

# Text Translation Project with Microsoft Azure Translator

## Documentation and Simulation in Python

**This document presents the process of creating and configuring the Microsoft Azure Translator service, detailing all the steps necessary for its use. The practical implementation was developed in Python and is available in a Jupyter Notebook repository.**

**Due to the unavailability of access to the Azure environment, the project includes a simulation of the service consumption, in addition to documenting the integration process normally performed on the Microsoft platform. Thus, this documentation offers a complete view of the solution, even without direct execution in the cloud environment.**

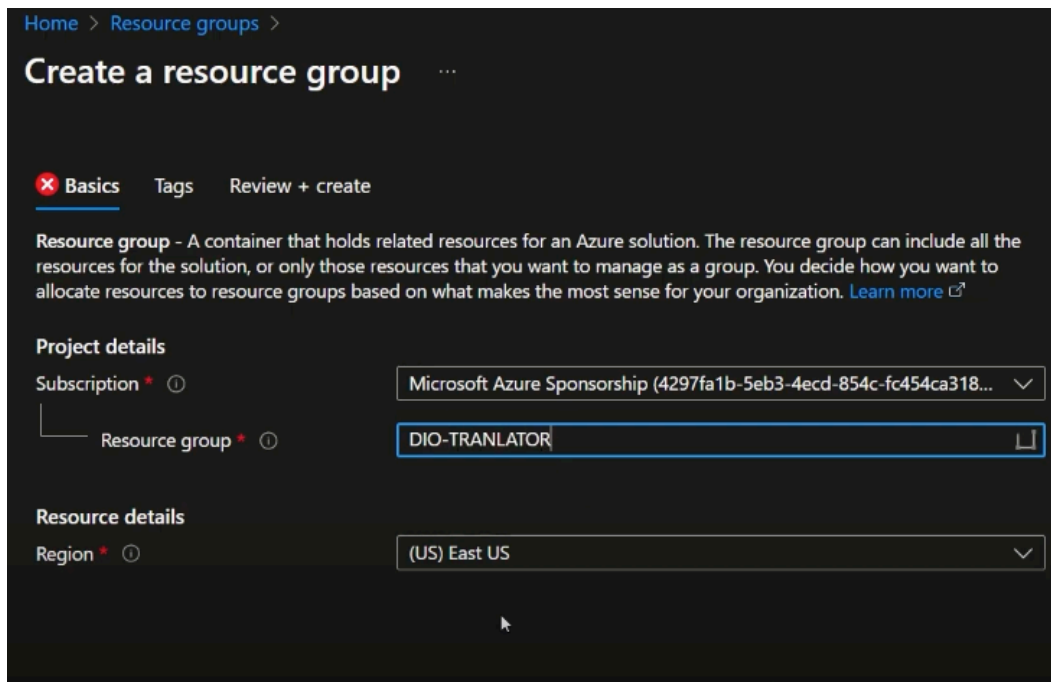
 **Training AI 102 Certification - DIO**  **17 May 2025**

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## 1. CREATION OF RESOURCES IN MICROSOFT AZURE

### 1.1 -Creating a Resource

1. In the Microsoft Azure portal, access the resource creation option.
2. Click "**Next: Tags**" and select "**Create feature**".
3. After creation, view the resources in the section **Resource Groups**.



Home > Resource groups >

## Create a resource group

**Basics** Tags Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)


**Project details**

Subscription \* ⓘ Microsoft Azure Sponsorship (4297fa1b-5eb3-4ecd-854c-fc454ca318... ▼

Resource group \* ⓘ **DIO-TRANSLATOR** □

**Resource details**

Region \* ⓘ (US) East US ▼

 Screenshot of the resource creation process in Azure (AI102/Microsoft Training).

## 2. MICROSOFT TRANSLATOR SERVICE CONFIGURATION

### 2.1 -Create a Translator Service

1. Access the Marketplace and select the Microsoft Translator service.
2. Click "**Create**" to configure the instance details.

3. After filling in the data, click on "**Review + Create**" To review the configuration.
4. Finish the process by clicking on "**Create**".

