

Lab 10: Creating and configuring an Azure Synapse Workspace

Goal

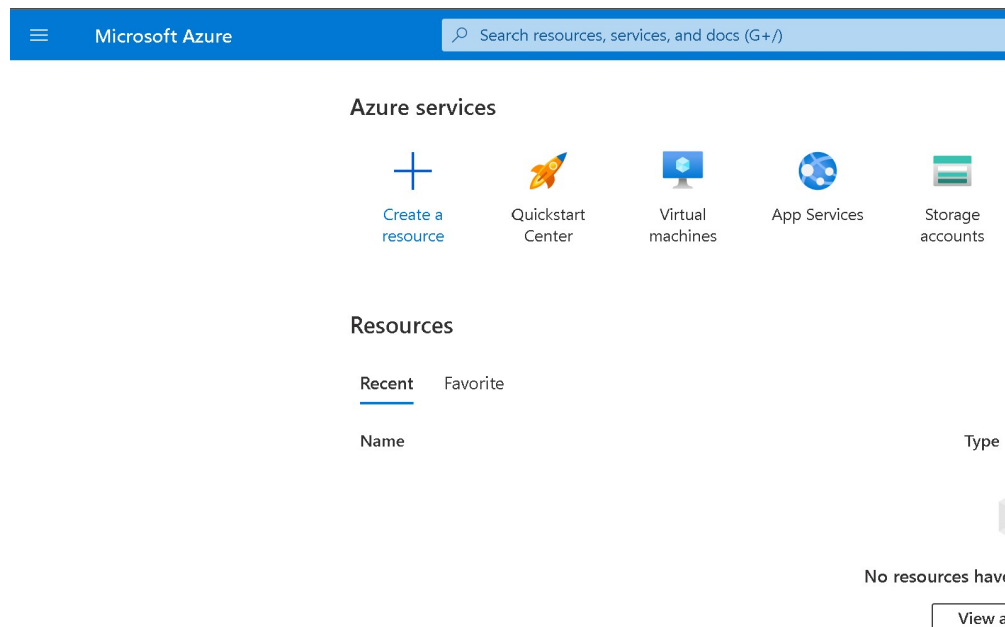
During this lab you will learn how to create an **Azure Synapse workspace** through the Azure Portal

Tasks

Task 1: Creating the Databricks Workspace

Log in to the Azure Portal: <https://portal.azure.com>

When in the portal click on **Create a resource**



Search for *Azure Synapse Analytics* in the search form and press enter

Microsoft Azure

Search resources, services, and docs

Home >

Create a resource

Get Started

Recently created

Categories

AI + Machine Learning

Analytics

Blockchain

Compute

Containers

Databases

Developer Tools

Azure Synapse Analytics

Datometry Hyper-Q for Azure Synapse Analytics

Datometry Hyper-Q for Azure Synapse Analytics

Azure Synapse Analytics

Azure Synapse Analytics (private link hubs)

Create | Docs | MS Learn

Azure Cosmos DB

Create | Docs | MS Learn

Function App

Create | Docs

In the Azure Synapse Analytics resource page description click on *Create*

Microsoft Azure

Search resources, services, and docs (G+)

Home > Create a resource >

Azure Synapse Analytics

Microsoft

Azure Synapse Analytics

Microsoft

★ 3.7 (66 Marketplace ratings) | ★ 3.7 (44 external ratings)

Plan

Azure Synapse Analytics

Create

Overview

Plans

Usage Information + Support

Reviews

Azure Synapse is a limitless analytics service that brings together data integration, enterprise data warehousing, and machine learning. It gives you the freedom to query data on your terms, using either serverless or dedicated resources-at scale. Azure Synapse gives you the experience to ingest, explore, prepare, manage, and serve data for immediate BI and machine learning needs.

In the creation wizard provide the values to create an Azure Synapse Workspace

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Microsoft Azure

Search resources, services, and docs (G+)

Home

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Create a resource

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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 *

Visual Studio Enterprise Subscription

Resource group *

(New) rg-synapse-ws

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 *

asa-workspace-vitaled001

Region *

West Europe

Select Data Lake Storage Gen2 *

From subscription

Manually via URL

Account name *

(New) staasavitaled001

Create new

File system name *

(New) fsstaasavitaled001

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:

Review + create

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Next: Security >

Provide the following values:

Property	Description	Example
Subscription	From the drop-down, select your Azure subscription.	Azure Sponsorship Pass
Resource Group	Create a new resource group. You can use any name you want. A resource group is a container that holds related resources for an Azure solution.	rg-synapse-ws
Workspace name	Provide a name for your Databricks workspace. You can use any name you want	asa-workspace-vitaled001
Region	Select your preferred region	West Europe
Account name	Click on <i>create new</i> and provide a name for a new Storage Account. You can use any name you want but it should be globally unique	staasavitaled001

Property	Description	Example
File system name	Click on <i>create new</i> and provide a name for a new file system in the storage account. You can use any name you want	fsstaasavital001

Click on **Review + Create**

In the next page:

Home > Create a resource > Azure Synapse Analytics >

Create Synapse workspace ...

Validation succeeded

* Basics * Security Networking Tags **Review + create**

Product Details

Azure Synapse Analytics workspace by Microsoft
[Terms of use](#) | [Privacy policy](#)

Serverless SQL est. cost/TB ⓘ
4.22 EUR

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](#).

