

# Introduction

**Data:** Please refer to the data folder in the GitHub repository shared with you during the event. Please refer to the Readme file in the GitHub repository for the data description and the problem statement

**Overview:** We'll build a chatbot powered by Azure AI services such as Azure AI Search, Azure Open AI, and Azure AI Studio. This chatbot will be capable of ingesting any document, responding to questions based on only the information available in the documents, and handling multi-turn conversations. Assuming this is our first AI chatbot project, we will detail the steps. We'll use Azure AI Studio to develop this solution and deploy a sample interactive web application.

If time permits, we'll also investigate how to change prompts and parameters like top\_k and their impact on responses. We will also try to give you a glimpse at other developer features, such as prompt flow and evaluation flow.

**Note:** In this step-by-step guide, we have used the resource configuration in table-1. You will receive your temporary values at the venue for this hackathon including a username.

Please follow the naming convention in Table 2 to create the names of the remaining Azure resources.

S No	Configuration	Name used in the documentation	Description
1	User name	Indonesia01	Azure User name provided
2	Azure subscription	Tiger analytics-01	Name of Azure Subscription
3	Location	Australia East	Location to create Azure Resources
4	Azure OpenAI	openai-tigeranalytics-01	Name of Azure OpenAI service

Table - 1

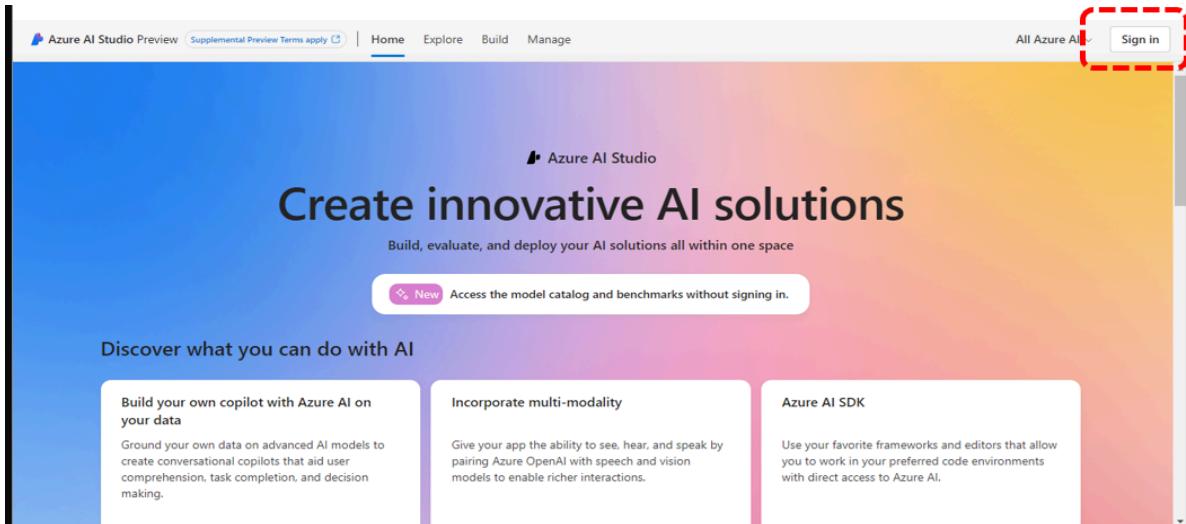
S No	Configuration	Naming Convention	Name used in documentation
1	Resource group name	rg-<User name>ai	rg-Indonesia01ai
2	Azure AI search	<User name>aisearch	Indonesia01aisearch
3	Connection storage name	<User name>docs	Indonesia01docs
4	Index name	ai-build-<User name>-index-<version>	ai-build-indonesia01-index-v8
5	Web app name	<User name>-web app	Indonesia01-web app

Table 2

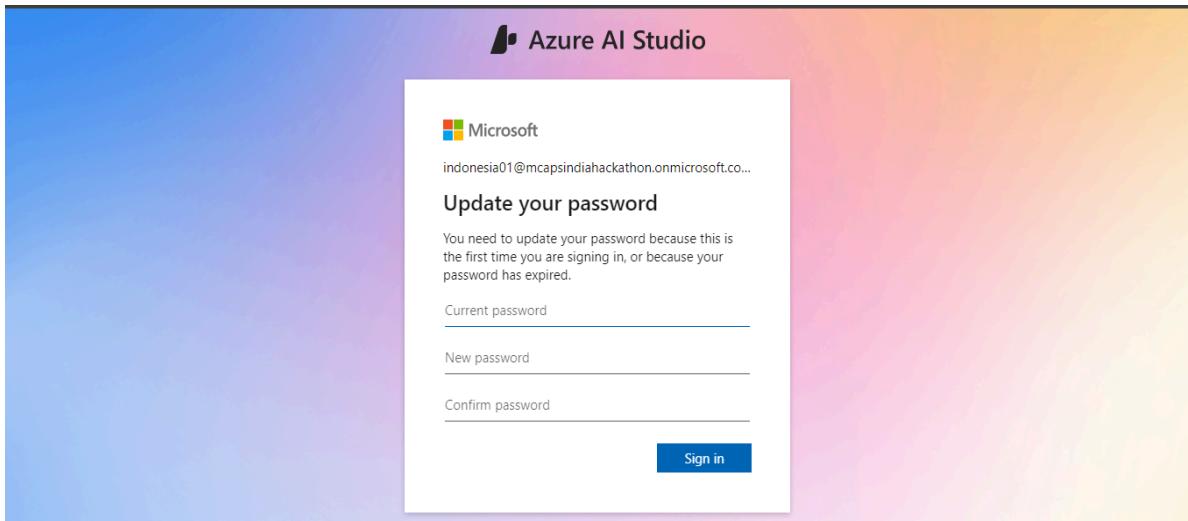
# Creating your project in AI Studio

## 1. Log in to the Azure AI Studio Portal

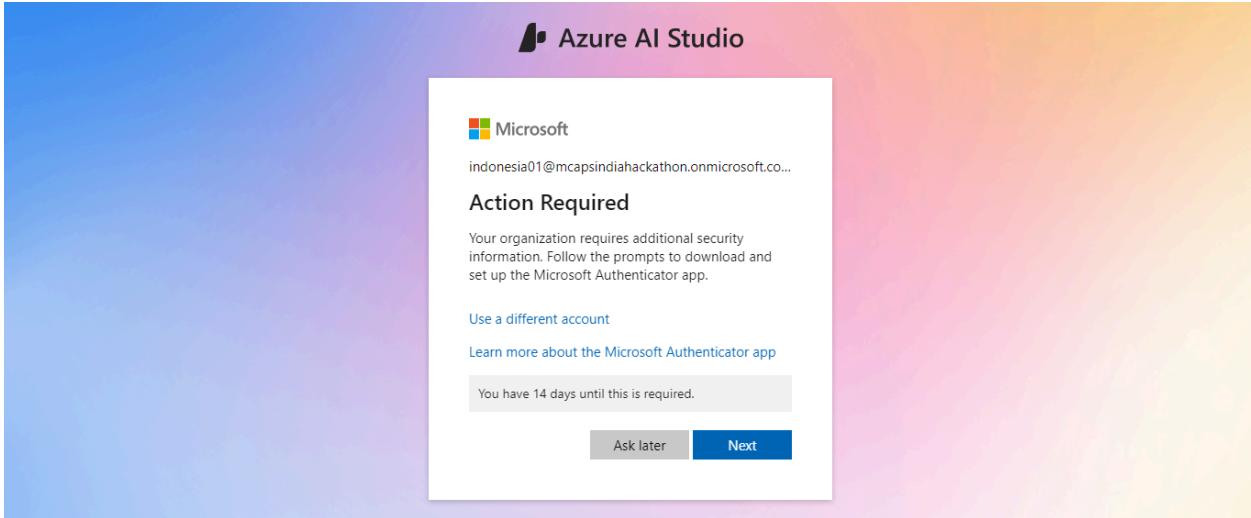
1. Please go to [Azure AI Studio](#) from your browser (please use Incognito/ private mode to avoid clashes with your existing work profile)
2. Click on the Sign-in Button and enter the credentials shared with you at the registration desk.  
(Please keep your slip with you till the end of the event)



