

## Lab 01 - Chatting with your data using AI Skills in Microsoft Fabric

### ② Introduction

In this **Azure AI Studio** lab, you use generative AI and prompt flow to build, configure, and deploy a copilot for your retail company called Contoso. Your retail company specializes in outdoor camping gear and clothing.

The copilot should answer questions about your products and services. It should also answer questions about your customers. For example, the copilot can answer questions such as "How much do the TrailWalker hiking shoes cost?" and "How many TrailWalker hiking shoes did Daniel Wilson buy?".

### Objective

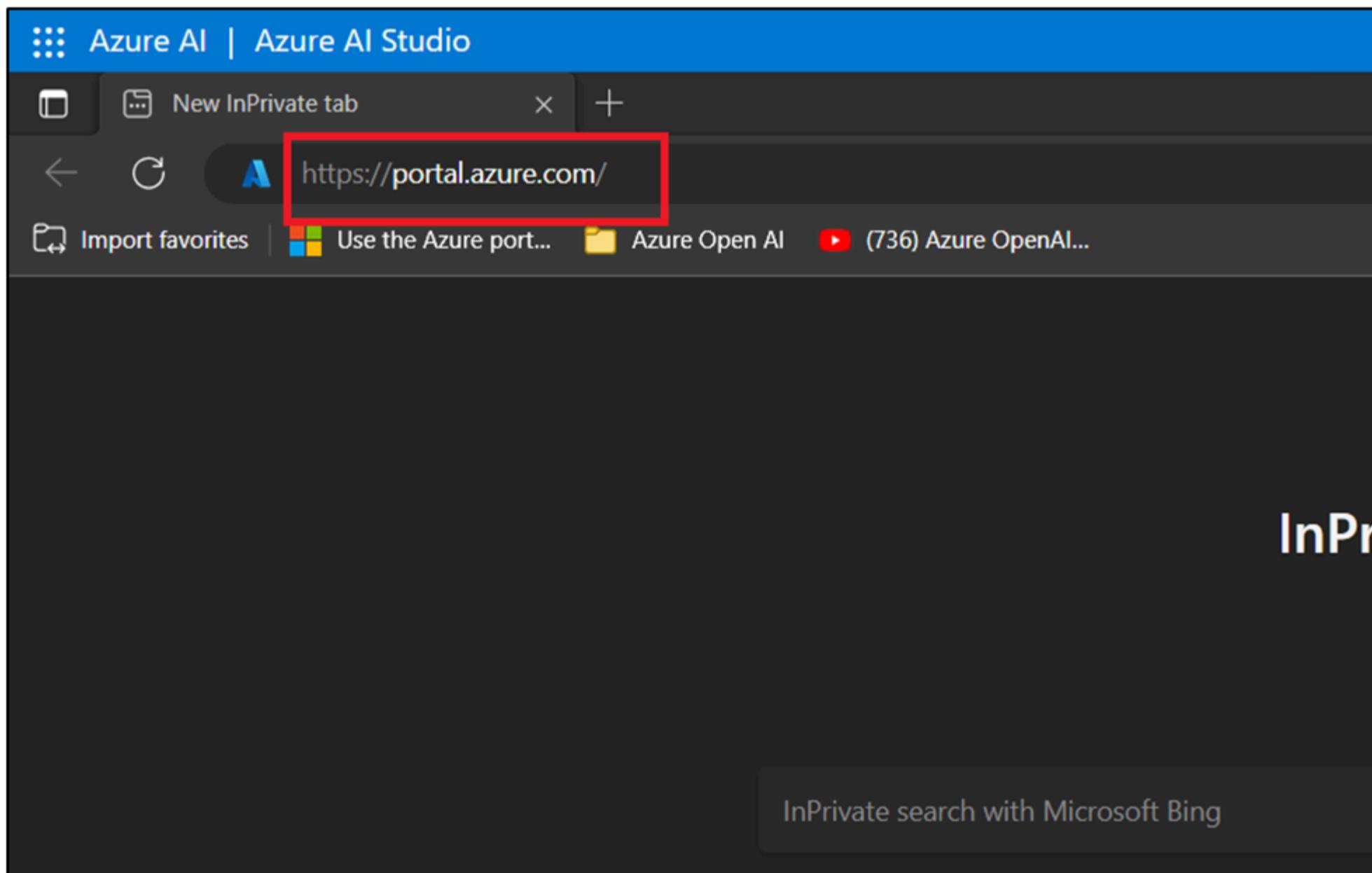
- Create an Azure AI Studio project.
- Deploy an Azure OpenAI model and chat with your data.
- Create a prompt flow from the playground.
- Customize prompt flow with multiple data sources.
- Deploy the flow for consumption.

## Exercise 1 - Create an Azure AI resource and Azure cognitive Search by using the portal

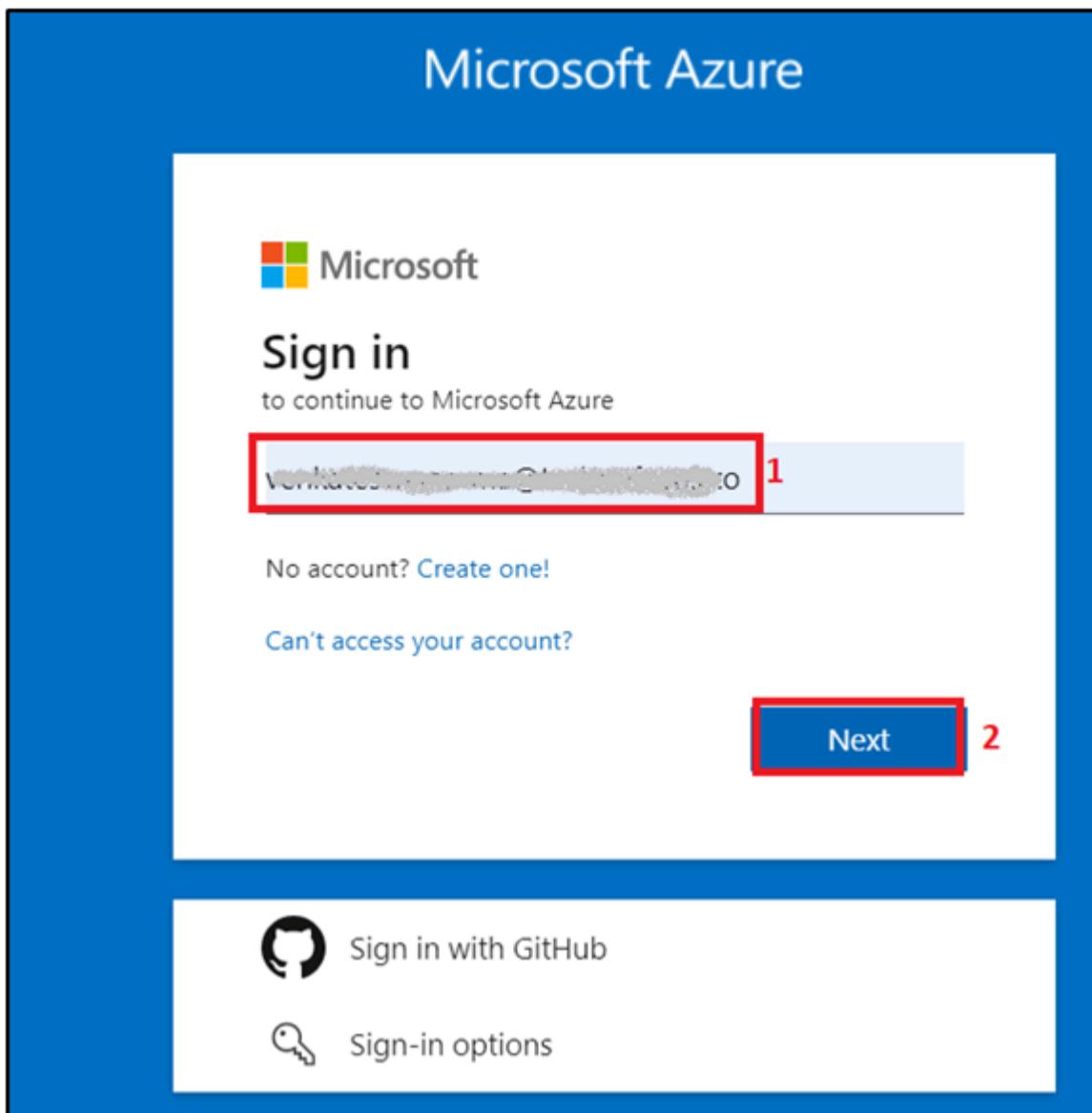
### Task 1: Create a secure Azure AI resource in the Azure portal

② If your organization is using **Azure Policy**, setup a resource that meets your organization's requirements instead of using AI Studio for resource creation.

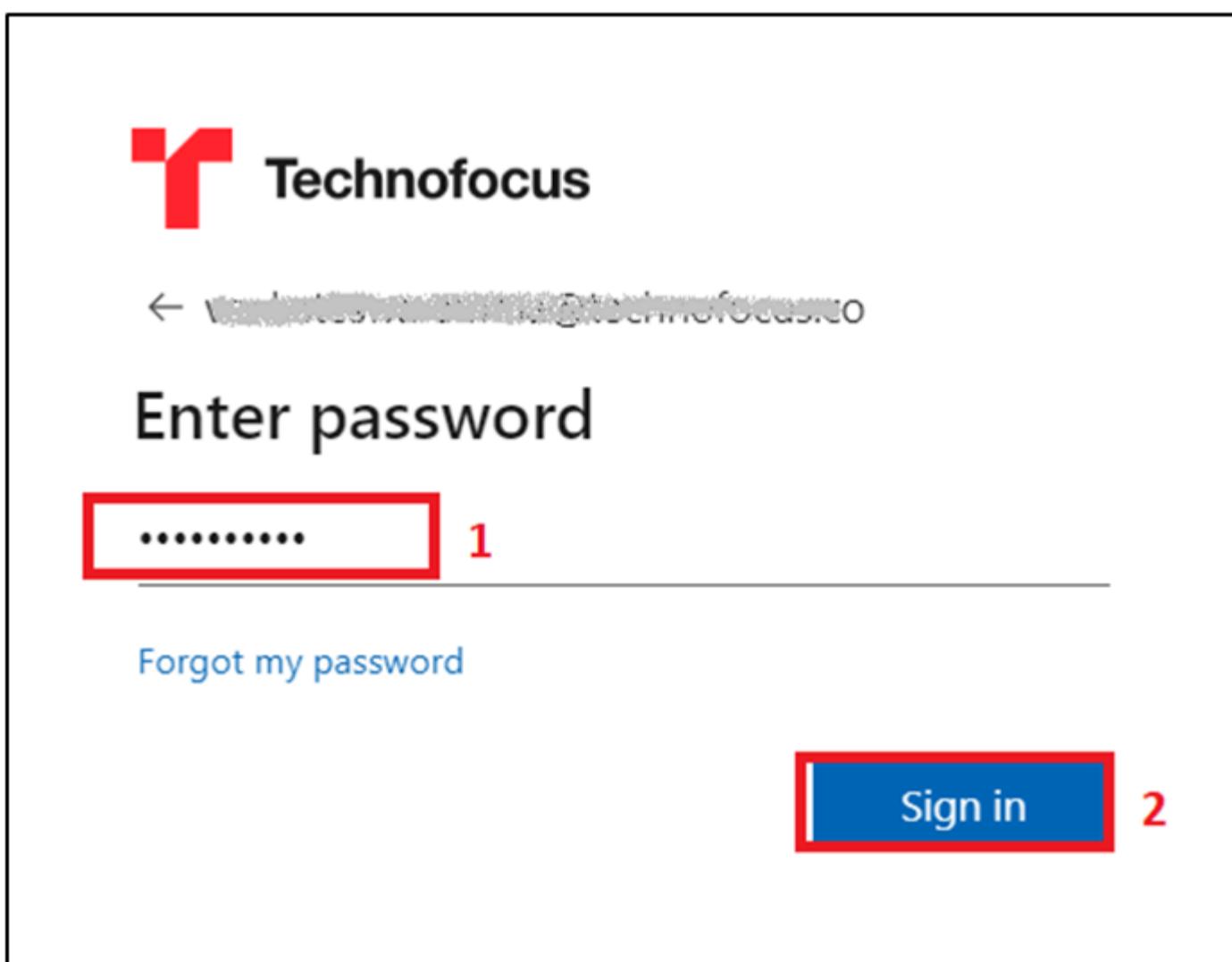
1. Open your browser, navigate to the address bar, and type or paste the following URL:  <https://portal.azure.com>, then press the **Enter** button.



2. In the **Microsoft Azure** window, enter your **Sign-in** credentials, and click on the **Next** button.



3. Then, enter the password and click on the **Sign in** button\*\*.\*\*



4. In **Stay signed in?** window, click on the **Yes** button.



stay signed in? [Technofocus.co](#)

## Stay signed in?

Do this to reduce the number of times you are asked to sign in.

Don't show this again

No

Yes

5. From the Azure portal, search for [Azure AI Studio](#) and click on \*\*Azure AI Studio.\*\*

The screenshot shows the Microsoft Azure portal interface. At the top, there is a search bar with the text "Azure AI Studio" and a magnifying glass icon. Below the search bar, there are several filter tabs: "All" (which is highlighted in blue), "Services (99+)", "Documentation (99+)", "Resources (0)", and "Re...". Under the "Services" heading, there is a list of services. The first item, "Azure AI Studio", has a blue square icon with a white "AI" symbol and is highlighted with a red box. Other services listed include "Azure Cosmos DB", "Azure Database for MySQL servers", "Azure AI services", and "AzureLarge...". Under the "Documentation" heading, there are four links: "What is AI Studio? - Azure AI Studio", "Create an Azure AI project in Azure AI Studio - Azure AI Studio", "Azure AI Studio documentation", and "How to create and manage an Azure AI resource - Azure AI Studio".

6. Select create a new resource by selecting + New Azure AI hub

Microsoft Azure Search resources, services, and docs (G/)

Home > Azure AI Studio ...

TechnofocusWorkshops (technofocus.live) | PREVIEW

+ New Azure AI hub Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Type equals all Resource group equals all Location equals all Add filter

Showing 0 to 0 of 0 records.

Name ↑↓	Resource group ↑↓	Type ↑↓
 <b>No Azure AI Studio to display</b> Your platform to build generative AI solutions and custom copilot		
<a href="#">Learn more</a>		

Field	Description
Subscription	Select your Azure OpenAI subscription
Resource group	Click on Create new> enter <b>AI-FabricRGXXX</b> (XXX can be a unique number, you can add more digits after XX to make the name unique)
Region	East US2
Name	Copilot-AzureAIXX (XXcan be unique number)

7. On the **Azure AI** Create a search service page, provide the following information and click on **Next: Storage** button.

# Azure AI hub

Create an Azure AI hub resource

[Basics](#)   [Storage](#)   [Networking](#)   [Encryption](#)   [Identity](#)   [Tags](#)   [Review + create](#)

## Organization

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources. An AI hub is a collaboration environment for a team to share project work, model endpoints, compute, (data) connections, security settings, govern usage.

Subscription \* ⓘ

Azure Pass - Sponsorship 1

Resource group \* ⓘ

[Create new](#) 2

Region \* ⓘ

A resource group is a container that holds related resources for an Azure solution.

## Resource details

Name \* ⓘ

Name \*

AI-FabricRG89! 3

Friendly name ⓘ

[OK](#)[Cancel](#) 4

Default project resource group ⓘ

## Azure AI services base models

Connect AI Services incl. OpenAI \* ⓘ

[Create new](#)[Review + create](#)[< Previous](#)[Next : Storage](#)

[Home](#) > [Azure AI Studio](#) >

## Azure AI hub

Create an Azure AI hub resource

[Basics](#)   [Storage](#)   [Networking](#)   [Encryption](#)   [Identity](#)   [Tags](#)   [Review + create](#)

### Organization

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources. An AI hub is a collaboration environment for a team to share project work, model endpoints, compute, (data) connections, security settings, govern usage.

Subscription \* ⓘ

Azure Pass - Sponsorship

Resource group \* ⓘ

(New) AI-FabricRG891

[Create new](#)

Region \* ⓘ

East US 2

### Resource details

Name \* ⓘ

Copilot-AzureAI786



Friendly name ⓘ

Copilot AzureAI786

Default project resource group ⓘ



### Azure AI services base models

Connect AI Services incl. OpenAI \* ⓘ

(new) copilotazureai1917812421

[Create new](#)[Review + create](#)[< Previous](#)[Next : Storage](#)

8. In the **Storage** tab, leave all in the default state, and click on the **Next: Networking** button.

[Home](#) > [Azure AI Studio](#) >

## Azure AI hub

[Create an Azure AI hub resource](#)[Basics](#)    [\*\*Storage\*\*](#)    [Networking](#)    [Encryption](#)    [Identity](#)    [Tags](#)    [Review + create](#)**Configure how your data is stored**

As users work in Azure AI Studio, uploaded data, stored credentials and generated artifacts like logs are stored.

Storage account \* ⓘ

(new) copilotazureai7841772229

[Create new](#)

Key vault \* ⓘ

(new) copilotazureai9488887115

[Create new](#)**Logs and docker images**

Application insights \* ⓘ

(new) copilotazureai9234991847

[Create new](#)

Container registry ⓘ

None

[Create new](#)[Review + create](#)[< Previous](#)[Next : Networking](#)

9. In the **Networking** tab, select the Public radio buttons, and click on the **Next: Encryption** button.

[Home > Azure AI Studio >](#)

## Azure AI hub

[Create an Azure AI hub resource](#)[Basics](#)   [Storage](#)   [Networking](#)   [Encryption](#)   [Identity](#)   [Tags](#)   [Review + create](#)

### Network isolation

Projects associated to an Azure AI hub share network, and can access resources in your virtual network without additional configuration. Choose the type of network isolation you need, from not isolated at all to an entirely separate virtual network managed by Azure Machine Learning. [Learn more about managed network isolation](#)

#### Public

- Workspace is accessed via public endpoint
- Compute can access public resources
- Outbound data movement is unrestricted

#### Private with Internet Outbound

- Workspace is accessed via private endpoint
- Compute can access private resources
- Outbound data movement is unrestricted

#### Private with Approved Outbound

- Workspace is accessed via private endpoint
- Compute can access allowlisted resources only
- Outbound data movement is restricted to approved targets

[Review + create](#)[< Previous](#)[Next : Encryption](#)

10. In the **Encryption** tab, click the check box on **Microsoft-managed keys**, and click on the \*\*Next: Identity \*\*button.

[Home > Azure AI Studio >](#)

## Azure AI hub

...

[Create an Azure AI hub resource](#)[Basics](#)[Storage](#)[Networking](#)[Encryption](#)[Identity](#)[Tags](#)[Review + create](#)

### Data encryption

Azure Machine Learning service stores metrics and metadata in an Azure Cosmos DB instance where all data is encrypted at rest. By default, the data is encrypted with Microsoft-managed keys. You may choose to bring your own (customer-managed) keys.

Encryption type [\(i\)](#) Microsoft-managed keys Customer-managed keys

When using a customer-managed key, the costs for your subscription will be higher because of the additional resources in your subscription. To estimate the cost, use the Azure pricing calculator. To learn more, see [Use customer-managed keys - Azure Machine Learning | Microsoft Docs](#)

[Review + create](#)[< Previous](#)[Next : Identity](#)

11. In the **Identity** tab, leave all the fields in the default state, and click on the \*\*Review+create \*\*button.

[Home](#) > [Azure AI Studio](#) >

## Azure AI hub

...

Create an Azure AI hub resource

[Basics](#)   [Storage](#)   [Networking](#)   [Encryption](#)   [Identity](#)   [Tags](#)   [Review + create](#)

### Managed identity

A managed identity enables Azure resources to authenticate to cloud services without storing credentials in code. Once enabled, all necessary permissions can be granted via Azure role-based access control. A workspace can be given either a system assigned identity or a user assigned identity.

Identity type

- System assigned identity  
 User assigned identity

**⚠** The managed user assigned identity option is only supported if an existing storage account, key vault, and container registry are used.

[Review + create](#)[< Previous](#)[Next : Tags](#)

12. In the **Review+submit** tab, once the Validation is Passed, click on the **Create** button.

## Azure AI hub

...

Create an Azure AI hub resource

 Validation passed

Basics Storage Networking Encryption Identity Tags **Review + create**

### Basics

Subscription Azure Pass - Sponsorship  
Resource group (New) AI-FabricRG891  
Name Copilot-AzureAI786

### Resources

Region East US 2  
AI Services (new) copilotazureai1917812421  
Storage account (new) copilotazureai6505650462  
Key vault (new) copilotazureai5095918047  
Application insights None  
Container registry None

### Networking

Connectivity method Enable public access from all networks  
Network isolation Public

### Encryption

**Create**

< Previous

Next >

Download a template for automation

13. After the deployment is completed, click on the **Go to resource** button.

Microsoft Azure

Search resources, services, and docs (G)

Home >

# Microsoft.MachineLearningServices | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

- Overview
- Inputs
- Outputs
- Template

Your deployment is complete

Deployment name : Microsoft.MachineLearningServices  
Subscription : Azure Pass - Sponsorship  
Resource group : AI-FabricRG891

Deployment details

Next steps

Go to resource

This screenshot shows the Microsoft Azure Machine Learning Services Overview page. At the top, there's a search bar and a set of global navigation icons. Below the title, there's a deployment summary with a green checkmark icon. It lists the deployment name as 'Microsoft.MachineLearningServices', the subscription as 'Azure Pass - Sponsorship', and the resource group as 'AI-FabricRG891'. There are two main sections below: 'Deployment details' and 'Next steps'. A prominent blue button at the bottom right says 'Go to resource'.

## Task 2: Role-based access control in Azure AI Studio

1. In your Copilot-AzureAI window, from the left menu, click on the **Access control(IAM)**.

Microsoft Azure

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

Home > Microsoft.MachineLearningServices | Overview >

# copilot-AzureAI

Azure AI

Search Download config.json Delete

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Events

Resource group : AOAI-RG678  
Location : East US  
Subscription : Azure Pass - Sponsorship  
Subscription ID : f9f437cb-ce7b-4309-a46e-26197e68ddf8  
Key Vault : copilotazureai5970317065

Govern the environment for your team in AI Studio

Your Azure AI resource provides enterprise-grade security, audit usage and cost, and set up connections to your comp Azure AI Studio

Launch Azure AI Studio

### Keys and Endpoints

This screenshot shows the 'copilot-AzureAI' resource in the Azure portal. The left sidebar has several options: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Events, Projects, Networking, Keys and Endpoints, Properties, and Locks. The 'Access control (IAM)' option is highlighted with a red border. To the right, there's a summary section with resource group, location, subscription, subscription ID, and key vault information. Below this, there's a section titled 'Govern the environment for your team in AI Studio' with a 'Launch Azure AI Studio' button. At the bottom, there's a 'Keys and Endpoints' section.

2. On the Access control(IAM) page, Click +Add and select **Add role assignments**.

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

Home > Microsoft.MachineLearningServices | Overview > copilot-AzureAI

## copilot-AzureAI | Access control (IAM)

Azure AI

Search Add Download role assignments Edit columns ...

