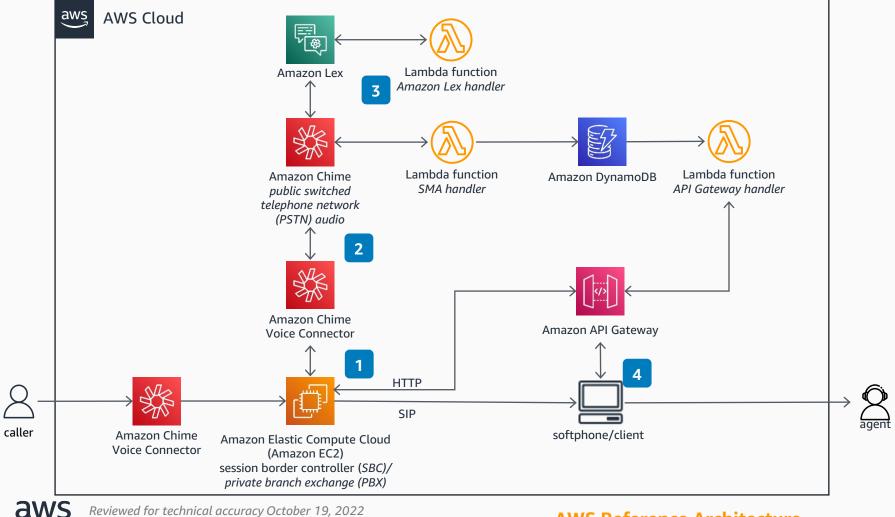
Guidance for Self Service with Virtual Assistants on

AWS

Apply conversational artificial intelligence and machine learning (AI/ML) technology to power chatbots and enhance interactive voice response (IVR) to understand a customer's intent and allow them to self-serve easily, anytime, and without the need for live agent assistance.



- A phone number is acquired through Amazon Chime SDK, which is associated with a contact center. Caller audio is routed through Amazon Chime Voice Connector by using Session Initiation Protocol (SIP), which initiates the Amazon Chime SIP media application (SMA).
- The Amazon Chime SMA notifies AWS Lambda, which stores call information in an Amazon DynamoDB table and starts the Amazon Lex chatbot/voice experience.
- The conversation starts with the caller interacting with Amazon Lex to understand intent and capture caller information.
- 4 Amazon Lex returns call processing to the Amazon Chime SMA along with full results to the contact center for disposition or call routing to an agent if required.