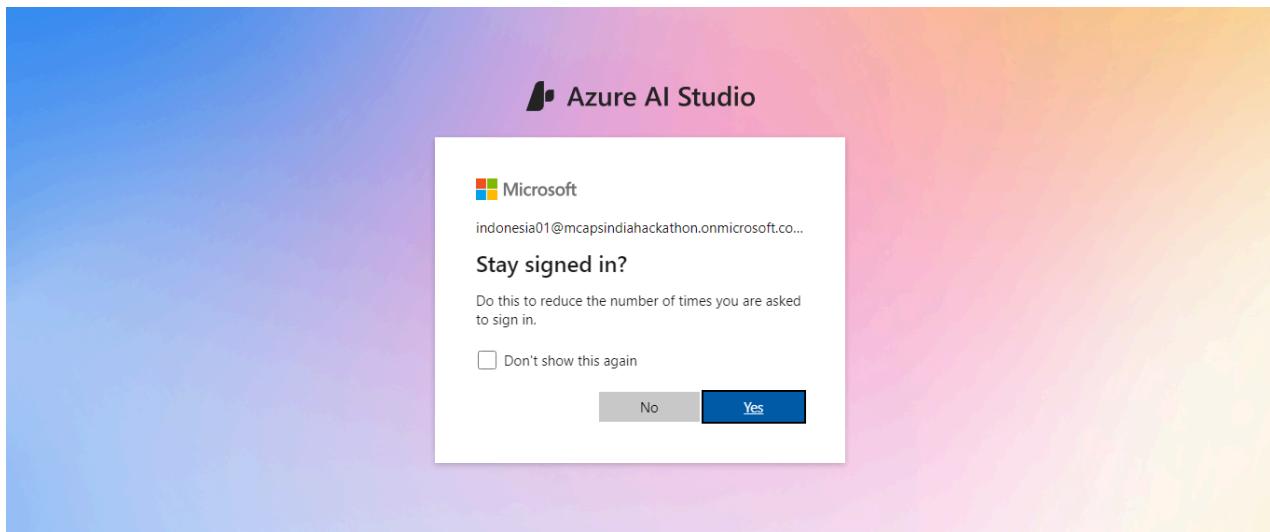
3. Please change the password after successful login.



4. Setup MFA/authenticator: Skip this step by clicking “Ask Later.” (If authenticator is a mandatory requirement, please choose “other method” for login and provide your phone number, you can sign-in through OTP)



5. Click on **Yes** in the next step.



## 2. Create a new project.

1. Go to the **Build** tab on the top and click on the **New AI Project** button

The screenshot shows the Azure AI Studio Preview interface with the 'Build' tab selected. The main area displays a table titled 'AI projects' with one entry: 'malaysia-user-test' under 'AI project', 'malaysia-test' under 'Resource', 'eastus2' under 'Region', and 'Mar 13, 2024 4:0' under 'Created on'. There are buttons for '+ New AI project', 'Refresh', 'Delete project', and 'Reset view'. A search bar and filter/columns options are also present.

2. Add a project name with the following naming convention in the **Create Project** window.  
“ai-build-” + login ID + version number. E.g. “ai-build-indonesia01-v1”
3. Click on **Create a new hub**. This should open a new window for the hub details.

The screenshot shows the 'Create a project' dialog. On the left, there's a sidebar with 'Project details'. In the main area, there's a 'Project details' section with a 'Project name \*' field containing 'ai-build-indonesia01-v1'. Below it is a 'Hub' section with a 'Select or search by name' dropdown and a 'Create a new hub' button. At the bottom right are 'Create a project' and 'Cancel' buttons.

4. In the new window,
  - a) Under the **Hub name**, your user ID will be populated by default. If not, please add an appropriate resource name (userid+“ai”, Ex: “Indonesia01ai”). If your user ID has dots in it, remove it.

- b) Under **Subscription**, select the default option. It will look like **Tiger analytics-<number>**, e.g. Tiger analytics-01
- c) Under the **Resource group**, select “(new) + <the name you added in the **Hub name**>,” which will be displayed by default.
- d) Under the **Location**, select **Australia East**.

**Create a project**

**Create a hub for your projects**  
A hub is the collaboration environment for your team to share your project work, model endpoints, compute, (data) connections, and security settings. [Learn more](#)

Do you need to customize security or the [dependent resources](#) of your hub? [Go to Azure Portal](#)

**Hub name \***  
Indonesia01\_ai

**Subscription \* ⓘ** [Create new subscription](#)  
Tiger analytics-01

**Resource group \*** [Create new resource group](#)  
(new) rg-Indonesia01ai

**Location \***  
Australia East [Help me choose](#)

**Connect Azure AI Services or Azure OpenAI \* ⓘ** [Create new AI Services](#)  
openai-tigeranalytics-101

**Connect Azure AI Search** [Create new AI Search](#)  
aihubsearch2401

**Back** **Next** **Create a project** **Cancel**

- e) Under **Azure OpenAI**, select the dropdown menu and select **the available Azure Open AI resource**. It will be in the format **openai-tigeranalytics-<number>**. e.g. **openai-tigeranalytics-01**
- f) Under **Connect Azure AI search**, select the option from the drop-down that looks like “**aihubsearch24<number>**” and click “**Next**”
- g) Review the details and Click on “**Create a project**” only if the resources are in the format as in the above screenshot. Otherwise, recheck the services, and if the service names do not match those shown below, please contact one of the event coordinators.
- h) Please wait while the Azure services are created for you. It might take a couple of minutes.

**Create a project**

Project details  
Create a hub  
Review and finish

**Review and finish**

The following resources will be created for you, along with required dependencies. The creation of the first hub and project may take a few minutes to complete. [Learn more about hubs and dependencies](#).

**Hub**  
Name: Indonesia01\_ai  
Subscription: Tiger analytics-01  
Resource group: rg-Indonesia01\_ai  
Location: australiaeast

**Project**  
Name: ai-build-Indonesia01-v1  
Subscription: Tiger analytics-01  
Resource group: rg-Indonesia01\_ai

**Linked Azure OpenAI**  
Name: openai-tigeranalytics-101

**AI Services**  
Name: ai-Indonesia01\_ai

**Linked Azure AI Search**  
Name: aihubsearch2401

[Back](#) [Create a project](#) [Cancel](#)

**Create a project**

Project details  
Create a hub  
Review and finish

**Review and finish**

The following resources will be created for you, along with required dependencies. The creation of the first hub and project may take a few minutes to complete. [Learn more about hubs and dependencies](#).

Resource	Type
(L) ai-build-Indonesia01-v1	AI project ⓘ
(L) Indonesia01_ai	AI hub ⓘ
(L) ai-Indonesia01_ai	AI Services ⓘ
(L) stindonesia0	Storage account ⓘ
(L) kv-indonesi	Key vault ⓘ

 [Validating resources...](#) [Create a project](#) [Cancel](#)

- i) It will automatically redirect you to the Project **Overview** page. Click on the **Playground** to start with the next step.

Azure AI Studio Preview | Build / indonesia01\_ai\_v7 / ai\_build-indonesia01-v7 / Overview | All Azure AI | Open project in VS Code (Web)

**ai\_build-indonesia01-v7**

Description

Add a project description here

Recently viewed

Resource type	Name	Status	Quick actions	Last viewed
There are no Recently viewed items to display				

### 3. Building your project

1. On the project page, notice the left-hand side navigation sidebar. Click on the **Playground** if you haven't yet. You will see the Playground in the screenshot below.