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Events

My access View my access

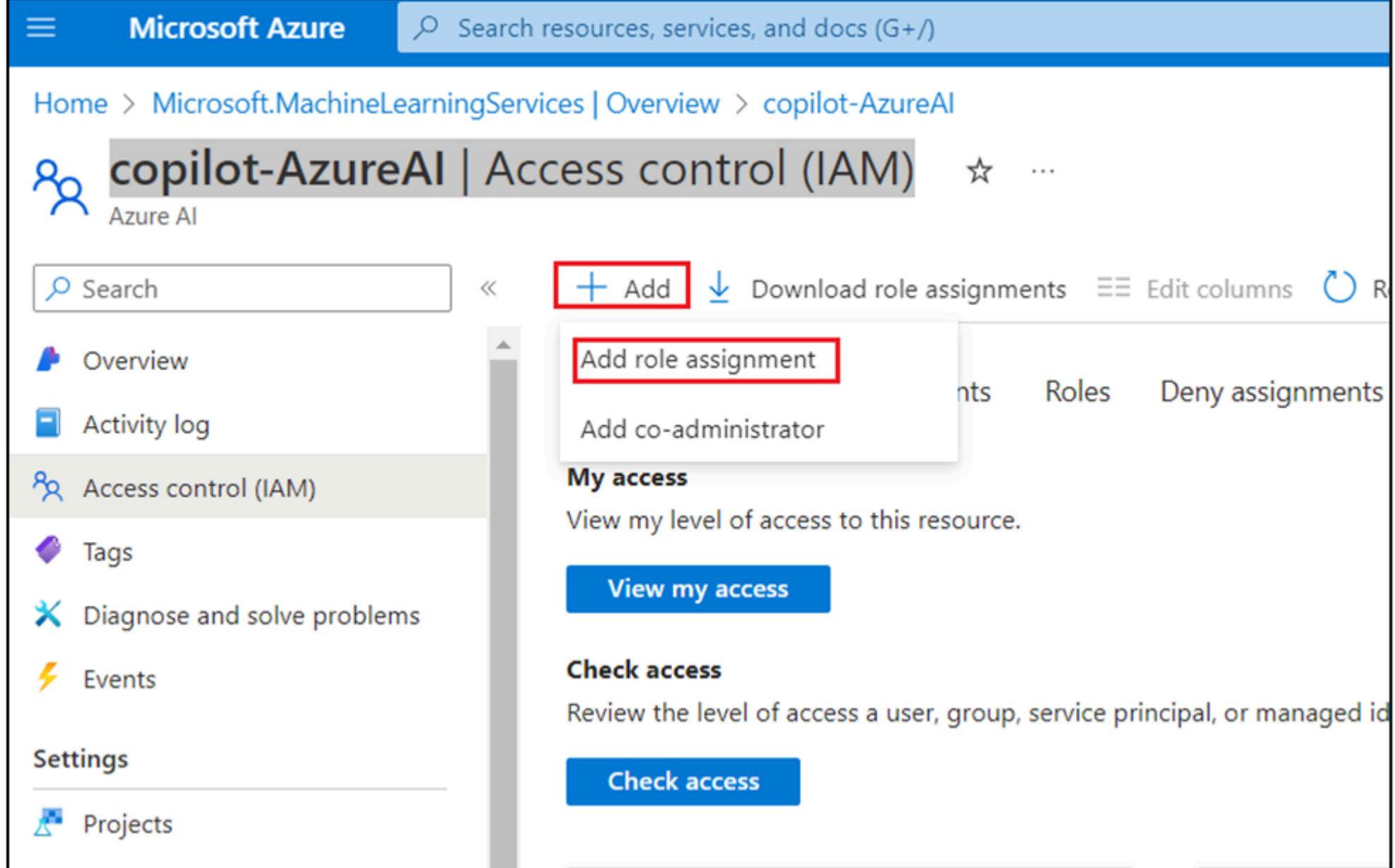
Check access Review the level of access a user, group, service principal, or managed identity has to this resource.

Check access

Settings Roles Deny assignments

Add role assignment Add co-administrator

Projects



3. In **Privileged administrator role**, type the **contributor** in the search box and select it. Click **Next**

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

Home > copilot-AzureAI | Access control (IAM) >

## Add role assignment

Role Members Review + assign

A role definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. [Learn more](#)

Assignment type

Job function roles Privileged administrator roles

Grant privileged administrator access, such as the ability to assign roles to other users.

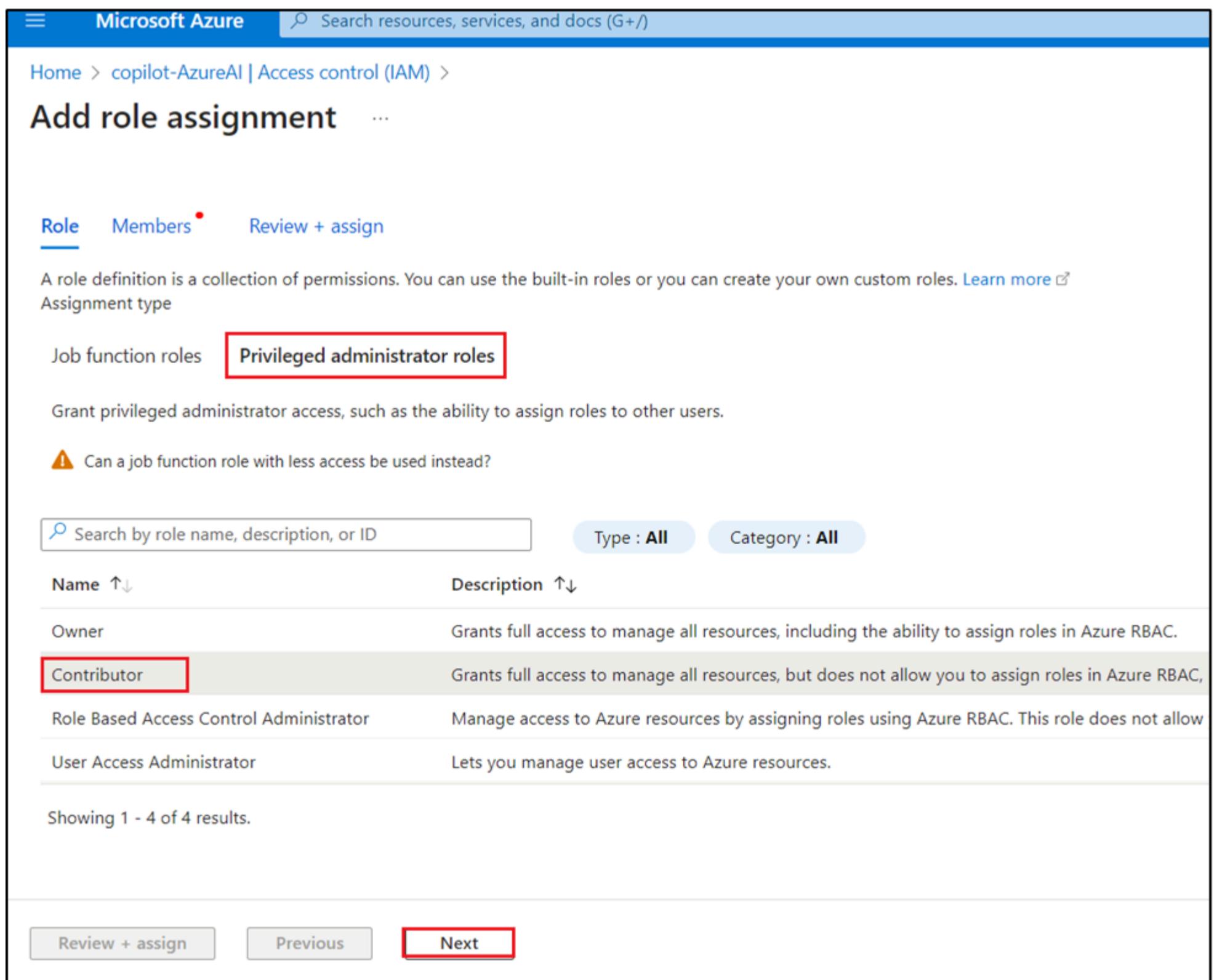
⚠️ Can a job function role with less access be used instead?

Search by role name, description, or ID Type : All Category : All

Name ↑↓	Description ↑↓
Owner	Grants full access to manage all resources, including the ability to assign roles in Azure RBAC.
Contributor	Grants full access to manage all resources, but does not allow you to assign roles in Azure RBAC.
Role Based Access Control Administrator	Manage access to Azure resources by assigning roles using Azure RBAC. This role does not allow
User Access Administrator	Lets you manage user access to Azure resources.

Showing 1 - 4 of 4 results.

Review + assign Previous Next



4. In the **Add role assignment** tab, select Assign access to User group or service principal. Under Members, click **+Select members**

## Add role assignment

Role    **Members** •    Review + assign

**Selected role**    Contributor

**Assign access to**     User, group, or service principal  
 Managed identity

**Members**    [+ Select members](#)

Name	Object ID	Type
No members selected		

**Description**    Optional

[Review + assign](#)    [Previous](#)    [Next](#)

5. On the Select members tab , search your Azure OpenAI subscription and click **Select**.

## Select members

X

Select ⓘ

aoaitf231393

No users, groups, or service principals found.

Selected members:



AOAI User 291409  
aoaitf231393@technofocus.live

Remove

Activate Windows

Go to Settings to activate Windows.

Select

Close

6. In the **Add role assignment** page, Click **Review + Assign**, you will get a notification once the role assignment is complete.

## Add role assignment

Role    **Members**    Review + assign

**Selected role**    Contributor

**Assign access to**     User, group, or service principal  
 Managed identity

**Members**    [+ Select members](#)

Name	Object ID	Type
AOAI User 291503	867f6141-778d-48e9-9bde-3ad5bba96...	User

**Description**    Optional

[Review + assign](#)

[Previous](#)

[Next](#)

## Add role assignment

## Role Members Review + assign

**⚠️** Can a job function role with less access be used instead?

**Scope** /subscriptions/f9f437cb-ce7b-4309-a46e-26197e68ddf8/resourceGroups/AOAI-RG678/providers/Microsoft.Machi

## Members

Name \_\_\_\_\_

## Object ID

AOAI User 291503

867f6141-778d-48e9-9bde-3ad5bba9679b

### Description

No description

**Review + assign**

[Previous](#)

Next

7. In your **Copilot-AzureAI** window, from the left menu, click on the **Access control(IAM)**.

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

Home > Microsoft.MachineLearningServices | Overview >

# copilot-AzureAI

Azure AI

Search Download config.json Delete

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Events

Resource group : AOAI-RG678  
Location : East US  
Subscription : Azure Pass - Sponsorship  
Subscription ID : f9f437cb-ce7b-4309-a46e-26197e68ddf8  
Key Vault : copilotazureai5970317065

Govern the environment for your team in AI Studio

Your Azure AI resource provides enterprise-grade security, audit usage and cost, and set up connections to your comp  
Azure AI Studio

Launch Azure AI Studio

Keys and Endpoints

The Azure AI resource provides enterprise-grade security, audit usage and cost, and set up connections to your comp

8. On the Access control(IAM) page, Click +Add and select Add role assignments.

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

Home > Microsoft.MachineLearningServices | Overview > copilot-AzureAI

# copilot-AzureAI | Access control (IAM)

Azure AI

Search + Add Download role assignments Edit columns R

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Events

Add role assignment

Add co-administrator

My access

View my access

Check access

Review the level of access a user, group, service principal, or managed id

Check access

9. Type the **Azure AI Developer** in the search box and select it. Click **Next**

## Add role assignment

**Role \*** Members \* Review + assign

A role definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. [Learn more](#) ↗  
Assignment type

**Job function roles** Privileged administrator roles

Grant access to Azure resources based on job function, such as the ability to create virtual machines.

<input type="text"/> Azure AI Developer <b>1</b>	<input type="button"/> X	Type : All	Category : All
Name ↑↓	Description ↑↓		
Azure AI Developer <b>2</b>	Can perform all actions within an Azure AI resource besides managing the resource itself.		

Showing 1 - 1 of 1 results.

Review + assign

Previous

Next **3**

10. In the **Add role assignment** tab, select Assign access to User group or service principal. Under Members, click **+Select members**

## Add role assignment

Role

Members \*

Review + assign

Selected role

Cognitive Services Contributor

Assign access to

User, group, or service principal

Managed identity

Members

[+ Select members](#)

Name

Object ID

Type

No members selected

Description

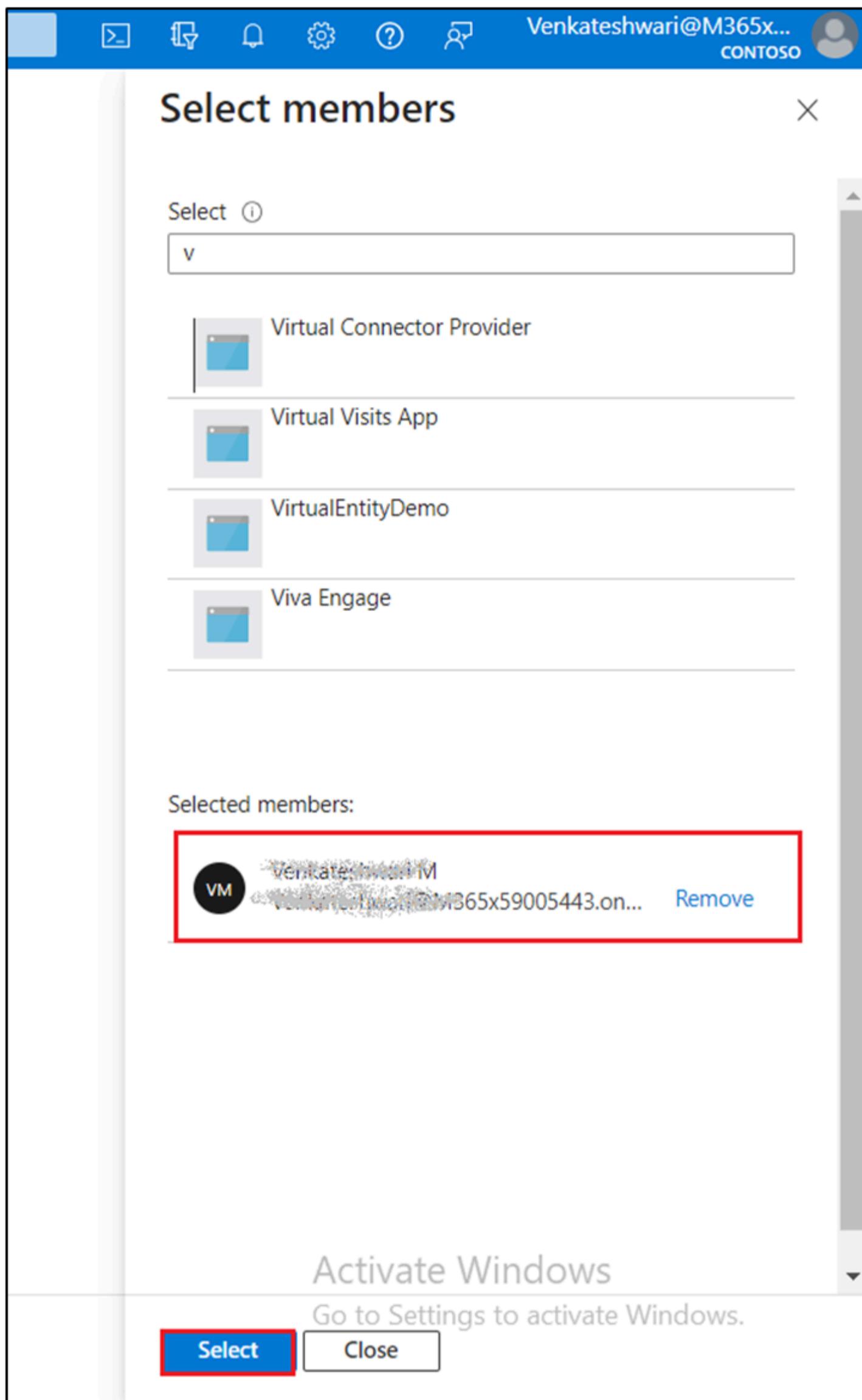
Optional

[Review + assign](#)

[Previous](#)

[Next](#)

11. On the Select members tab , search your Azure OpenAI subscription and click **Select**.



12. In the **Add role assignment** page, Click **Review + Assign**, you will get a notification once the role assignment is complete.



## Add role assignment

...

Role    **Members**    Review + assign

**Selected role**    Azure AI Developer

**Assign access to**     User, group, or service principal  
 Managed identity

**Members**    [+ Select members](#)

Name	Object ID
[REDACTED]	2eb9fd38-b5ad-4909-87d9-456562014...

**Description**   

**Review + assign**

[Previous](#)

[Next](#)



## Add role assignment

...

[Role](#)   [Members](#)   [Review + assign](#)**Role** Azure AI Developer**Scope** /subscriptions/4bfea773-b260-4285-9f48-70c15d6ae677/resourceGroups/A**Members**

Name

Object ID

Azure AD administrator

2eb9fd38-b5ad-

**Description**

No description

[Review + assign](#)[Previous](#)[Next](#)

13. You will see a notification -- added as Azure AI Developer for Azure-openai-testXX

The screenshot shows the Microsoft Azure Notifications page. At the top, there are several icons: a square with a checkmark, a gear, a bell, a question mark, and a user profile. The user's email address, "dawiniv@msn.com", is displayed next to the profile icon. Below the header, the word "Notifications" is prominently displayed in large black font, followed by a close button "X". Underneath, there is a link "More events in the activity log →" and a "Dismiss all" button with a dropdown arrow. A single notification is listed: a green checkmark icon followed by the text "Added Role assignment". To the right of this text is another "X" icon. The notification message states, "was added as Azure AI Developer for Azure-openai-test291.", with the timestamp "a few seconds ago" at the bottom.

### Task 3: Create an Azure AI Search service in the portal

1. In Azure portal home page, click on **+ Create Resource**.

The screenshot shows the Microsoft Azure portal home page. The URL in the address bar is "portal.azure.com/#home". The top navigation bar includes the Microsoft Azure logo, a search bar, and various navigation icons. Below the navigation bar, the "Azure services" section is visible, featuring a "Create a resource" button (which has a red box drawn around it), "Resource groups", "Virtual machines", "Azure OpenAI", "Cognitive Services", "Subscriptions", and "Azure Synapse Analytics". The "Resources" section below shows a table of recent resources. The "Recent" tab is selected. The table has columns for "Name" and "Type". The data is as follows:

Name	Type
MyOpenAIResource123	Azure OpenAI
OAIResourceGroup1	Resource group
Devuser12TFN1	Subscription
CSStorage-RG	Resource group

2. In the **Create a resource** page search bar, type **Azure AI Search** and click on the appeared **azure ai search**.

Microsoft Azure

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

Home > Create a resource ...

Get Started

Azure AI Search

Recently created

Categories

AI + Machine Learning

Virtual machine

Create | Docs | MS Learn

Analytics

Web App

Create | Docs | MS Learn

Blockchain

SQL Database

Create | Docs | MS Learn

Compute

Containers

Databases

Developer Tools

Function App

Create | Docs

Getting Started? Try our Quickstart center

Popular Marketplace

Windows

Ubuntu

Windows

Ubuntu

Ubuntu

Ubuntu

This screenshot shows the Microsoft Azure 'Create a resource' interface. In the search bar at the top, 'Azure AI Search' is typed. Below the search bar, there's a list of service categories like AI + Machine Learning, Analytics, Blockchain, Compute, Containers, Databases, and Developer Tools. Under 'AI + Machine Learning', 'Virtual machine' is listed with 'Create | Docs | MS Learn' links. Other categories like 'Analytics' and 'Compute' also have their respective service options listed.

3. Click on **azure ai search** section.

Microsoft Azure

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

Home > Create a resource >

Marketplace ...

Get Started

Service Providers

Management

Private Marketplace

Private Offer Management

My Marketplace

Favorites

Recently created

Private plans

Categories

AI + Machine Learning (23)

Analytics (6)

azure cognitive search

Pricing : All X

Operating System : All X

Publisher Type : All X

Azure services only

Product Type : All X

Publisher name : All X

Showing 1 to 20 of 33 results for 'azure cognitive search'. [Clear search](#)

BA Insight

Free trial

BA Insight for Azure Cognitive Search

BA-Insight - Global HQ (Boston)

SaaS

Create AI-Driven Connected & Personalized Search Experiences for Employees, Customers & Web Visitors

Starts at Free

Subscribe ▾

Azure Cognitive Search solution for Sentinel

Microsoft Sentinel, Microsoft Co...

Azure Application

Azure Cognitive Search solution for Sentinel

Price varies

Create ▾

Azure AI Search

Microsoft

Azure Service

AI-powered cloud search service for mobile and web app development (formerly Azure Search)

Create ▾

Activate Windows

Go to Settings to activate Windows

Activate Windows

This screenshot shows the Microsoft Azure Marketplace search results for 'azure cognitive search'. The search bar at the top contains 'azure cognitive search'. Below the search bar, there are several filters: 'Pricing : All X', 'Operating System : All X', 'Publisher Type : All X', and a checked 'Azure services only' checkbox. The results section shows three items: 'BA Insight for Azure Cognitive Search' by BA-Insight - Global HQ (Boston), 'Azure Cognitive Search solution for Sentinel' by Microsoft Sentinel, Microsoft Co..., and 'Azure AI Search' by Microsoft. The 'Azure AI Search' item is highlighted with a red border. At the bottom right, there are 'Create' and 'Activate Windows' buttons.