Home > Resource groups > DIO-TRANLATOR > Marketplace >

## Create Translator

**Project Details**

Subscription \* ⓘ Microsoft Azure Sponsorship (4297fa1b-5eb3-4ecd-854c-fc454ca31... ▼

Resource group \* ⓘ DIO-TRANLATOR ▼

[Create new](#)

**Instance Details**

**i** Please choose the Global region unless your business or application requires a specific region. Applications that do not offer a region selection use the Global region. ⓘ


Region \* ⓘ East US 2 ▼

Name \* ⓘ tlt-dio-bootcamp-dev-eastus-001 ✓

Pricing tier \* ⓘ Free F0 (Up to 2M characters translated per month) ▼

[View full pricing details](#)

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

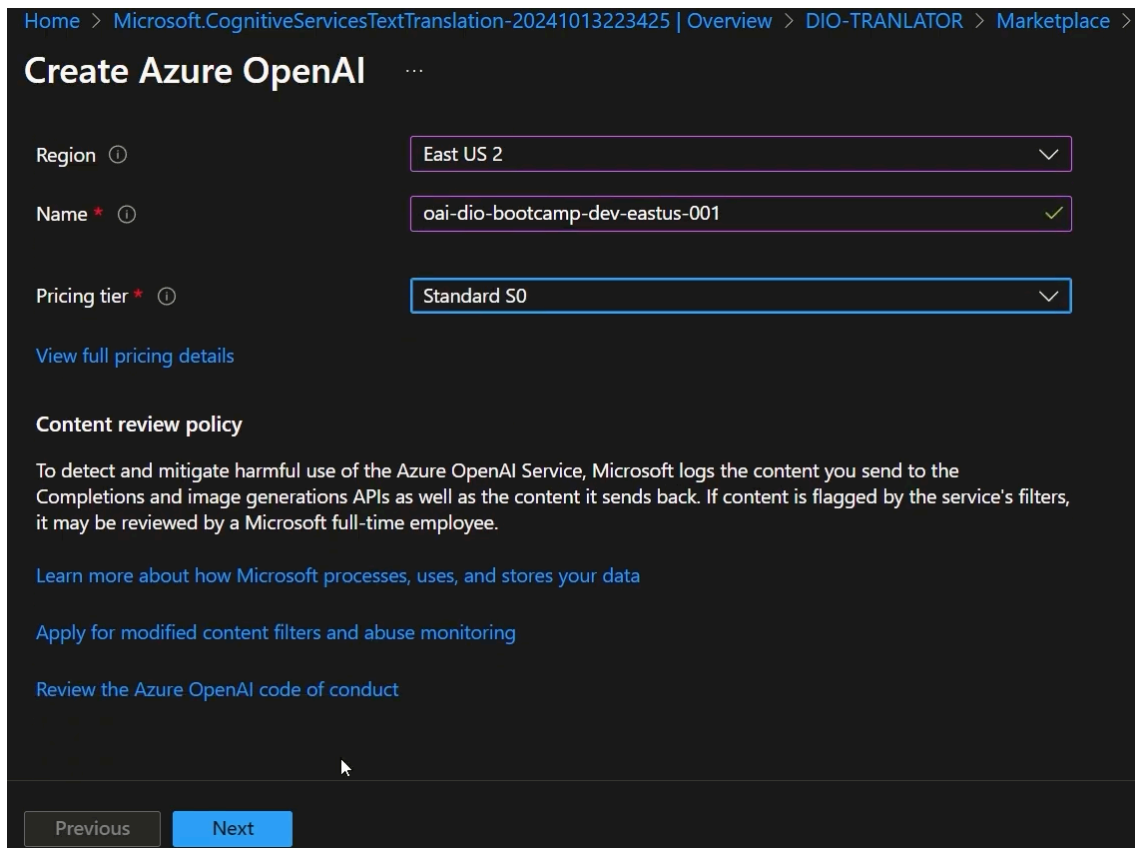
 *Capture of the Translator service configuration in Azure (AI102/Microsoft Training).*

### 3. AZURE OPENAI SERVICE CONFIGURATION

#### 3.1 - Create an Azure OpenAI Service

1. Click on "**Create**" and configure the instance details.
2. In the network security field, select "**All networks, including the internet, can access this resource**" to allow access.
3. Configure **optional tags** for resource organization.