Azure AI Studio Preview | Build / indonesia01\_ai\_v8 / ai-build-indonesia01-v8 / Playground | All Azure AI | Open project in VS Code (Web)

**Playground**

Manual evaluation Deploy to a web app Import Export View Code ... Mode Chat

System message Add your data Examples

Replay chat Clear chat

Playground Settings Show JSON

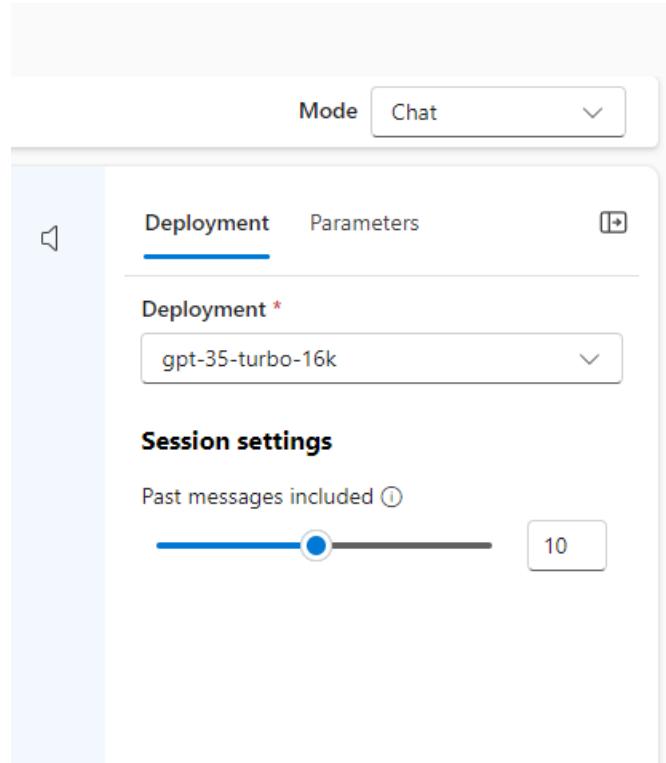
Select project index \* Deployment Parameters

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

Deployment: gpt-35-turbo-16k

Session settings: Past messages included 10

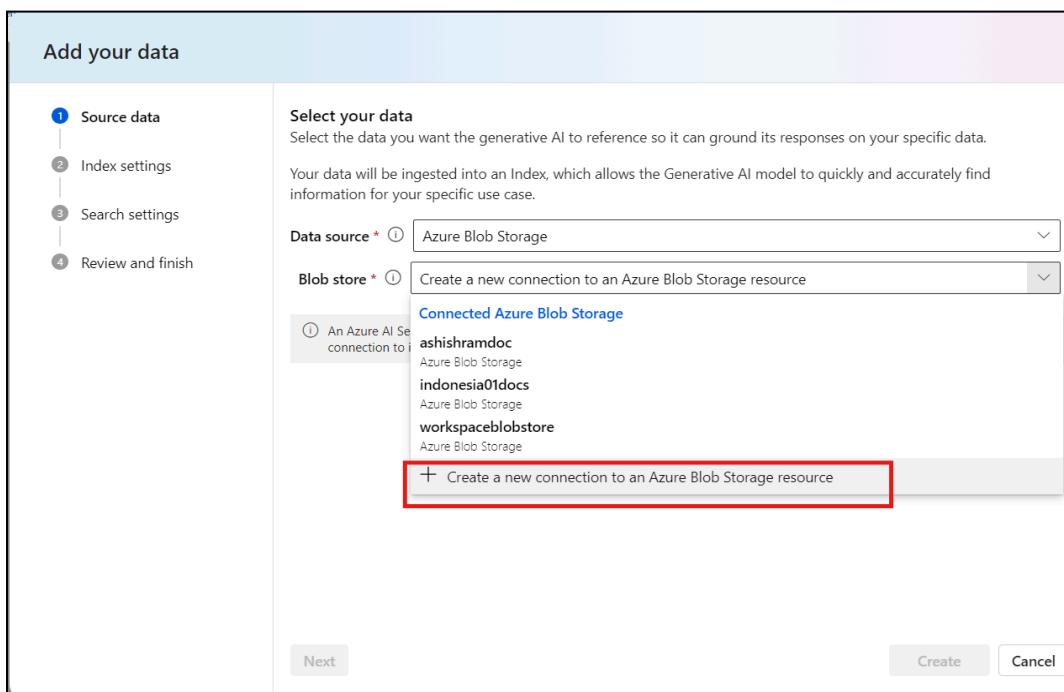
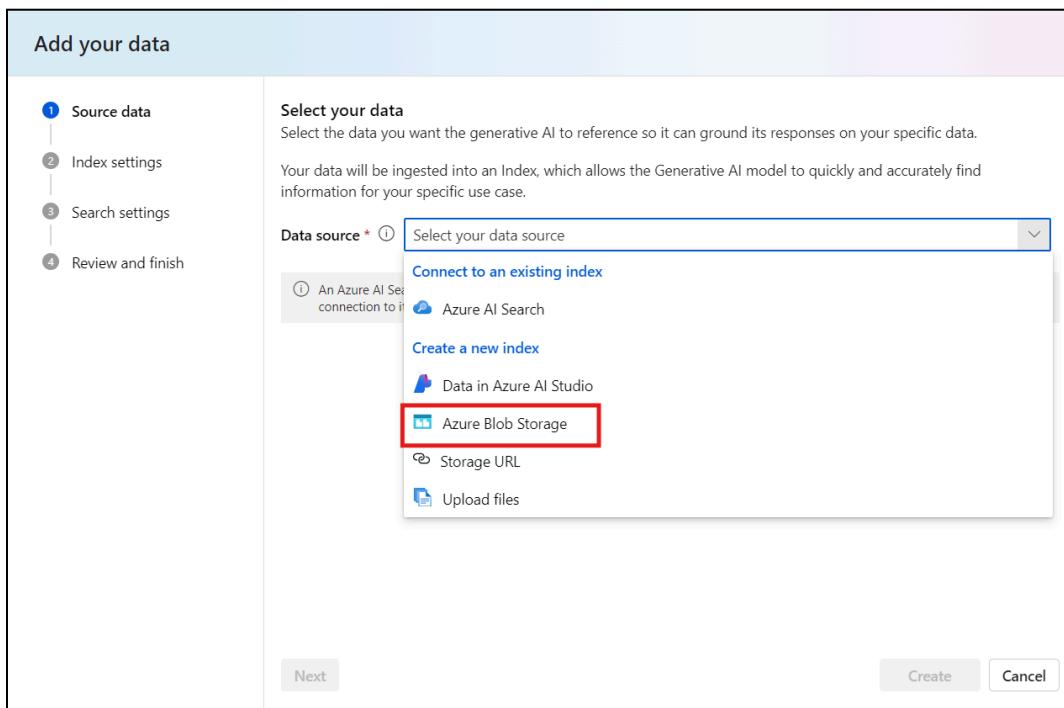
2. Let's confirm if we are connected to the Azure OpenAI Service. On the right-hand side panel of the project playground, make sure the **mode** is set to **chat**, click on deployment, select the model from the dropdown **gpt-35-turbo16k**, and change the **past messages to include 10**.



3. Now, let's add our data. On the left-hand side of the playground, go to **Add your Data** and click on **Add your Data**.

The screenshot shows the 'Playground' interface. On the left sidebar, under 'Tools', 'Playground' is selected. In the main area, there is a 'System message' and a 'Select available project index' dropdown, both of which have red boxes around them. A large red box highlights the 'Add your data' button. To the right, there is a 'Start chatting' section with a text input field and a green 'Send' button, also highlighted with a red box. The top navigation bar includes 'Build / indonesia01\_ai / ai-build-Indonesia01-v1 / Playground' and 'Mode Chat'.

4. Open the dropdown menu and select “**Azure Blob Storage**” and under Blob Storage, select “**Create a new connection to Azure Blob Storage resource**”. This will open a new window, in the new window select “**create a new connection to azure blob storage resource**” . Follow the instructions below to do that.