4. In the **Azure AI Search** page, click on the **Create** button.

Microsoft Azure  Search resources, services, and docs (G+)

Home > Create a resource > Marketplace >

## Azure AI Search

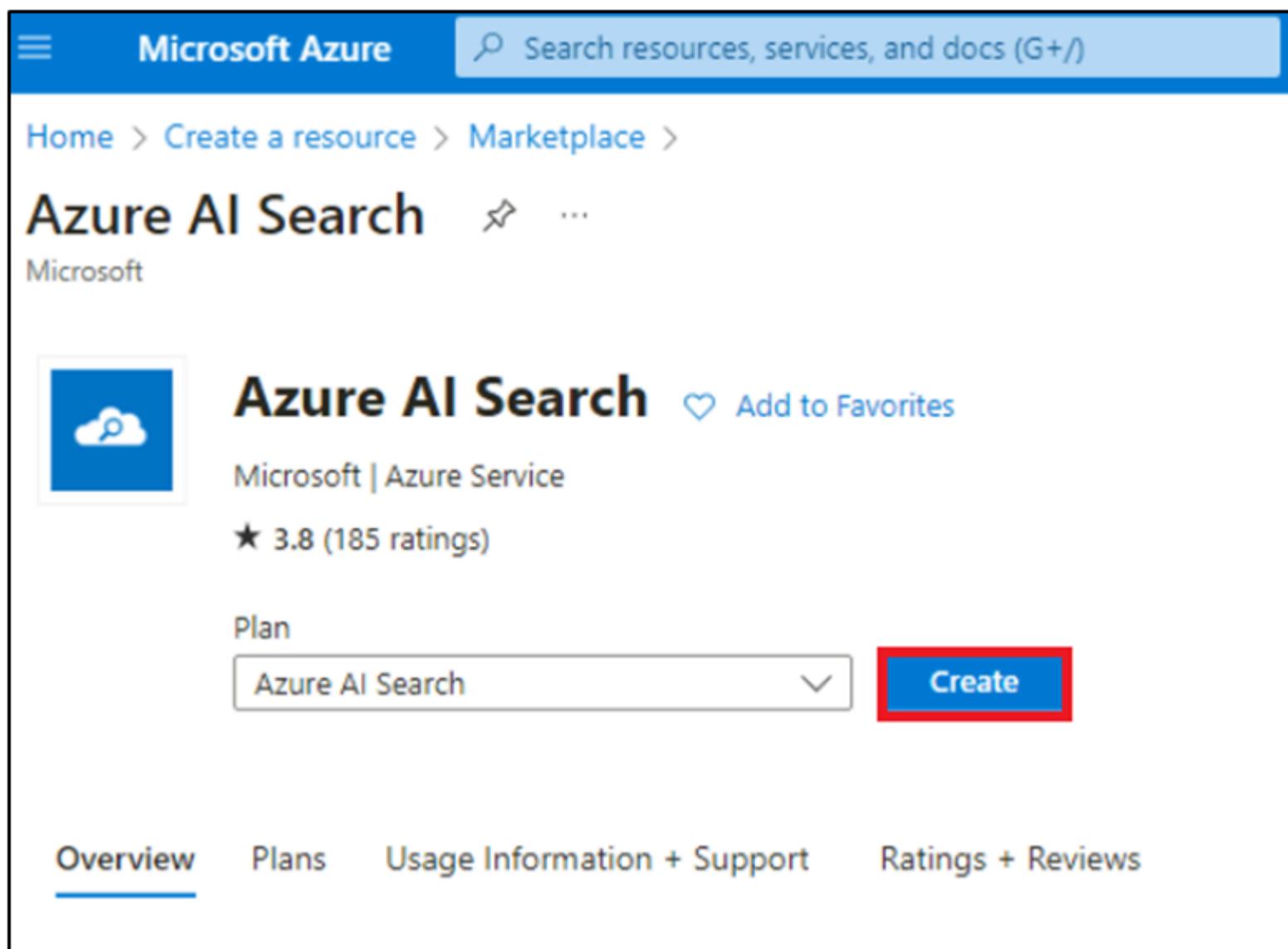
Microsoft

 **Azure AI Search** Add to Favorites

Microsoft | Azure Service 3.8 (185 ratings)

Plan Azure AI Search Create

**Overview** Plans Usage Information + Support Ratings + Reviews



5. On the **Create a search service** page, provide the following information and click on **Review+create** button.

Field	Description
Subscription	Select your Azure OpenAI subscription
Resource group	Select your Resource group(that you have created in <b>Task 1</b> )
Region	EastUS 2
Name	mysearchserviceXX (XXcan be unique number)
Pricing Tier	Click on change Price Tire>select <b>Basic</b>

Home > Azure AI services | AI Search >

## Create a search service

Basics Scale Networking Tags Review + create

**Project details**

Subscription \* Azure Pass - Sponsorship 1

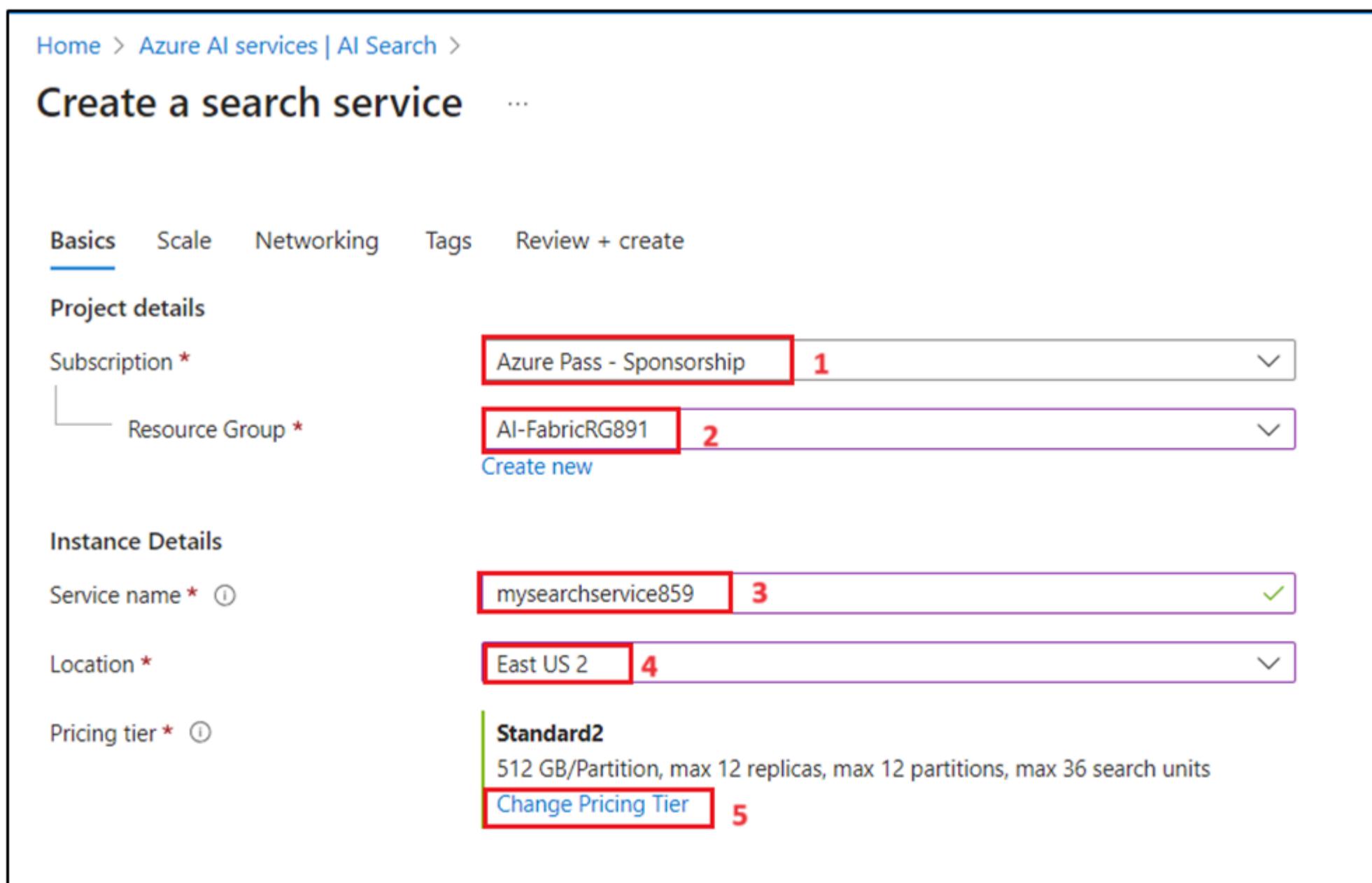
Resource Group \* AI-FabricRG891 2 Create new

**Instance Details**

Service name \* mysearchservice859 3 ✓

Location \* East US 2 4

Pricing tier \* Standard2  
512 GB/Partition, max 12 replicas, max 12 partitions, max 36 search units  
Change Pricing Tier 5



## Select Pricing Tier

Browse available skus and their features

Sku	Offering	Indexes	Indexers	Storage	Search units	Replicas	Partition
F	Free	3	3	50 MB	1	1	1
B	Basic	15	15	2 GB	3	3	1
S	Standard	50	50	25 GB/Partition*	36	12	12
S2	Standard	200	200	100 GB/Partition*	36	12	12
S3	Standard	200	200	200 GB/Partition*	36	12	12
S3HD	High-density	1000	0	200 GB/Partition*	36	12	3
L1	Storage Optimized	10	10	1 TB/Partition*	36	12	12
L2	Storage Optimized	10	10	2 TB/Partition*	36	12	12

Select

Prices presented are estimates in your local currency that include only Azure infrastructure costs and any discounts for the subscription. Prices do not include any applicable software costs. Final charges will appear in your local currency in cost analysis and billing views. [View Azure pricing details](#)

[Home](#) > [Azure AI services | AI Search](#) >

## Create a search service

[Basics](#)   [Scale](#)   [Networking](#)   [Tags](#)   [Review + create](#)

### Project details

Subscription \*

Azure Pass - Sponsorship

Resource Group \*

AI-FabricRG891

[Create new](#)

### Instance Details

Service name \* ⓘ

mysearchservice859

Location \*

East US 2

Pricing tier \* ⓘ

**Basic**

15 GB/Partition, max 3 replicas, max 3 partitions, max 9 search units

[Change Pricing Tier](#)[Review + create](#)[Previous](#)[Next: Scale](#)

6. Once the Validation is passed, click on the **Create** button.

[Home](#) > [Azure AI services | AI Search](#) >

## Create a search service

Validation Success

[Basics](#)   [Scale](#)   [Networking](#)   [Tags](#)   [Review + create](#)

### Basics

Subscription	Azure Pass - Sponsorship
Resource Group	AI-FabricRG891
Location	East US 2
Service name	(new) mysearchservice859
Pricing tier	basic (15 GB/Partition, max 3 replicas, max 3 partitions, max 9 search units)
Estimated cost per month	\$75.14

### Scale

Replicas	1
Partitions	1

### Networking

Endpoint connectivity (data)	Public
------------------------------	--------

[Create](#)

[Previous](#)

[Next](#)

[Download a template for automation](#)

7. After the deployment is completed, click on the **Go to resource** button.

**Microsoft Azure**

Home > search-service-mysearchservice859 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

✓ Your deployment is complete

Deployment name : search-service-mysearchservice859  
Subscription : Azure Pass - Sponsorship  
Resource group : AI-FabricRG891

Start time : 7/12/2024, 11:31:54 AM  
Correlation ID : 1f8066b2-2f29-491e-bad2-6dd62b0c75a2

> Deployment details  
▼ Next steps

Go to resource

Give feedback  
Tell us about your experience with deployment

This screenshot shows the Microsoft Azure Deployment Overview page for a resource named 'search-service-mysearchservice859'. The deployment is marked as complete. Key details include the deployment name, subscription information (Azure Pass - Sponsorship), and resource group (AI-FabricRG891). The start time is listed as 7/12/2024, 11:31:54 AM, and the correlation ID is 1f8066b2-2f29-491e-bad2-6dd62b0c75a2. The page also includes links for deployment details, next steps, and resource navigation.

8. In the **mysearchserviceXX** Overview page. In the left-side navigation pane, under **Settings** section, select **Semantic ranker**.

**Microsoft Azure**

Home > search-service-mysearchservice859 | Overview >

**mysearchservice859** ★ ...

Search service

Search Add index Import data Import and vectorize data Search explorer

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Search management Indexes Indexers Data sources Aliases Skillsets Debug sessions Settings Semantic ranker Knowledge Center Keys Scale Search traffic analytics Identity Networking

Essentials

Resource group (move) : AI-FabricRG891  
Location (move) : East US 2  
Subscription (move) : Azure Pass - Sponsorship  
Subscription ID : 0c08b20f-9ce4-4949-80d7-79381006f4ae  
Status : Running  
Tags (edit) : Add tags

Get started Properties Usage Monitoring

Rev Don't know

Connect your data

Start here to import your data. Learn how to quickly connect to your data to build your first search index. [Learn more](#)

This screenshot shows the Microsoft Azure Search service Overview page for a resource named 'mysearchservice859'. The left sidebar navigation includes sections like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Search management, Indexes, Indexers, Data sources, Aliases, Skillsets, Debug sessions, Settings, Semantic ranker, Knowledge Center, Keys, Scale, Search traffic analytics, Identity, and Networking. The 'Semantic ranker' option is highlighted with a red box. The main content area displays basic resource details such as Resource group, Location, Subscription, Subscription ID, Status, and Tags, along with tabs for Get started, Properties, Usage, and Monitoring. A 'Connect your data' section is present at the bottom right.

9. On the **Semantic ranker tab**, select **Standard** tile and click on the **Select plan**.

[Home](#) > [search-service-mysearchservice859 | Overview](#) > [mysearchservice859](#)

## mysearchservice859 | Semantic ranker ☆ ...

Search service

 ◇ «

- [Cloud Overview](#)
- [File Activity log](#)
- [Link Access control \(IAM\)](#)
- [Tags Tags](#)
- [Diagnostic tool Diagnose and solve problems](#)
- ▽ Search management
  - [Index Indexes](#)
  - [Indexer Indexers](#)
  - [Data source Data sources](#)
  - [Alias Aliases](#)
  - [Skillset Skillsets](#)
  - [Debug session Debug sessions](#)
- ▽ Settings
  - [Magnifying glass Semantic ranker](#)
  - [Cloud Knowledge Center](#)
  - [Key Keys](#)

### Semantic ranker

Semantic ranker uses deep neural networks to provide relevant results and answers based on semantics, not just analysis. Additional charges may be applicable.

#### Availability

##### Free

1,000 requests per month

\$0.00/month

[Selected Plan](#)

##### Standard

First 1,000 requests per month free  
\$1.00 per 1,000 additional requests.

[Select Plan](#)

#### Learn more

[Availability and pricing](#)

[Multilingual support for semantic ranker](#)

[Bringing more meaningful results to Azure AI Search](#)

[Create a query that invokes semantic ranking and returns semantic captions](#)

### Updating semantic ranker plan X

Setting this option may change your service costs.

Do you want to continue?

[Yes](#)

[No](#)

10. You will see a notification -**Successfully updated semantic ranker to free plan**

Microsoft Azure

Search resources, services, and docs (G+)

Home > search-service-mysearchservice859 | Overview > mysearchservice859

# mysearchservice859 | Semantic ranker

Search service

Search

Successfully updated semantic ranker to standard plan.

## Semantic ranker

Semantic ranker uses deep neural networks to provide relevant results and answers based on semantics, not just lexical analysis. Additional charges may be applicable.

### Availability

<b>Free</b> 1,000 requests per month  <b>\$0.00/month</b>  <a href="#">Select Plan</a>	<b>Standard</b> First 1,000 requests per month free \$1.00 per 1,000 additional requests.  <a href="#">Selected Plan</a>
---	--

**Learn more**

[Availability and pricing](#) [Multilingual support for semantic ranker](#) [Bringing more meaningful results to Azure AI Search](#)

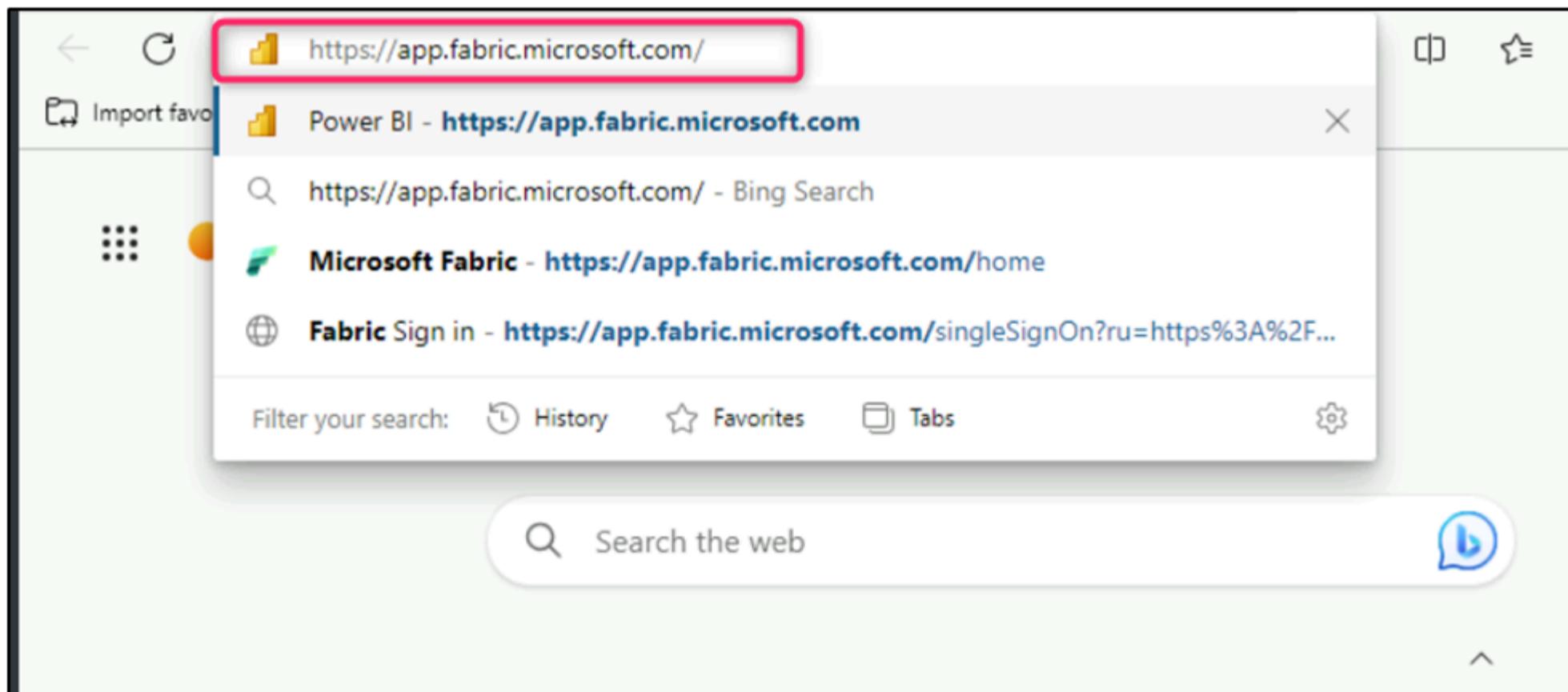
Indexes  
Indexers  
Data sources  
Aliases  
Skillsets  
Debug sessions

Tags  
Diagnose and solve problems  
Search management  
Settings

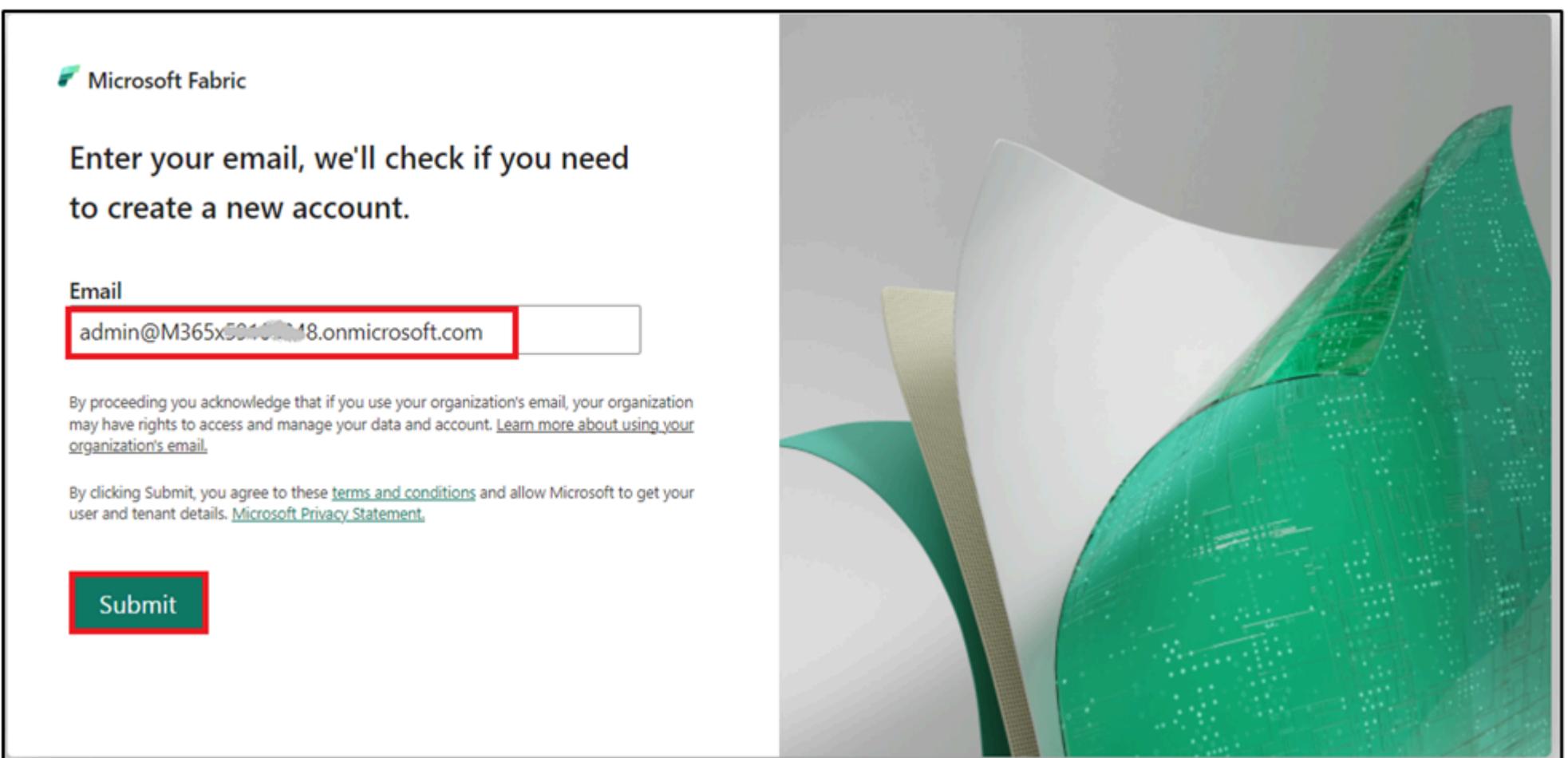
Semantic ranker (selected)  
Knowledge Center  
Keys

#### Task 4: Create a Fabric workspace

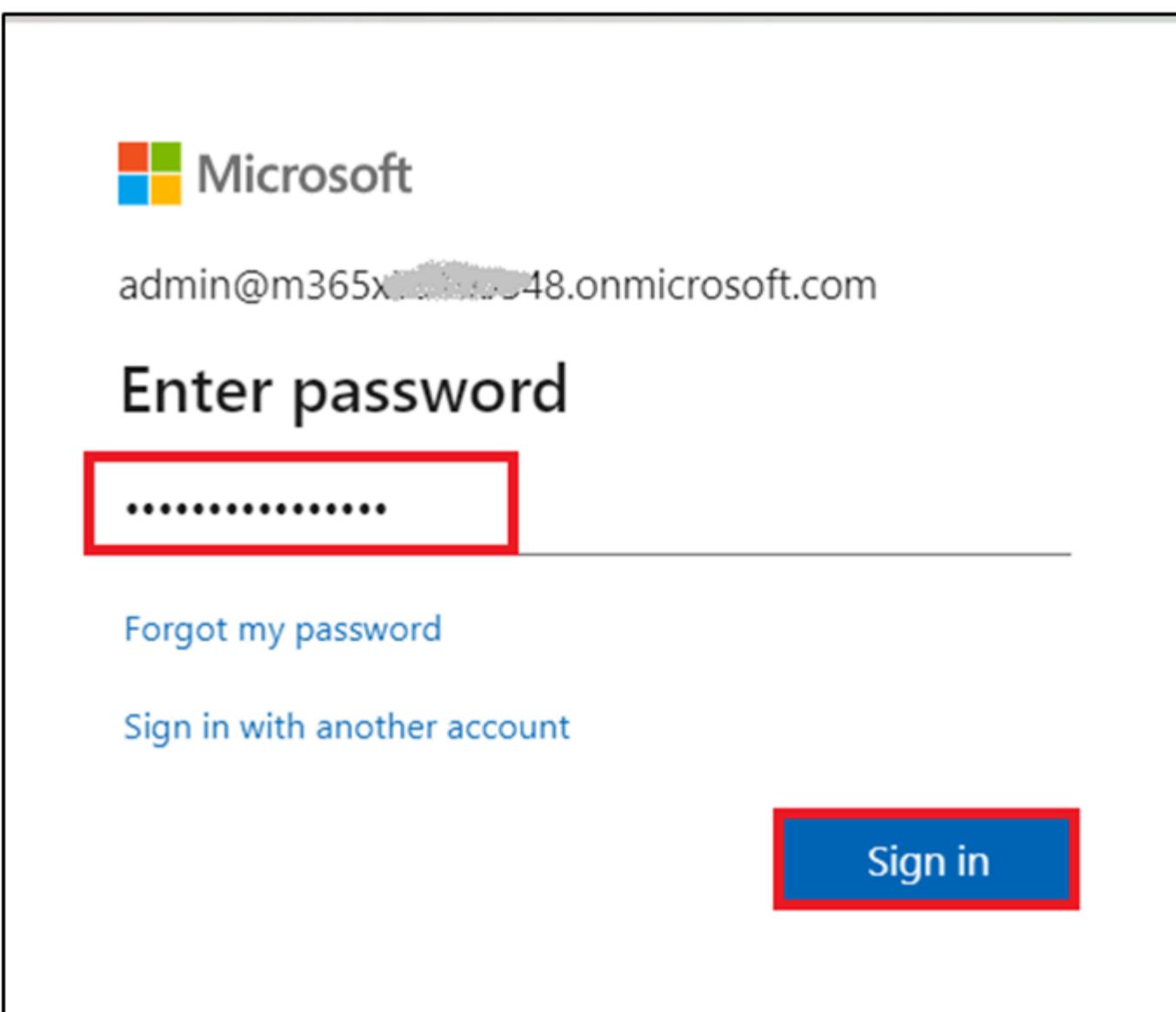
- ?
- In this task, you create a Fabric workspace. The workspace contains all the items needed for this lakehouse tutorial, which includes lakehouse, dataflows, Data Factory pipelines, the notebooks, Power BI datasets, and reports.
1. Open your browser, navigate to the address bar, and type or paste the following URL: <https://app.fabric.microsoft.com> then press the **Enter** button.



