

Serverless Holiday Hackathon 2023





Our plans for today

About Serverless Guru



LLM Crash Course!

AWS LLM Ecosystem



Q & A



About Serverless Guru

Your Guide to Serverless
Adopt. Migrate. Build.



Our Company

We love to take on challenges, face the unknown, and be on the forefront of serverless innovation.

Helping companies and people realize their full potential gives us energy.

Speak to a Guru today!



🌟 Serverless Holiday Hackathon Judges 🌟



Yan Cui
AWS Serverless Hero



Rosius Ndimofor
AWS Serverless Hero

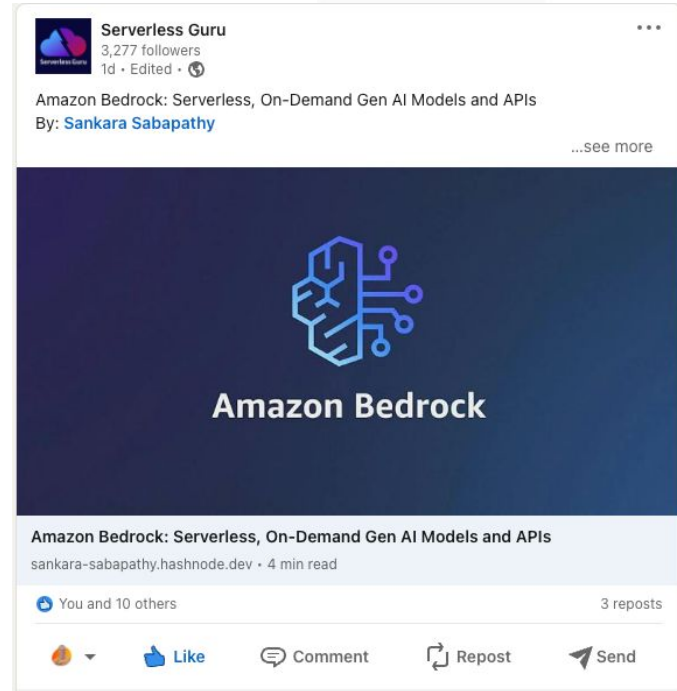


Cyril Bandolo
AWS Machine Learning Hero



Manoj Fernando
AWS Community Hero

HACKATHON BEGINS - Friday, December 1st, 2023





LLM Crash Course

Everything you need to know
to get the most out of LLMs



AWS LLM Ecosystem

Bedrock is a Minecraft thing? Right?

Amazon Bedrock

Definition: Amazon Bedrock is a fully managed service that offers a choice of high-performing foundation models ... via a single API.

Models Available

LLM: Llama 2, Claude, Titan

Text-To-Image: Stable Diffusion, Titan (again)

Amazon Bedrock

Definition: Amazon Bedrock is a fully managed service that offers a choice of high-performing foundation models ... via a single API.

Managed / Serverless

No infrastructure to maintain (but must acquire model access) and \$ per token pricing model.

Amazon Bedrock

Definition: Amazon Bedrock is a fully managed service that offers a choice of high-performing foundation models ... via a single API.

Accessible via AWS API

InvokeModel

InvokeModelWithResponseStream

InvokeAgent

Bedrock Knowledge Base

RAG Reaches AWS!