- i) The **subscription ID** will be populated by default. Select the **storage account**, which will be in the format **aihubsampledocs<numericid>** and **blob container** as **docs**, and select the **Authentication method** as **Microsoft Entra-Based Id**. Enter the **connection name** appropriately, “**user-id + document**”. Ex: “**Indonesia01docs**”

Add a connection to external assets

Service \*

Azure Blob Storage

Account selection method \*

Manually enter account information

Subscription ID \*

Tiger analytics-01 (57a36344-3906-4293-9991-5010c5255d5e)

Storage account \*

aihubsampledocs2401 (shared-resources)

Blob container \*

docs

Authentication method \* ⓘ

Microsoft Entra ID based

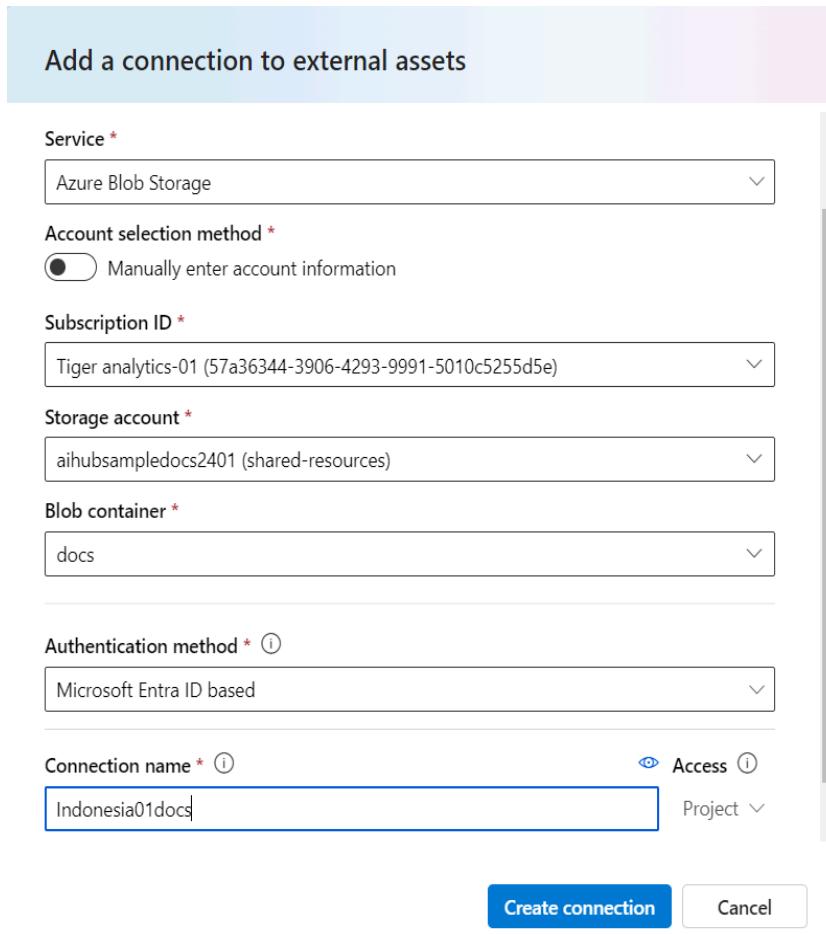
Connection name \* ⓘ

Indonesia01docs

Access ⓘ

Project

Create connection Cancel



- ii) Select data source as “Azure Blob Storage”. In the Blob store, select the connection you created earlier. E.g “**Indonesia01docs**”

**Add your data**

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 \* ① Azure Blob Storage

Blob store \* ① Select a Blob Store

An Azure AI Search connection to: indoneasiao1docs

- Azure Blob Storage
- rajeshdashdocs
- Azure Blob Storage
- rajeshdashdocs1
- Azure Blob Storage
- rajeshdashdocs2
- Azure Blob Storage
- workspaceblobstore
- Azure Blob Storage

+ Create a new connection to an Azure Blob Storage resource

Next Create Cancel

- iii) Select the **data** folder, and click **next**. You can also click on the “**data**” folder to go inside it and view individual PDF files. You can select individual files or the whole folder for the next step.

**Add your data**

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 \* ① Azure Blob Storage

Blob store \* ① indoneasiao1docs

Selected path: data/

Filter...

Name	Created on
data/	--

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

Next Create Cancel

- iv) Select the default “Azure AI search service”. In the **Index Settings**, use the index name as follows: “**ai-build-<userid>-index-<version>**”. Example **ai-build-indonesia01-index-v1**

The screenshot shows the 'Add your data' wizard in progress, specifically the 'Index settings' step (step 2). The left sidebar lists four steps: 'Source data' (green checkmark), 'Index settings' (blue circle with 2), 'Search settings' (grey circle with 3), and 'Review and finish' (grey circle with 4). The main area is titled 'Index settings' with the sub-instruction 'Configure your index'. It shows 'Index storage \*' set to 'Azure AI Search'. Under 'Select Azure AI Search service \*', 'AzureAISeach' is selected from a dropdown. The 'Index name \*' field contains 'ai-build-indoensasia01-index-v1'. Under 'Schedule updates \*', 'One time indexing (no scheduled updates)' is chosen. Below that, under 'Virtual machine \*', there are three radio button options: 'Auto select' (selected), 'Select from recommended options', and 'Select from all options'. A note states: 'Selecting a virtual machine will incur additional costs.' At the bottom are 'Back' and 'Next' buttons, and 'Create' and 'Cancel' buttons.

- v) Select the checkboxes to **Add Vector Search** and **acknowledgment** and select an embedding model from the dropdown, it should look like “**openai-tigeranalytics-<number>**”. Click **next**.

**Add your data**

**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

**Azure OpenAI resource \*** ⓘ  
openai-tigeranalytics-101

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**

vi) Review the steps, click **Create**, and wait a few minutes to finish.

**Add your data**

**Review and finish**  
Review the configurations you set for your index

**Index name**  
ai-build-indoensasia01-index-v1

**Index storage**  
Azure AI Search

**Azure AI Search connection**  
AzureAISearch

**Include vector settings**  
Yes

**Embedding model connection**  
openai-tigeranalytics-101

**Schedule**  
OneTime

**Compute**  
Serverless compute (Auto select)

**Back** **Create** **Cancel**

**Note:** After returning to the playground, you can see the index creation progress in the “Add your data” tab. It can take **5-7 mins** to finish. You can explore other features on the playground

during that time or take a small break. If it takes too long to load the indexed data, please try the following steps:

You can refresh the browser, Clear cookies, Close the browser, log in again, and navigate back to the project you created. If that does not work, contact one of our coordinators.

The screenshot shows the Azure AI Playground interface. At the top, there are navigation links: 'Build / indonesia01\_ai / ai-build-Indonesia01-v1 / Playground' and a button 'Open project in VS Code (Web)'. Below the navigation is a toolbar with icons for 'Export', 'View Code', 'Prompt flow', 'Evaluate', 'Deploy to a web app', 'Launch' (which is highlighted in blue), 'Import', and 'Prompt sample'.

The main area has tabs: 'System message', 'Add your data' (which is underlined in blue), and 'Examples'. There are buttons for 'Replay chat', 'Clear chat', and 'Playground settings'. A 'Show JSON' toggle switch is also present.

A system message box says: "Ask questions about your own data. Your data is stored securely in your Azure subscription. [Learn more about how your data is protected](#)".

The 'Add your data' section contains a dropdown menu titled "Select available project index \* ⓘ". The dropdown is open, showing "ai-build-indonesia01-index-v1", which is highlighted with a red rectangle.

To the right, there's a "Start chatting" section with a robot icon, a button to "Test your assistant by sending queries below. Then adjust your assistant setup to improve the assistant's responses.", and a text input field labeled "Type user query here. (Shift + Enter for new line)".

- vii) In the playground, select the **index** you have created, for example, **a-build-indonesia01-index-v1**,

- viii) Under the **Search type** dropdown, select **Hybrid (vector + keyword)**

The screenshot shows the 'Add your data' section of the Azure AI Playground. It includes tabs for 'System message', 'Add your data' (underlined in blue), and 'Examples'.

