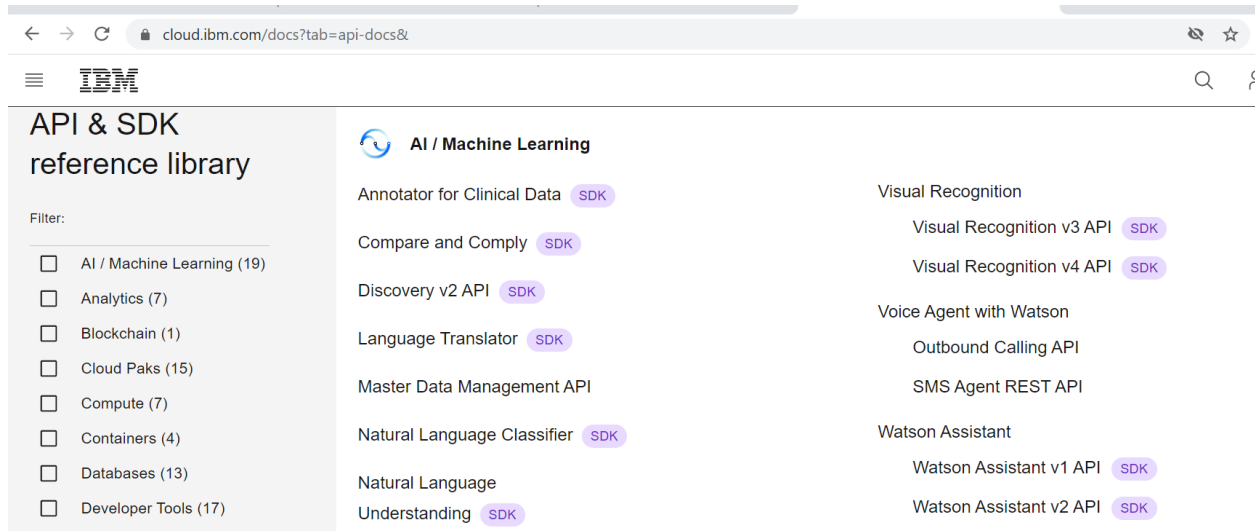
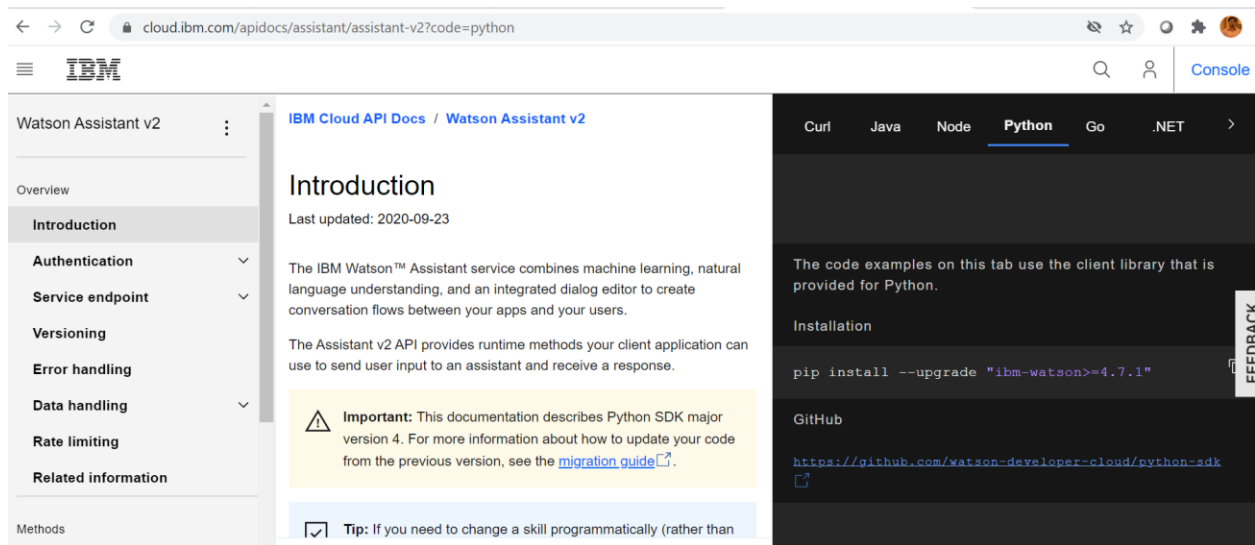


Step 1: open cloud.ibm.com/docs

Step 2: select Watson Assistant v2 API



Step 3: Install below shown library by coping



Step 4: goto cmd, python path and paste like below

```
C:\Python38\Scripts>pip install --upgrade "ibm-watson>=4.7.1"
Collecting ibm-watson>=4.7.1
  Downloading ibm-watson-4.7.1.tar.gz (385 kB)
    |████████████████████████████████████████| 385 kB 1.7 MB/s
```

