

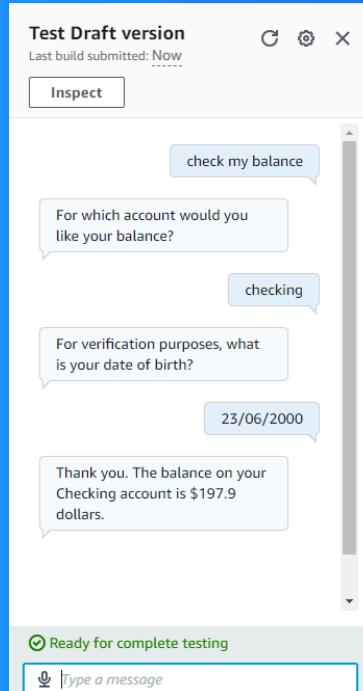


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Connect a Chatbot with Lambda



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Introducing Today's Project!

What is Amazon Lex?

Amazon Lex is a service for building conversational interfaces using voice and text. It powers chatbots and voice apps with natural language understanding, making it easier to create intuitive user interactions.

How I used Amazon Lex in this project

I used it to create my custom chatbot.

One thing I didn't expect in this project was...

How easy it is to connect lambda with my chatbot.

This project took me...

It took me 20 minutes to complete this project.



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AWS Lambda Functions

AWS Lambda is a service that lets you run code without provisioning or managing servers.

In this project, I created a Lambda function to give users quick answers about their account balances. When someone asks about their account balance to your chatbot, Lex will ask your Lambda function to run this code, which will pick a random number.



The screenshot shows a code editor window titled "lambda_function". The code is written in Python and defines three functions: "random_num", "get_slots", and "get_slot". The "random_num" function returns a random decimal number between 1000 and 50000. The "get_slots" function returns the slots from an intent request. The "get_slot" function returns the value for a specific slot name if it exists in the slots dictionary.

```
4 """
5 import json
6 import random
7 import decimal
8
9 def random_num():
10     return(decimal.Decimal(random.randrange(1000, 50000))/100)
11
12 def get_slots(intent_request):
13     return intent_request['sessionState']['intent']['slots']
14
15 def get_slot(intent_request, slotName):
16     slots = get_slots(intent_request)
17     if slots is not None and slotName in slots and slots[slotName] is not None:
18         return slots[slotName]['value']['interpretedValue']
19     else:
20         return None
21
```

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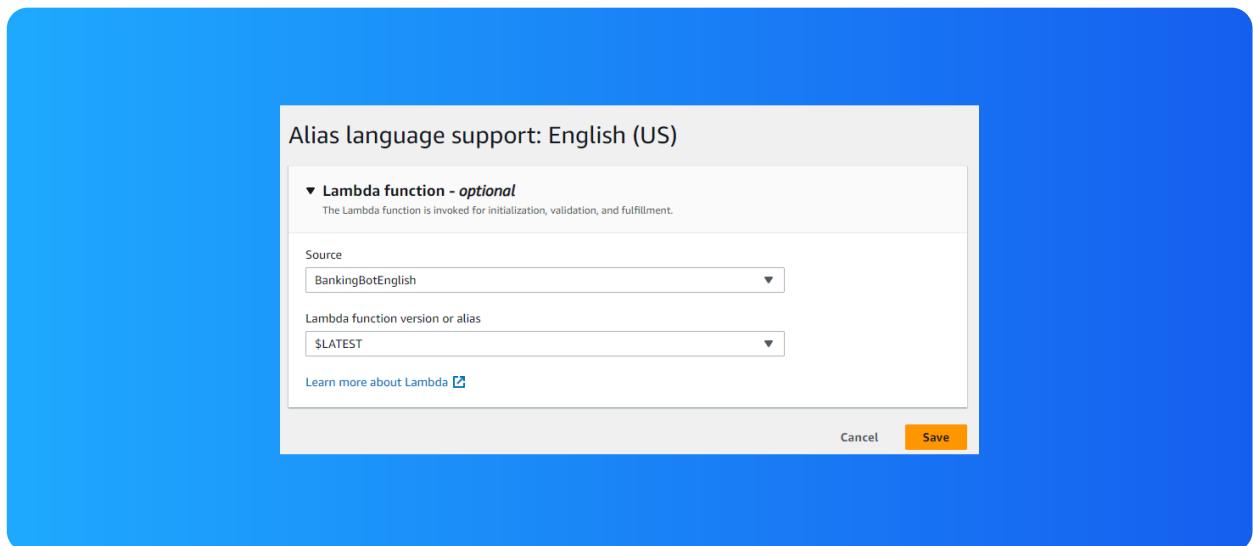
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Chatbot Alias

An alias is pointer for a specific version.