Generally Available **28th November 2023**

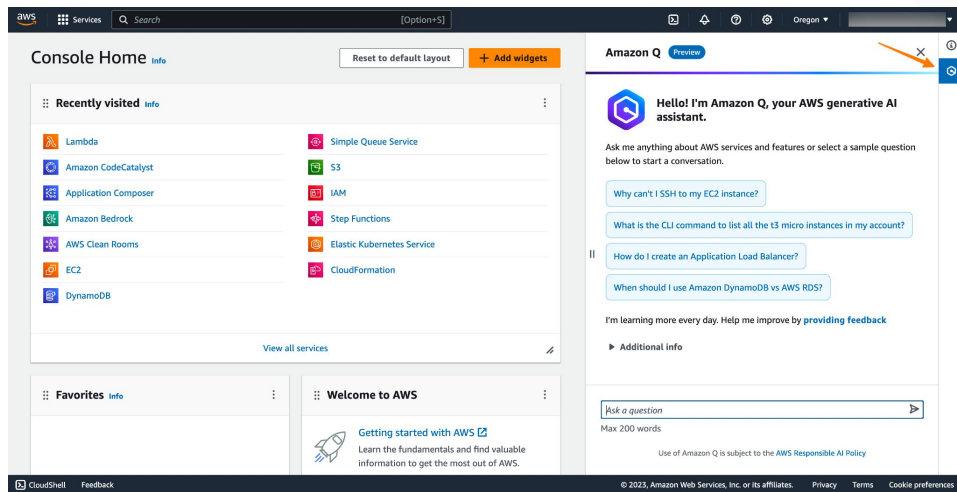
Ingests data (S3) into vector database

Think custom GPTs from OpenAI



Bedrock Knowledge Base

RAG Reaches AWS!




Bedrock Knowledge Base

RAG Reaches AWS!

Select up to 50 log groups.

workshop-yancui ✕ Clear all

```
1 fields @message
2 | parse @message "FunctionName: *" as functionName
3 | filter @message like "START RequestId: *"
4 | stats count(*) as coldStartCount by functionName
5 | sort coldStartCount desc
```

 Query generator - new

Prompt Info

show me the Lambda functions with the most cold starts

Generate new query Update query

The selected log groups are used as context when generating queries.

Bedrock Agents

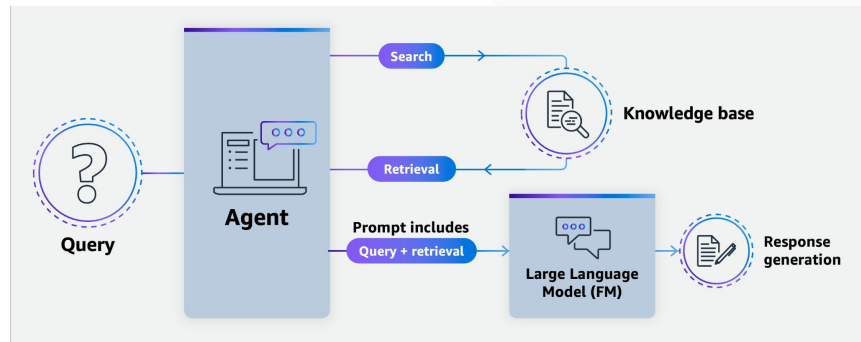
Developer Help At Last!

Generally Available **28th November 2023**

Access to private resources (via knowledge base)

Maintains a conversation chain/context

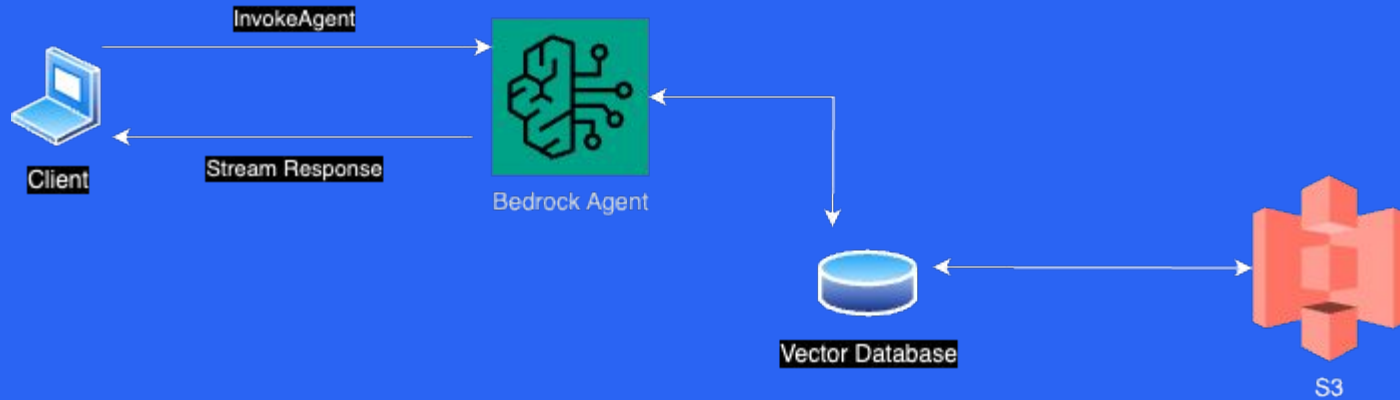
Think LangChain “ConversationChain”