Step 5: Create a session

The screenshot shows the IBM Watson Assistant console. On the left, the 'Methods' sidebar is open, and 'Create a session' is selected under the 'Sessions' section. The main area displays the 'Request' for this method, showing a parameter 'assistant_id' of type 'str'. A note states: 'Note: Currently, the v2 API does not support'. Below this, there is a feedback prompt: 'Did you find this useful?' with 'Yes' and 'No' buttons. On the right, an 'Example request' is shown in a dark-themed code editor, containing the following Python code:

```
import json
from ibm_watson import AssistantV2
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator

authenticator = IAMAuthenticator('{apikey}')
assistant = AssistantV2(
    version='2020-04-01',
    authenticator = authenticator
)
```

Step 6: copy the RHS code into a python file

The screenshot shows a Python script in a text editor window titled 'chatbot.py - C:\IBMCE_Python\chatbot\chatbot.py (3.8.4)'. The script contains the following code:

```
import json
from ibm_watson import AssistantV2
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator

authenticator = IAMAuthenticator('{apikey}')
assistant = AssistantV2(version='2020-04-01', authenticator = authenticator)

assistant.set_service_url('{url}')

response = assistant.create_session(assistant_id='{assistant_id}').get_result()

print(json.dumps(response, indent=2))
```

Step 7: Replace apikey, url and assistant_id with actual values

Step 8: Goto Assistant settings -> API Details -> Assistant ID

Assistants

An assistant helps your customers complete tasks and get information faster. It may clarify requests, search for answers from a knowledge base, and can also direct your customer to a human if needed.

Create assistant

hellobot

Skills (1)

people assistant

Integrations (2)

Settings

Delete

Step 9: Click on API details

Assistant settings

hellobot

Rename assistant

API details

Inactivity timeout

Rename assistant

Name

hellobot

Description (optional)