4. Review all settings and click "**Create**" to finish.



Home > Microsoft.CognitiveServicesTextTranslation-20241013223425 | Overview > DIO-TRANLATOR > Marketplace >

## Create Azure OpenAI

Region ⓘ East US 2 ✓

Name \* ⓘ oai-dio-bootcamp-dev-eastus-001 ✓

Pricing tier \* ⓘ Standard S0 ✓

[View full pricing details](#)

### Content review policy


To detect and mitigate harmful use of the Azure OpenAI Service, Microsoft logs the content you send to the Completions and image generations APIs as well as the content it sends back. If content is flagged by the service's filters, it may be reviewed by a Microsoft full-time employee.

[Learn more about how Microsoft processes, uses, and stores your data](#)

[Apply for modified content filters and abuse monitoring](#)

[Review the Azure OpenAI code of conduct](#)

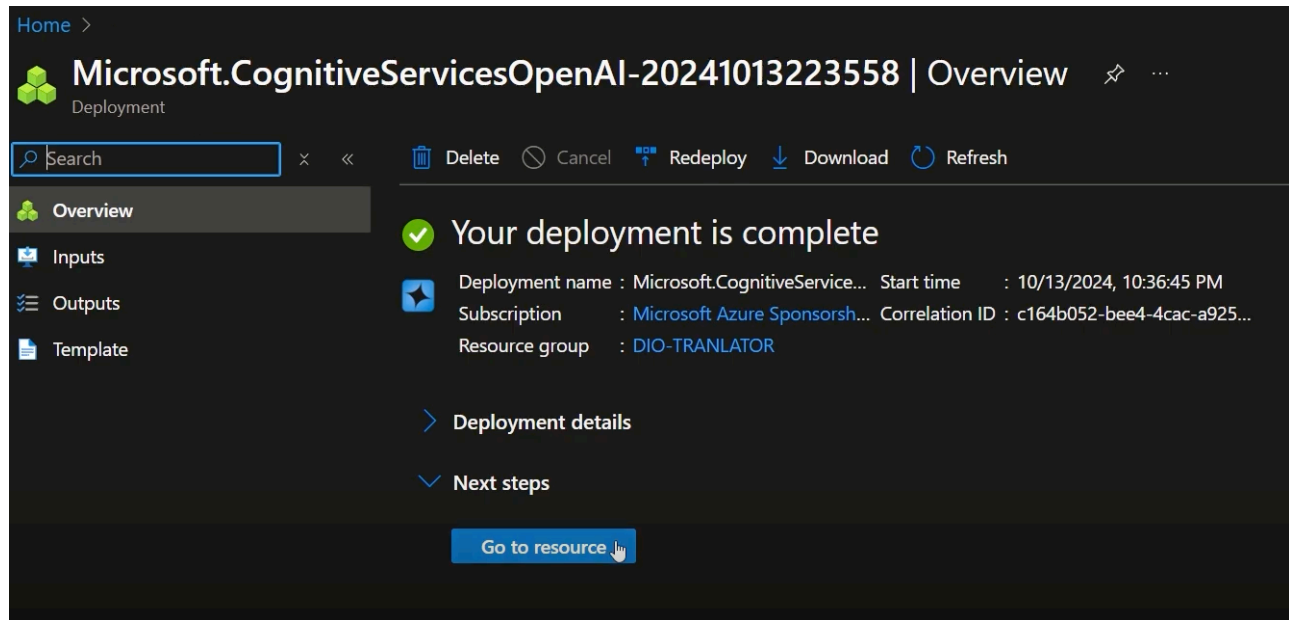
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 *Screenshots of the Azure OpenAI configuration process (AI102/Microsoft Training).*

## 4. DEPLOY AND FINAL CONFIGURATION IN AZURE AI STUDIO

### 4.1 -Deploy from Service

1. Access **Azure AI Studio** and log in with your account.
2. In the **Deployments** menu, enter the desired template.
3. Choose a suitable model, considering cost and performance.
4. With everything provisioned, configure the translator in **Python**.



 Capture of model deployment in Azure AI Studio (AI102/Microsoft Training).

## 5. AZURE OPENAI SERVICE PRICES

To consult service values and plans **Azure OpenAI**, access:

 [Azure OpenAI Service Prices](#)