Generative AI Use cases and solutions
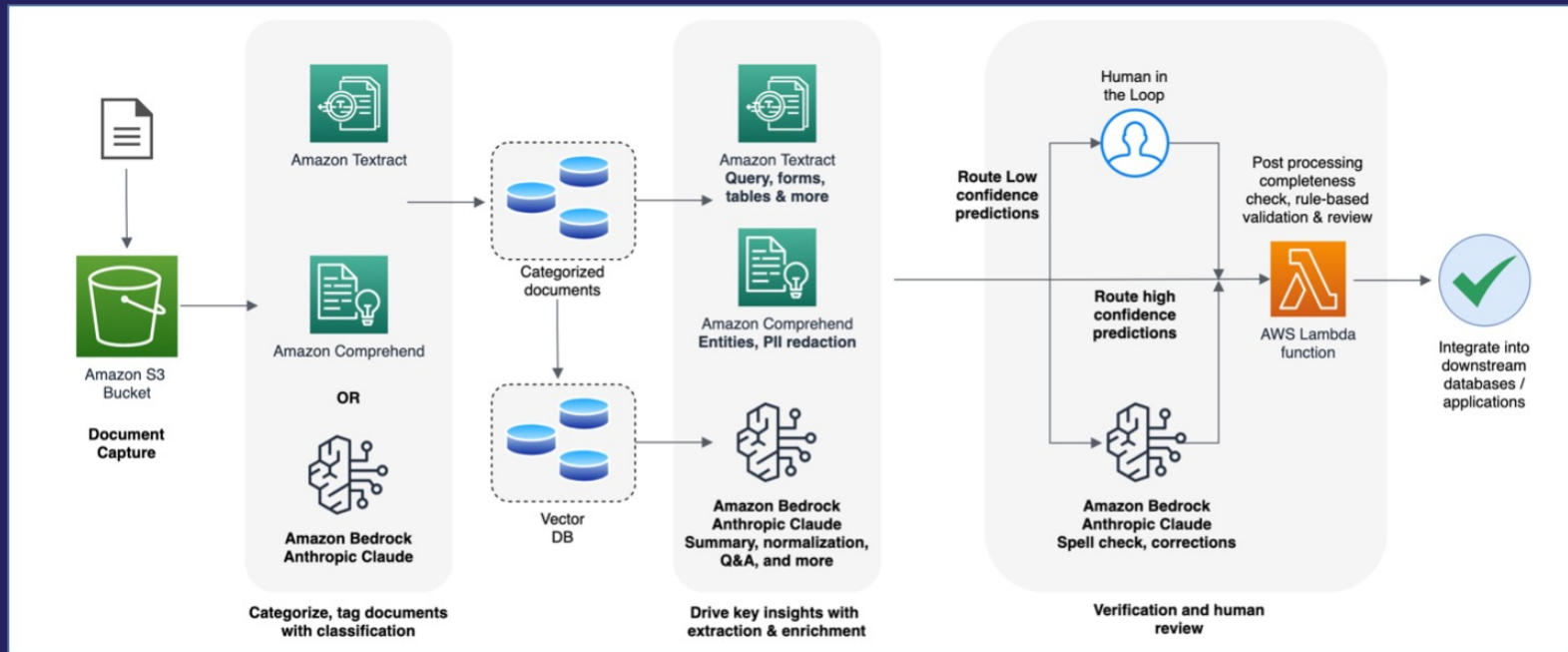
Rodrigo Alarcon
Principal ML Strategy SA

Agenda

1. Intelligent Document Processing with Gen AI
2. Gather Business Insights with Generative AI
3. Multi-Modal Chatbot
4. Generative AI Application Builder on AWS

