

✓ 100 XP

# How to use Azure OpenAI

3 minutes

Currently you need to [apply](#) for access to Azure OpenAI. Once granted access, you can use the service by creating an Azure OpenAI resource, like you would for other Azure services. Once the resource is created, you can use the service through REST APIs, Python SDK, or the web-based interface in the Azure OpenAI Studio.

## ⓘ Note

To learn more about the basics of APIs, check out this infographic on [how Azure APIs work](#).

## Azure OpenAI Studio





Cognitive Services | Azure OpenAI Studio - Preview

[Azure OpenAI Studio](#)[Privacy & cookies](#)

### Get started with Azure OpenAI

Perform a wide variety of natural language tasks with Azure OpenAI, including copywriting, summarization, parsing unstructured text, classification, and translation.

#### Explore examples for prompt completion

 <b>Summarize Text</b> Summarize text by adding a 'tl;dr:' to the end of a text passage. <a href="#">Learn more</a>	 <b>Classify Text</b> Classify items into categories provided at inference time. <a href="#">Learn more</a>	 <b>Natural Language to SQL</b> Translate natural language to SQL queries. <a href="#">Learn more</a>	 <b>Generate New Product Names</b> Create product names from examples words. <a href="#">Learn more</a>
---	---	--	---

In the [Azure OpenAI Studio](#), you can build AI models and deploy them for public consumption in software applications. Azure OpenAI's capabilities are made possible by specific generative AI models. Different models are optimized for different tasks; some models excel at summarization

and providing general unstructured responses, and others are built to generate code or unique images from text input.

These Azure OpenAI models include:

- **GPT-4** models that represent the latest generative models for natural language and code.
- **GPT-3.5** models that can generate natural language and code responses based on prompts.
- **Embeddings** models that convert text to numeric vectors for analysis - for example comparing sources of text for similarity.
- **DALL-E** models that generate images based on natural language descriptions.

Azure OpenAI's AI models can all be trained and customized with fine-tuning. We won't go into custom models here, but you can learn more on the [fine-tuning your model](#) Azure documentation.

### Important

Generative AI models *always* have a *probability* of reflecting true values. Higher performing models, such as models that have been fine-tuned for specific tasks, do a better job of returning responses that reflect true values. It is important to review the output of generative AI models.

## Playgrounds

In the Azure OpenAI Studio, you can experiment with OpenAI models in playgrounds. In the *Completions* playground, you can type in prompts, configure parameters, and see responses without having to code.

The screenshot shows the 'Completions playground' interface in Azure OpenAI Studio. On the left is a sidebar with navigation links: Azure OpenAI, Playground, Chat, Completions (selected), Management, Deployments, Models, and File Management. The main area has a header with 'Azure OpenAI Studio > Completions playground' and a 'Privacy & cookies' link. Below the header, there are 'Deployments' and 'Examples' dropdown menus. The 'Examples' dropdown is set to 'Load an example'. A large text area for input is labeled 'Start typing here'. At the bottom of the main area are 'Generate', 'Undo', and 'Regenerate' buttons, along with a 'Tokens: 0' indicator. On the right, the 'Parameters' panel includes sliders and input fields for Temperature (1), Max length (tokens) (100), Stop sequences, Top probabilities (0.5), Frequency penalty (0), and Presence penalty (0). It also has fields for Pre-response text and Post-response text, each with an 'Enter text' button. A 'Learn more' link is at the bottom of the parameters panel.

In the *Chat* playground, you can use the assistant setup to instruct the model about how it should behave. The assistant will try to mimic the responses you include in tone, rules, and format you've defined in your system message.

The screenshot shows the 'Chat playground (Preview)' interface in Azure OpenAI Studio. The sidebar is similar to the previous screenshot, with 'Chat' selected under the 'Playground' section. The main area has a header with 'Azure OpenAI Studio > Chat playground (Preview)' and a 'Privacy & cookies' link. Below the header, there are 'Import setup', 'Export setup', and 'Show panels' buttons. The interface is divided into three main panels. The left panel, 'Assistant setup', includes a 'Load example setup' dropdown, a 'Save changes' button, a 'System message' text area with the placeholder 'You are an AI assistant that helps people find information.', a 'Few-shot examples' section, and input fields for 'User' and 'Assistant' messages. The middle panel, 'Chat session', has a 'Clear chat' button, 'View code' and 'Show raw JSON' links, and a 'Start chatting' section with a robot icon and instructions: 'Test your assistant by sending queries below. Then adjust your assistant setup to improve the assistant's responses.' At the bottom of the chat session is a 'User message' input field with a placeholder 'Type user query here. (Shift + Enter for new line)'. The right panel, 'Parameters', includes a 'Deployments' dropdown, a 'Max response' slider (800), a 'Temperature' slider (0.7), a 'Top P' slider (0.95), a 'Stop sequence' dropdown, and sliders for 'Frequency penalty' (0) and 'Presence penalty' (0).

Module complete:

Unlock achievement

---