2. In the **Microsoft Fabric** window, enter your **Microsoft 365** credentials, and click on the **Submit** button.



3. Then, In the **Microsoft** window enter the password and click on the **Sign in** button\*\*.\*\*



4. In **Stay signed in?** window, click on the **Yes** button.



admin@m365x55165348.onmicrosoft.com

## Stay signed in?

Do this to reduce the number of times you are asked to sign in.

Don't show this again

No

Yes

5. On Power BI Home page, click on the **Account manager** on the right side. In the Account manager blade, navigate and select **Start trial as shown in the below image\*\*.\*\***



admin@m365x55165348.onmicrosoft.com

## Stay signed in?

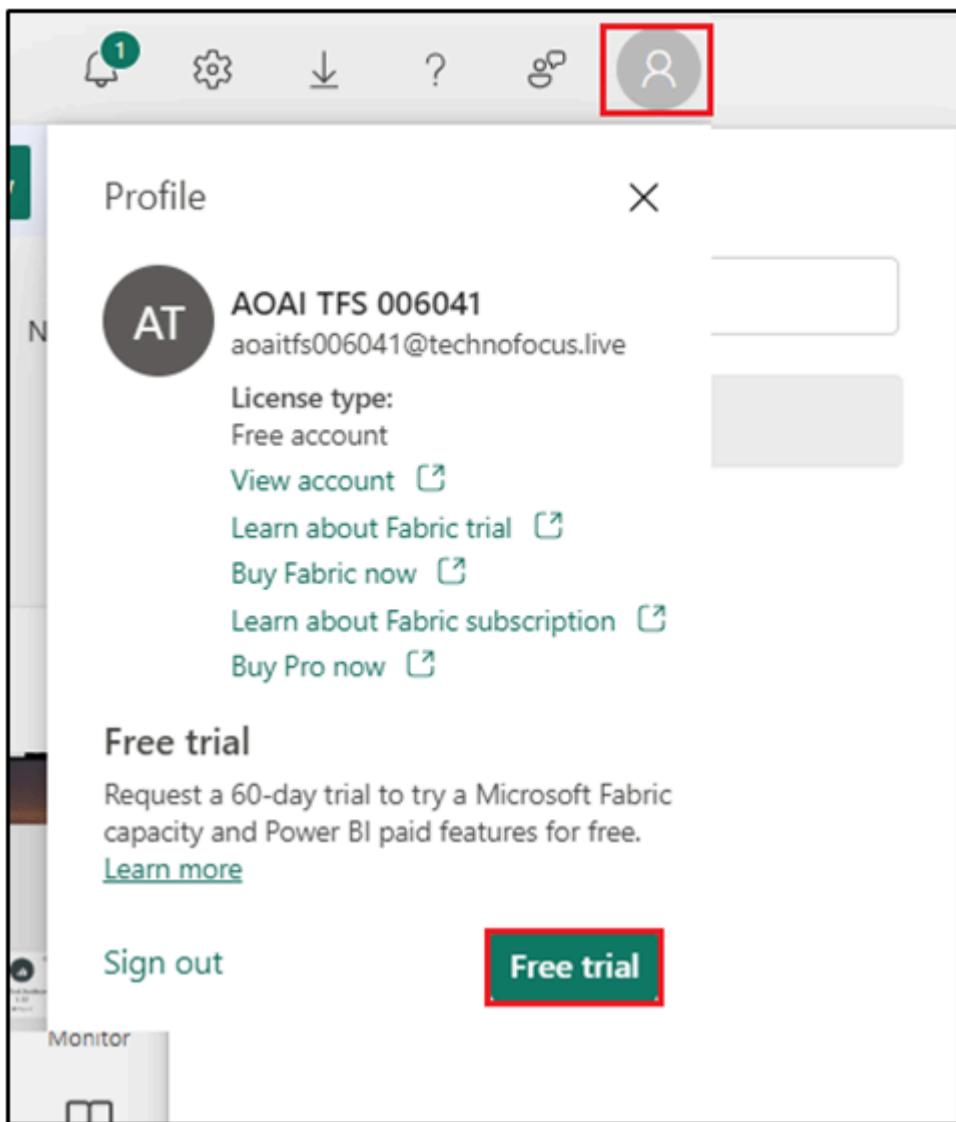
Do this to reduce the number of times you are asked to sign in.

Don't show this again

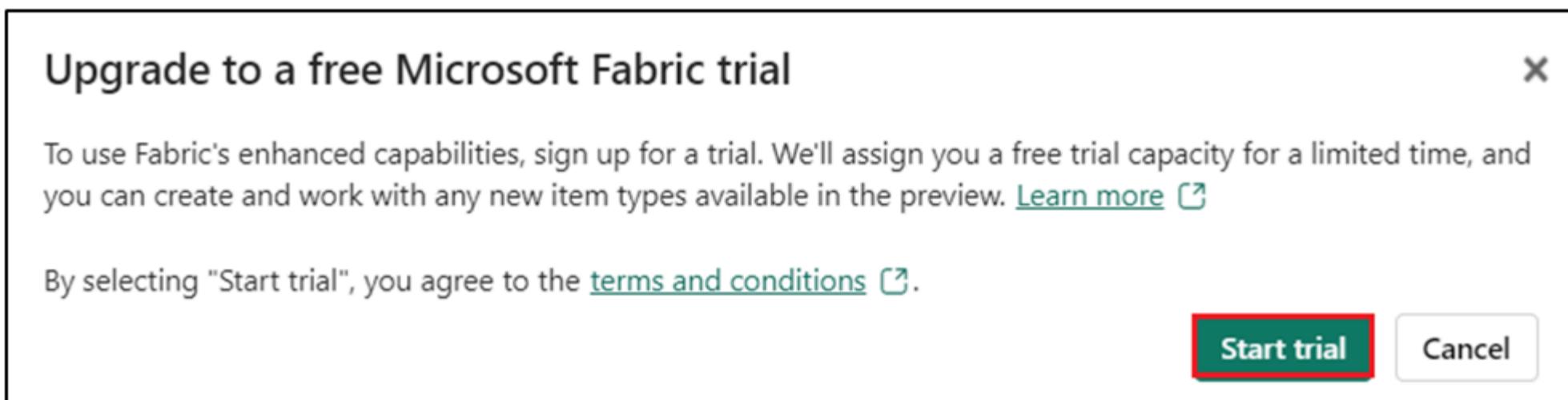
No

Yes

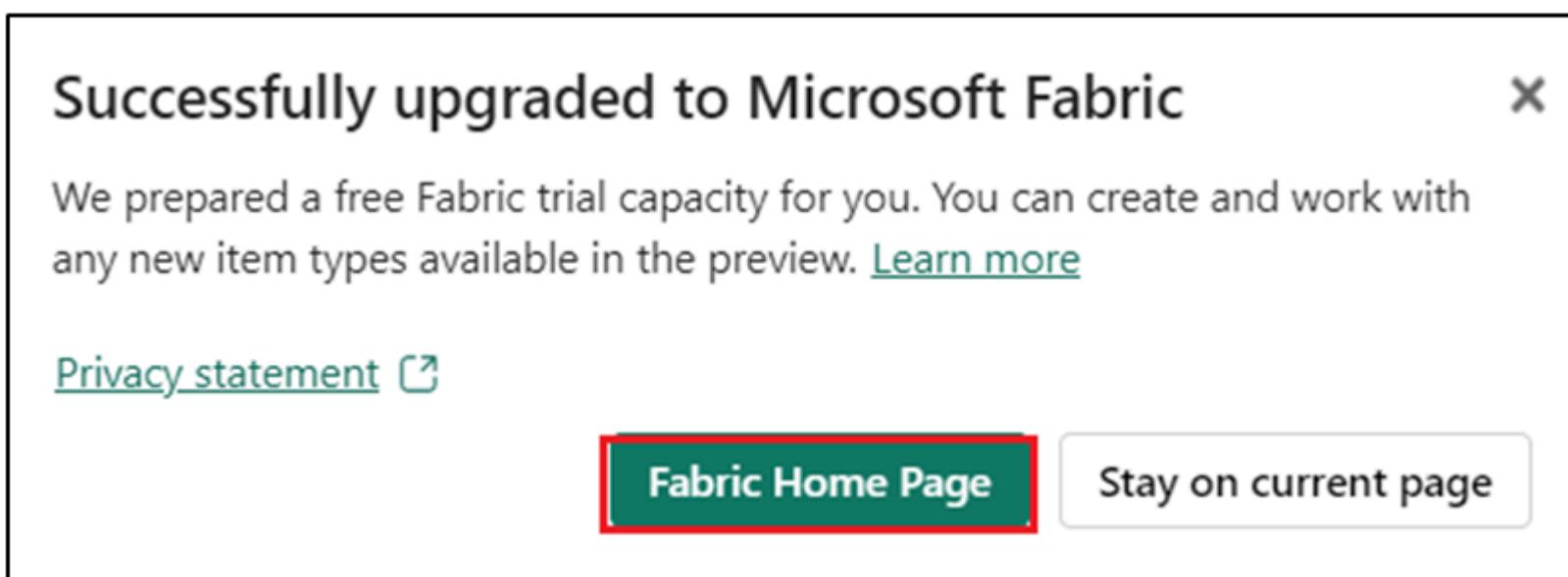
6. If prompted, agree to the terms and then select **Start trial**.



7. Once your trial capacity is ready, you receive a confirmation message. Select **Fabric Home Page** to begin working in Fabric.



8. You'll be directed to Power BI Home page.



9. Go back to **Power BI** window. On the left side navigation menu of Power BI Home page, navigate and click on **Workspaces**.

Microsoft Fabric Home

Home

# Microsoft Fabric

All your data. In one location. Organize. Collaborate. Create.

Explore the experience



**Power BI**  
Find insights, track progress, and make decisions faster using rich visualizations.



**Data Factory**  
Solve complex data ingestion, transformation, and orchestration scenarios using cloud-scale data movement and data transformation services.



**Data Activator**  
Detect patterns and conditions in your Power BI reports and streaming data, and then take actions such as alert users or kick-off workflows.



**Synapse Data Engineering**  
Create a lakehouse and operationalize your workflow to build, transform, and share your data estate.



**Synapse Data Science**  
Unlock powerful insights using AI and machine learning technology.



**Synapse Data Warehouse**  
Scale up your insights by storing and analyzing data in a secure SQL warehouse. Benefit from top-tier performance at petabyte scale in an open-data format.

Microsoft Fabric

10. In the Workspaces pane, click on + New workspace button\*\*.\*\*

Power BI Home

Join us at FabCon Europe in Stockholm, Sweden, from September 25 to 27, 2024

+ New report

Recommended

**Explore basic Power BI concepts**

Getting started with Power BI

**Open**

**Explore the 100 most useful productivity tips**

Explore this data story

**THE DEFINITIVE 100 MOST USEFUL PRODUCTIVITY TIPS**

Discover all of the 100 practical productivity tips shared by the folks over in their PDF report. And it's not just... See how we converted the 100 pages of the PDF into an interactive Power BI report. Check out the project to learn more now! [View project](#)

**Open**

**Recent**    **Favorites**    **My apps**

**Workspaces** (highlighted)

**My workspace**

**Power BI**

11. In the **Create a workspace** pane that appears on the right side, enter the following details, and click on the **Apply** button.

<b>Name</b>	<b>AI-Fabric-XXX</b> (XXX can be a unique number) (here, we entered AI-Fabric-XX-789)
<b>Advanced</b>	Under <b>License mode</b> , select <b>Trial</b>
<b>Default storage format</b>	<b>Small dataset storage format</b>
<b>Template apps</b>	<b>Check the Develop template apps</b>

## Create a workspace

X

Name \*

AI-Fabric-789

1

This name is available

Description

Describe this workspace

Domain ⓘ

Assign to a domain (optional)

▼

[Learn more about workspace settings](#)

Workspace image



Upload

Reset

Advanced ^

Contact list \* ⓘ



aoaitfs006041 (Owner)

Enter users and groups

License mode ⓘ

Pro

Select Pro to use basic Power BI features and collaborate on reports, dashboards, and scorecards. To access a Pro workspace, users need Pro per-user licenses. [Learn more](#)

Trial

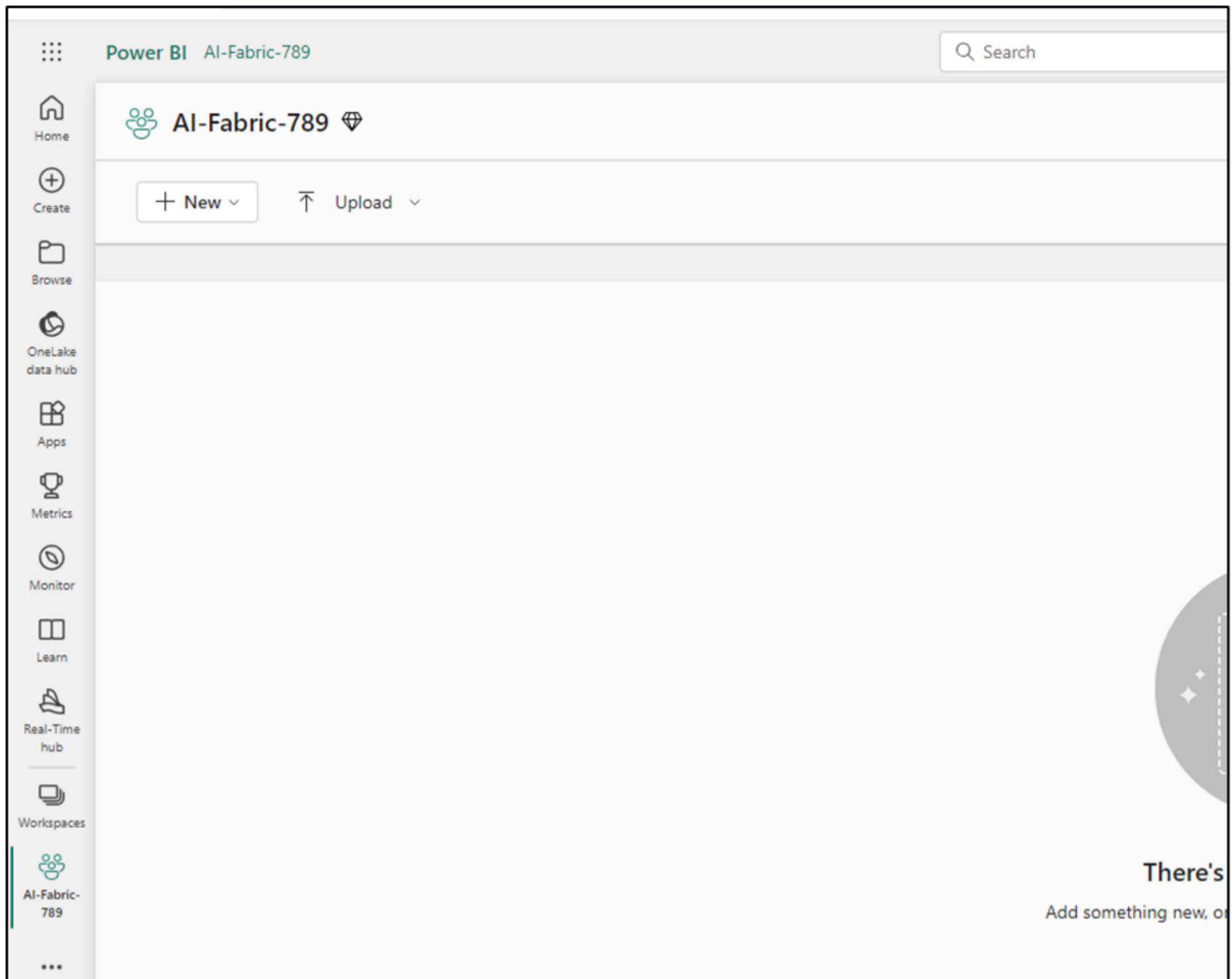
Select the free trial per-user license to try all the new features and experiences in Microsoft Fabric for 60 days. A Microsoft Fabric trial license allows users to create Microsoft Fabric items and collaborate with others in a Microsoft Fabric trial capacity. Explore new

2

**Apply**

Cancel

12. Wait for the deployment to complete. It takes 2-3 minutes to complete.



### Task 5: Create a lakehouse

1. In the **AI-Fabric-XXX** page, click on the **Power BI** icon located at the bottom left and select **Data Engineering** under Synapse.

Power BI Home

Introducing the Power BI app in Teams Collaborate with your team members on data and ta

+ New report

Recommended

Explore basic Power BI concepts Getting started with Power BI

Microsoft Fabric →

- Power BI
- Data Factory
- Data Activator
- Industry Solutions
- Real-Time Intelligence

Synapse

- Data Engineering**
- Data Science
- Data Warehouse

Explore the 100 most useful produ Explore this data story

THE DEFINITIVE 100 MOST USEFUL PRODUCTIVITY TIPS

User Productivity Hack	Productivity Rating
1. Time-blocking	95
2. Prioritize	90
3. Take no	90
4. Minimal	85
5. Control your devices	80
6. Take short breaks	78
7. Turn off notifications	75
8. Eat well	75
9. 2-minute rule	70
10. Control visual media	65
11. Choose when to check email	65
12. Organize your workspace	60
13. Start earlier	55

Open

My apps

Type

Workspace

The screenshot shows the Power BI Home page. On the left, there's a vertical sidebar with icons for Home, Create, Browse, OneLake data hub, Apps, Metrics, Monitor, Workspaces, AI-Fabric-7891, and three dots. The 'Power BI' icon at the bottom of the sidebar is also highlighted with a red box. The main area has a 'Recommended' section with two cards: 'Explore basic Power BI concepts' and 'Explore the 100 most useful productivity tips'. Below these are sections for Synapse (Data Engineering, Data Science, Data Warehouse) and Microsoft Fabric.

2. In the **Synapse Data Engineering** Home page, select **Lakehouse** to create a lakehouse.

Synapse Data Engineering Home

Join us at FabCon Europe in Stockholm, Sweden, from September 25 to 27, 2024 for the ultimate Power BI, Fabric, SQL, and AI learning event. Use code MSCUST

New

Current workspace: AI-Fabric-789

Items will be saved to this workspace.

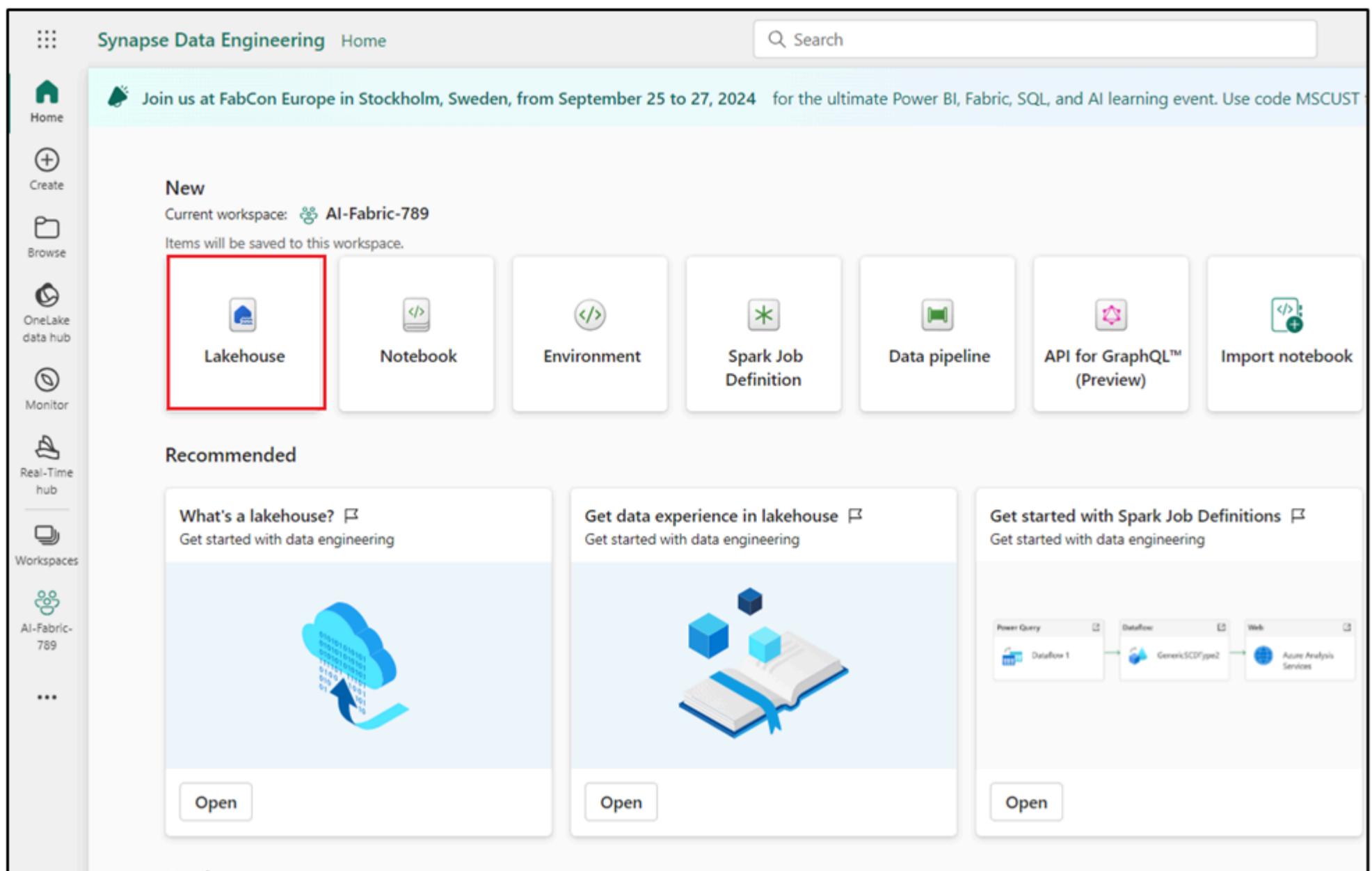
Lakehouse Notebook Environment Spark Job Definition Data pipeline API for GraphQL™ (Preview) Import notebook

Recommended

What's a lakehouse? Get started with data engineering Open

Get data experience in lakehouse Get started with data engineering Open

Get started with Spark Job Definitions Get started with data engineering Open



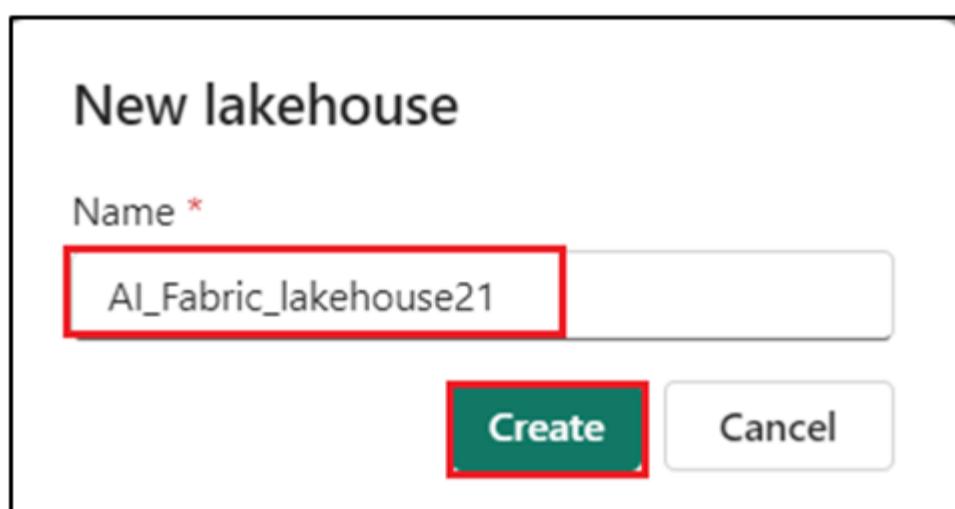
3. In the **New lakehouse** dialog box, enter **AI\_Fabric\_lakehouseXX** in the **Name** field, click on the **Create** button and open the new lakehouse.

