

Set up Azure cloud services for GenAI workshop

A step-by-step guide to creating and using Azure storage, AI Search, OpenAI, AI Hub, and AI Project

1. Create a new Azure storage account and a container within that storage account

An Azure storage account provides a unique namespace to store and access your data objects in Azure Storage. A container organizes a set of blobs, similar to a folder in a file system.

To create a new Azure storage account and a container, follow these steps:

- Sign in to the Azure portal at portal.azure.com.
- On the Azure portal menu or from the Home page, select Create a resource.
- In the Search the Marketplace box, type storage account, and then select Storage account from the drop-down list.
- On the Storage account page, select Create.
- On the Basics tab of the Create storage account page, fill in the required fields, such as subscription, resource group, storage account name, location, performance, account kind, replication, and access tier.
- Select Review + create to review your settings and create the account.

After the account is created, select Go to resource to open the storage account overview page.

- On the storage account overview page, select Containers under the Blob service section.
- On the Containers page, select + Container to create a new container.
- On the New container page, enter a name for the container and select the private access level. Select OK to create the container.
- You can now upload, download, and manage blobs in your container.

2. Create a new Azure AI Search service

Azure AI Search is a cloud search service that provides a rich search experience over private and heterogeneous content in web, mobile, and enterprise applications. To create a new Azure AI Search service, follow these steps:

- Sign in to the Azure portal at portal.azure.com.
- On the Azure portal menu or from the Home page, select Create a resource.
- In the Search the Marketplace box, type AI Search, and then select AI Search from the drop-down list.
- On the AI Search page, select Create.
- On the Basics tab of the Create AI Search page, fill in the required fields, such as subscription, resource group, search service name, location, pricing tier, and hosting mode.
- Select Review + create to review your settings and create the service.
- After the service is created, select Go to resource to open the AI Search overview page.

3. Create Azure OpenAI Service

Azure OpenAI Service is a cloud service that allows you to access the powerful natural language processing capabilities of OpenAI through a simple API. To create a new Azure OpenAI Service, follow these steps:

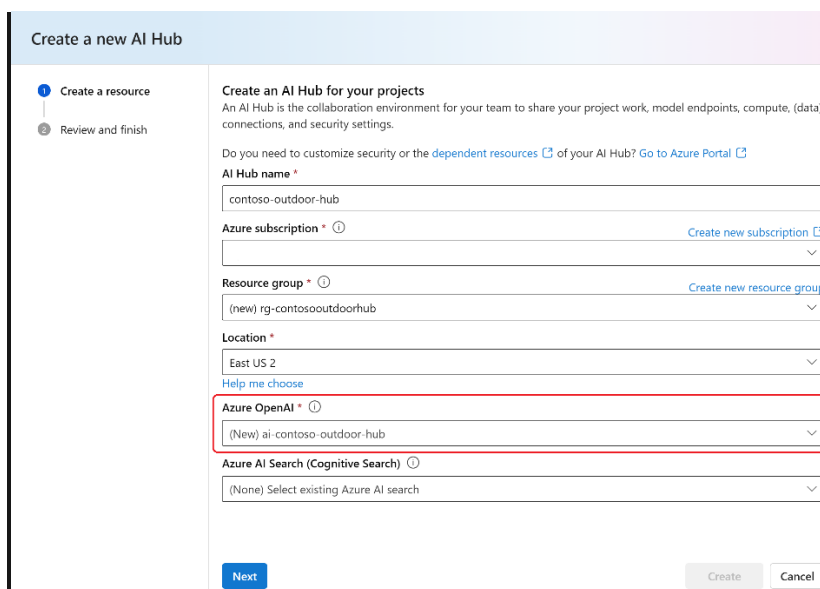
- Sign in to the Azure portal at portal.azure.com.
- On the Azure portal menu or from the Home page, select Create a resource.
- In the Search the Marketplace box, type OpenAI, and then select OpenAI from the drop-down list.
- On the OpenAI page, select Create.
- On the Basics tab of the Create OpenAI page, fill in the required fields, OpenAI account name, location, and pricing tier.
- Select Review + create to review your settings and create the account.
- After the account is created, select Go to resource to open the OpenAI overview page.
- On the OpenAI overview page, you can view the account URL, keys, and endpoints.