1. Intelligent document processing with Amazon Textract, Amazon Bedrock, and LangChain
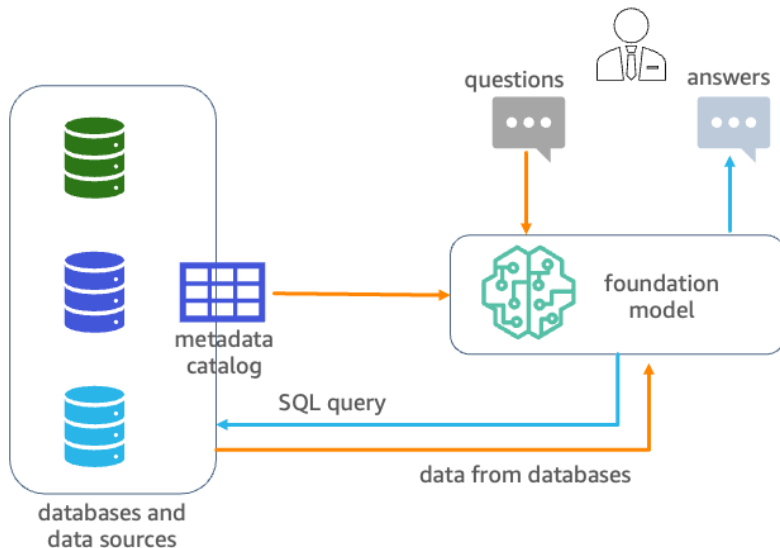

Blog post

Use cases for IDP with generative AI

1. Document classification
2. Summarization
3. Standardization and in-context Q&A
4. Templating and normalizations
5. Spellcheck and corrections

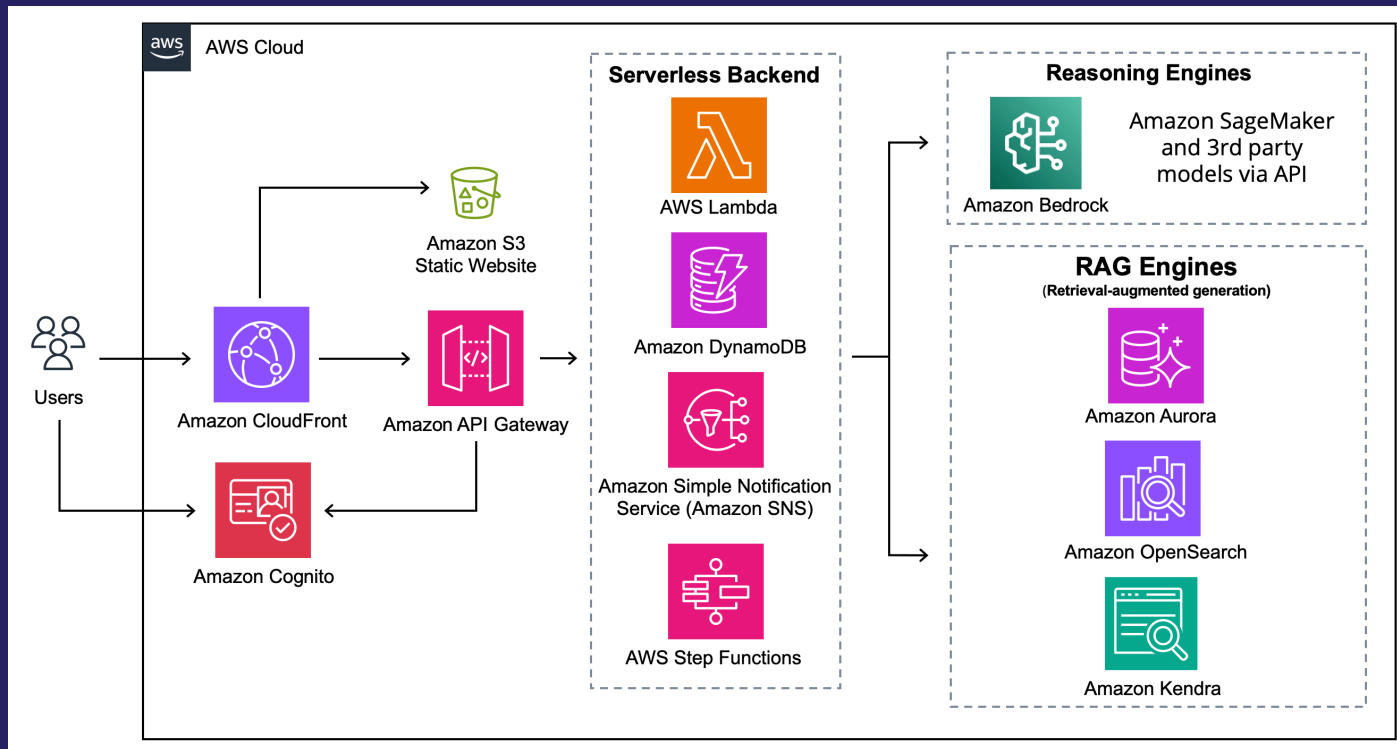# 2. Gather Business Insights with Generative AI

Architecture Pattern : Answering questions against SQL-based data sources

- Ask questions about factual information without requiring the user to have knowledge of SQL database.