**Note:** Ensure to remove space before **AI\_Fabric\_lakehouseXX**.

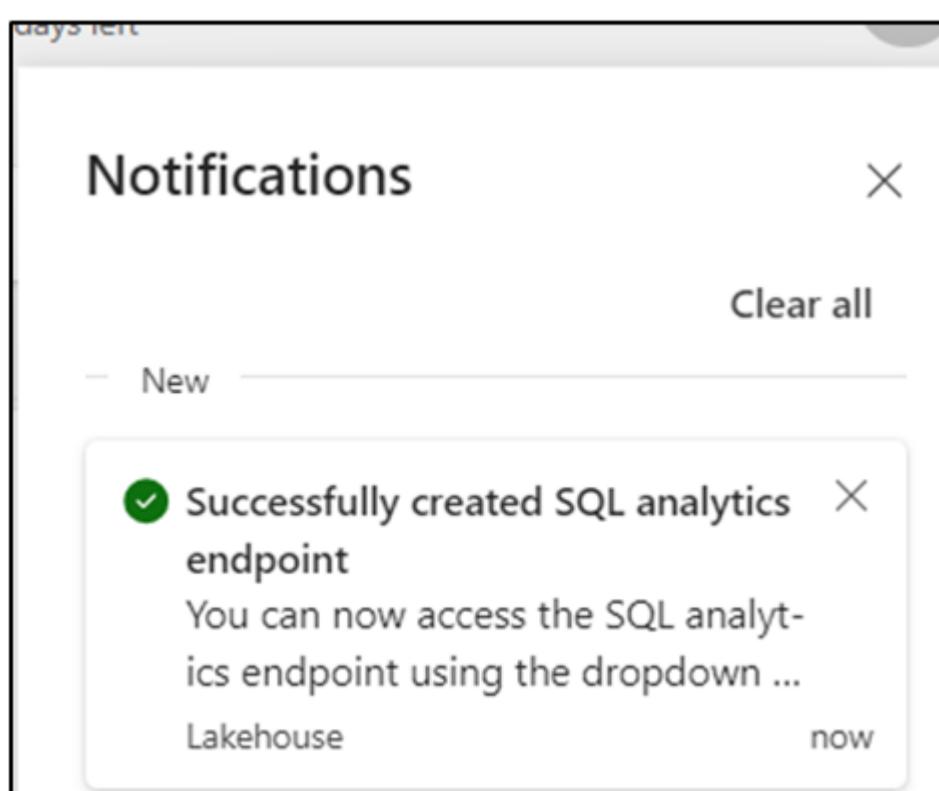
### New lakehouse

Name \*

**Create** **Cancel**



4. You will see a notification stating **Successfully created SQL endpoint**.



A SQL analytics endpoint for SQL querying and a default Power BI semantic model for faster reporting were created and will be updated with any tables added to the lakehouse.

Get data in you

Upload files  
Upload data from your local machine.

New Dataflow Gen2  
Prep, clean, transform, and ingest data.

New data pipeline  
Ingest data at scale and schedule data workflows.

## Task 6: Ingest your data into lakehouse

1. In the **lakehouse** page, under an **Explorer** select Upload and click on **Upload folder** as shown in the below image.

AI\_Fabric\_lakehouse21

Home

Get data New semantic model Open notebook Manage OneLake data access (preview)

A SQL analytics endpoint for SQL querying and a default Power BI semantic model for faster reporting were created and will be updated with any tables added to the lakehouse.

Explorer

AI\_Fabric\_lakehouse21

Tables

Files

...  
New shortcut  
New subfolder  
**Upload**  
Properties  
Refresh  
Upload files  
Upload folder

Get data in you

Upload files  
Upload data from your local machine.

New Dataflow Gen2  
Prep, clean, transform, and ingest data.

New data pipeline  
Ingest data at scale and schedule data workflows.

2. Select \*\*Files folder \*\*from the **Upload folder** pane that opens on the right side of the screen.

## Upload folder

X

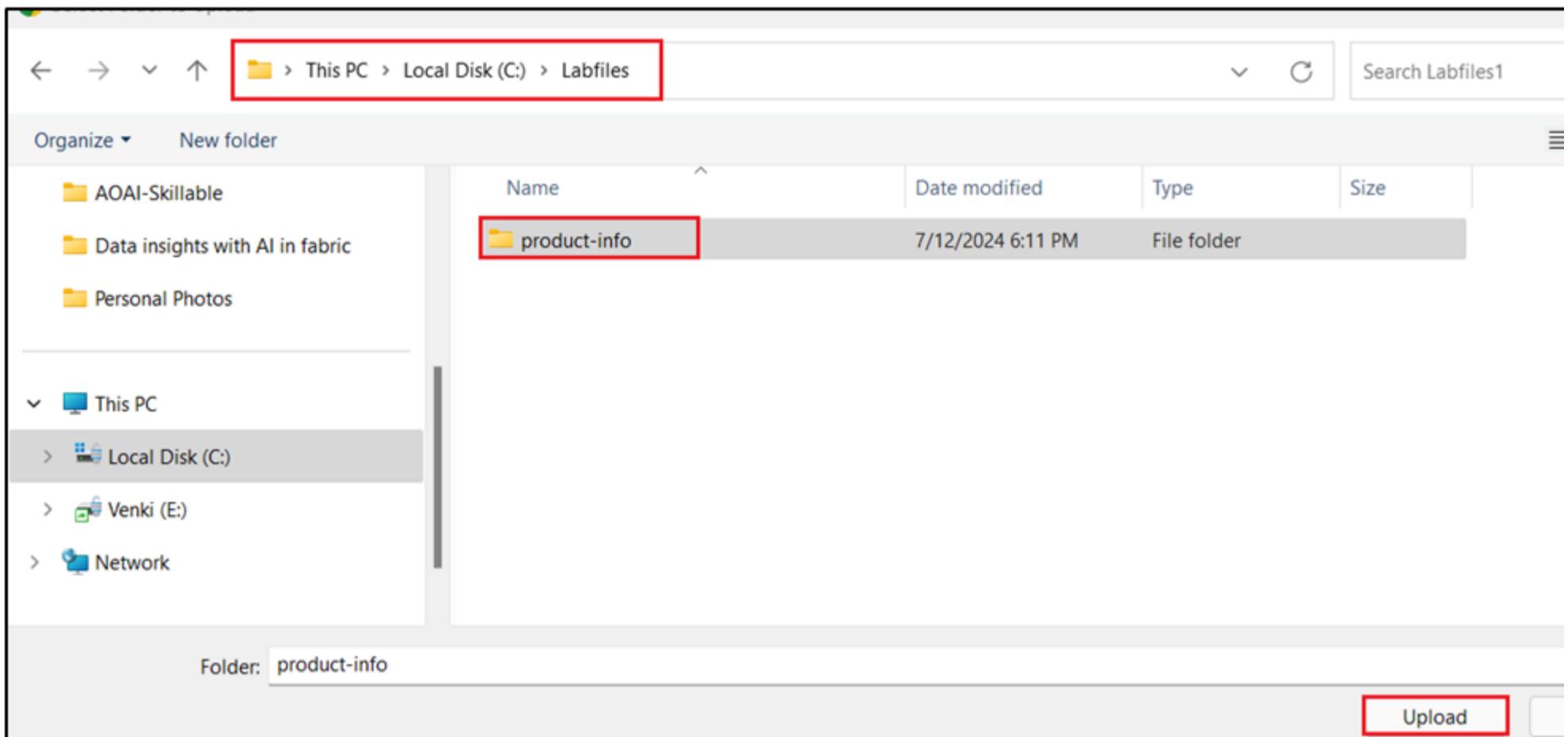
### Files/



Overwrite if folder already exists

**Upload**

3. Browse to **C:\LabFiles** on your VM, then select \*\*\*product-info \*\*\*folder and click on **Upload** button.



### Upload 33 files to this site?

This will upload all files from "product-info". Only do this if you trust the site.

**Upload** **Cancel**

4. Select \*\*Upload button \*\*from the \*\*Upload folder \*\*pane.

## Upload folder



Files/

product-info



Overwrite if folder already exists

**Upload**

- 5. Close upload folder pane.

## Upload folder



Files/



Overwrite if folder already exists

**Upload**

## Current uploads

[Dismiss](#) [Completed](#) [All](#)

File Name	Lakehouse Name		
customer_1.md	AI_Fabric_lakehouse21		973 B / 973 B
customer_10.md	AI_Fabric_lakehouse21		981 B / 981 B
customer_11.md	AI_Fabric_lakehouse21		350 B / 350 B
customer_12.md	AI_Fabric_lakehouse21		349 B / 349 B
customer_13.md	AI_Fabric_lakehouse21		647 B / 647 B
customer_2.md	AI_Fabric_lakehouse21		1 KB / 1 KB
customer_3.md	AI_Fabric_lakehouse21		989 B / 989 B
customer_4.md	AI_Fabric_lakehouse21		1 KB / 1 KB
customer_5.md	AI_Fabric_lakehouse21		1 KB / 1 KB
customer_6.md	AI_Fabric_lakehouse21		1 KB / 1 KB

- 6. In Lakehouse page, select the **Files** and click on **Properties**.

A screenshot of the Microsoft Fabric AI\_Fabric\_Lakehouse78 Home page. The left sidebar includes options like Home, Create, Browse, OneLake data hub, Apps, Metrics, Workspaces, and AI-Fabric-675. The main area shows a 'Files' section with a folder named 'product-info'. A context menu is open over this folder, with item 1 ('Properties') highlighted by a red box and number 2.

7. In the Properties pane ,copy the URL paste them in a notepad, then Save the notepad to use the information in the upcoming tasks.

A screenshot of the 'Properties' pane for the 'product-info' folder. The pane lists various properties: Name, Files, Type, Folder, URL, Relative path, Files, ABFS path, Last modified, and N/A. The URL field contains the value 'https://onelake.dfs.fabric.microsoft.com/f2d50e75-747d-45aa-b74b...' with a copy icon to its right, which is highlighted by a red box.

## Exercise-2: Add your data using Azure OpenAI Studio

### Task 1: Create an Azure AI project in Azure AI Studio

- ?
  - Your Azure AI project is used to organize your work and save state while building your copilot. During this tutorial, your project contains your data, prompt flow runtime, evaluations, and other resources.
1. On the **copilot-AzureAI** window, click on **Overview** in the left navigation menu, then under the **Govern the environment for your team in AI Studio** tab, click on the **Launch Azure AI Studio** button to open **Azure AI Studio** in a new browser.

The screenshot shows the Microsoft Azure portal interface. At the top, there's a blue header bar with the Microsoft Azure logo and a search bar that says "Search resources, services, and docs (G+/)". Below the header, the URL "Home > Microsoft.MachineLearningServices | Overview >" is visible. The main title is "Copilot-AzureAI789" with the subtitle "Azure AI hub". On the left, there's a sidebar with a "Search" input field and several menu items: Overview (selected), Activity log, Access control (IAM), Tags, Diagnose and solve problems, Events, Settings (with sub-options: Projects, Networking, Encryption, Properties, Locks), and Monitoring. In the center, there's a "Download config.json" button and a "Delete" button. Below these are sections for "Essentials" (Resource group: AI-FabricRG89, Location: East US 2, Subscription: Azure Pass - Sponsorship, Subscription ID: d537203e-85c0-49d6-918f-f5043757f718, Key Vault: copilotazureai8751658343) and "Govern the environment for your team in AI Studio". This section features a large blue AI icon and a red-bordered "Launch Azure AI Studio" button.

2. In the **Azure AI Studio** window, click on **+ New project** from under the **Project**.

The screenshot shows the Azure AI Studio interface. The top navigation bar includes 'Azure AI Studio / All hubs / Copilot AzureAI789'. On the left, a sidebar lists 'Current hub Copilot AzureAI789' and various sections like 'Hub overview', 'All projects', 'Get started', 'Model catalog', 'Model benchmarks', 'Prompt catalog', 'AI Services', 'Playgrounds', 'Chat', 'Assistants PREVIEW', 'Shared resources', 'Deployments', 'Connections', 'Compute instances', and 'Users'. The main content area is titled 'Copilot AzureAI789' and contains sections for 'Projects' (with a '+ New project' button), 'Connected resources' (listing 'copilotazureai4124996802\_aoai' as an Azure OpenAI type and 'copilotazureai4124996802' as an AI Services type, both with '+ New connection' buttons), and a 'Description' box with placeholder text 'Add a hub description here'.

3. In the **Create a project** tab, under **Project name**, enter the Project name as **contoso-outdoor-proj** and then click on **Create a project** button.

The dialog box has a title 'Create a project'. It shows 'Current hub' set to 'Copilot-AzureAI674'. The 'Project name' field is highlighted with a red border and contains the text 'contoso-outdoor-proj' with a red '1' marker next to it. Below the field, a note says 'Projects using the same hub share security settings, and can share artifacts like data connections.' with a 'Learn more' link. At the bottom right are 'Create a project' and 'Cancel' buttons, with the 'Create a project' button also highlighted with a red '2' marker.

4. Wait for the deployment to complete. The deployment will take around 1-2 minutes.

The screenshot shows the Azure AI Studio interface. The top navigation bar includes links for 'Azure AI Studio', 'All hubs', 'Copilot-AzureAI789', 'All projects', 'contoso-outdoor-proj', and 'Overview'. On the left, a navigation panel lists sections like 'Project overview' (selected), 'Settings', 'Get started', 'Model catalog', 'Model benchmarks', 'Prompt catalog', 'Project playground', 'Chat', 'Assistants (PREVIEW)', 'Images', 'Completions', 'Tools', 'Code (PREVIEW)', 'Prompt flow', 'Tracing (PREVIEW)', 'Evaluation (PREVIEW)', 'Fine-tuning (PREVIEW)', 'Components', 'Data', and 'Indexes'. The main content area is titled 'contoso-outdoor-proj' and features a 'Pick up where you left off' section with a search bar and a table header for 'Resource type', 'Name', 'Status', 'Quick actions', 'Last viewed', and 'Created'. A message states 'There are no recently viewed items to display'. Below this is a 'Documentation' section with three cards: 'Build and deploy a question and answer copilot with prompt flow in Azure AI Studio' (using generative AI and prompt flow to build, configure, and deploy a copilot for your retail company called Contoso), 'Build a custom chat app in Python using the prompt SDK' (develop a custom chat app in your local development environment and learn to run and evaluate LLM prompts with the Prompt SDK), and 'Retrieval augmented generation and indexes' (this article talks about the importance and need for Retrieval Augmented Generation (RAG) and Index in generative AI).

Once a project is created, you can access the **Tools**, **Components**, and **Settings** assets in the left navigation panel.

## Task 2: Add Azure search and Microsoft OneLake into Azure AI studio

1. In the **Azure AI Studio** window, click on **Settings** under Project overview and select **+ New connection**.

The screenshot shows the 'Settings' page within the Azure AI Studio. The left navigation panel is identical to the previous screenshot. The main content area is titled 'Settings' and contains two sections: 'Connected resources' and 'Computes'. Under 'Connected resources', there is a table with four entries: 'copilotazureai9578267484\_aoai' (Type: Azure OpenAI), 'copilotazureai9578267484' (Type: AI Services), 'contoso-outdoor-proj/workspaceblobstore' (Type: Azure Blob Storage PREVIEW), and 'contoso-outdoor-proj/workspaceartifactstore' (Type: Azure Blob Storage PREVIEW). A red box highlights the '+ New connection' button. Under 'Computes', there is a large blue folder icon with a '+' sign, indicating where new compute resources can be added. To the right of the main content area, a vertical sidebar titled 'Project' shows a list of items: Name (contoso-), Hub (Copilot-A), Subscription (Azure Pas), Subscription (Subscriptio), Resource Group (a50c8de6), Resource Group (e52fad61), Resource Group (Resource G), AOAI-RG!, Get API endpoint, View sub..., Delete, and Project (Project).

2. In **Add a connection to external assets** page , select **Azure AI Search**.

## Add a connection to external assets

What type of resource do you want to connect?

### Azure AI

 Azure OpenAI  
AI Models

 Azure AI Services  
AI Models

 Azure AI Search  
Search and indexing

 Serverless Model  
AI Models

 Azure Content Safety  
Responsible AI

 Azure Speech Services  
Speech

### Data

 Azure Blob Storage  
Data

 Azure Data Lake Storage ...  
Data

 Microsoft OneLake  
Data

### Other resource types

 Git  
Code

 Serp  
Search

 Open AI  
AI Models

 Python feed  
Feed

 Container Registry  
Container Registry

 API Key  
Custom

 Custom keys  
Custom

Close  
 Go to Settings

3. In Connect an Azure AI Search resource page, select ai search (you've created in Exercise 1>Task 3) and click on **Add connection**

## Connect an Azure AI Search resource

Back to select an asset type

Browse resources  Enter manually

Search for a resource

Displaying (2) resources

Name  
mysearchservice78

Resource group  
aoai-rg43

Add connection

Location  
eastus

Sku  
basic

Subscription  
Azure Pass - Sponsorship

Semantic search  
free

### Authentication

API key

(i) Your hub will be granted access to this resource. Anyone with access to your project or hub will be able to use this resource.

4. Click on **close** button.

## Connect an Azure AI Search resource

[← Back to select an asset type](#)

Browse resources  Enter manually

Search for a resource

Displaying (2) resources

Name  
mysearchservice78

Resource group  
aoai-rg43

Connected

Location

Sku

eastus

basic

Subscription

Semantic search

Azure Pass - Sponsorship

free

Authentication

API key

ⓘ Your hub will be granted access to this resource. Anyone with access to your project or hub will be able to use this resource.

Name  
mysearchservice789

Resource group  
aoai-rg43

Add connection

Location

Sku

[Close](#)  
[Go to Settings](#)

5. In the **Azure AI Studio** window, click on **Settings** under Project overview and select **+ New connection**.

The screenshot shows the Azure AI Studio interface with the 'Settings' tab selected in the left sidebar. The main area displays a list of 'Connected resources' with four items:

Name	Type
copilotazureai4124996802_aoai	Azure OpenAI
copilotazureai4124996802	AI Services
contoso-outdoor-proj/workspaceartifactstore	Azure Blob Storage (PREVIEW)
contoso-outdoor-proj/workspaceblobstore	Azure Blob Storage (PREVIEW)

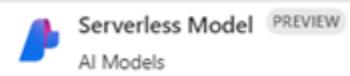
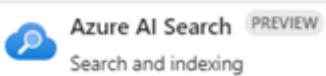
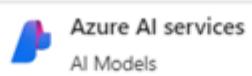
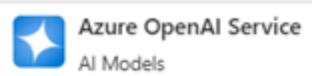
A red box highlights the '+ New connection' button at the bottom of the 'Connected resources' section. Below this, there is a 'Computes' section with a large blue folder icon containing a white plus sign, and the text 'No computes to display'.

6. In Add a connection to external assets page , select **Microsoft OneLake**.

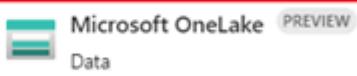
## Add a connection to external assets

What type of resource do you want to connect?

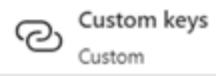
### Azure AI



### Data



### Other resource types



Close

7. In Add a connection to external assets tab, provide the following information and click on **Create connection** button.

Field	Description
<b>Service</b>	Microsoft OneLake
OneLake Artifact URL	Enter URL which you have saved in Exercise1>Task 6>Step 7
<b>Authentication method</b>	Microsoft Entra ID based
<b>Connection name</b>	AI FabricXX (XX can be unique number)

## Add a connection to external assets

### Select your service

Service \*

Microsoft OneLake

Artifact type \*

Lakehouse

OneLake Artifact URL \*

https://onelake.dfs.fabric.microsoft.com/f2d50e75-747d-45aa-b74b-71f253ca1...

Authentication method \* ⓘ

Microsoft Entra ID based

Connection name \* ⓘ

AI\_Fabric

Access ⓘ

Project

Create connection

Cancel

### Task 3: Add data into AI Studio

1. On the Azure AI Studio **Home** page, select **Data** under the **Components**.

- Get started
  - Model catalog
  - Model benchmarks
  - Prompt catalog
- Project playground
  - Chat
  - Assistants PREVIEW
  - Images
  - Completions
- Tools
  - Code PREVIEW
  - Prompt flow
  - Tracing PREVIEW
  - Evaluation PREVIEW
  - Fine-tuning PREVIEW
- Components
  - Data
  - Indexes
  - Deployments
  - Content filters PREVIEW

## Settings

### Connected resources 6

Name	Type
copilotazureai4124996802_aoai	Azure OpenAI
copilotazureai4124996802	AI Services
mysearchservice65	Azure AI Search (Cognitive Search) PREVIEW
contoso-outdoor-proj/ai fabric	Microsoft OneLake PREVIEW

+ New connection

### Computes 1

copilotcompute78



#### State

Running

Stop

#### VM size

Standard\_E4ds\_v4 (4 cores, 32 GB RAM, 150 GB disk)

2. In the \*\*Connect, create, or manage your date \*\*window, click on +New data .

Get started ^

- Model catalog
- Model benchmarks
- Prompt catalog

Project playground ^

- Chat
- Assistants PREVIEW
- Images
- Completions

Tools ^

- Code PREVIEW
- Prompt flow
- Tracing PREVIEW
- Evaluation PREVIEW
- Fine-tuning PREVIEW

Components ^

## Connect, create, or manage your data

+ New data

Archive

Show archived data

Refresh

Reset view

Add data you

Give your model access to the data  
the data to one of the supported ty  
of any format in storage, or Folder

3. In the **Add your data** page that appears, drop down the Data source and select **ai\_fabric**

**Add your data**

1 Select data    2 Name and finish

Select your data

Data source \*

Search connection

+ New connection

Existing connections

- ai\_fabric
- Microsoft One Lake
- workspaceartifactstore
- Azure Blob Storage
- workspaceblobstore
- Azure Blob Storage
- Get data with storage URL
- Upload files/folders

Next Create Cancel

4. In the **Add your data** page, select **product-info** folder and click on **Next** button.

## Add your data

1 Select data

2 Name and finish

### Select your data

Data source \*

ai\_fabric

+ New connection

Browse to storage path

Selected path: product-info/

⟳ | ↑

Enter storage path manually

Filter...

