

Task:

Create a Weather Bot where user can get whether update info by sending city name to Chat Bot (You may use API calls like open weather API)

We create a bot named “WeatherBot” and add two utterances

Bots

Create

Actions ▾

↺

⚙

?

Filter: 🔍 Filter by Bot name

	Name	Status	Locale	Last updated	Date Created
<div></div>	WeatherBot	READY	English (US)	October 9, 2020 at 6:18:45 PM UTC+5:30	October 9, 2020 at 1:04:40 PM UTC+5:30

GetWeather Latest ▾

▼ Sample utterances ⓘ

[+](#)

[×](#)

[×](#)

The “location” is in blue color because it is a slot which we will create as shown below:

▼ Slots ⓘ


Priority	Required	Name	Slot type	Version	Prompt	Settings
		<input type="text" value="e.g. Location"/>	<input type="text" value="e.g. AMAZON.US_CITY"/>		<input type="text" value="e.g. What city?"/>	+
1.	<input checked="" type="checkbox"/>	<input type="text" value="location"/>	<input type="text" value="AMAZON.AT_CITY"/>	Built-in ▾	<input type="text" value="Please enter the name of the city"/>	⚙ 🔒

Now, choosing the lambda function. Here we are choosing “WeatherHandler” as lambda function.

▼ Fulfillment ⓘ

☒ AWS Lambda function ☐ Return parameters to client

Lambda function WeatherHandler ▼

[View in Lambda console](#) 

Version or alias Latest ▼

After this, we save the intent and build the bot.

Test Bot:

> **Test bot (Latest)**  Ready. Build complete.

what is the weather today?

Please enter the name of the city

Kathmandu

Temperature: 292.15, Pressure: 1018,
Humidity: 82, Weather Report: few clouds

what is the weather in Dhangadhi

Temperature: 296.39, Pressure: 1012,
Humidity: 64, Weather Report: clear sky

[Clear chat history](#)

Chat with your bot...

Code:

lambda_function.py

```
import json
import urllib3
import logging

logger = logging.getLogger()
logger.setLevel(logging.DEBUG)

def lambda_handler(event, context):

    logger.debug(event)

    CITY = event['currentIntent']['slots']['location']
    API_KEY = "56223e9f24789c3edf97b1cccd0c0a0f"

    # base URL
    BASE_URL = "https://api.openweathermap.org/data/2.5/weather?"

    # upadting the URL
    URL = BASE_URL + "q=" + CITY + "&appid=" + API_KEY

    http = urllib3.PoolManager()

    # Fetch url
    resp = http.request('GET', URL)

    # Load url response to json
    result = json.loads(resp.data.decode('utf-8'))

    # json elements
    temperature = result["main"]["temp"]
    pressure = result["main"]["pressure"]
    humidity = result["main"]["humidity"]
    weather_report = result["weather"][0]["description"]

    msg = "Temperature: {}, Pressure: {}, Humidity: {}, Weather Report: {}".format(temperature, pressure, humidity, weather_report)
```

```
return {  
  "sessionAttributes": event["sessionAttributes"],  
  "dialogAction": {  
    "type": "Close",  
    "fulfillmentState": "Fulfilled",  
    "message": {  
      "contentType": "PlainText",  
      "content" : msg  
    }  
  }  
}
```