- The foundation model will generate an appropriate SQL query based on the user's question and available metadata.

- The generated SQL query is executed against the database, and the results are returned to the user through the foundation model.
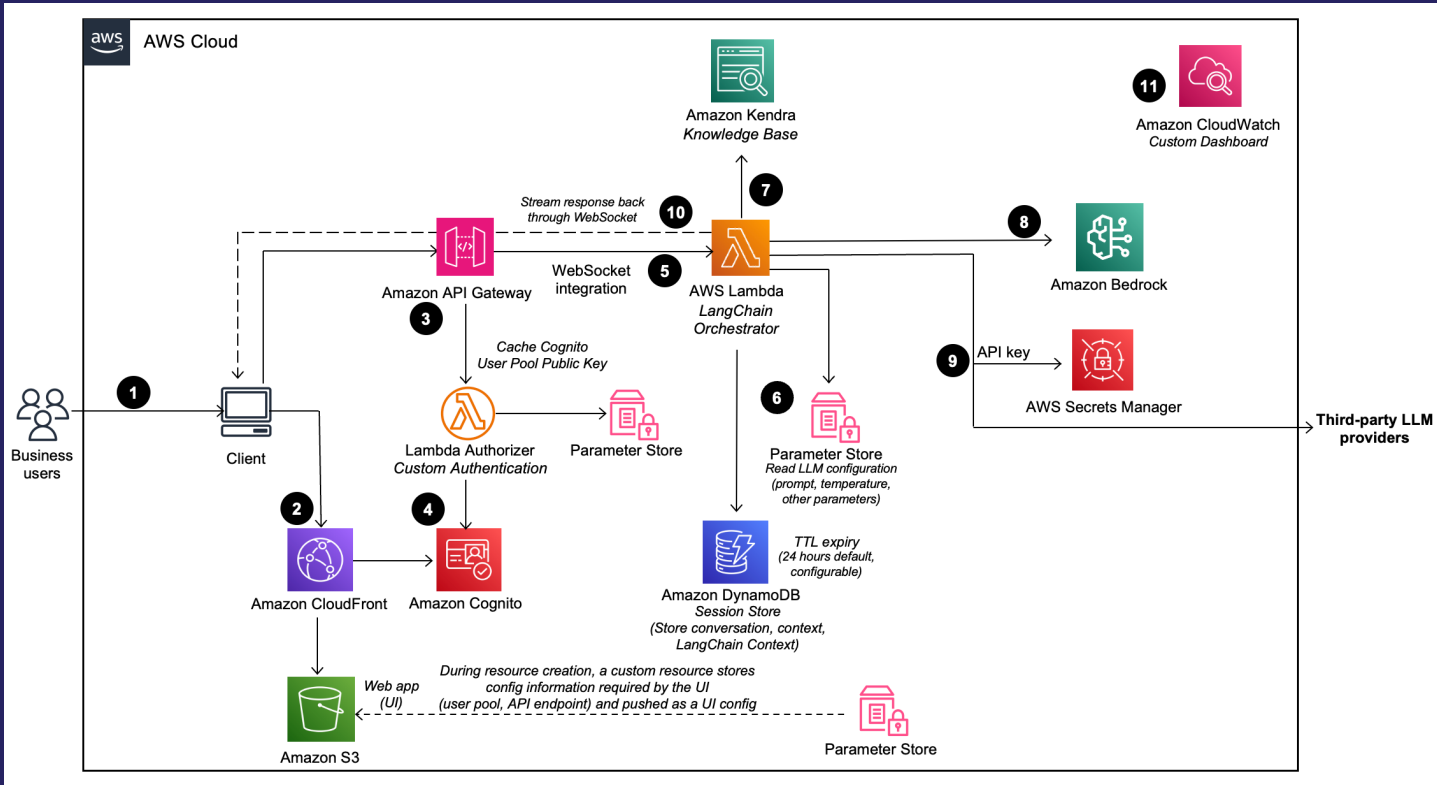
questions

answers

metadata catalog

foundation model

SQL query

data from databases

databases and data sources

Blog post

3. Deploying a Multi-Model and Multi-RAG Powered Chatbot Using AWS CDK on AWS

GitHub repo

4. Generative AI Application Builder on AWS

AWS Solution

Questions?