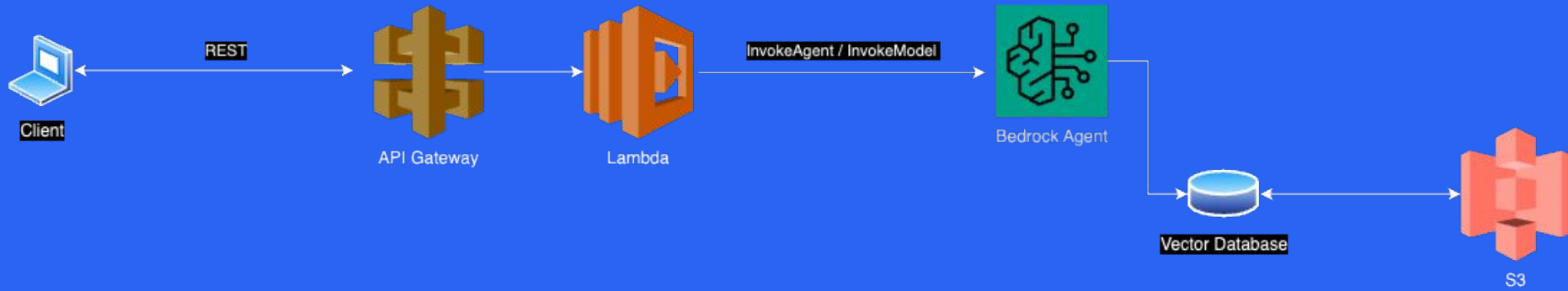


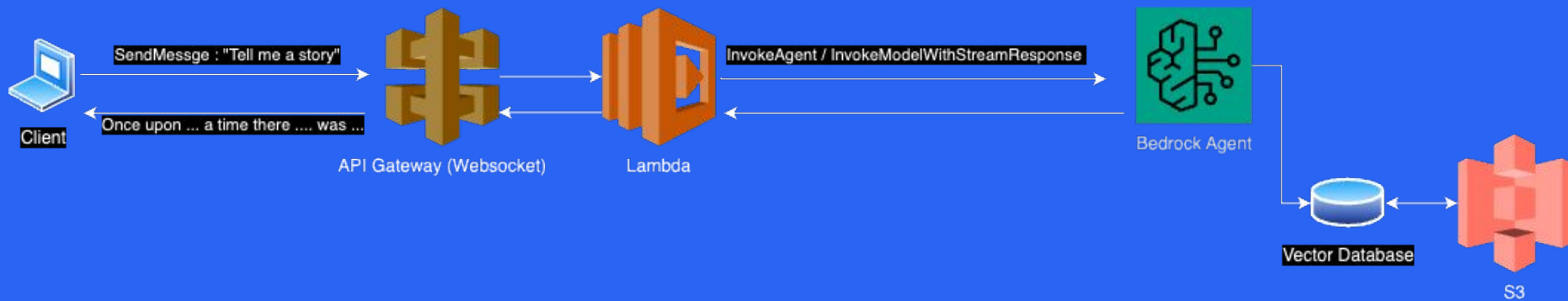
Time for
Demo.



Live Demo!









Questions & Answers

Thank you!



Join our discord Server!



Sign up for the challenge!