Step 10: Copy the Assistant ID and paste in Python code

Assistant settings

hellobot

Rename assistant

API details

Inactivity timeout

API details

Assistant details

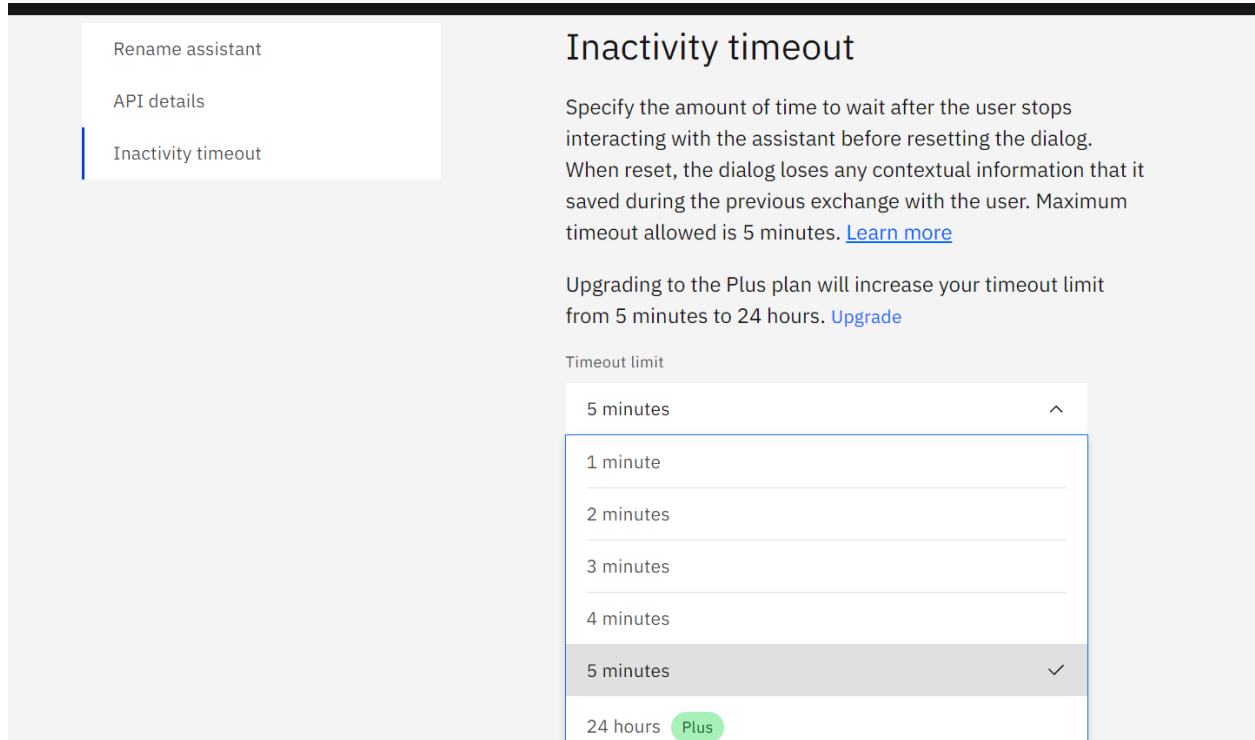
Assistant name: hellobot

Assistant ID: a6e43b3c-b3b6-4f14-997c-6f92b8c6e2f4

Session gets delete for every certain period

Step 11: Click on Inactivity timeout and understand the Timeout limit

Note: Because our accounts are free accounts we cannot increase the time limit



Step 12: Run the below code by click f5

```
chatbot.py - C:/IBMCE_Python/chatbot/chatbot.py (3.8.4)
File Edit Format Run Options Window Help
import json
from ibm_watson import AssistantV2
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator

authenticator = IAMAuthenticator('oBzOx-i2pBR_L_NY3hSzCpU8zbgy2judMoIU0FS1__YP')
assistant = AssistantV2(version='2020-04-01', authenticator = authenticator)

assistant.set_service_url('https://api.eu-gb.assistant.watson.cloud.ibm.com/instances/...')

response = assistant.create_session(assistant_id='a6e43b3c-b3b6-4f14-997c-6f92b...')

print(json.dumps(response, indent=2))
```

Step 13: Ensure output should be like below with session id, copy and paste in notepad

```
===== RESTART: C:/IBMCE_Python/chatbot/chatbot.py =====
{
  "session_id": "0d86a079-40f9-4792-a639-47a963b5fd5b"
}
>>> |
```

Step 14: select Send user input to assistant (statefull), copy the code

The screenshot shows the IBM Watson Assistant console interface. On the left, a sidebar menu includes sections like 'Data handling', 'Rate limiting', 'Related information', 'Methods', 'Sessions', 'Message', 'Logs', and 'User data'. The 'Message' section is expanded, showing options for sending user input to an assistant, with 'Send user input to assistant (stateful)' selected. The main area displays the 'Request' tab, which lists parameters: 'assistant_id' (Unique identifier of the assistant), 'session_id' (Unique identifier of the session), and 'MessageInput' (An input object that includes the input text). Below the parameters, there is a feedback prompt 'Did you find this useful?' with 'Yes' and 'No' buttons. On the right, a dark-themed code editor shows a Python example request. The code imports necessary modules, initializes an authenticator and assistant, sets the service URL, and sends a message to the assistant with the specified session ID and input text.

```
import json
from ibm_watson import AssistantV2
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator

authenticator = IAMAuthenticator('{apikey}')
assistant = AssistantV2(
    version='2020-04-01',
    authenticator = authenticator
)

assistant.set_service_url('{url}')

response = assistant.message(
    assistant_id='{assistant_id}',
    session_id='{session_id}',
    input={
        'message_type': 'text',
        'text': 'Hello'
```

Step 15: Paste the code in new python file

```

untitled*
File Edit Format Run Options Window Help

import json
from ibm_watson import AssistantV2
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator

authenticator = IAMAuthenticator('{apikey}')
assistant = AssistantV2(
    version='2020-04-01',
    authenticator = authenticator
)

assistant.set_service_url('{url}')

response = assistant.message(
    assistant_id='{assistant_id}',
    session_id='{session_id}',
    input={
        'message_type': 'text',
        'text': 'Hello'
    }
).get_result()

```

Step 16: Replace 4 details (session id extra got included) and execute the code you will see below error

1.ApiException: Error: Invalid Session, Code: 40c8448-e624-4c6e-9b9d-6f4f8e2e2736

Step 17: Re execute previoud python file so that you will get output with latest session id, copy that new session id in above code and execute. You will get the output like below

```

>>>
===== RESTART: C:/IBMCE_Python/chatbot/chatbot2.py =====
{
  "output": {
    "intents": [
      {
        "intent": "Greetings",
        "confidence": 1
      }
    ],
    "entities": [],
    "generic": [
      {
        "response_type": "text",
        "text": "Hi"
      }
    ]
  }
}

```

Step 18: change input to “can you take order”

```

response = assistant.message(
    assistant_id='a6e43b3c-b3b6-4f14-997c-6f92b8c6e2f4',
    session_id='78454076-1672-4323-956a-f83e578283e7',
    input={
        'message_type': 'text',
        'text': 'can you take order'
    },
    ,

```

Step 19: Now execute code you can see result like below

===== RESTART: C:/IBMCE_Python/chatbot/chatbot2.py

```
{
  "output": {
    "intents": [
      {
        "intent": "order",
        "confidence": 0.25960035305124907
      }
    ],
    "entities": [],
    "generic": [
      {
        "response_type": "text",
        "text": "what do you want to order"
      }
    ]
  }
}
```