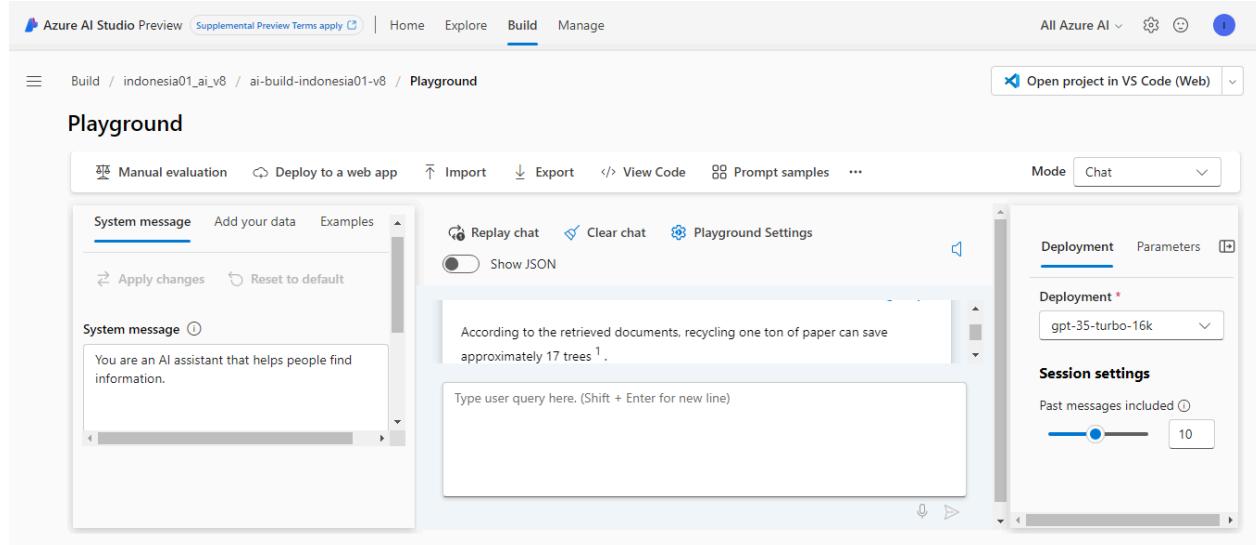
A system message box says: "Gain insights into your own data source. Your data is stored securely in your Azure subscription. [Learn more about how your data is protected](#)".

The 'Add your data' section has a dropdown menu titled "Index:" which shows "ai-build-indonesia01-index-v1". Below it is a "Search type:" dropdown menu with "Hybrid (vector + keyword)" selected. This "Search type:" dropdown is highlighted with a red rectangle.

Other options in the 'Add your data' section include "Advanced settings >" and a "Remove data source" button at the bottom.

## 4. Test the connection

1. Ask a question in the playground chat box (Ex: "How many trees can be saved by recycling one ton of paper?")
2. If you get a system response, the connection is set, and we're good to go to the next step.



3. The system is now set up to respond to general user questions. We can add our data in the backend to unlock the power of Azure AI studio, which is the ability to generate responses from the sources provided by the user.

## 5. Prompt

1. Define the system prompt in the prompt box and click on **Apply changes** to reflect the changes in the system responses.

The screenshot shows the Azure AI Studio Preview interface with the 'Playground' tab selected. On the left, there's a sidebar with 'Manual evaluation', 'Deploy to a web app', 'Import', 'Export', 'View Code', 'Prompt samples', and a three-dot menu. The main area has tabs for 'Mode' (set to 'Chat') and 'Chat'. A message box says 'Please select the 'Apply changes' button below to apply your changes.' Below it is a 'System message' box containing 'You are an AI assistant that helps people find information'. To the right, there's a 'Replay chat' button, a 'Clear chat' button, and a 'Playground Settings' button. A 'Show JSON' toggle is off. A text input field says 'According to the retrieved documents, recycling one ton of paper can save approximately 17 trees.' Below it is a placeholder 'Type user query here. (Shift + Enter for new line)'. On the far right, there's a 'Deployment' section with 'Deployment' set to 'gpt-35-turbo-16k' and a 'Session settings' section with a slider for 'Past messages included' set to 10.

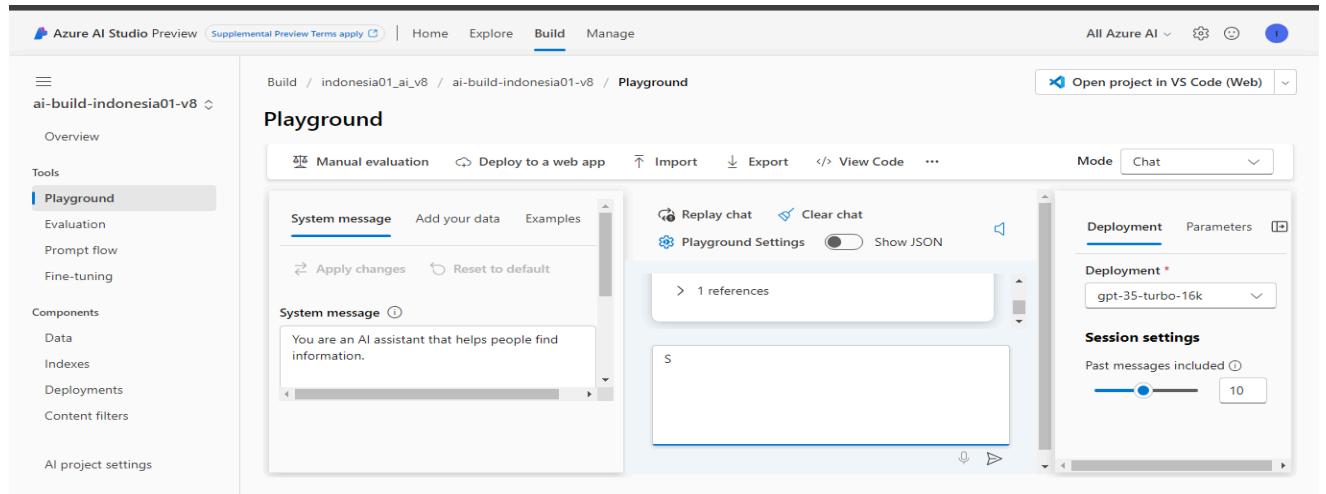
2. You can find the sample prompts in the **Prompt catalog** section in the **Explore** tab.

The screenshot shows the Azure AI Studio Preview interface with the 'Explore' tab selected. On the left, there's a sidebar with 'Model catalog', 'Model benchmarks', and 'Prompt catalog' (which is selected). The main area has a title 'Prompt catalog' and a sub-section 'Browse prompt samples for common use cases'. It says 'Choose a sample prompt to see how it works or as a starting point for your project. Then customize it for your scenario and evaluate how it performs before integrating into your app.' There's a 'Search' bar and a 'Filters' section. The 'Filters' section includes 'Modalities' (Image, Video, Completion, Chat) and 'Industries' (Retail, Education).