TestBotAlias is a default version of your bot that's made for testing or development.

To connect Lambda with my BankerBot, I visited my bot's TestBotAlias and selected the language 'English', then selected my function as source and the version of the function.





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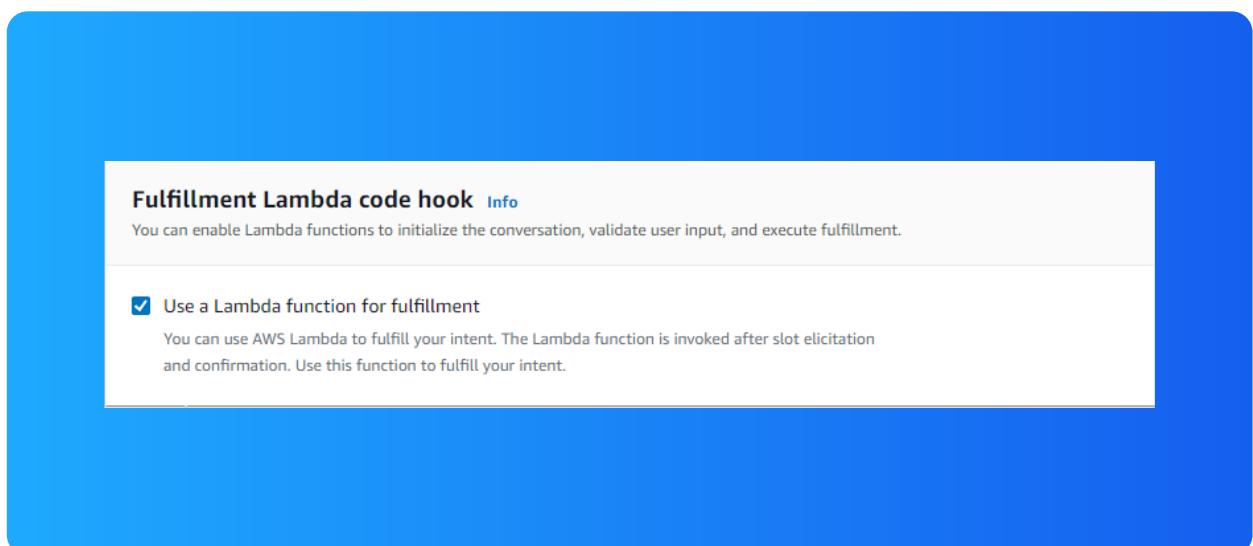
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Code Hooks

Code hooks help you connect your chatbot to custom Lambda functions for doing specific tasks during a conversation. They're used to handle more complex actions that the basic chatbot setup can't do on its own, like checking data from a database.

Even though I already connected my Lambda function with my chatbot's alias, I had to use code hooks because I had to ensure that after fulfilment, the code hook should use Lambda function to get the amount.

I could find code hooks at Fulfilment section.



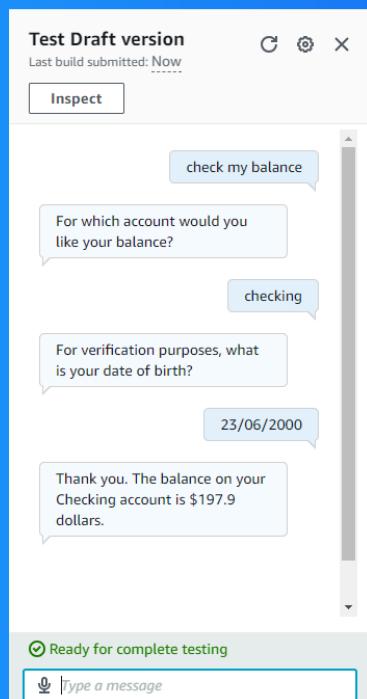


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The final result!

I've set up my chatbot to trigger Lambda and return a random dollar figure when the user account and DOB is verified.





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