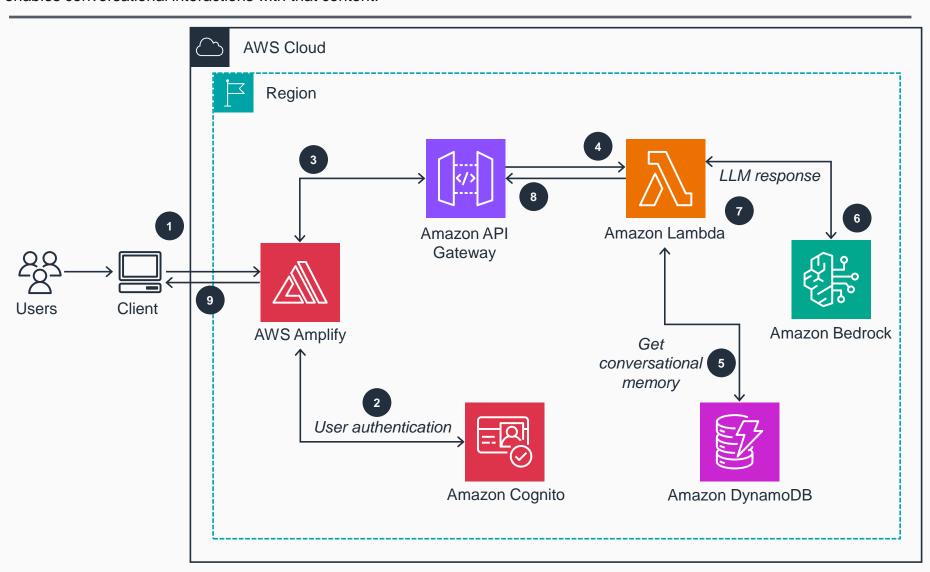
## **Guidance for Generative Al Assistant on AWS**

This architecture diagram shows how to build a generative AI-powered application on AWS that summarizes web content and enables conversational interactions with that content.



- Users access a web application based on React that is served by **AWS Amplify**. User inputs can be a query with a web link or a PDF document to summarize.
- 2 Amazon Cognito user pool authenticates users.
- When a user inputs a message, the application sends a POST request to the Amazon API Gateway REST API.
- API Gateway then routes the message to the AWS Lambda function.
- User conversations are stored in Amazon
  DynamoDB. Users can create separate threads
  for discussing separate topics in the Amplify web
  application.
- The user input and conversation history is sent to Amazon Bedrock for large language model (LLM) response generation. Users can choose between Amazon Nova Micro or Anthropic Claude Sonnet foundation models.
- When the response comes back from Amazon Bedrock, the Lambda function stores it in a DynamoDB table as conversational memory.
- The **Lambda** function then sends back a response to the user with the same channel through **API Gateway**.
- The **Amplify** frontend web application shows the responses.