## 6. Start asking questions

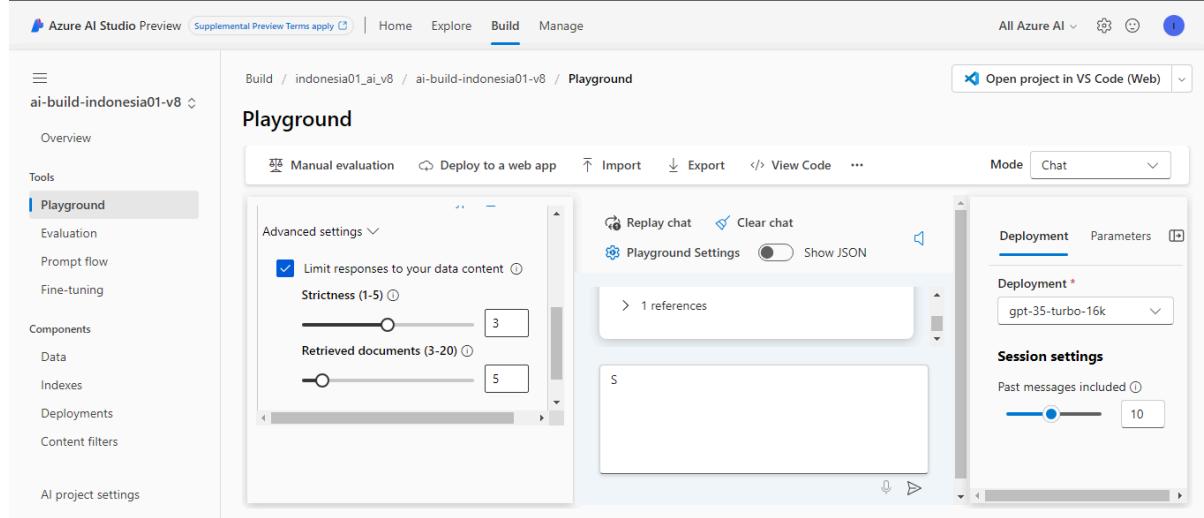
1. Check on the responses from the data and ask questions. Some sample questions on the data can be found [here](#) (Please clone the repository or download the zip and navigate to the sample QnA spreadsheet in the **Data** folder to view sample questions).

2. Please click the **Clear Chat** button in the chat box before asking an unrelated follow-up question.



## 7. Tweak the parameters

1. Suppose you want the responses to come not only from the source data alone but also from the external knowledge of the Azure OpenAI models. In that case, you can click on **Advanced Settings** under **Add your data** tab and uncheck **Limit responses to your data content**.
2. **Strictness** helps you set the threshold for relevant documents, and **Retrieved documents** help you set the number of chunks/documents that will be retrieved to answer the questions.



3. Please check this guide on [how to generate text with Azure OpenAI Service - Azure OpenAI | Microsoft Learn](#)
4. Tweak the model parameters from the **Parameters** tab. You can find the definition of the parameters [here](#).
5. Make changes to the prompts to change the response to how you like (for example, we can add to give the response in bullet points or a happy tone). Remember to click on **Apply Changes** after changing the prompt. You can click the **Replay chat** button to get responses to the existing questions in the updated prompt.

6. Define variables by using the **Add variable** section for easy prompt changes. For example, tone can be set as a variable in the prompt whose value can be changed easily across different runs. Example `{{format}}`

7. You can also **import** and **export** the chat settings (prompts, examples, parameters) to a JSON. This feature helps share your workspace settings while working as a team.

- You can also click on View Code to get executable code in the programming language of your choice with the Azure OpenAI, data, and index connections already set.

```

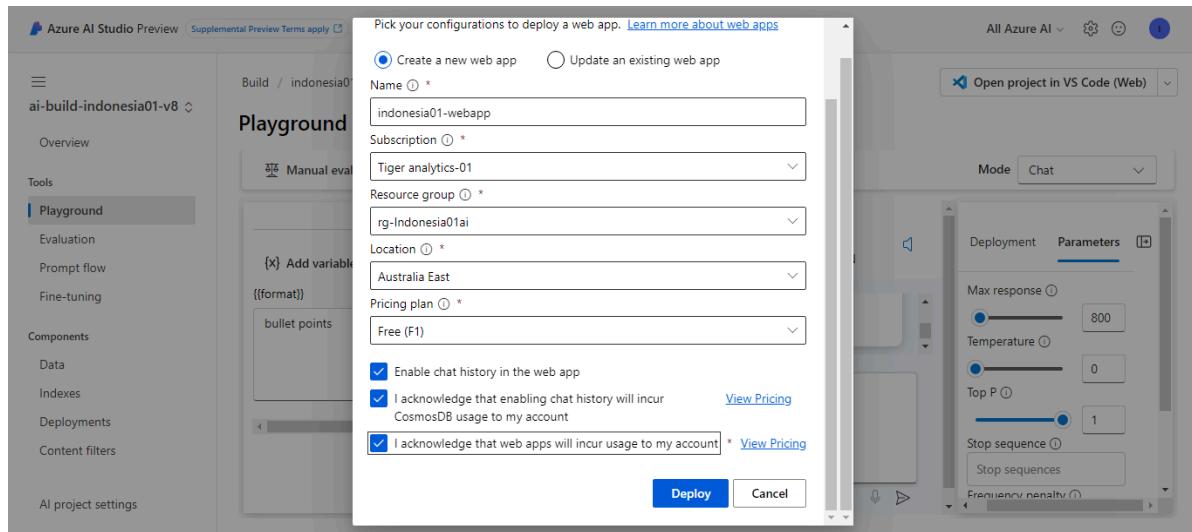
import openai, os, requests
openai.api_type = "azure"
# Azure OpenAI on your own data is only supported by the 2023-03-15 model version or later
openai.api_version = "2023-08-01-preview"
# Azure OpenAI setup
openai.api_base = "https://openai-tigeranalytics-01.openai.azure.com/"
openai.api_key = os.getenv("OPENAI_API_KEY") # Add your OpenAI API key here
deployment_id = "gpt-35-turbo-16k" # Add your deployment ID here
# Set deployment ID
model = openai.Model.list(deployment_ids=[deployment_id])
print(model)

```

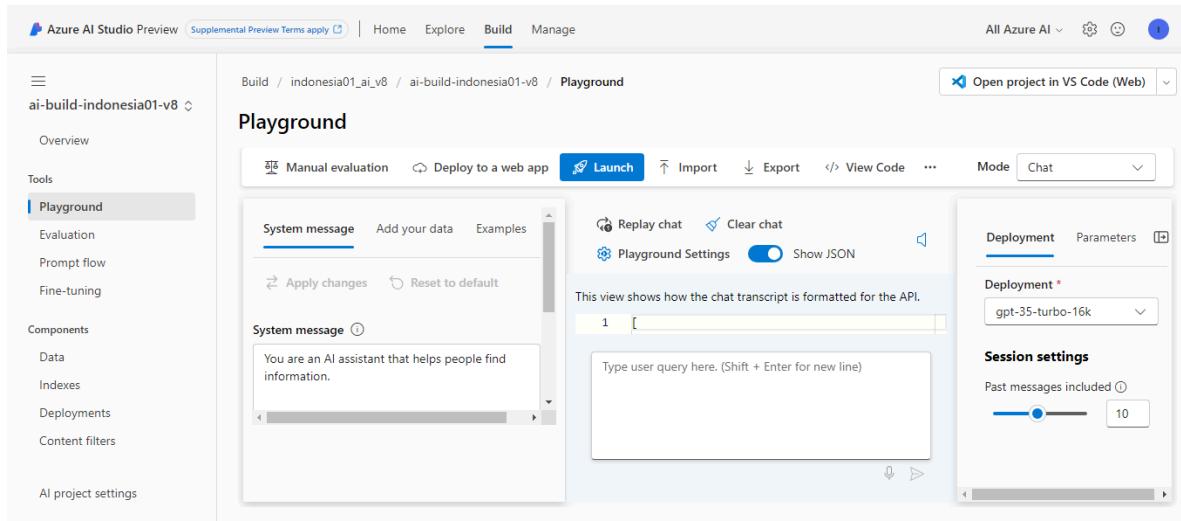
## 8. Deploy the model as a web application

- Click on “Deploy as a Web App.”
- Enter a name for the web app in the format “**user-id-web-app**.” Example “**Indonesia01-web-app**”
- Select the subscription that gets populated by default, for example, “**Tiger analytics-01**”, resource group as the one you have created during the creation of the AI hub. generally, it will be of the format “rg-<userid>ai.” For example, “**rg-Indonesia01ai**” and its location are “**Australia East**.”
- Select the “**Basic B1**” pricing plan.
- Check all the boxes, including the acknowledgment related to pricing
- Click the **deploy** and wait for a few minutes (this might take ~10 minutes) till the deployment is complete
- If you get a message saying Deployment failed, please reload the page and try again

