



Informatica® Cloud Application Integration  
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# Azure OpenAI Chat with History

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# Preface

Use *Azure OpenAI Chat with History* to learn how to maintain chat history in a file and use it as context for the next user query and the Large Language Model's (LLM) response. This guide assumes that you have an understanding of the Azure OpenAI Connector concepts.

# CHAPTER 1

## Introduction to Azure OpenAI Chat with History recipe

The Azure OpenAI Chat with History recipe is initiated using an HTTP request. You can maintain the chat history in a file and use it as context for the next user query and the Large Language Model's (LLM) response.

The process maintains chat history in a file and uses it as context for the last user question and LLM answer. It reads input parameters to check if the file exists, retrieves the last user question and LLM answer, prepares a request, and sends it. If the file doesn't exist, it creates one and writes the user input and LLM answer to it.

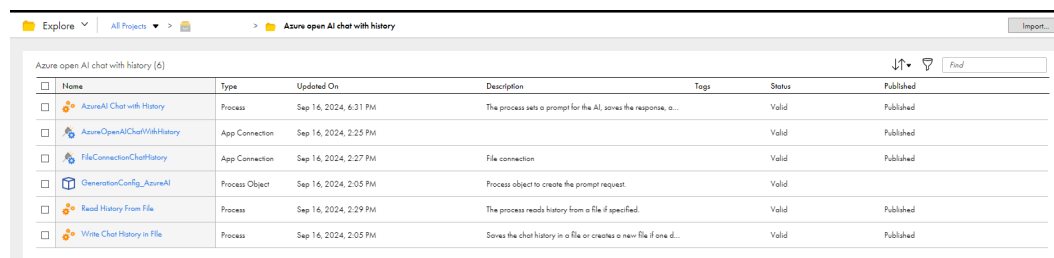
You can use the following file formats:

.txt, .xml, .json, .html, .csv, .md, and .yaml

## Azure OpenAI Chat with History recipe contents

The Azure OpenAI Chat with History recipe contains a process object, two app connections, and three processes.

The following image shows the assets that the Azure OpenAI Chat with History recipe package contains:



The screenshot shows the 'Azure open AI chat with history' package contents in the Azure portal. The table lists the following assets:

Name	Type	Updated On	Description	Tags	Status	Published
AzureAI Chat with History	Process	Sep 16, 2024, 6:31 PM	The process sets or prompt for the AI, saves the response, a...		Valid	Published
AzureOpenAIChatWithHistory	App Connection	Sep 16, 2024, 2:25 PM			Valid	Published
FileConnectorChatHistory	App Connection	Sep 16, 2024, 2:27 PM	File connection		Valid	Published
GenerationConfig_AzureAI	Process Object	Sep 16, 2024, 2:05 PM	Process object to create the prompt request		Valid	
Read History from File	Process	Sep 16, 2024, 2:29 PM	The process reads history from a file if specified		Valid	Published
Write Chat History in File	Process	Sep 16, 2024, 2:05 PM	Saves the chat history in a file or creates a new file if one d...		Valid	Published

# Azure OpenAI Chat with History recipe assets

The following table lists the assets that the Azure OpenAI Chat with History recipe package contains:

Asset Name	Asset Type	Description
AzureOpenAIChatWithHistory	App connection	Azure OpenAI connection
FileConnectionChatHistory	App connection	File connection
GenerationConfig_AzureAI	Process object	Creates the prompt request.
Azure OpenAI Chat with History	Process	The process sets a prompt, saves the response, and uses it as context for future questions. You must set up a Secure Agent to store and retrieve the history.
Read History from File	Process	The process reads history from a file if specified.
Write Chat History in File	Process	The process saves the chat history in a file or creates a new file if one doesn't exist.

## Azure OpenAI Chat with History process

The Azure OpenAI Chat with History process is called by an HTTP request. It maintains chat history in a file and uses it as context for the last user question and LLM answer.

The process is called by an HTTP request using the following input parameters configured on the **Input Fields** tab of the **Start** Step:

- User\_Prompt
- Path\_To\_File\_With\_History
- User\_ID

The User\_ID is used as the file name.

After configuring the prompt instructions, the process reads the file. If no file exists or the file is empty, the process prepares a request without history, and then creates or updates the file. It writes the last question and its LLM response in the following format:

```
Question_to_LLM: user question  
Answer_LLM: Azure OpenAI answer
```

If the file contains history, the process uses only the last question and response. The process then updates the file and appends the new question and answer. You can include additional parsing in a specific location and also include new changes to the request.