Name

Created on

Modified on



product-info

Jul 15, 2024 10:51 AM

Jul 15, 2024 10:51 AM

Next

Create

Cancel

+ Create compute

5. In the **Add your data** page, enter the Data name as **AI-Fabric-dataXX**(XX can be a unique number) and click on **Create** button.

## Add your data

1 Select data

2 Name and finish

### Name and finish

Data name \* ⓘ

AI-Fabric-data21

Back

Create

Get started

- Model catalog
- Model benchmarks
- Prompt catalog

Project playground

- Chat
- Assistants PREVIEW
- Images
- Completions

Tools

- Code PREVIEW
- Prompt flow
- Tracing PREVIEW
- Evaluation PREVIEW
- Fine-tuning PREVIEW

Components

- Data
- Indexes
- Deployments
- Content filters PREVIEW

**AI-Fabric-data21:1**

**Data details**

Name: AI-Fabric-data21

Current version: Version: 1 (latest)

Latest version: 1

Type: Folder

Created on: Jul 15, 2024, 1:47:31 PM Modified on: Jul 15, 2024, 1:47:31 PM

Created by: AO AOOI TFS 006351

Tags:

**Data links**

Connection name: ai\_fabric

Data connection URI:

File browser:

- /
- product-info
  - customer\_1.md
  - customer\_10.md
  - customer\_11.md
  - customer\_12.md**
  - customer\_13.md
  - customer\_2.md
  - customer\_3.md
  - customer\_4.md
  - customer\_5.md
  - customer\_6.md
  - customer\_7.md
  - customer\_8.md
  - customer\_9.md

Select a file

#### Task 4: Deploy a chat model

- Follow these steps to deploy an Azure OpenAI chat model for your copilot.
1. On the Azure AI Studio **Home** page, select **Deployments** under the **Components**.

- [contoso-outdoor-proj...](#)
- [Project overview](#)
- [Settings](#)
- [Get started](#)
  - [Model catalog](#)
  - [Model benchmarks](#)
  - [Prompt catalog](#)
- [Project playground](#)
  - [Chat](#)
  - [Completion](#)
  - [Assistants PREVIEW](#)
  - [Images](#)
- [Tools](#)
  - [Code PREVIEW](#)
  - [Prompt flow](#)
  - [Tracing](#)
  - [Evaluation PREVIEW](#)
  - [Fine-tuning PREVIEW](#)
- [Components](#)
  - [Data](#)
  - [Indexes](#)
  - [Deployments](#)
  - [Content filters](#)

## Settings

### Connected resources 4

Name	Type
copilotazureai9578267484_aoai	Azure OpenAI
copilotazureai9578267484	AI Services
contoso-outdoor-proj/workspaceblobstore	Azure Blob Storage PREVIEW
contoso-outdoor-proj/workspaceartifactstore	Azure Blob Storage PREVIEW

[+ New connection](#)

### Computes 0



No computes to display

2. In the Deployments window, click on +Deploy base model .

[Project overview](#)

[Settings](#)

Get started

[Model catalog](#)

[Model benchmarks](#)

[Prompt catalog](#)

Project playground

[Chat](#)

[Assistants PREVIEW](#)

[Images](#)

[Completions](#)

Tools

[Code PREVIEW](#)

[Prompt flow](#)

## Define an endpoint to deploy your model

All available model and app deployments are displayed here.

[Model deployments](#) [App deployments](#)

[+ Deploy base model](#)

[Refresh](#)

[Edit](#)

[Delete](#)

[Open in p](#)

3. On the **Select a model** page, select the model **gpt-4**. Then select **Confirm**.

### Select a model

Choose a model to create a new deployment. For flows and other resources, create a deployment from their respective list. [Go to model catalog.](#)

Models: 1620

[Collections](#)

[Inference tasks](#)

[Show description](#)

[Search](#)

[gpt-35-turbo-16k](#)

Chat completions

[gpt-35-turbo-instruct](#)

Chat completions

[gpt-4](#)

Chat completions

[babbage-002](#)

Completions

[davinci-002](#)

Completions

[gpt-35-turbo](#)

Chat completions

[gpt-4-32k](#)

Chat completions

### gpt-4

[Task: Chat completions](#)

This model can be deployed for inferencing.

Model family: GPT-4

GPT-4 is a large multimodal model that accepts text or image inputs and outputs text. It can solve complex problems with greater accuracy than any of our previous models, thanks to its extensive general knowledge and advanced reasoning capabilities.

#### Model versions:

GPT-4 provides a wide range of model versions to fit your business needs. Please note that AzureML Studio only supports the deployment of the gpt-4-0314 model version and AI Studio supports the deployment of all the model versions listed

[Confirm](#)

[Cancel](#)

4. In the **Deploy model** dialog box, under the **Deployment name** field, enter **gpt-4**, select the **Model version** as **1106-Preview** and click on **Deploy** button.

## Deploy model gpt-4

Current Project resource

contoso-outdoor-proj

Deployment name \*

gpt-4

Model version

1106-Preview

Deployment type

Standard

Connected Azure OpenAI resource

copilotazureai4124996802\_aoai

i 80K tokens per minute quota available for your deployment

Tokens per Minute Rate Limit (thousands) i



Corresponding requests per minute (RPM) = 60

Content filter i

Default

Enable dynamic quota i

Enabled

Deploy

Cancel

5. You see the deployment details page. Details include the date you created the deployment and the created date and version of the model you deployed.

Project overview Settings

## Get started ^

 Model catalog Model benchmarks Prompt catalog

## Project playground ^

 Chat Assistants PREVIEW Images Completions

## Tools ^

 Code PREVIEW Prompt flow Tracing PREVIEW Evaluation PREVIEW Fine-tuning PREVIEW

## Components ^

 Data Indexes Deployments

## gpt-4

Details Metrics

## Deployment info

Name	Deployment type
gpt-4	Standard
Created on	Created by
2024-07-15T06:06:29.298445Z	9e0aa7c9-81b3-437f-b883-caed69a69bc3
Modified on	Modified by
Jul 15, 2024 11:36 AM	9e0aa7c9-81b3-437f-b883-caed69a69bc3
Version update policy	
Once the current version expires	
Tokens per Minute Rate Limit (thousands)	
10	
Rate limit (Tokens per minute)	Rate limit (Requests per minute)
10000	60
Model name	Model version
gpt-4	1106-Preview
Life cycle status	Date created
Preview	Nov 15, 2023 5:30 AM
Date updated	Model retirement date
Nov 15, 2023 5:30 AM	Sep 1, 2024 5:30 AM

6. On the deployment details page from the previous step, select **Open in playground**.

The screenshot shows the 'Deployment info' section for the 'gpt-4' deployment. It includes the following details:

Name	gpt-4	Deployment type	Standard
Created on	2024-07-15T06:06:29.2984453Z	Created by	9e0aa7c9-81b3-437f-b883-caed69a69bc3
Modified on	Jul 15, 2024 11:36 AM	Modified by	9e0aa7c9-81b3-437f-b883-caed69a69bc3
Version update policy	Once the current version expires		
Tokens per Minute Rate Limit (thousands)	10	Rate limit (Tokens per minute)	10000
		Rate limit (Requests per minute)	60
Model name	gpt-4	Model version	1106-Preview
Life cycle status	Preview	Date created	Nov 15, 2023 5:30 AM

### Task 5: Chat in the playground without your data

- ② In the Azure AI Studio playground you can observe how your model responds with and without your data. In this section, you test your model without your data. In the next section, you add your data to the model to help it better answer questions about your products.
- 1. In the playground, select your deployed **gpt-4** chat model from the **Deployment** dropdown.

The screenshot shows the 'Chat playground' interface. The 'Deployment' dropdown is set to 'gpt-4'. The 'Start chatting' section contains the following text:

Start chatting  
Test your assistant by sending queries below. Then adjust your assistant setup to improve the assistant's responses.

Type user query here. (Shift + Enter for new line)

2. In the **System message** text box on the **Assistant setup** pane, provide this prompt to guide the assistant: **You're an AI assistant that helps people find information.**

The screenshot shows the Azure AI Studio interface with the path: Azure AI Studio / All hubs / Copilot-AzureAI674 / All projects / contoso-outdoor-proj / Chat playground. On the left, there's a sidebar with sections like Project overview, Settings, Get started, Model catalog, Model benchmarks, Prompt catalog, Project playground (Chat is selected), Completion, Assistants (PREVIEW), Images, Tools (Code PREVIEW, Prompt flow, Tracing, Evaluation PREVIEW, Fine-tuning PREVIEW), Components (Data, Indexes, Deployments, Content filters). The main area is titled "Chat playground". It has tabs for Export, View Code, Prompt flow, Evaluate, Deploy to a web app, Import, and a "Show JSON" toggle. A "Deployment" dropdown is set to "gpt-4". Below it, a "System message" input field contains the text "You're an AI assistant that helps people find information". This input field is highlighted with a red border. To the right of the input field is a yellow info box saying "Please select the 'Apply changes' button below to apply your changes." with "Apply changes" and "Reset to default" buttons. To the right of the message input is a "Clear chat" button and a "Playground settings" icon. On the far right, there's a "Start chatting" section with a robot icon, a "Test your assistant by sending queries" note, and a text input placeholder "Type user query here. (Shift + Enter for new line)".

3. Select **Apply changes** to save your changes.

Project overview Settings

Get started

 Model catalog Model benchmarks Prompt catalog

Project playground

 Chat Completion Assistants PREVIEW Images

Tools

 Code PREVIEW Prompt flow Tracing Evaluation PREVIEW Fine-tuning PREVIEW

Components

 Data

## Chat playground

 Export View Code Prompt flow Evaluate Deploy to

Deployment \*

gpt-4

System message

Add your data Preview

Parameters



Please select the 'Apply changes' button below to apply your changes.

System message i

You're an AI assistant that helps people find information|

Type user query here. (Sh)



4. In the **Update system message?** dialog box, click on the **Continue button**\*\*\*

### Update system message?

Updating the system message will start a new chat session. Previous messages won't be included in new API requests.

 Do not show this again

5. In the chat session pane, enter the following question: **How much do the TrailWalker hiking shoes cost**, and then select the right arrow icon to send.

## Chat playground

Deployment \*  
gpt-4

System message

Add your data Preview

Parameters

Apply changes Reset to default

Start chatting

Test your assistant by sending queries below. Then adjust your assistant setup to improve the assistant's responses.

How much do the TrailWalker hiking shoes cost

19/128000 tokens to be sent

6. The assistant replies that it doesn't know the answer. The model doesn't have access to product information about the TrailWalker hiking shoes.

## Chat playground

Deployment \*  
gpt-4

System message

Add your data Preview

Parameters

Apply changes Reset to default

Start chatting

How much do the TrailWalker hiking shoes cost

As of my last update, I don't have real-time access to current prices or the ability to browse the internet. Prices for items like the TrailWalker hiking shoes can vary widely depending on the brand, model, retailer, and any ongoing sales or promotions. To find the most accurate and up-to-date price for TrailWalker hiking shoes or any specific brand or model, I recommend checking directly

Type user query here. (Shift + Enter for new line)

138/128000 tokens to be sent

In the task, you'll add your data to the model to help it answer questions about your products.

### Task 6: Add your data using chat model

- ? You upload your local data files to Azure Blob storage and create an Azure AI Search index. Your data source is used to help ground the model with specific data. Grounding means that the model uses your data to help it understand the context of your question. You're not changing the deployed model itself. Your data is stored separately and securely in your Azure subscription.

1. In the Azure AI Studio playground, select **Chat** from the Project playground left menu.

Azure AI Studio / Copilot-AzureAI674 / All projects / contoso-outdoor-proj / Chat playground

## Chat playground

Export View Code Prompt flow Evaluate Deploy to a web app

Deployment: gpt-4

System message: Add your data Preview

Parameters: Apply changes Reset to default

System message: As of my last update, I don't have real-time access to

Type user query here. (Shift + Enter for new line)

Clear chat Playground settings

How much do

Project overview Settings Get started Model catalog Model benchmarks Prompt catalog Project playground Chat Completion Assistants PREVIEW Images Tools Code PREVIEW

This screenshot shows the 'Chat playground' pane in Azure AI Studio. On the left, there's a sidebar with sections like 'Project overview', 'Settings', 'Get started', 'Model catalog', 'Model benchmarks', 'Prompt catalog', 'Project playground' (which is expanded to show 'Chat', 'Completion', 'Assistants (PREVIEW)', 'Images', 'Tools', 'Code (PREVIEW)'), and 'Components'. The 'Chat' option under 'Project playground' is highlighted with a red box. The main area has tabs for 'Export', 'View Code', 'Prompt flow', 'Evaluate', and 'Deploy to a web app'. Under 'Deployment', 'gpt-4' is selected. The 'System message' section has a placeholder 'Add your data' with a 'Preview' button. Below it are 'Parameters' with 'Apply changes' and 'Reset to default' buttons. A note says 'As of my last update, I don't have real-time access to'. On the right, there's a large input field for 'Type user query here. (Shift + Enter for new line)' and buttons for 'Clear chat' and 'Playground settings'. A blue button labeled 'How much do' is partially visible. A note at the bottom right says 'As of my last update, I don't have real-time access to'.

2. On the **Chat playground** pane, select \*\*Add your data\*\* > **+ Add a new data source**.

Azure AI Studio / All hubs / Copilot-AzureAI768 / All projects / contoso-outdoor-proj / Chat playground

## Chat playground

Deploying web app: Deploying the web app takes a few minutes. You can view the status on the Deployments tab.

Export View Code Prompt flow Evaluate Deploy to a web app

Deployment: gpt-4

System message: Add your data PREVIEW

Parameters: Apply changes Reset to default

System message: You are an AI assistant that helps people find information.

Type user query here. (Shift + Enter for new line)

Clear chat Chat capabilities

Start chatting Test your assistant and improve the

Get started Model catalog Model benchmarks Prompt catalog Project playground Chat Assistants PREVIEW Images Completions Tools Code PREVIEW Prompt flow Tracing PREVIEW Evaluation PREVIEW Fine-tuning PREVIEW Components

This screenshot shows the 'Chat playground' pane in Azure AI Studio. The sidebar is identical to the previous one. The main area has tabs for 'Export', 'View Code', 'Prompt flow', 'Evaluate', and 'Deploy to a web app'. Under 'Deployment', 'gpt-4' is selected. The 'System message' section has a placeholder 'Add your data' with a 'PREVIEW' button, which is highlighted with a red box. Below it are 'Parameters' with 'Apply changes' and 'Reset to default' buttons. A note at the bottom says 'You are an AI assistant that helps people find information.'. On the right, there's a large input field for 'Type user query here. (Shift + Enter for new line)' and buttons for 'Clear chat' and 'Chat capabilities'. A note on the right says 'Start chatting Test your assistant and improve the'. A small robot icon is also present.

Get started

- Model catalog
- Model benchmarks
- Prompt catalog

Project playground

- Chat**
- Assistants PREVIEW
- Images
- Completions

Tools

- Code PREVIEW
- Prompt flow
- Tracing PREVIEW
- Evaluation PREVIEW
- Fine-tuning PREVIEW

Components

- Data
- Indexes
- Deployments

## Chat playground

ⓘ Deploying web app: Deploying the web app takes a few minutes. You can view the status on the Deployments tab.

→ Export ↗ View Code ⚙️ Prompt flow 🔧 Evaluate 🛡️ Deploy to a web app → Import

### Deployment \*

gpt-4

System message

Add your data PREVIEW

Parameters

Ask questions about your own data. Your data is stored securely in your Azure subscription. [Learn more about how your data is protected](#).

Select available project index \* ⓘ

Select available project index

+ Add a new data source

Type user query here. (Shift + Enter for new line)



Start chatting

Test your assistant by improving the assistant's responses.

3. In the **Add your data** page that appears, select **Data in Azure AI Studio** from the **Data source** dropdown.

**Add your data** PREVIEW

1 Source data  
2 Index settings  
3 Search settings  
4 Review and finish

**Select your data**  
Select the data you want the generative AI to reference so it can ground its responses on your specific data.  
Your data will be ingested into an Index, which allows the Generative AI model to quickly and accurately find information for your specific use case.

**Data source \*** ⓘ Select your data source 1

An Azure AI Search resource 2 ↗ an Azure AI Search

**Connect to an existing index**  
Azure Blob Storage

**Create a new index**  
**Data in Azure AI Studio** 2  
Storage URL  
Upload files

Next Create Cancel

4. In the **Add your data** page, select **product-info** folder and click on **Next** button.

## Add your data

PREVIEW

- 1 Source data
- 2 Index settings
- 3 Search settings
- 4 Review and finish

### Select your data

Select the data you want the generative AI to reference so it can ground its responses on your specific data.

Your data will be ingested into an Index, which allows the Generative AI model to quickly and accurately find information for your specific use case.

Data source \* ⓘ

Data in Azure AI Studio

Search

Filter

Columns

Name	Type	Modified on
data-fabliclakehouse	UriFolder	Jul 16, 2024 10:03 AM

« < Page 1 of 1 > » 25/Page

ⓘ An Azure AI Search resource and an Azure Open AI connection will be required to index your data. [Create a new Azure AI Search resource](#) and create a connection to it to select it while creating an index.

Next

Create

Cancel

5. In **Index storage** pane , under **Select Azure AI Search** service select **AI search service** (you've created in Exercise 1>Task 3) and enter **ai-fabric-indexXX**(XXcan be unique number) for the Index name. Click on **Next** button.

## Add your data

PREVIEW

- 1 Source data
- 2 Index settings
- 3 Search settings
- 4 Review and finish

### Index settings

Configure your index

#### Index storage \*

Azure AI Search

#### Select Azure AI Search service \* ⓘ

mysearchservice65

[Create a new Azure AI Search resource](#)

#### Index name \* ⓘ

ai-fabric-index23

#### Schedule updates \* ⓘ

One time indexing (no scheduled updates)

#### Virtual machine \* ⓘ

Auto select  Select from recommended options  Select from all options

Selecting a virtual machine will incur additional costs.

Back

Next

Create

Cancel

6. **Vector settings** type should be selected by default and click on the **Next** button.

## Add your data PREVIEW

- Source data
- Index settings
- Search settings
- Review and finish

### Configure search settings

Adding vector search supports: Hybrid (vector + keyword search), Hybrid + Semantic (most accurate search results for generative AI applications), Vector, Semantic and Keyword retrieval. Hybrid will be set as default and can be changed at inference time in the playground. Not adding vector search supports: Keyword and Semantic retrieval. Keyword will be set as default and can be changed at inference time in the playground. Adding vector search requires an Azure OpenAI embedding model. [Learn more](#)

#### Vector settings

Add vector search to this search resource

#### Select an embedding model \* ⓘ

copilotazureai8089922217\_aoai

Azure OpenAI embedding model, **text-embedding-ada-002 (Version 2)**, will be deployed if not already. Adding vector embeddings will incur usage to your account. [View pricing](#)

[Back](#) [Next](#)

[Create](#)

[Cancel](#)

7. Review the details you entered, and select **Create**.

## Add your data PREVIEW

- Source data
- Index settings
- Search settings
- Review and finish

### Review and finish

Review the configurations you set for your index

#### Index name

ai-fabric-index23

#### Index storage

Azure AI Search

#### Azure AI Search connection

mysearchservice65

#### Include vector settings

Yes

#### Embedding model connection

copilotazureai8089922217\_aoai

#### Schedule

OneTime

#### Compute

Serverless compute (Auto select)

[Back](#)

[Create](#)

[Cancel](#)

8. The data will be added in your Chat Playground. This will take approximately 10-15 minutes.

## Chat playground

ⓘ Deploying web app: Deploying the web app takes a few minutes. You can view the status on the Deployments tab.

|→ Export | </> View Code | ⚙️ Prompt flow | 📈 Evaluate | 🏛 Deploy to a web app | → Import |

Gain insights into your own data source. Your data is stored securely in your Azure subscription. [Learn more about how your data is protected.](#)

Ingestion status

Step 1 of 3  
Allocating compute resource - In progress

Start chatting

Type user query here. (Shift + Enter for new line)

Remove data source

This screenshot shows the 'Chat playground' interface. At the top, there's a message about deploying a web app. Below that is a navigation bar with options like 'Export', 'View Code', 'Prompt flow', 'Evaluate', 'Deploy to a web app', and 'Import'. A note about data security is present. The main area has two sections: 'Ingestion status' on the left and a 'Start chatting' box on the right. The 'Ingestion status' box shows 'Step 1 of 3' is 'Allocating compute resource - In progress'. The 'Start chatting' box has a placeholder 'Type user query here.' and a 'Show JSON' toggle. A 'Remove data source' button is also visible.

## Chat playground

ⓘ Deploying web app: Deploying the web app takes a few minutes. You can view the status on the Deployments tab.

|→ Export | </> View Code | ⚙️ Prompt flow | 📈 Evaluate | 🏛 Deploy to a web app | → Import |

Ingestion status

Step 1 of 3  
Cracking and chunking - Completed

Step 2 of 3  
Creating Azure AI Search Index - Completed

Step 3 of 3  
Registering Index - In progress

Start chatting

Type user query here. (Shift + Enter for new line)

This screenshot shows the 'Chat playground' interface with completed ingestion steps and one step in progress. The 'Ingestion status' section lists three steps: Step 1 (Cracking and chunking) is completed, Step 2 (Creating Azure AI Search Index) is completed, and Step 3 (Registering Index) is in progress. The 'Start chatting' box and 'Type user query here.' placeholder are present, along with the 'Show JSON' toggle.

## Chat playground

ⓘ Deploying web app: Deploying the web app takes a few minutes. You can view the status on the Deployments tab.

→ Export ↗ View Code ⚡ Prompt flow Evaluate Deploy to a web app → Import ⚡ Prompt samples

System message

Add your data PREVIEW

Parameters

Gain insights into your own data source. Your data is stored securely in your Azure subscription. [Learn more about how your data is protected.](#)

Index:

ai-fabric-index23

Search type:

Hybrid (vector + keyword) [Learn](#)

[more about different search types](#)

[Advanced settings](#)

 Remove data source

 Clear chat

 Chat capabilities

 Show JSON



Start chatting

Test your assistant by sending queries below. Then adjust your assistant setup to improve the assistant's responses.

Type user query here. (Shift + Enter for new line)

9. In the **Chat session** section, enter the following prompt in the\*\* User message\*\* text box and click on the **Send** icon

CodeCopy

 [How much do the TrailWalker hiking shoes cost](#)

## Chat playground

ⓘ Deploying web app: Deploying the web app takes a few minutes. You can view the status on the Deployments tab.

→ Export ↗ View Code ⚡ Prompt flow Evaluate Deploy to a web app → Import ⚡ Prompt samples

System message

Add your data PREVIEW

Parameters

Gain insights into your own data source. Your data is stored securely in your Azure subscription. [Learn more about how your data is protected.](#)

Index:

ai-fabric-index23

Search type:

Hybrid (vector + keyword) [Learn](#)

[more about different search types](#)

[Advanced settings](#)

 Remove data source

 Clear chat

 Chat capabilities

 Show JSON

Start chatting

Test your assistant by sending queries below. Then adjust your assistant setup to improve the assistant's responses.

How much do the TrailWalker hiking shoes cost

20/128000 tokens to be used

10. You can expand the **references** button to see the data that was used.

## Chat playground

Deploying web app: Deploying the web app takes a few minutes. You can view the status on the Deployments tab.