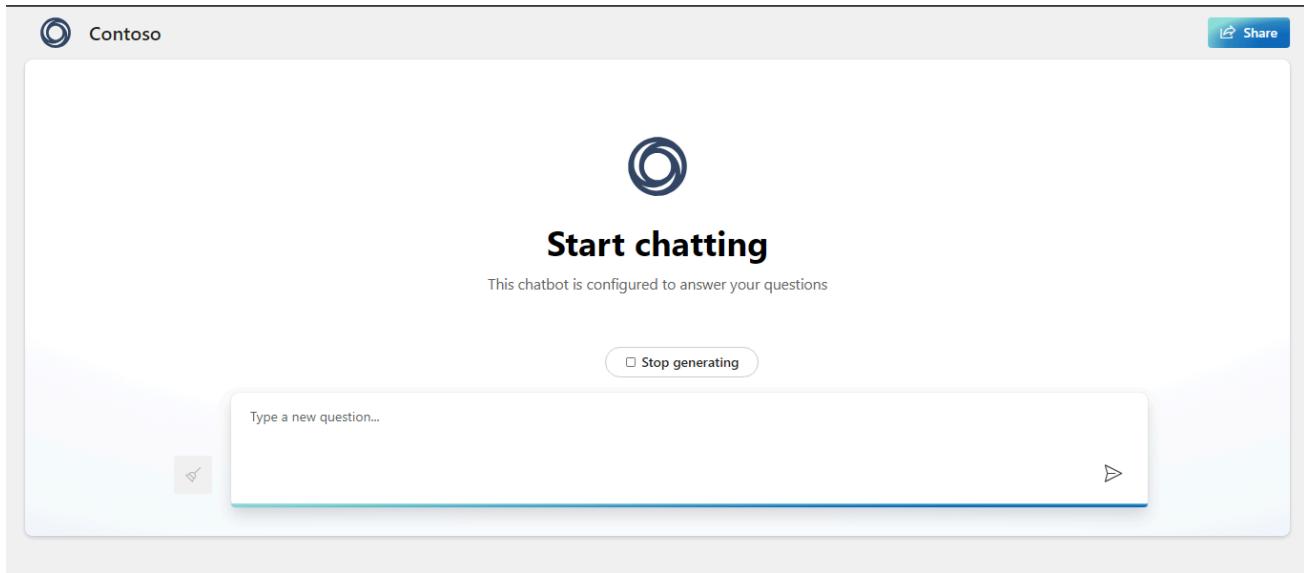
**Note: deploy the app first and then do the prompt engineering**



9. Deployment can take up to 10 minutes. When it's done, the launch button will become enabled. click on the “Launch” button

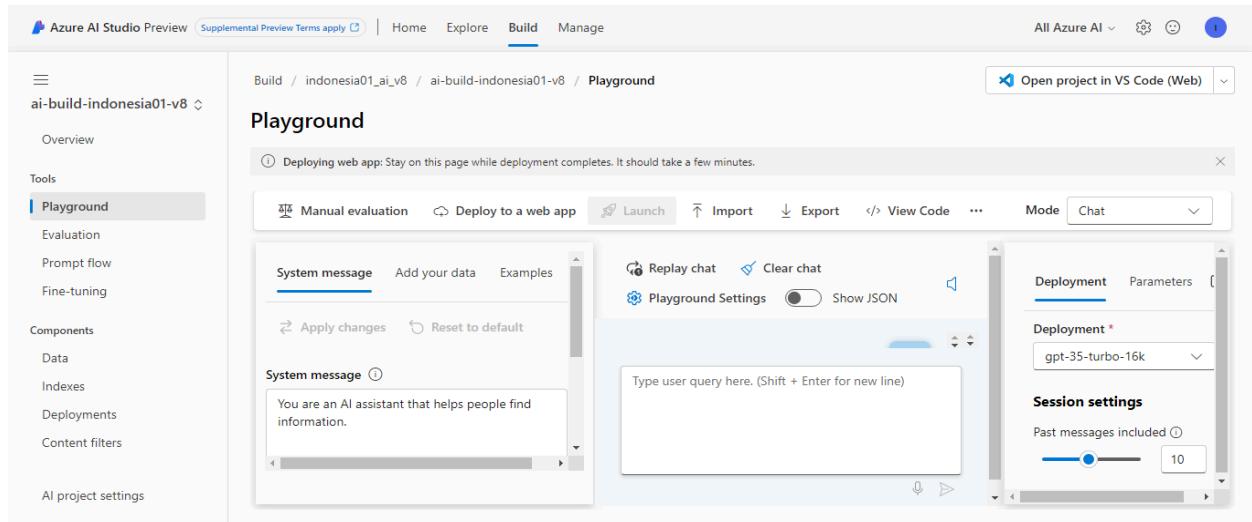


10. Once you open the URL, you will be asked to “Accept” the invitation. Please do and proceed forward. If you see an error about the “Authentication,” please wait for a few minutes, and you will be able to see a sample web application, as shown in the screenshot below. You can start asking questions using the web application. People accessing your AI Studio project can also access the application via URL and ask questions. All the logs, user questions, and system responses are stored in a database.



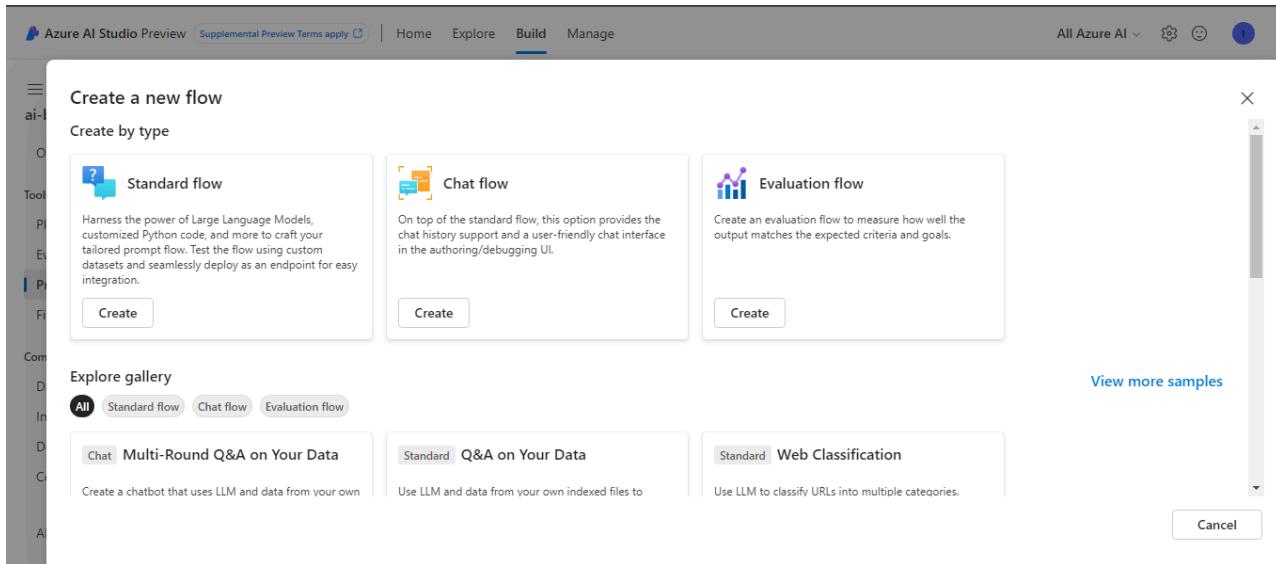
## 9. Additional Playground Features

1. You can also view the entire project in the VSCode web IDE and get responses in the terminal by clicking the “**Open project in VS code(Web)**” button in the **upper right-hand corner** of the playground.
2. You can look at the JSON of the chat transcript. This is formatted for the API calls.



## 10. Prompt flow

1. Go to prompt flow and click “**create**” to create a new prompt flow. You will find specific types of flows to be made and some of the “**Example Flows**,” which you can clone and explore for further understanding. For our example, let’s select **Standard Flow**. Click on **Create**.