## CHAPTER 2

# Using the Azure OpenAI Chat with History recipe

To use the Azure OpenAI Chat with History recipe, you must perform the following steps manually:

Step 1: Copy and access the recipe

Step 2: Configure and publish the FileConnectionChatHistory connection

Step 3: Configure and publish the AzureOpenAIChatWithHistory connection

Step 4: Configure and publish the processes

Step 5: Invoke the processes

## Step 1: Copy and access the recipe

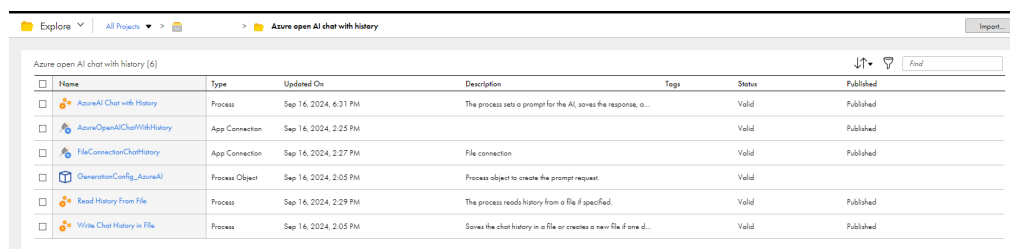
Copy the pre-configured assets in the recipe to a separate project or folder.

1. Open the **Azure OpenAI Chat with History** 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:



Name	Type	Updated On	Description	Tags	Status	Published
AzureAI Chat with History	Process	Sep 16, 2024, 6:31 PM	The process sets a prompt for the AI, saves the response, o...		Valid	Published
AzureOpenAIChatWithHistory	App Connection	Sep 16, 2024, 2:25 PM			Valid	Published
FileConnectionChatHistory	App Connection	Sep 16, 2024, 2:27 PM	File connection		Valid	Published
GeneratorConfig_AzureAI	Process Object	Sep 16, 2024, 2:05 PM	Process object to create the prompt request.		Valid	
Read History From File	Process	Sep 16, 2024, 2:29 PM	The process reads history from a file if specified.		Valid	Published
Write Chat History in File	Process	Sep 16, 2024, 2:05 PM	Saves the chat history in a file or creates a new file if one d...		Valid	Published



## Step 2: Configure and publish the FileConnectionChatHistory connection

Configure the file directory and specify the action to be taken if a file already exists. Then, publish the FileConnectionChatHistory connection.

1. Open the **FileConnectionChatHistory** connection.
2. From the **Type** list, select **File**.
3. From the **Run On** list, select any Secure Agent.
4. On the **Event Targets** tab, in the **Directory** field, enter the directory to store the files. In the **File Exists** field, select **Append**.
5. Save, test, and publish the connection.

## Step 3: Configure and publish the AzureOpenAIChatWithHistory connection

Configure the endpoint URL and API key in the AzureOpenAIChatWithHistory connection, and then publish the connection.

1. Open the **AzureOpenAIChatWithHistory** connection.
2. From the **Type** list, select **AzureOpenAI**.
3. From the **Run On** list, select **Cloud Server or any Secure Agent**.
4. 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 <b>Keys &amp; Endpoint</b> section when examining your resource from the Azure portal. Alternatively, you can find the value in <b>Azure OpenAI Studio &gt; Playground &gt; Code View</b> .
API_Key	The API key to authenticate Azure OpenAI connection requests. You can find this value in the <b>Keys &amp; Endpoint</b> section when examining your resource from the Azure portal. Alternatively, you can find the value in <b>Azure OpenAI Studio &gt; Playground &gt; Code View</b> .