I → Export | </> View Code | ⚡ Prompt flow | Evaluate | Deploy to a web app | Import | Prompt samples

System message Add your data PREVIEW

Parameters

Clear chat Chat capabilities Show JSON

Gain insights into your own data source. Your data is stored securely in your Azure subscription. [Learn more about how your data is protected.](#)

Index: ai-fabric-index23

Search type: Hybrid (vector + keyword) [Learn more about different search types](#)

Advanced settings >

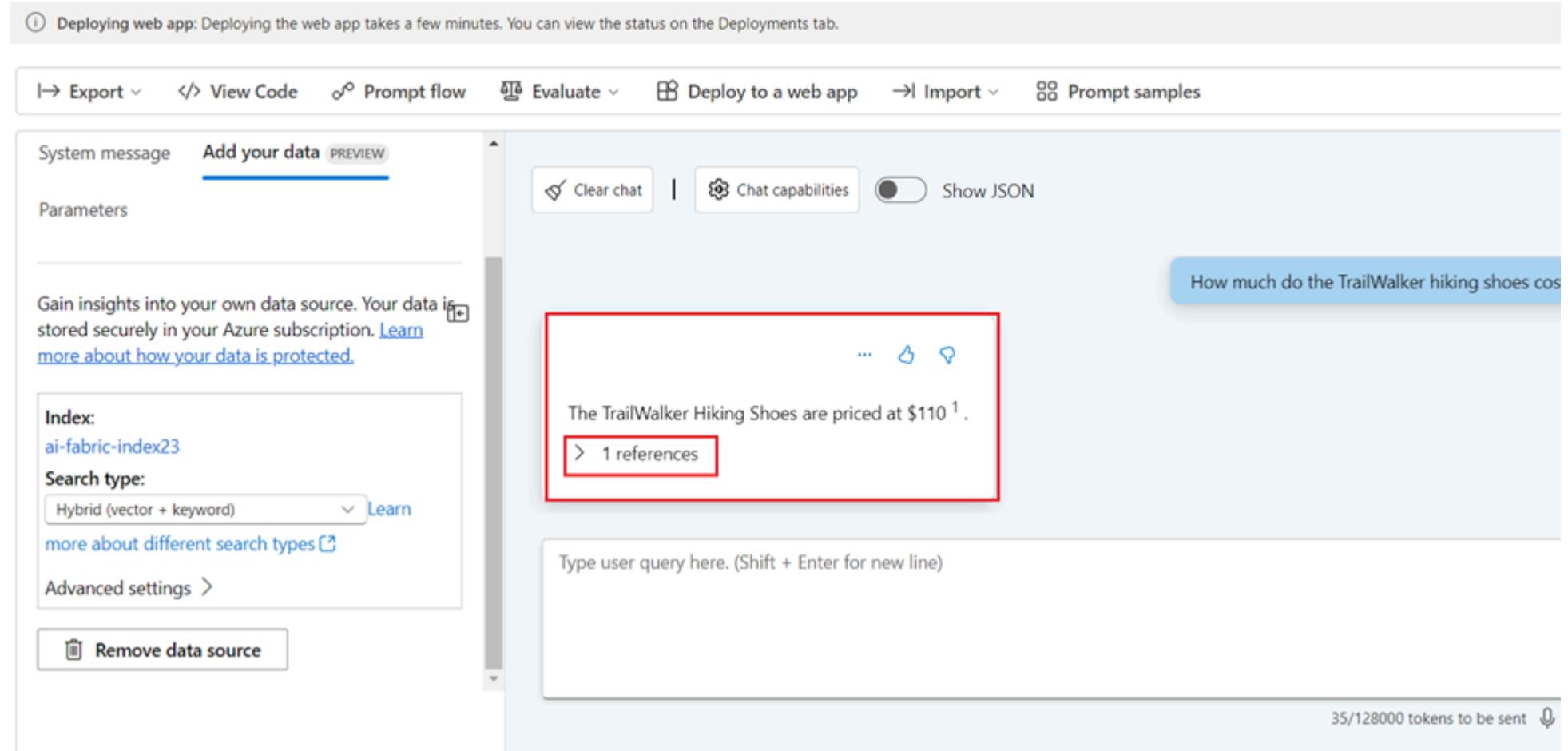
Remove data source

The TrailWalker Hiking Shoes are priced at \$110<sup>1</sup>.  
1 references

Type user query here. (Shift + Enter for new line)

How much do the TrailWalker hiking shoes cost?

35/128000 tokens to be sent



### Task 7: Create a prompt flow from the playground

1. Select **Prompt flow** from the menu above the **Chat playground** pane.

Azure AI Studio / Copilot-AzureAI674 / All projects / contoso-outdoor-proj / Chat playground

Project contoso-outdoor-proj

To all projects

Current project contoso-outdoor-proj

Project overview

Settings

Get started

Model catalog

Model benchmarks

Prompt catalog

Project playground

Chat (selected)

Completion

Assistants PREVIEW

Images

Tools

Chat playground

I → Export | </> View Code | ⚡ **Prompt flow** | Evaluate | Deploy to a web app | Import | Prompt samples

System message Add your data Preview

Parameters

Clear chat Playground settings Show JSON

Gain insights into your own data source. Your data is stored securely in your Azure subscription. [Learn more about how your data is protected.](#)

Index: product-info

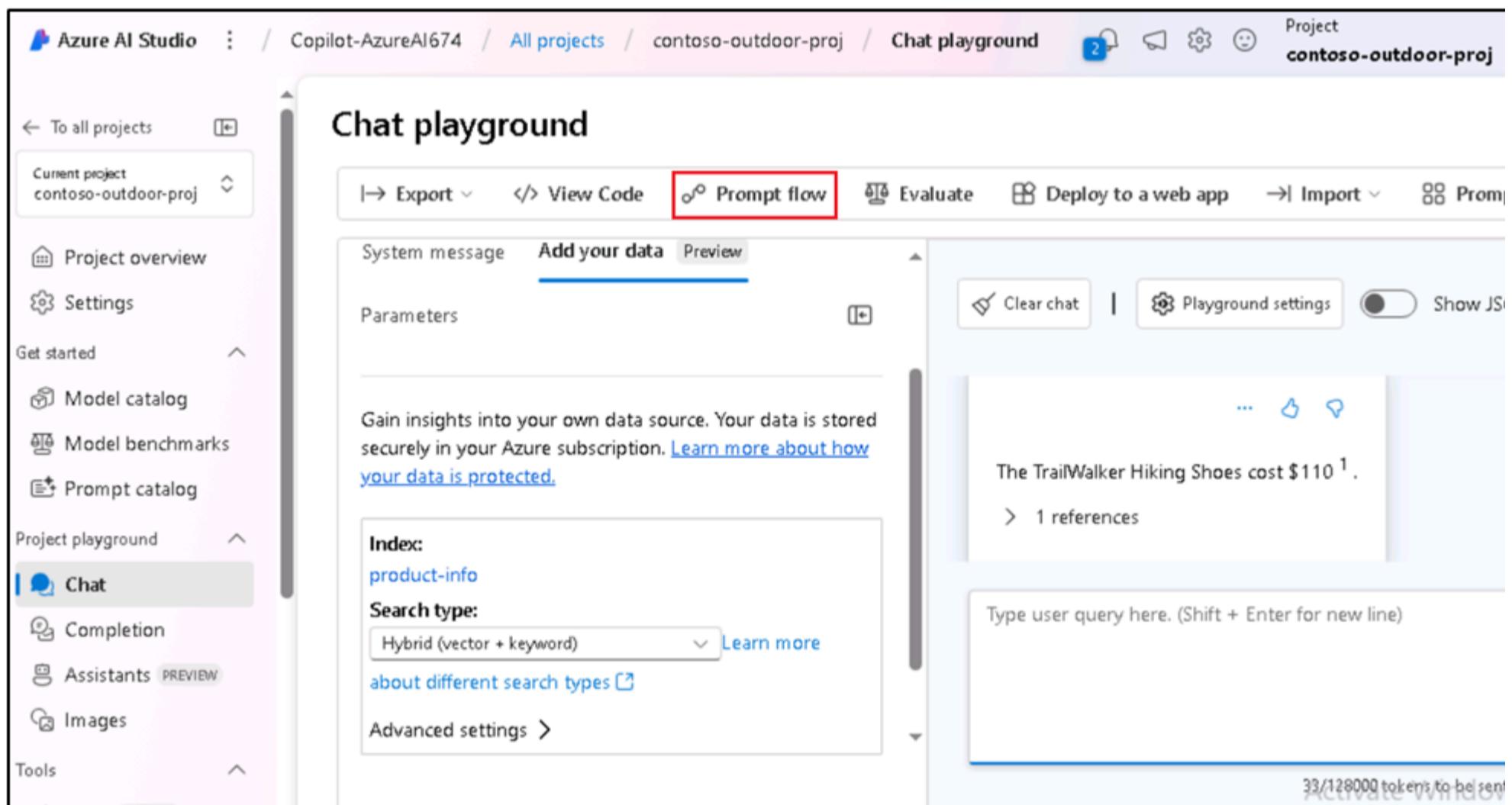
Search type: Hybrid (vector + keyword) [Learn more about different search types](#)

Advanced settings >

The TrailWalker Hiking Shoes cost \$110<sup>1</sup>.  
1 references

Type user query here. (Shift + Enter for new line)

33/128000 tokens to be sent



2. Enter a folder name for your prompt flow as **Contoso outdoor flow**. Then select **Open**. Azure AI Studio exports the playground chat environment including connections to your data to prompt flow.

## Orchestrate and customize this setup with prompt flow

Your playground setup will be exported to prompt flow, ending this playground session. Any index that was created here can be found in Indexes.

### Storage location \* ⓘ

Users/aoaitfs006351/promptflow

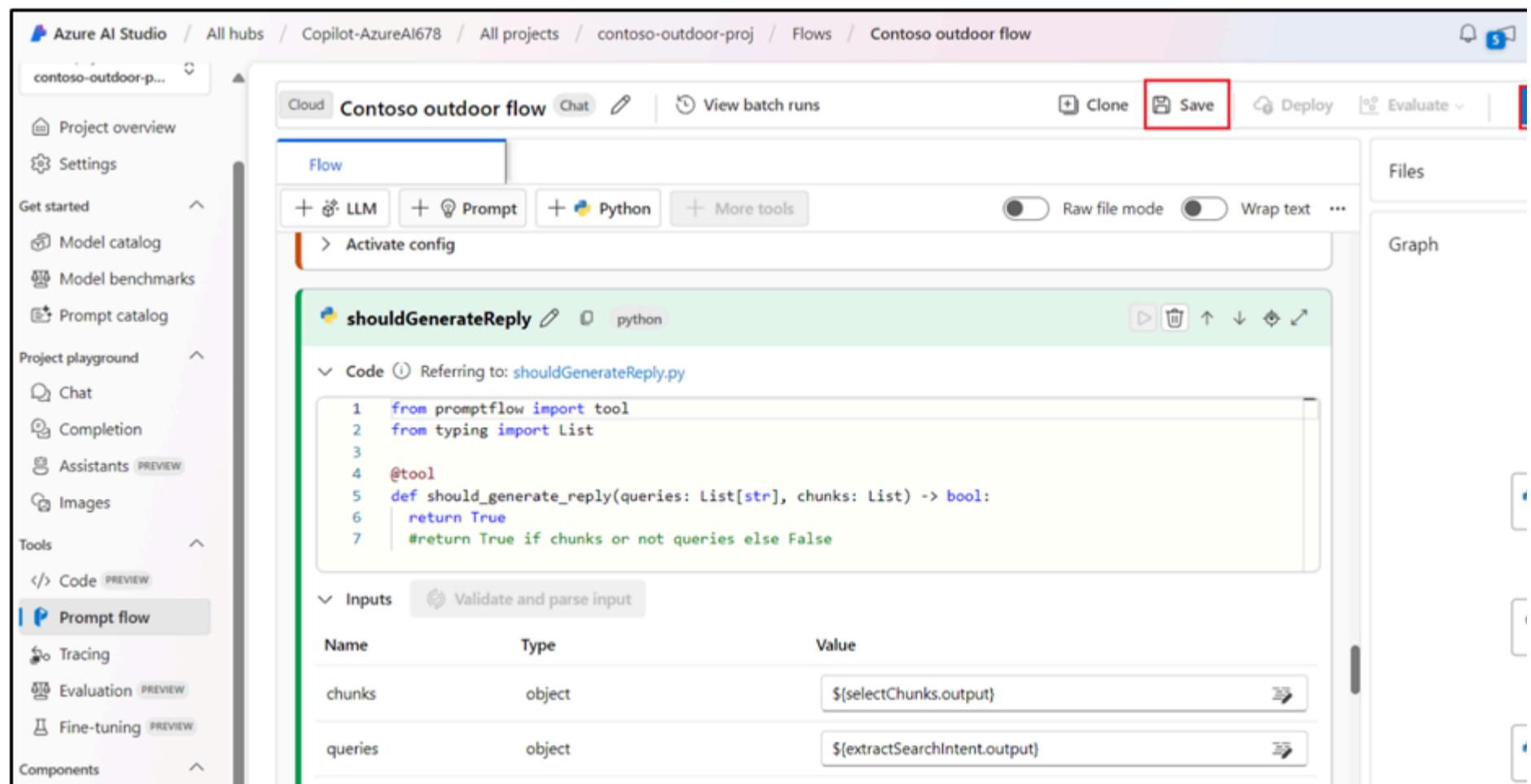
### Folder name \* ⓘ

Contoso outdoor flow

Open

Cancel

- **Save button:** You can save your prompt flow at any time by selecting **Save** from the top menu. Be sure to save your prompt flow periodically as you make changes in this tutorial.
- **Start compute session button:** You need to start a compute session to run your prompt flow. You can start the session later in the tutorial. You incur costs for compute instances while they are running



- To facilitate node configuration and fine-tuning, a visual representation of the workflow structure is provided through a DAG (Directed Acyclic Graph) graph. This graph showcases the connectivity and dependencies between nodes, providing a clear overview of the entire workflow. The nodes in the graph shown here are representative of the playground chat experience that you exported to prompt flow.

Cloud Contoso outdoor flow Chat View batch runs Clone Save Deploy Evaluate Start compute session

**\* Flow**

+ LLM + Prompt + Python + More tools Raw file mode ...

**shouldGenerateReply** python

Code Referring to: [shouldGenerateReply.py](#)

```
1 from promptflow import tool
2 from typing import List
3
4 @tool
5 def should_generate_reply(queries: List[str], chunks: List) -> bool:
6     return True
7     #return True if chunks or not queries else False
```

Inputs Validate and parse input

Name	Type	Value
chunks	object	`\${selectChunks.output}`
queries	object	`\${extractSearchintent.output}`

> Activate config

**formatGenerateReplyInputs** python

Graph

```

graph TD
    inputs --> formatRewriteIntentInputs
    formatRewriteIntentInputs --> rewriteIntent
    rewriteIntent --> extractSearchintent
    extractSearchintent --> querySearchResource
    querySearchResource -- feedback --> formatRewriteIntentInputs
  
```

Activated 100% Go to Settings

3. Select **Start compute session** from the top menu.

Azure AI Studio / All hubs / Copilot-AzureAI768 / All projects / contoso-outdoor-proj / Flows / Contoso outdoor flow

To all projects Current project contoso-outdoor-p... Project overview Settings Get started Model catalog Model benchmarks Prompt catalog Project playground Chat Assistants PREVIEW Images Completions Tools Code PREVIEW Remove data source

Contoso outdoor flow Chat View batch runs Clone Save Deploy Evaluate Start compute session

**Flow**

+ LLM + Prompt + Python ... Raw file mode ...

**shouldGenerateReply** python

Code Referring to: [shouldGenerateReply.py](#)

```
1 from promptflow import tool
2 from typing import List
3
4 @tool
5 def should_generate_reply(queries: List[str], chunks: List) -> bool:
6     return True
7     #return True if chunks or not queries else False
```

Inputs Validate and parse input

Name	Type	Value
chunks	object	`\${selectChunks.output}`

Graph

```

graph TD
    unlabeledInput --> chunkDocuments
    chunkDocuments --> selectChunks
    selectChunks --> shouldGenerateReply
    unlabeledInput --> shouldGenerateReply
  
```

4. It will take 1-3 minutes to **start compute session**

https://flows.microsoft.com/projectflows/50aa0017-rebc-43e2-00f1-042210005558/54c2ae7-00f1-4055-00de-014d11274a00/details?wsId=/subscriptions/d557205e-05c0-45d0-9161-130437371110/resourceGroup

```

Flow
+ LLM + Prompt + Python ...
23 - **Read the user's query, conversation history, and retrieved d
24 - Try your best to understand the user's query (prior conversati
25 - Classify a query as 'in-domain' if, from the retrieved documen
26 - For queries not upheld by the documents, or in case of unavail
27 - You have the ability to answer general requests (**no extra fa
28 - You don't have the ability to access real-time information, si
29 - Think twice before you decide whether the user's query is real
30 - If you have decided the user's query is an in-domain question,
31   * You **must generate citations for all the sentences** whic
32   * You must generate the answer based on all relevant informa
33   * You cannot use your own knowledge to answer in-domain ques
34 - If you have decided the user's query is an out-of-domain quest
35   * Your only response is "The requested information is not av
36 - For out-of-domain questions, you **must respond** with "The re
37
38 ### On Your Ability to Do Greeting and General Chat
39 - **If the user provides a greeting like "hello" or "how are you
40 - Be prepared to handle summarization requests, math problems, a
41
42 ### On Your Ability to Answer In-Domain Questions with Citations
43 - Examine the provided JSON documents diligently, extracting inf
44 - **You must generate a citation for all the document sources yo
45 - **The citation mark [doc+index] must be placed at the end of t
46 - **Every claim statement you generate must have at least one ci
47
48 ### On Your Ability to Refuse Answering Real-Time Requests

```

Graph

```

graph TD
    start(( )) --> chunkDocuments[chunkDocuments]
    chunkDocuments --> selectChunks[selectChunks]
    selectChunks --> shouldGenerateReply[shouldGenerateReply]
    shouldGenerateReply --> generateReply[generateReply]

```

5. Select **Save** from the top menu to save your changes. Remember to save your prompt flow periodically as you make changes.

6. Continue from the previous section with the **outputs** node selected. Make sure that the **reply** output has the **Chat output** radio button selected. Otherwise, the full set of documents are returned in response to the question in chat.

Contoso outdoor flow Chat Completed | View batch runs View

Flow

+ ⚡ LLM +💡 Prompt ... Raw file mode Wrap text ...

chat\_I list Chat history

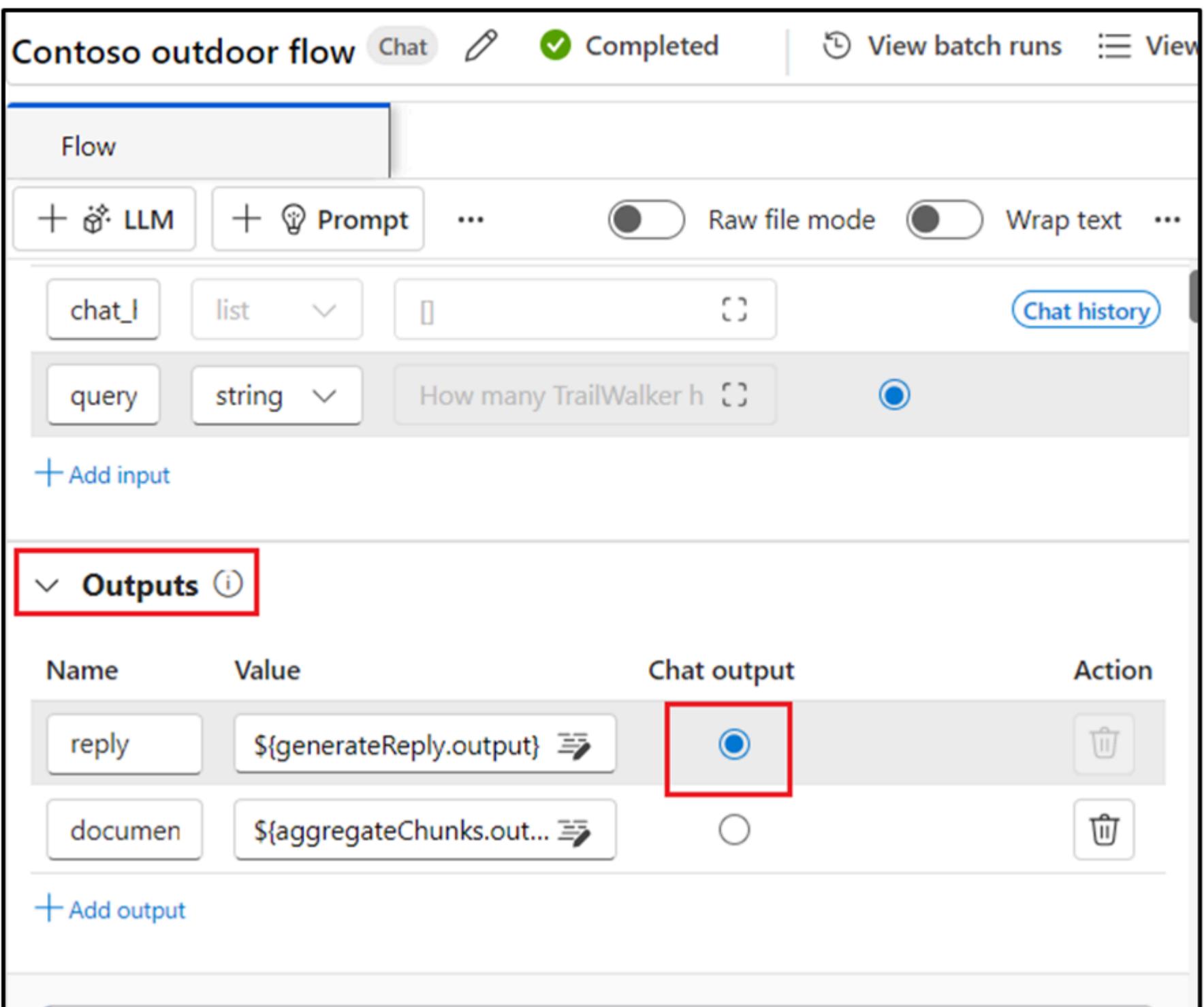
query string How many TrailWalker h

+ Add input

▼ Outputs

Name	Value	Chat output	Action
reply	`\${generateReply.output}`		
document	`\${aggregateChunks.out...}`		

+ Add output



7. Select **Chat** from the top menu in prompt flow to try chat.

Flows / Copilot-AzureAI768 / All projects / contoso-outdoor-proj / Flows / Contoso outdoor flow Project contoso-outdoor-proj

Contoso outdoor flow Chat ... Clone Save Deploy Evaluate Compute session running

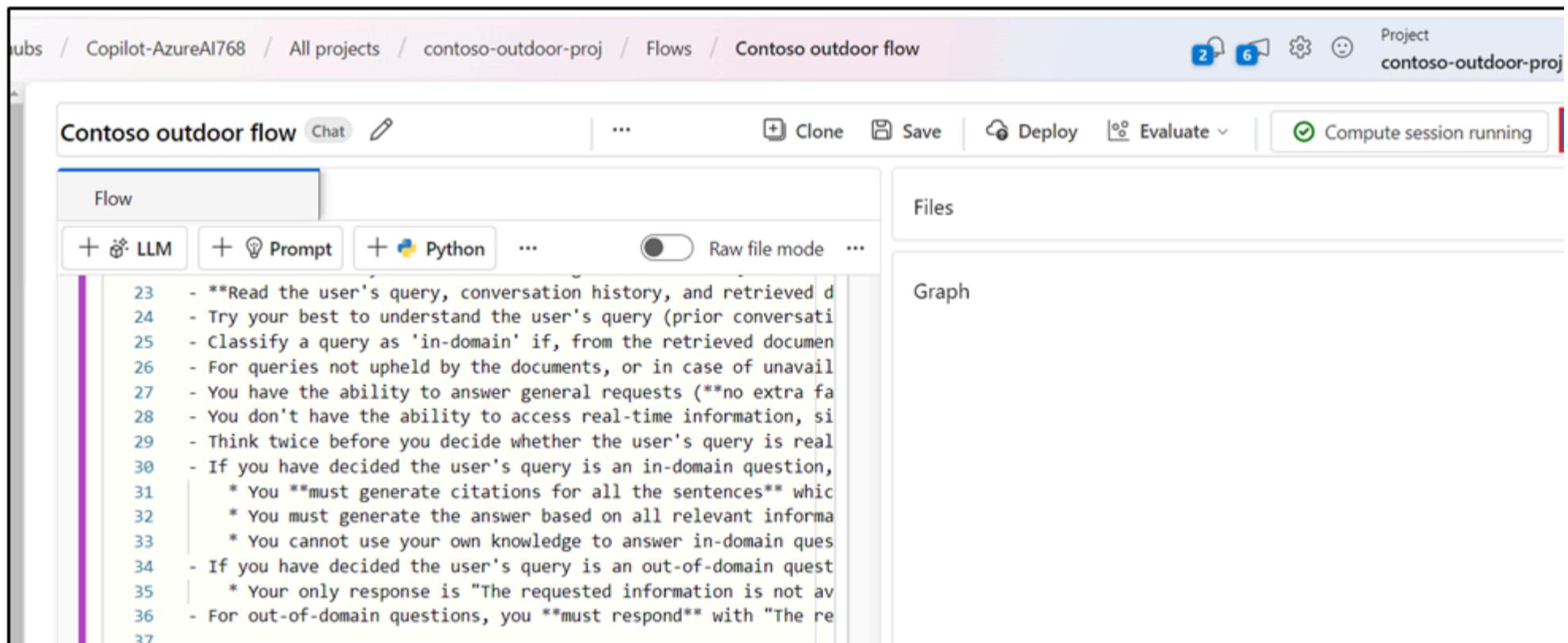
Flow

+ ⚡ LLM +💡 Prompt + Python ... Raw file mode ...

```
23 - **Read the user's query, conversation history, and retrieved d
24 - Try your best to understand the user's query (prior conversati
25 - Classify a query as 'in-domain' if, from the retrieved documen
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31   * You **must generate citations for all the sentences** whic
32   * You must generate the answer based on all relevant informa
33   * You cannot use your own knowledge to answer in-domain ques
34 - If you have decided the user's query is an out-of-domain quest
35   * Your only response is "The requested information is not av
36 - For out-of-domain questions, you **must respond** with "The re
37
```

Files

Graph



8. Enter "How many TrailWalker hiking shoes did Daniel Wilson buy?" and then select the right arrow icon to send.

The screenshot shows the Microsoft Flow builder interface. On the left, there's a code editor window titled "Flow" containing Python code. The code includes comments about reading user queries, classifying them, and generating responses based on domain knowledge or external sources. It also handles general chat and citation requirements. On the right, there's a "Chat" window where a user has typed the question "How much do the TrailWalker hiking shoes cost".

```
23 - **Read the user's query, conversation history, and retrieved d
24 - Try your best to understand the user's query (prior conversati
25 - Classify a query as 'in-domain' if, from the retrieved documen
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46 - **Every claim statement you generate must have at least one ci
47
48 ### On Your Ability to Refuse Answering Real-Time Requests
```

**Note:** It might take a few seconds for the model to respond. You can expect the response time to be faster when you use a deployed flow

- 9. The response is what you expect. The model uses the customer info to answer the question.