2. In the prompt flow, you can see the “**graph**,” which gives you a bird’s-eye view of the whole flow, and the “**Files**,” which lets you download the prompt flow files to share your work. Click on the dropdown option next to **Runtime** & select **Start**.

3. In the **Flow** tab, you can see all the components that are a part of this flow. Collapse them to get an overview of the whole structure, as shown below.

4. Setup the OpenAI connection in the **joke** component in the **Flow** tab. Click on the drop down next to **Connection** and select **openai-tigeranalytics-<number>**. In **deployment\_name** select **gpt-35-turbo-16k**. In **response\_format** select **{"type":"text"}**.

5. Similarly in the **Inputs** section, in **Type**, enter some text. For example: **Joke about football**. Then click **Run**.

Name	Type	Value	Action
topic	string	Tell me a joke about cricket.	

6. The run will complete & you will see the results. To see the output, click on **View Outputs** in the green notification bar.

#	inputs.topic	Status	joke
0	Tell me a joke about cricket.	Completed	Sure, here's a cricket joke for you: Why was the cricket pitch so nervous? Because it had butterflies in its stomach!

## 11. Evaluation

1. To create a new evaluation flow, go to the playground's evaluation section and click the **new evaluation** button.

The screenshot shows the Azure AI Studio Preview interface. The left sidebar is titled 'ai-build-indonesia01-v8' and includes sections like Overview, Tools, Playground, **Evaluation**, Prompt flow, Fine-tuning, Components, Data, Indexes, Deployments, Content filters, and AI project settings. The main content area is titled 'Assess and compare AI application performance' under 'Metric evaluations'. It features a large 'New evaluation' button, a refresh icon, and a cancel/delete/compare button. Below this is a placeholder area with a folder icon and a plus sign, and a section titled 'Evaluate what's important for your scenario' with a note about using industry standard metrics.

2. Select the appropriate scenario to evaluate. Here, we will determine the first scenario: **Question and answers with context**. To see a sample dataset that can be used in the evaluation, click the **Download data template for selected scenario**. We already have the data prepared. Change the Evaluation name to "**ai-build-<userid>-evaluation-<version>**". Example **ai-build-indonesia01-evaluation-v8**" Then click **Next**.

The screenshot shows the 'Create a new evaluation' wizard. The left sidebar is identical to the previous screenshot. The main steps are numbered 1 to 4: 1. Basic information, 2. Configure test data, 3. Select metrics, 4. Review and finish. Step 1 is currently active. The 'Add basic information' section includes a 'Evaluation name' field with the value 'eager\_rhubarb\_dxn6ps8b5y', a 'Need help?' link, and a 'Download data template for selected scenario' button. The 'What kind of scenario are you evaluating?' dropdown is set to 'Question and answer with context', which is highlighted with a blue border. Other options include 'Question and answer without context' and 'Conversation with context'.

3. Select **Add your dataset**. Then click on **Upload File**. Select **EvaluationDataset.csv** from the **data** folder. The preview of the top 3 rows will be shown after successful upload. Then click **Next**.

Azure AI Studio Preview | Build / ai-build-ashitsingh-v3 / Evaluation / Create a new evaluation

**Create a new evaluation**

Configure test data

Select the data you want to evaluate \*

Use existing dataset  
Choose from your established dataset collection

Add your dataset  
Upload a file

Drag and drop CSV or JSON file here

Upload file

Back Next Cancel

4. Select the metrics you want to use for the evaluation based on the definition.

Build / ai-build-ashitsingh-v3 / Evaluation / Create a new evaluation

**Create a new evaluation**

**Select metrics**  
Learn more about Microsoft-curated evaluator metrics

Performance and quality metrics curated by Microsoft

<b>Groundedness</b> Measures how well the model's generated answers align with information from the input source.	<b>Relevance</b> Measures the extent to which the model's generated responses are pertinent and directly related to the given questions.	<b>Coherence</b> Measures how well the language model can produce output that flows smoothly, reads naturally, and resembles human-like language.
<b>Fluency</b> Measures the language proficiency of a generative AI's predicted answer.	<b>GPT similarity</b> Measures the similarity between a source data (ground truth) sentence and the generated	<b>F1 score</b> Measures the ratio of the number of shared words between the model prediction and

5. Select the OpenAI connection **openai-tigeranalytics-<number>**. The Deployment model name will be automatically populated as **gpt-35-turbo-16k**.

6. Map the columns from the uploaded file to the respective fields. Here it should be automatically populated. But you can change as per your choice. Click **Next**.

How does your dataset map to your evaluation input? \*

Name	Description	Type	Data source
context	The source that response is generated with respect to	string	<code>\$(data.context)</code>
answer	The response to question generated by the model as answer	string	<code>\$(data.answer)</code>
question	A query seeking specific information	string	<code>\$(data.question)</code>
ground_truth	The response to question generated by user/human as the true answer	string	<code>\$(data.ground_truth)</code>

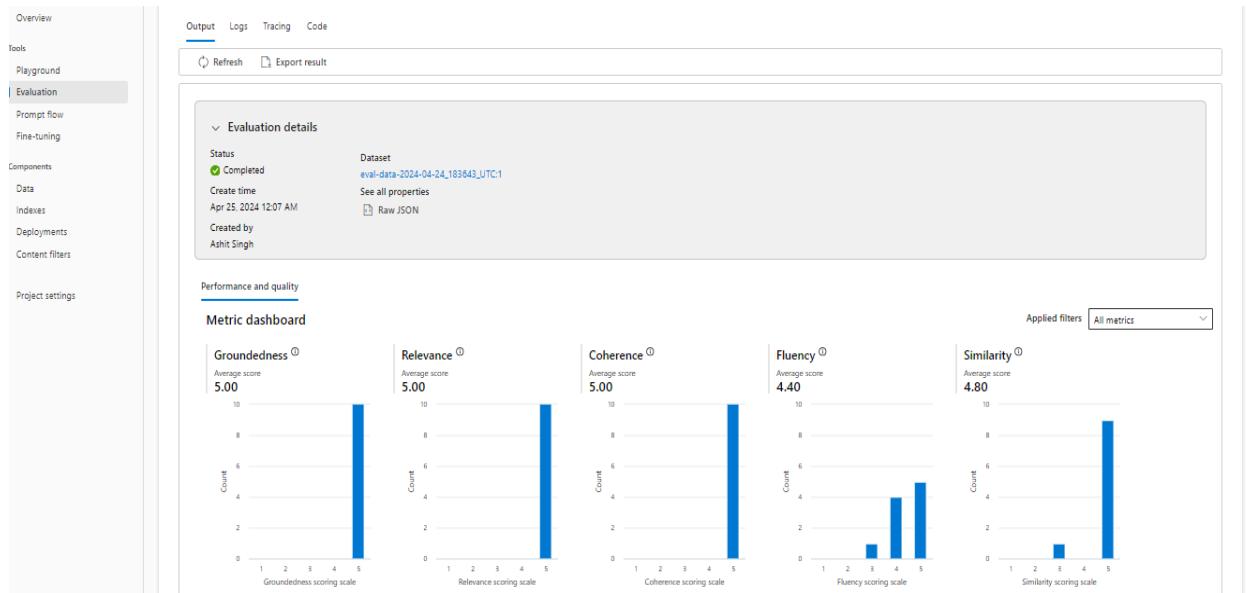
**Back** **Next** **Cancel**

7. The mentioned evaluation name should show up in the list. It will start and be completed in some time.

Evaluations	Status	Created on	Groundedness	Relevance
<a href="#">evaluation_eager_rhubarb_dxn6ps8b5y</a>	Not started	Apr 24, 2024 11:40 PM	--	--

8. Once completed, click on the evaluation to see the results, as shown below.

Evaluations	Status	Created on	Groundedness	Relevance
<a href="#">evaluation_eager_rhubarb_dxn6ps8b5y</a>	Completed	Apr 24, 2024 11:40 PM	1	5



You can also run **Manual Evaluations** similarly.

**Note:** The Azure service accesses used in this event are only valid during the event. Please contact your respective Microsoft account teams to follow up on continued access or if you have further questions.