#### **Data Sources**

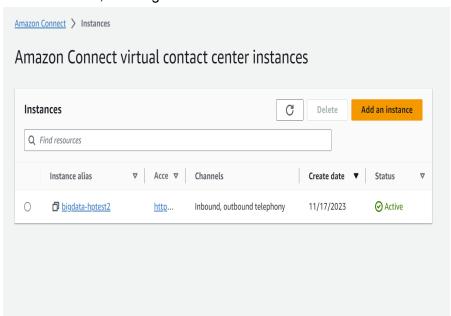
This project will be focused on helping customers interact with a customer support agent on the phone and we would be processing the customer's request in real time. For the call center experience we are using AWS Connect to be our cloud contact center.

First we would need to create an AWS Connect Instance.

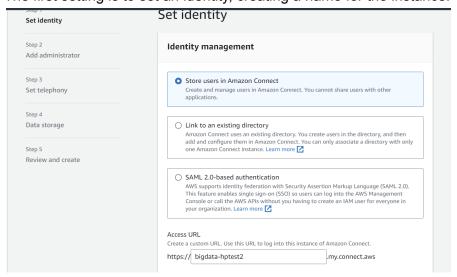
### **AWS Connect**

First Creating an AWS Connect Instance

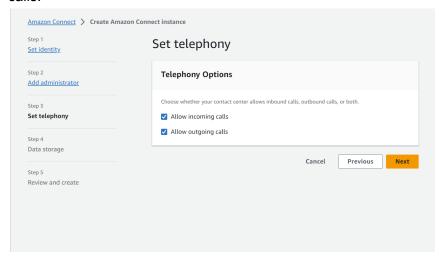
On the console, creating a instance.



The first setting is to set an identity, creating a name for the instance.

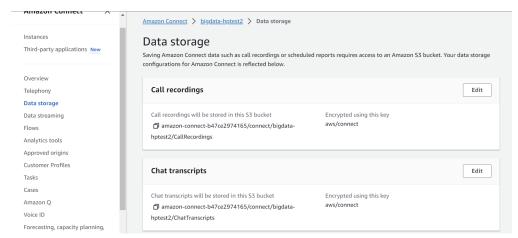


In Set telephony, this option allows our Connect Instance to handle both incoming and outgoing calls.

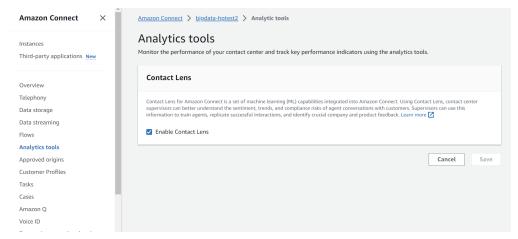


This will create the connect instance.

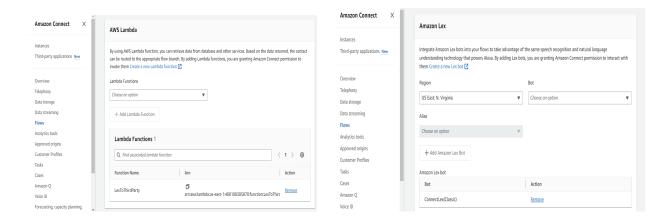
Once we have the base instance created, we can modify the remaining settings.



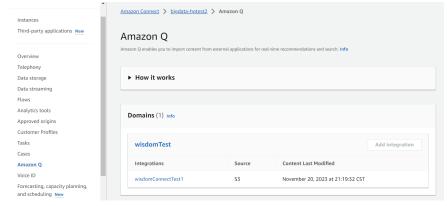
Once the instance is created, we can choose the instances and edit the data storage. This allows for the transcripts of the call to be stored in S3. Both recordings and chat data would be stored.



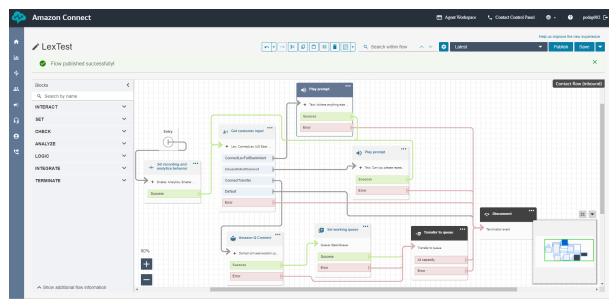
By allowing for Contact Lens in the Analytics Tools we can get access to post call analytics.



In the Flows sections, we would need to add AWS Lambda and Lex. Before we add the two services to the flow sections, we would need to create them separately first. Will look into creating these services in a later section. Please refer to them and create the resources and come back to this section.



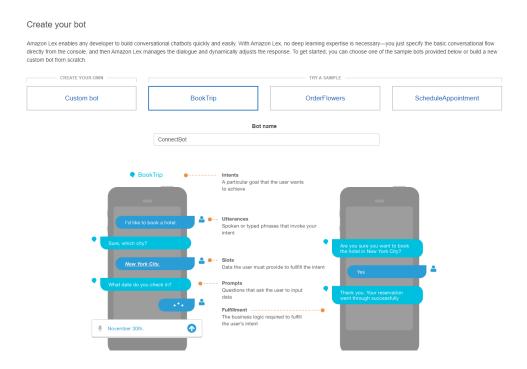
The final setting in Connect would be to add in the Wisdom which allows to be used in the Agent's workspace.



