



Informatica® Cloud Application Integration
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Simple RAG Consumption using Azure OpenAI with DataSources

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Preface

Use *Simple RAG Consumption using Azure OpenAI with DataSources* to learn how to prepare and send requests to the Azure OpenAI LLM with the context. This guide assumes that you have an understanding of the Azure OpenAI Connector concepts.

CHAPTER 1

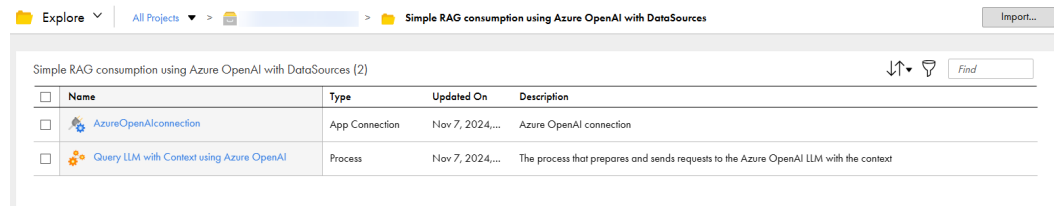
Introduction to Simple RAG Consumption using Azure OpenAI with DataSources recipe

The Simple Retrieval Augmented Generation (RAG) Consumption using Azure OpenAI with DataSources recipe is based on REST and SOAP APIs. The process prepares and sends requests to the Azure OpenAI LLM with the context.

Simple RAG Consumption using Azure OpenAI with DataSources recipe contents

The Simple RAG Consumption using Azure OpenAI with DataSources recipe contains app connection and process.

The following image shows the assets that the Simple RAG Consumption using Azure OpenAI with DataSources recipe package contains:



Name	Type	Updated On	Description
AzureOpenAIconnection	App Connection	Nov 7, 2024,...	Azure OpenAI connection
Query LLM with Context using Azure OpenAI	Process	Nov 7, 2024,...	The process that prepares and sends requests to the Azure OpenAI LLM with the context

Simple RAG Consumption using Azure OpenAI with DataSources recipe assets

The following table lists the assets that the Simple RAG Consumption using Azure OpenAI with DataSources recipe package contains:

Asset Name	Asset Type	Description
AzureOpenAIConnection	App connection	Azure Open AI connection.
Query LLM with Context using Azure OpenAI	Process	Prepares and sends requests to the Azure OpenAI LLM with the context.

CHAPTER 2

Using the Simple RAG Consumption using Azure OpenAI with DataSources recipe

To use the Simple RAG Consumption using Azure OpenAI with DataSources recipe, you must perform the following steps manually:

1. Copy and access the recipe.
2. Configure and publish the Azure OpenAI connection.
3. Publish the process.
4. Invoke the process.

Step 1. Copy and access the recipe

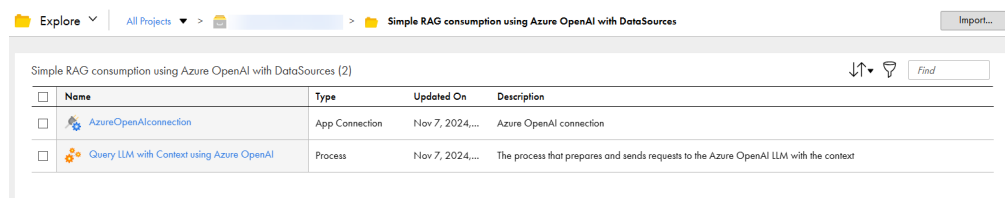
Copy the pre-configured assets in the recipe to a separate project or folder.

1. Open the **Simple RAG Consumption using Azure OpenAI with DataSources** recipe and click **Use**.
2. Select the location where you want to copy the recipe, and then click **Continue**.
3. In the **Copying the recipe** dialog box, click **OK**.

It might take some time for the recipe to get copied. You will receive a notification when the recipe is ready for use.

4. After the recipe is copied, click **Explore** to access the recipe content.
5. Navigate to the project or folder where you copied the recipe or enter the recipe name in the **Find** box.

All the assets in the recipe are displayed as shown in the following image:



Step 2. Configure and publish the Azure OpenAI connection

Configure the endpoint URL and API key to connect to the Azure OpenAI connection, and then publish the AzureOpenAIConnection connection.

1. Open the **AzureOpenAIConnection** connection.
2. In the **Connection Properties** section, enter values for the following properties:

Property	Description
Endpoint_URL	The REST API endpoint for Azure OpenAI. You can find this value in the Keys & Endpoint section when examining your resource from the Azure portal. Alternatively, you can find the value in Azure OpenAI Studio > Playground > Code View .
API_Key	The API key to authenticate Azure OpenAI connection requests. You can find this value in the Keys & Endpoint section when examining your resource from the Azure portal. Alternatively, you can find the value in Azure OpenAI Studio > Playground > Code View .

3. Save and publish the connection.

Step 3. Publish the process

To publish the Query LLM with Context using Azure OpenAI process, click **Actions** in the row that contains the process and select **Publish**.

Step 4. Invoke the process

When you invoke the Query LLM with Context using Azure OpenAI process, the process prepares and sends requests to the Azure OpenAI LLM with the context.

You can run the process using one of the following options:

- Run Using by passing the input parameters
- REST or SOAP API endpoints in any API client such as cURL, Postman, SOAP UI, or any programming language
- Web browser by passing the input parameters

For example, you can pass the input parameters with the Run Using option as shown in the following image:

Query LLM with Context using Azure OpenAI - Run Using... Run All Run ✕

Test Process Input Collection New Input

Select the input to run the process with

test3

Process Objects

- Request
- AI_Response

Process Input Encoding: JSON Save As... Save ↺ 🗑 📄

```
{
  "Prompt": " suggest some location of the coffee shop where they sell local art. With many kinds of paintings and watercolors they showcase, also with excellent wi-fi",
  "LLM_Model": "gpt-4o-turbo",
  "APIVersion": "2024-02-15-preview",
  "AzureAISearch_Endpoint": "https://[redacted].windows.net/",
  "Authentication_APIKey": "[redacted]@Q5",
  "SearchAI_DeploymentModel": "text-embedding-ada-002",
  "Dimensions": "1536",
  "SearchIndexName": "review-vector"
}
```