5. Save, test, and publish the connection.

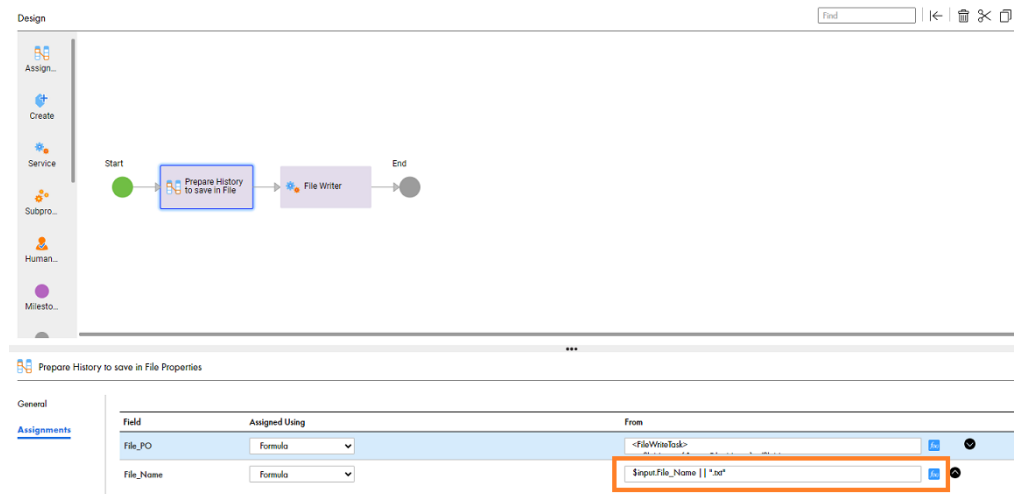
## Step 4: Configure and publish the processes

Configure the deployment details of the LLM model and publish the processes.

1. Open the **Read History from File** process.
2. On the **Start** tab of the **Start** step, select the same Secure Agent that you had selected in the **Run On** field for the **FileConnectionChatHistorydefault** connection.

3. Save and publish the process.
4. Open the **Write Chat History in File** process.
5. Optionally, in the **Prepare History to save in File** step, click the **Assignments** tab. Open the Expression Editor for the **File\_Name** field and enter the format to save the file.

The following image shows the assignments of the **File\_Name** input field:



6. Save and publish the process.
7. Open the **Chat with History** parent process.
8. On the **Temp Fields** tab of the **Start** step, enter values for the following fields:
  - In the **api\_version** field, enter the API version of the LLM model. Default is **2024-06-01**. You can optionally edit the api version.
  - In the **deployment\_id** field, enter the user-specific deployment ID.
9. Optionally, in the **Configure Request Parameters** step, click the **Assignments** tab. Open the Expression Editor for the **Prompt\_Configuration** field and enter the prompt instructions as shown in the following sample code:

```
<generationConfig_AzureAI>
  <max_tokens>200</max_tokens>
  <temperature>1</temperature>
  <topP>1</topP>
</generationConfig_AzureAI>
```

For the **Prompt\_Configuration** field, enter values for the following properties:

Property	Description
maxTokens	Defines the maximum number of tokens that the model can generate in its response. Setting a limit ensures that the response is concise and fits within the desired length constraints.
temperature	Controls the randomness of the model's output. A lower value makes the output more deterministic, while a higher value increases randomness and creativity. For example, a temperature of 0.9 balances between deterministic and creative outputs.
topP	An alternative to sampling with temperature where the model considers the results of the token with topP probability. For example, if topP is set to 0.1, the model considers only the top 10% most probable tokens at each step.

The following image shows the assignments of the **Previous\_Question** and **Previous\_Answer** input fields:

The image shows a BPMN process diagram for 'Prepare Request with History Properties'. The process starts with 'Start', followed by 'Read History from File', 'Get Text from History Recourse', 'Configure Request Parameters', and a decision diamond 'Is History Empty?'. If 'Yes', it goes to 'Prepare Request'. If 'No', it goes to 'Prepare Request with History'. Both paths lead to a final 'Generate Content' task.

Below the diagram is the 'Assignments' table for the 'Prepare Request with History Properties' task:

Field	Assigned Using	From
Previous_Question	Formula	let \$parts = tokenized(\$temp.Chat_History, "Question_to_LLM")
Previous_Answer	Formula	let \$parts = tokenized(\$temp.Chat_History, "Answer_LLM")
Request	Formula	<<Generate_Content_Request>>

10. Save and publish the process.

## Step 5: Invoke the process

The Chat with History process is called by an HTTP request. When you invoke the process, it creates a file with history after your first question.

To invoke the Chat with History process, perform the following steps:

1. Open the **Chat with History** process and click **Actions > Properties Detail > Copy Service URL**.
2. Open a text editor and add the input fields and values to the service URL as shown in the following format:  

```
<Cloud Application Integration POD URL>/active-bpel/public/rt/<API_name>?
User_Prompt=<User_Prompt>&Path_To_File_With_History=<C:/folder>/&User_ID=<User_ID>
```
3. Open a browser and paste the service URL.