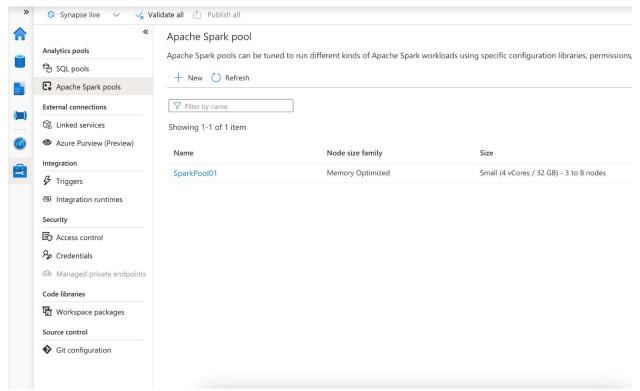
Resource group demorg

Apache Spark pool name SparkPool01



New Apache Spark pool - select Review and create tab

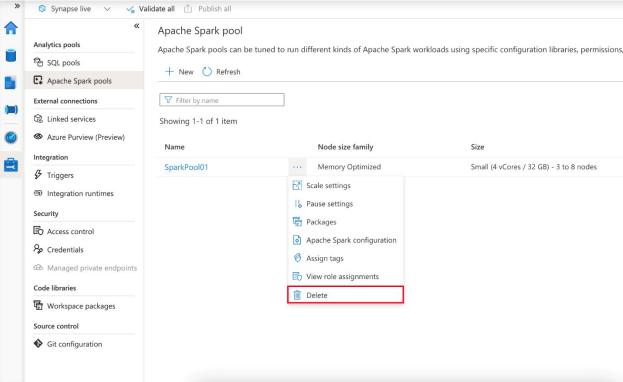
9. The Apache Spark pool will start the provisioning process. Once the provisioning is complete, the new Apache Spark pool will appear in the list.



Apache Spark pool

Delete a pool

- 1. Navigate to the pools in the Management Hub in Synapse Studio. In this case Apache Spark
- 2. Select the ellipsis next to the Apache pool to be deleted (in this case, **Sparkpool01**) to show the commands for the Apache Spark pool.



Delete a SparkPool

- 3. Press Delete.
- 4. Confirm the deletion, and press **Delete** button.
- 5. When the process completes successfully, the Apache Spark pool will no longer be listed in the workspace resources.
- 6. Once completed, repeat steps 1-5 in 'Delete a pool' to delete the Synapse SQL Pool.