Basics

Subscription	Visual Studio Enterprise Subscription
Resource group	(new) rg-synapse-ws
Region	West Europe
Workspace name	(new) asa-workspace-vital001
Data Lake Storage Gen2 account	(new) https://staasavital001.dfs.core.windows.net
Data Lake Storage Gen2 file system	(new) fsstaasavital001
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 Azure Active Directory (Azure AD) authentication
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Create

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[Download a template for automation](#)

Click on **Create**

This will start the creation of your workspace. The deployment can take few minutes. When the deployment process finish click on **Go to resource**

Task 2: Launch the Azure Synapse Workspace

After clicking on **Go to resource** you will be brought to the resource group page.

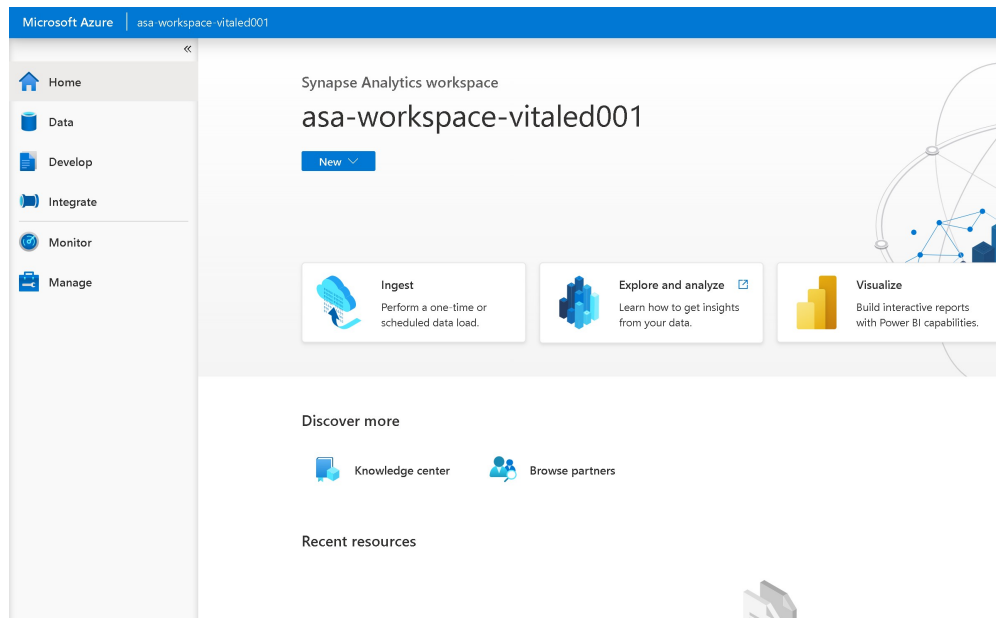
The screenshot shows the Microsoft Azure portal interface. At the top, there's a blue header with the Microsoft Azure logo and a search bar. Below the header, the breadcrumb trail reads: Home > Microsoft.Azure.SynapseAnalytics-20221002221718 | Overview >. The main content area is titled 'rg-synapse-ws' (Resource group). On the left, there's a sidebar with navigation options: Overview (selected), Activity log, Access control (IAM), Tags, Resource visualizer, Events, Settings, Deployments, Security, Policies, Properties, and Locks. The main area displays the 'Essentials' section for the resource group, showing the Subscription (Visual Studio Enterprise Subscription), Subscription ID (07afaf70-c5ba-499c-ac4c-7514fc970bc2), and Tags. Below this, there's a 'Resources' section with a filter bar and a list of resources: 'asa-workspace-vitaled001' and 'staasavitaled001'.

Click on the Azure Synapse Workspace resource (in this example *asa-workspace-vitaled001*)

When in the Azure Synapse Analytics Workspace resource page click on **Open Synapse Studio**

The screenshot shows the Microsoft Azure portal interface for the 'asa-workspace-vitaled001' resource. The breadcrumb trail reads: Home > Microsoft.Azure.SynapseAnalytics-20221002221718 | Overview > rg-synapse-ws >. The main content area is titled 'asa-workspace-vitaled001' (Synapse workspace). On the left, there's a sidebar with navigation options: Overview (selected), Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Azure Active Directory, Properties, Locks, Analytics pools, SQL pools, Apache Spark pools, Data Explorer pools (preview), Security, Encryption, Networking, and Identity. The main area displays the 'Essentials' section for the workspace, showing the Resource group (rg-synapse-ws), Status (Succeeded), Location (West Europe), Subscription (Visual Studio Enterprise Subscription), Subscription ID (07afaf70-c5ba-499c-ac4c-7514fc970bc2), Managed virtual network (No), Managed Identity object (bb3d3d3c-f416-48cb-8c30-3cb96b057dbe), Workspace web URL (https://web.azure.synapse.net/workspace=%2fsubscriptions%2f07afaf70-c...), and Tags. Below this, there's a 'Getting started' section with two cards: 'Open Synapse Studio' (Start building your fully-integrated analytics solution and unlock new insights. Open) and 'Read documentation' (Learn how to be productive quickly. Explore concepts, tutorials, and samples. Learn more). At the bottom, there's an 'Analytics pools' section with a search bar.

You'll be signed in to the Synapse Studio automatically.



Congratulations you're in your Synapse workspace

This Lab has been completed!