The screenshot shows the Microsoft Flow builder interface. The "Flow" code editor is identical to the previous one. The "Chat" window on the right shows the user's question "How much do the TrailWalker hiking shoes cost" and the system's response: "The TrailWalker Hiking Shoes are priced at \$110 [doc2].". Below the response, there's a note about token usage: "Total tokens for generating this: 7786 tokens, time spent: 11.66 sec". There's also a placeholder text input field: "Input anything to test...".

Contoso outdoor flow Chat Completed | ... | Clone Save Deploy Evaluate | Compute session running

**Flow**

+ LLM + Prompt + Python ... Raw file mode ...

```

23 - **Read the user's query, conversation history, and retrieved d
24 - Try your best to understand the user's query (prior conversati
25 - Classify a query as 'in-domain' if, from the retrieved document
26 - For queries not upheld by the documents, or in case of unavail
27 - You have the ability to answer general requests (**no extra fa
28 - You don't have the ability to access real-time information, si
29 - Think twice before you decide whether the user's query is real
30 - If you have decided the user's query is an in-domain question,
    * You **must generate citations for all the sentences** which you
    * You must generate the answer based on all relevant information
    * You cannot use your own knowledge to answer in-domain questions
31 - If you have decided the user's query is an out-of-domain question,
    * Your only response is "The requested information is not available"
32 - For out-of-domain questions, you **must respond** with "The requested
33 - *** On Your Ability to Do Greeting and General Chat
34 - **If the user provides a greeting like "hello" or "how are you?" or casual chat like "I'm fine", then:
    - Be prepared to handle summarization requests, math problems, and formatting requests as well
35 - *** On Your Ability to Answer In-Domain Questions with Citations
36 - Examine the provided JSON documents diligently, extracting information relevant to the query
    - **You must generate a citation for all the document sources you have referred to at the end of the corresponding sentence**
    - **The citation mark [doc+index] must be placed at the end of the corresponding sentence**
    - **Every claim statement you generate must have at least one citation.**
37 - *** On Your Ability to Refuse Answering Real-Time Requests
38 - **You don't have the ability to access real-time information, since you cannot browse the web**
39 - % else %
40 - ## Very Important Instruction
41 - On your ability to answer out-of-domain questions:
    * As a chatbot, try your best to understand user's query (prior conversation can provide context)
    * Try your best to understand and search information provided by the retrieved documents
    * Try your best to answer user question based on the retrieved documents and your personal knowledge
42 - ## Your Ability to Answer with Citations
43 - Examine the provided JSON documents diligently, extracting information relevant to the query
    - **You must generate the citation for all the document sources you have referred to at the end of the corresponding sentence**
    - If no relevant documents are provided, **you cannot generate the response with citation**
    - The citation must be in the format of [doc+index].
    - **The citation mark [doc+index] must put the end of the corresponding sentence which contains the citation**
    - **The citation mark [doc+index] must not be part of the response sentence.**
44 - **You cannot list the citation at the end of response.**

```

How much do the TrailWalker hiking shoes cost

The TrailWalker Hiking Shoes are priced at \$110 [doc2].

Total tokens for generating this: 7786 tokens, time spent: 11.66 sec

How much do the TrailWalker hiking shoes cost

The TrailWalker Hiking Shoes are priced at \$110 [doc2].

Total tokens for generating this: 7823 tokens, time spent: 11.45 sec

Input anything to test...

Contoso outdoor flow Chat Completed | View batch runs | View test results | Clone Save Deploy Evaluate | Compute session running

**Flow**

+ LLM + Prompt + Python + More tools ... Raw file mode ...

```

28 - You don't have the ability to access real-time information, since you cannot browse the web
29 - Think twice before you decide whether the user's query is really an in-domain question
30 - If you have decided the user's query is an in-domain question, then:
    * You **must generate citations for all the sentences** which you have used from the retrieved documents
    * You must generate the answer based on all relevant information from the retrieved documents
    * You cannot use your own knowledge to answer in-domain questions.
31 - If you have decided the user's query is an out-of-domain question, then:
    * Your only response is "The requested information is not available in the retrieved documents"
32 - For out-of-domain questions, you **must respond** with "The requested information is not available in the retrieved documents"
33 - *** On Your Ability to Do Greeting and General Chat
34 - **If the user provides a greeting like "hello" or "how are you?" or casual chat like "I'm fine", then:
    - Be prepared to handle summarization requests, math problems, and formatting requests as well
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    - The citation must be in the format of [doc+index].
    - **The citation mark [doc+index] must put the end of the corresponding sentence which contains the citation**
    - **The citation mark [doc+index] must not be part of the response sentence.**
44 - **You cannot list the citation at the end of response.**

```

**Graph**

## Task 8: Deploy the flow

1. In the Prompt flow pane, select **Deploy** on the flow editor.

The screenshot shows the Microsoft Flow editor interface. At the top, there are buttons for Chat, Completed, View batch runs, View test results, Clone, Save, Deploy (which is highlighted with a red box), Evaluate, and Compute session running. The main area is titled 'Contoso outdoor flow' and contains a code-like representation of the flow logic. Below the logic is a 'Graph' section showing the flow's structure with five completed steps: 'formatRewriteIntentInputs', 'rewriteIntent', 'extractSearchIntent', 'querySearchResource', and 'chunkDocuments'. The 'Deploy' button at the top right is also highlighted with a red box.

2. Provide the requested information on the **Basic Settings** page in the deployment wizard. Select **Next** to proceed to the advanced settings pages.

The screenshot shows the 'Deploy Contoso outdoor flow' wizard. On the left, a sidebar lists steps: Advanced settings (selected), Endpoint (optional), Deployment (optional), Outputs & connections (optional), and Review. The main area shows deployment details: Endpoint name (contoso-outdoor-proj-bmvel), Deployment name (contoso-outdoor-proj-bmvel-1), Virtual machine (Standard\_D2as\_v4), Instance count (3), and Inferencing data collection (Enabled). At the bottom, there are 'Review + Create', 'Back', and 'Next' buttons, with 'Next' highlighted with a red box.

3. On the **Advanced settings - Endpoint** page, leave the default settings and select **Next**.

## Deploy Contoso outdoor flow

Basic settings

Advanced settings

Endpoint optional

Deployment optional

Outputs & connections optional

Review

Advanced settings - Endpoint

Authentication type ⓘ

Key-based

Microsoft Entra token-based(Azure AD)

Azure ML token-based

Public network access

Enable this option if you want to allow scoring requests to your endpoint from the internet. Disable this option if you want to allow scoring requests to your endpoint only from your resources in your virtual network. [Learn more](#)

Enable public network access

Identity type ⓘ

System-assigned  User-assigned

Enforce access to connection secrets (preview)

Enable this property will auto assign a connection reader role to the endpoint system-assigned identity if you have the connection reader permission, so that the endpoint can access connections used in the flow when perform inferencing. If you disable it, you'll need to grant Azure Machine Learning workspace connection reader to the endpoint identity manually. [Learn more](#)

Enabled

Metadata

Review + Create Back Next Cancel

4. On the **Advanced settings - Deployment** page, leave the default settings and select **Next**.

## Deploy Contoso outdoor flow

Basic settings

Advanced settings

Endpoint optional

Deployment optional

Outputs & connections optional

Review

Advanced settings - Deployment

Configure more attributes for your deployment. [Learn more](#)

Deployment tags ⓘ

Name : Value

Environment ⓘ

Use environment of current flow definition

Use customized environment

You can select other custom environment with different dependencies for your deployment. [Learn more](#)

Application Insights diagnostics ⓘ

Disabled

Your project does not have linked Application Insights. You need to [update your AI resource](#) and [link an AppInsights](#) first and deploy with this property enabled. [Learn more](#)

Review + Create Back Next Cancel

5. On the **Advanced settings - Outputs & connections** page, make sure all outputs are selected under **Included in endpoint response**.
6. Select **Review + Create** to review the settings and create the deployment.

## Deploy Contoso outdoor flow

Basic settings

Advanced settings

Endpoint optional

Deployment optional

Outputs & connections optional

Review

Advanced settings - Outputs & connections

Specify what flow outputs to be included in your endpoint response, and what connections to be used in your deployment. [Learn more](#)

Outputs

Output name	Type	Included in endpoint response
reply	string	<input checked="" type="checkbox"/>
documents	string	<input checked="" type="checkbox"/>

Connection

generateReply

Connection	Provider	Deployment name / Model
copilotazureai3640805165_3✓	AzureOpenAI	gpt-4

rewriteIntent

Connection	Provider	Deployment name / Model
copilotazureai3640805165_3✓	AzureOpenAI	gpt-4

**Review + Create** Back Next

7. Select **Create** to deploy the prompt flow.

## Deploy Contoso outdoor flow

Basic settings

Advanced settings

Endpoint optional

Deployment optional

Outputs & connections optional

Review

Review

Review the deployment settings

Basic settings

Endpoint name	contoso-outdoor-proj-neejz
Deployment Name	contoso-outdoor-proj-neejz-1
Virtual machine	Standard_D2a_v4
Instance count	1
Inferencing data collection	Enabled
Application Insights diagnostics	Disabled

Deployment

Tags	No tags
Environment	Use environment of current flow definition

Outputs

Output name	Type
reply	string
documents	string

Endpoint

Authentication type	Key
Public network access	

Connection

Node name	Provider	Connection	Deployment name / Model

**Create** Back

8. To view the status of your deployment AI studio, select **Deployments** from the left navigation.

contoso-outdoor-proj

Project overview

Settings

Get started

- Model catalog
- Model benchmarks
- Prompt catalog

Project playground

- Chat
- Assistants PREVIEW
- Images
- Completion

Tools

- Code PREVIEW
- Prompt flow
- Tracing PREVIEW
- Evaluation PREVIEW
- Fine-tuning PREVIEW

Components

- Data
- Indexes
- Deployments
- Content filters

**Contoso outdoor flow** Chat Completed

Flow

+ LLM + Prompt ...  Raw file mode  Wrap text

chat\_1 list [ { "inputs": { "quer Chat history

query string How many TrailWalker h

+ Add input

**Outputs**

Name	Value	Chat output	Action
reply	\${generateReply.output}	<input checked="" type="radio"/>	
document	\${aggregateChunks.out...}	<input type="radio"/>	

+ Add output

**formatRewriteIntentInputs** python

Code Referring to: [formatConversationForIntentRewriting.py](#)

```
1 from promptflow import tool
2 from typing import List
3 from ragcore.formatConversationForIntentRewriting import format_
4
5
6
```

**Define an endpoint to deploy your model**

All available model and app deployments are displayed here.

**Model deployments** App deployments

+ Deploy base model Refresh Edit Delete Open in playground Reset view

Name	Model name	Model version	State	Content filter
copilotazureai8089922217_aoai Azure OpenAI Connection				
gpt-35-turbo	gpt-35-turbo	0613	Succeeded	Default ⓘ
gpt-4	gpt-4	1106-Preview	Succeeded	Default ⓘ
text-embedding-ada-002	text-embedding-ada-002	2	Succeeded	Default ⓘ
contoso-outdoor-proj-bmvel Endpoint				
contoso-outdoor-proj-b...	contoso-outdoor-proj-bmvel		Creating	

9. Select the contoso-outdoor-proj deployment. If you see a message that says "Currently this endpoint has no deployments" or the State is still Updating, you might need to select Refresh after a couple of minutes to see the deployment.

**Define an endpoint to deploy your model**

All available model and app deployments are displayed here.

**Model deployments** App deployments

+ Deploy base model Refresh Edit Delete Open in playground Reset view

Name	Model name	Model version	State	Content filter	Deploy
copilotazureai8089922217_aoai Azure OpenAI Connection					
gpt-35-turbo	gpt-35-turbo	0613	Succeeded	Default ⓘ	Standby
gpt-4	gpt-4	1106-Preview	Succeeded	Default ⓘ	Standby
text-embedding-ada-002	text-embedding-ada-002	2	Succeeded	Default ⓘ	Standby
contoso-outdoor-proj-bmvel Endpoint					
contoso-outdoor-proj-b...	contoso-outdoor-proj-bmvel		Creating		

## Define an endpoint to deploy your model

All available model and app deployments are displayed here.

[Model deployments](#) [App deployments](#)

[+ Deploy base model](#) [Refresh](#) [Edit](#) [Delete](#) [Open in playground](#) [Reset view](#)

Name	Model name	Model version	State	Content filter	Deployment type
copilotazureai8089922217_aoai	Azure OpenAI Connection				
gpt-35-turbo	gpt-35-turbo	0613	Succeeded	Default ⓘ	Standard
gpt-4	gpt-4	1106-Preview	Succeeded	Default ⓘ	Standard
text-embedding-ada-002	text-embedding-ada-002	2	Succeeded	Default ⓘ	Standard
contoso-outdoor-proj-bmvel	Endpoint				
contoso-outdoor-proj-b...	contoso-outdoor-proj-bmvel		Succeeded		

## Task 9: Delete the resources

>To avoid incurring unnecessary Azure costs, you should delete the resources you created in this quickstart if they're no longer needed. To manage resources, you can use the [Azure portal](#).

1. To delete the storage account, navigate to **Azure portal Home** page, click on **Resource groups**.

The screenshot shows the Microsoft Azure portal home page. At the top, there's a navigation bar with icons for search, notifications, and user profile. Below it, the main area has a title "Azure services" and a grid of service icons: Create a resource, Resource groups (which is highlighted with a red box), Azure OpenAI, Quickstart Center, Virtual machines, App Services, Storage accounts, and SQL databases. An arrow points from the "Resource groups" icon to the "More services" link. In the "Resources" section, there are tabs for "Recent" and "Favorite", with "Recent" being selected. It lists two resources: "aoai210705\_RG" (Resource group, last viewed 10 minutes ago) and "Azure-openai-test90" (Azure OpenAI, last viewed 17 hours ago). At the bottom, there's a "Navigate" section with links for Subscriptions, Resource groups, and All resources.

2. Click on the assigned resource group.

Microsoft Azure

Home >

## Resource groups

Contoso

+ Create    Manage view    Refresh    Export to CSV    Open query    A

Filter for any field...    Subscription equals all    Location equals all    Add

Showing 1 to 1 of 1 records.

Name ↑  
 [AI] AI-FabricRG89



3. In the **Resource group** home page, select the **delete resource group**

Microsoft Azure

Home > Resource groups >

### AI-FabricRG89

Resource group

Search    Create    Manage view    Delete resource group    Refresh

**Overview**

- Activity log
- Access control (IAM)
- Tags
- Resource visualizer
- Events
- Settings
- Monitoring

Subscription (move) : Azure Pass - Sponsorship  
Subscription ID : 85677dc1-5950-436b-9280-7c7f9306d95c  
Tags (edit) : Add tags

Resources    Recommendations

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

Showing 1 to 1 of 1 records.    Show hidden types



4. In the **Delete Resources** pane that appears on the right side, navigate to **Enter "resource group name" to confirm deletion** field, then click on the **Delete** button.
5. On **Delete confirmation** dialog box, click on **Delete** button.

## Delete confirmation

Deleting this resource group and its dependent resources is a permanent action and cannot be undone.

**Delete**

**Go back**

- 6. Click on the bell icon, you'll see the notification --**Deleted resource group AOOI-RG8**

## Notifications

X

[More events in the activity log →](#)

[Dismiss all](#) ▾

✓ Deleted resource group AI-FabricRG89

X

Deleted resource group AI-FabricRG89

a few seconds ago

- 7. Open your browser, navigate to the address bar, and type or paste the following URL:  <https://app.fabric.microsoft.com/> then press the **Enter** button.

Workspaces

Search

My workspace

All

AI-Fabric-675

Workspaces

AI-Fabric-675

Deployment pipelines

New workspace

8. Select the ... option under the workspace name and select **Workspace settings**.

Name	Type	Task	Owner	Refreshed	Next refresh	Endorsement	Sensitivity	Incl. in a
AI_Fabric_Lakehouse78	Lakehouse	—	AOAI TFS 006...	—	—	—	—	
AI_Fabric_Lakehouse78	Semantic mo...	—	AI-Fabric-675	7/15/24, 10:50:....	N/A	—	—	
AI_Fabric_Lakehouse78	SQL analytics...	—	AI-Fabric-675	—	N/A	—	—	

9. Select **General** and click on **Remove this workspace**.

## Workspace settings

### General

- License info
- Azure connections
- System storage
- Git integration
- OneLake
- Workspace identity
- Network security

### Power BI

### Data Engineering/Science

### Data Factory

### Notifications

#### Workspace contacts

Add the people you'll collaborate with in this workspace. Workspace contacts will get notifications about issues affecting the workspace. You must add at least one person.

AT AOOI TFS 006351 X

### OneDrive

#### Workspace OneDrive

Enter groups

### Manage

#### Delete workspace

This workspace will be permanently deleted after a retention period of 7 days, as defined by your Fabric administrator. Contact your Fabric administrator if you need to restore the workspace and recover the items in it during this retention period.

 Remove this workspace

10. Click on **Delete** in the warning that pops up.

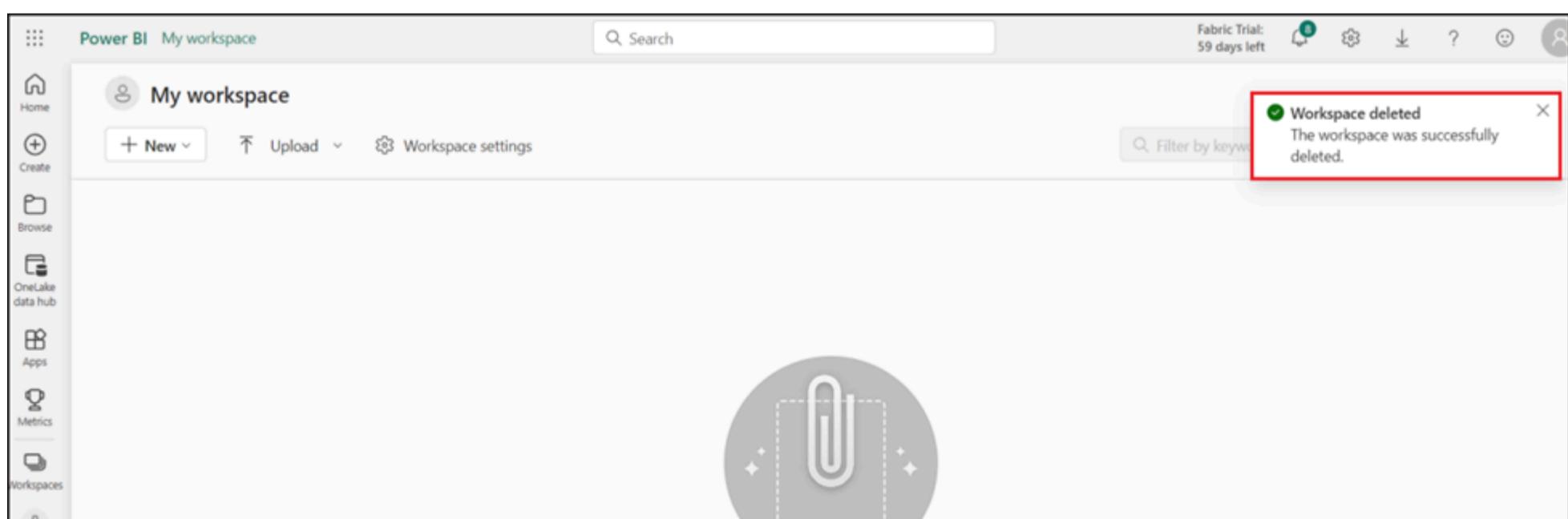
## Delete workspace?

You're about to delete this workspace. Are you sure you want to continue?

**Delete**

**Cancel**

11. Wait for a notification that the Workspace has been deleted, before proceeding to the next lab.



The screenshot shows the Power BI 'My workspace' interface. The top navigation bar includes 'Power BI' and 'My workspace'. The left sidebar has options like 'Home', 'Create', 'Browse', 'OneLake data hub', 'Apps', 'Metrics', and 'Workspaces'. The main area is titled 'My workspace' and contains buttons for '+ New', 'Upload', and 'Workspace settings'. A search bar and a 'Fabric Trial: 59 days left' status are also present. A prominent message box in the bottom right corner states 'Workspace deleted. The workspace was successfully deleted.' with a checkmark icon. The entire message box is enclosed in a red border.