

Azure VM, Azure OpenAI, and Using OpenAI in C#

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Creating an Azure VM

- ❶ Log in to the Azure Portal.
- ❷ Search for **Virtual Machines** and click **Create**.
- ❸ Configure the basic settings:
 - Choose your subscription and resource group.
 - Enter a name for your VM.
 - Select a region.
 - Choose an image (e.g., Ubuntu, Windows Server).
 - Select VM size (e.g., Standard B1s).
- ❹ Configure the administrator account:
 - For Linux, choose SSH public key or password.
 - For Windows, enter a username and password.
- ❺ Configure additional settings as needed (e.g., Networking, Management).
- ❻ Review and create the VM.
- ❼ Once created, use the **Connect** option to access your VM.

Creating Azure OpenAI

- 1 Log in to the Azure Portal.
- 2 Search for **Azure OpenAI** and click **Create**.
- 3 Configure the basic settings:
 - Choose your subscription and resource group.
 - Enter a name for the OpenAI resource.
 - Select a region.
- 4 After creation, navigate to the resource.
- 5 Go to the **Keys and Endpoint** section.
- 6 Note down the **API Key** and **Endpoint URL**.

Using Azure OpenAI Locally in C#

❶ Ensure you have the **.NET SDK** installed.

❷ Create a new C# console application:

```
1 dotnet new console -n AzureOpenAIExample
2 cd AzureOpenAIExample
```

❸ Add the necessary NuGet packages:

```
1 dotnet add package System.Net.Http
2 dotnet add package Newtonsoft.Json
```

❹ Replace the content of **Program.cs** with the following code found on the following URL:

❺ <https://github.com/OmarFarooq908/uw-job1> (Download program.cs file)

❻ Replace **YOUR_API_KEY** and **YOUR_ENDPOINT_URL** with your actual Azure OpenAI credentials.