



Serverless x GenAI BKK Workshop

Generative AI at scale: Serverless workflows for enterprise-ready apps

[Pre-requisite] Enable foundation model access in Amazon Bedrock

[Pre-requisite] Configuring the front-end application

▼ Playground

Invoking a model in Amazon Bedrock using AWS Step Functions

Integrating an API with AWS Step Functions

Connecting a Client Application to the Serverless GenAI Backend

(Optional) Deep Dive on AWS AppSync

Summary

► Use cases

► Workshop Cleanup

▼ AWS account access

[Open AWS console \(us-west-2\)](#)

[Get AWS CLI credentials](#)

Exit event

[Event dashboard](#) > Playground

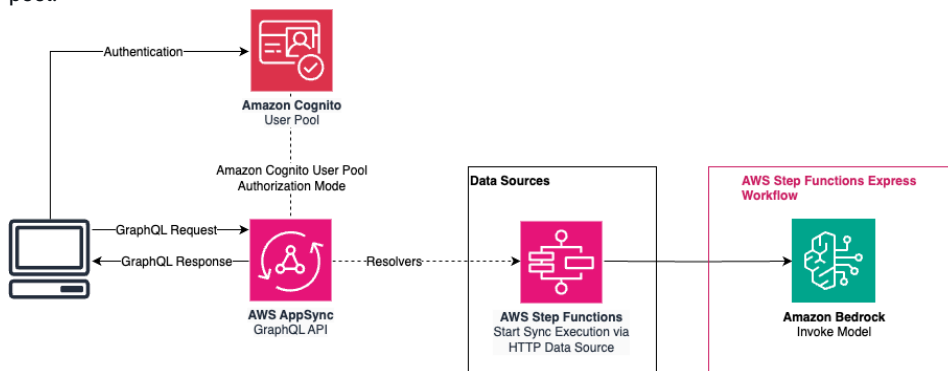
Playground

With Generative AI at a tipping point, new [Foundation Models \(FMs\)](#) are released regularly. As new and sophisticated FMs are available, you need to quickly shift and take advantage of it. This lab introduces you to the basics of invoking an FM in Amazon Bedrock. In the process, you will see how you can easily interconnect access and logic layers between the FM and the consuming application/user.

Integration - Most often, you will not just invoke a foundation model. You will have logic to validate the input, enhance the prompt, apply granular permissions, add history and so on. Additionally, you could use multiple models in your business logic. [AWS Step Functions](#) helps you to visually build your business logic as low code workflows, runs them at scale without you having to worry about servers and offers enhanced observability.

What you will do in the lab

You will learn to invoke a model hosted in [Amazon Bedrock](#) using AWS Step Functions and expose this workflow via an API. The access to the API is protected with Amazon Cognito user pool.



AWS Services used

- AWS Step Functions - Serverless visual workflow service
- Amazon Bedrock - The easiest way to build and scale Generative AI applications with foundation models
- [AWS AppSync](#) - Serverless GraphQL APIs
- [Amazon Cognito](#) - Implement secure, frictionless customer identity and access management that scales

Pre-created resources

- [AWS Identity and Access Management \(IAM\)](#) permissions for AWS Step Function workflows
- [AWS AppSync API for running the Step Functions workflow](#)

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