4. For the Azure OpenAI service created, create Azure AI Hub and Azure AI Project

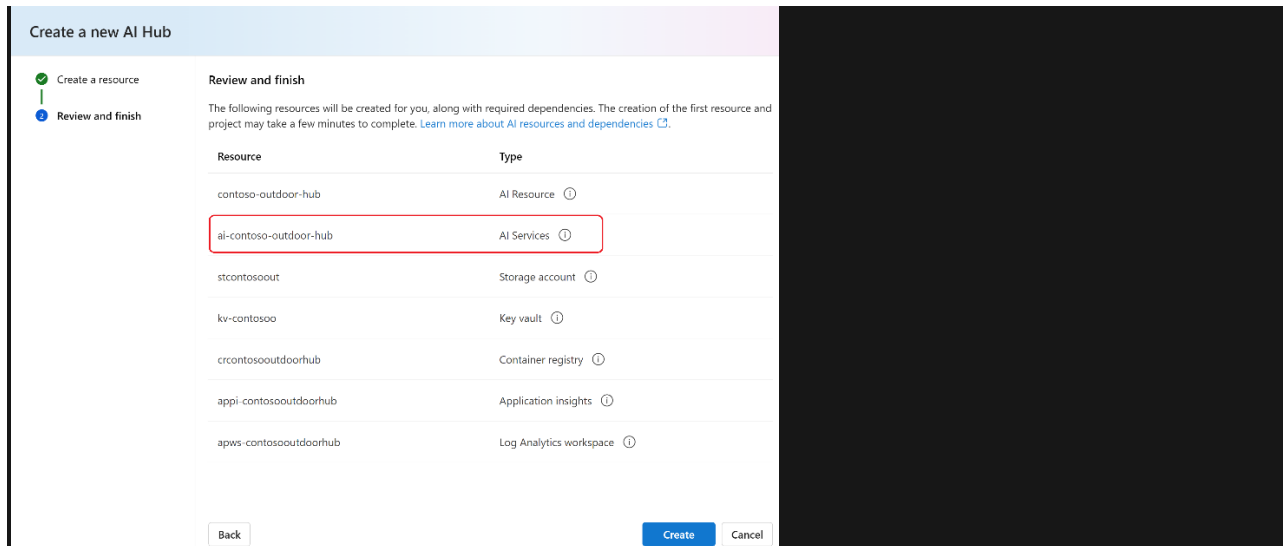
The Azure AI hub resource is the top-level Azure resource for AI Studio and provides the working environment for a team to build and manage AI applications. In Azure, resources enable access to Azure services for individuals and teams. Resources also provide a container for billing, security configuration and monitoring. The Azure AI hub resource can be used to access multiple Azure AI services with a single setup.

Follow these steps to create a new Azure AI hub resource in AI Studio.

- Go to Azure portal ➔ Azure OpenAI service resource you created above.
- From the Overview page of Azure OpenAI service, click on “Build in Azure AI Studio”
- Go to the **Manage** page in Azure AI Studio.
- Select **+ New AI hub**.
- Enter your AI hub name, subscription, resource group, and location details.
- In the **Azure OpenAI** dropdown, you can select an existing Azure OpenAI resource to bring all your deployments into AI Studio. If you don't bring one, we'll create one for you.

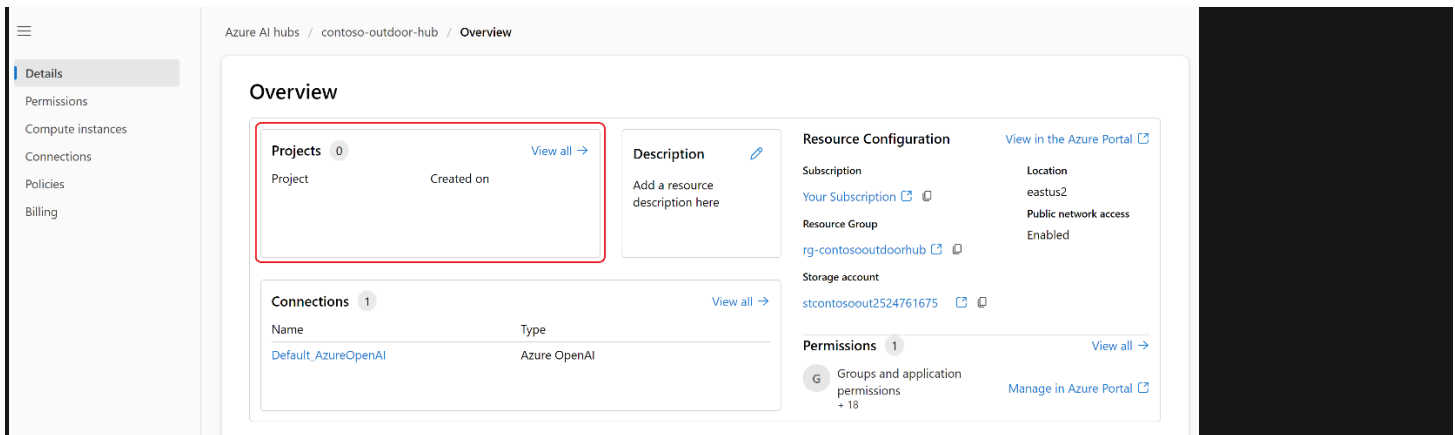


- Optionally, connect an existing Azure AI Search instance to share search indices with all projects in this Azure AI hub resource. An Azure AI Search instance isn't created for you if you don't provide one.
- Select **Next**.
- On the **Review and finish** page, you see the **AI Services** provider for you to access the Azure AI services such as Azure OpenAI.



- Select **Create**.

When the AI hub is created, you can see it on the Manage page in AI Studio. You can see that initially no projects are created in the AI hub. You can create a new project.



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Reference

- Create an AI Search service: [Create a search service in the portal - Azure AI Search | Microsoft Learn](#)
- Create an AI Hub workspace: [How to create and manage an Azure AI hub resource - Azure AI Studio | Microsoft Learn](#)
- Create an AI Project: [Create an Azure AI project in Azure AI Studio - Azure AI Studio | Microsoft Learn](#)