This is the flow of the phone conversation.

# AWS Lex

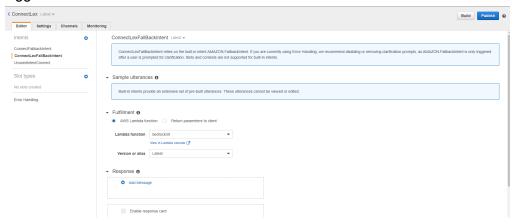
In the V1 console, we will be building a custom bot.



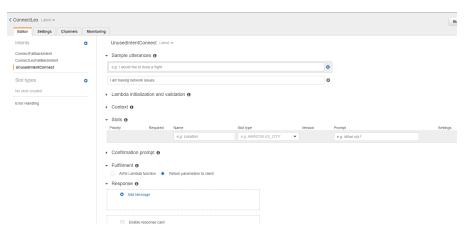
Each Lex bot must have intents set up. These intents look for what the user inputs into the system and for each intent Lex will have a set of actions being defined.

The first intent will be a FallBack Intent, this intent will be triggered when all other intents fail and

Lex cannot activate the other intents. For our project this is the most important intent. As there will be no predefined intents and so each time the customer has a query the fallback intent will trigger.

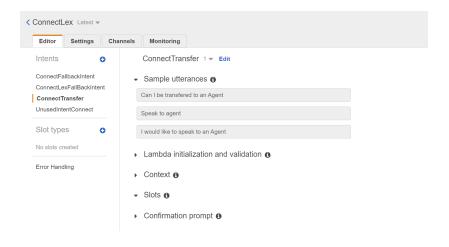


Within the Fallback Intent we will attach a Lambda function. This lambda function will take in the user inputs, process it and return a result back to the user.

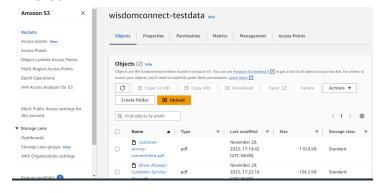


AWS Lex requires to have a defined intent and while our project does not require it. So the sample intent will just be a placeholder for now.

The final intent is to listen for any requests from the customer to speak to a human Agent. So this would transfer the call to a human agent also handled by AWS Connect.

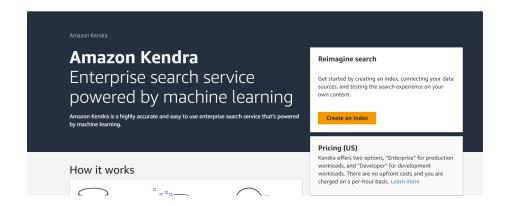


### AWS S3

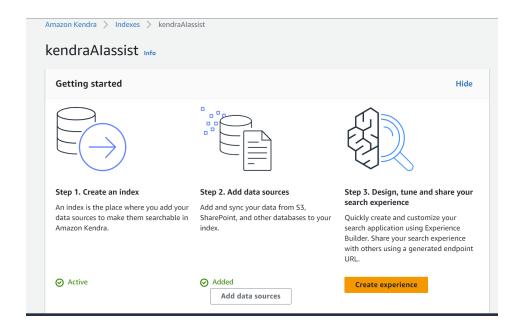


Created a S3 bucket to store the company policies

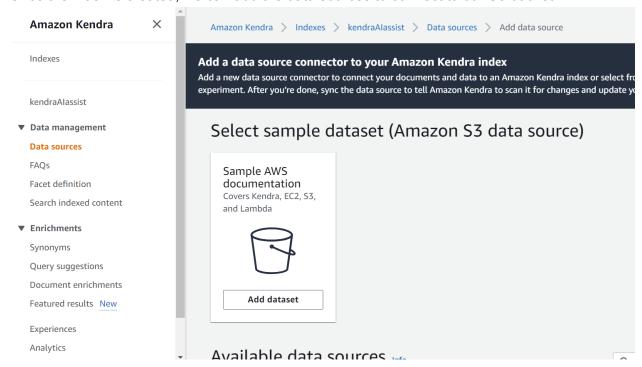
## AWS Kendra



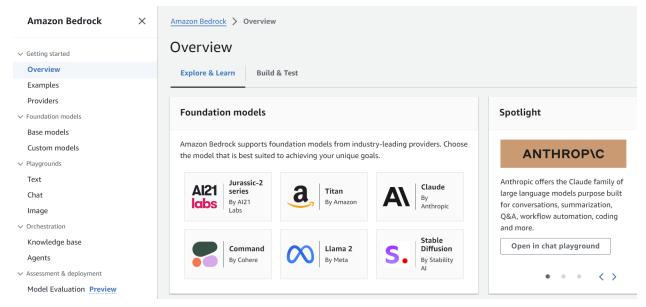
Creating a new Kendra Index, to use to search among the S3 company policies.



Once the index is created, we can add the data sources to connect to our S3 bucket



**AWS Bedrock** 



For bedrock, we got access to Jupyter.