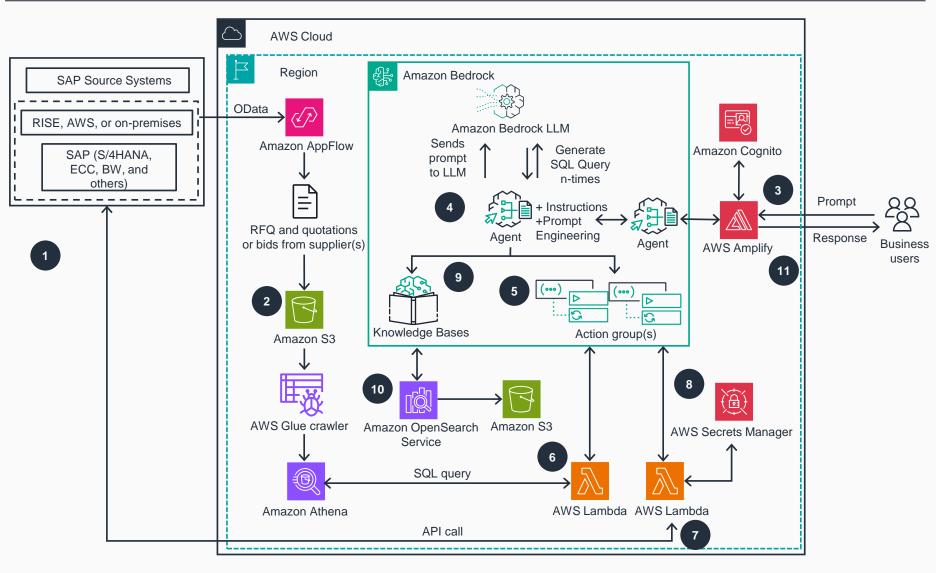
## **Guidance for Sustainability Sourcing Assistant for SAP on AWS**

This architecture diagram shows how to build a Sustainability Sourcing Assistant for SAP on AWS by extracting data from SAP using the OData protocol, Amazon Bedrock to query the data, and SAP calling APIs to create purchase orders.



- Customer on-premises SAP OData extraction performs near real-time data extraction using Amazon AppFlow.
- Amazon Simple Storage Service (Amazon S3) stores extracted data in JSON format. The data is crawled using AWS Glue crawler.
- A chatbot assistant using AWS Amplify receives natural language inputs from users. Amazon Cognito handles authentication.
- The Amazon Bedrock Agent interprets user input, leveraging its chat history and underlying foundation model.
- The Amazon Bedrock Agent is configured with action groups to manage processing steps.
- **AWS Lambda** functions translate natural language to SQL queries for the **Amazon Athena** database.
- Lambda invokes SAP API to create purchase orders in SAP.
- AWS Secrets Manager stores and retrieves credentials for SAP.
- Amazon Bedrock Knowledge Bases provides managed retrieval-augmented generation (RAG) for additional context, such as sustainability information.
- The **S3** bucket data is synced and transformed into embeddings for ML use.
- The Amazon Bedrock Agent curates a final response, generated and delivered through Amplify, which is extendable to other UIs.