Serverless Guru

Serverless Holiday Hackathon 2023

Training, Development, Strategy.

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Our plans for today

- About Serverless Guru
- Langchain Deep Dive
- Choosing your Serverless API
- Q & A

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About Serverless Guru

Your Guide to Serverless
Adopt. Migrate. Build.

World-class AWS experts

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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!

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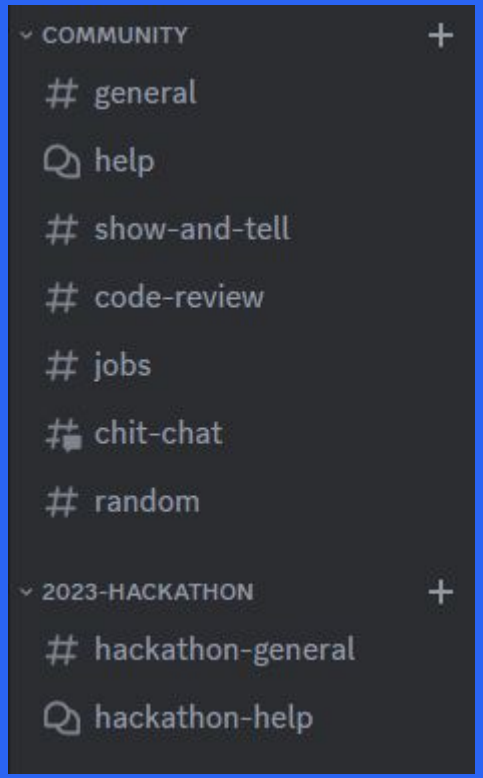

Join our discord Server!

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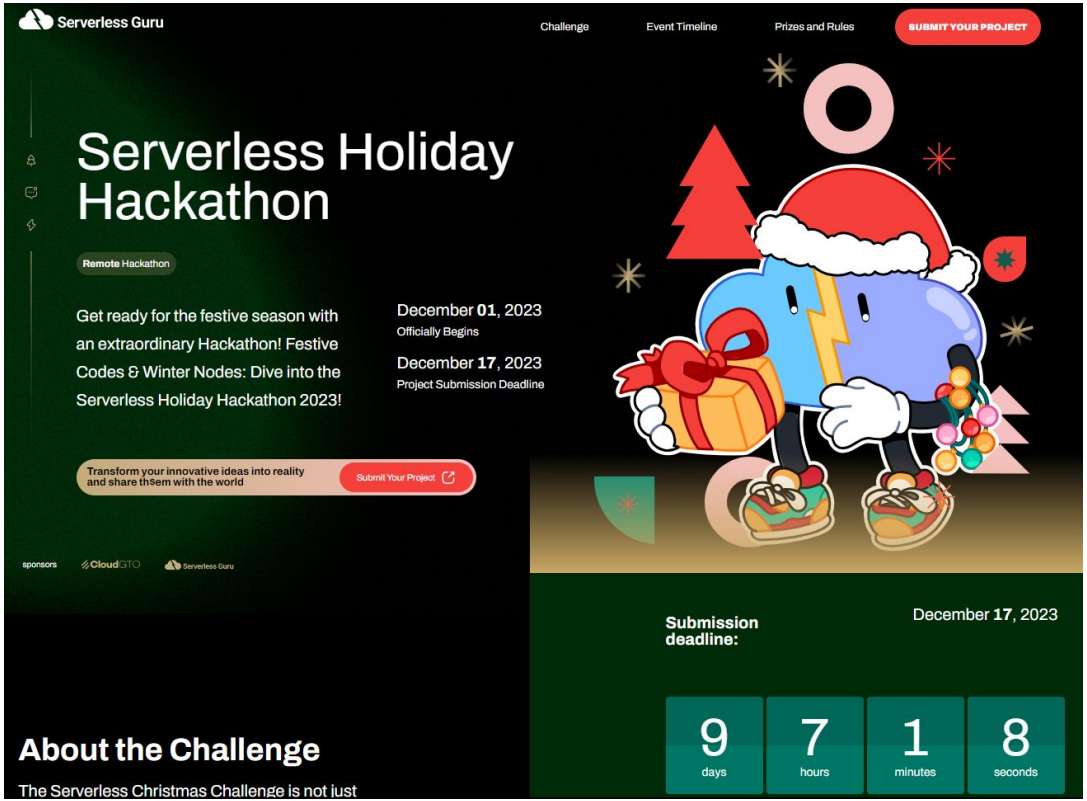
Submissions Form



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Langchain Deep Dive

Everything you need to know about Langchain
Conversation Chains and production monitoring with langsmith

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Choosing your Serverless API

Options, Challenges and Recommendations

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REST API

What is a Rest API?

A REST API in API Gateway is a c**ollection of resources and methods** that are integrated with **backend HTTP endpoints**. API Gateway **REST APIs use** a **request/response** model where a client sends a request to a service and the service **responds** back **synchronously**.

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REST API

Limitations

- Payload Size of max 10MB.
- Maximum integration timeout 30 seconds.
- Timeout for Lambda authorizer response 10 seconds.

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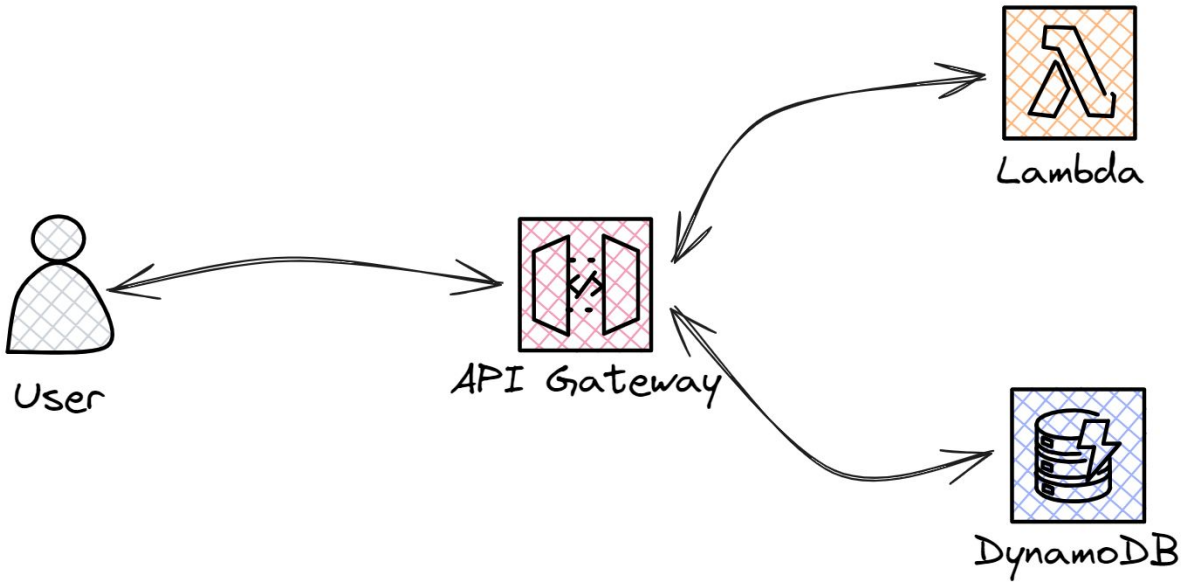
REST API

Basic Architecture



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Websocket API

What are WebSockets?

WebSockets represent a **communication protocol** that facilitates **real-time**, **bidirectional data** exchange between clients and servers over a single, **long-lived connection**.

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Websocket API

Limitations

- Integration timeout of 30 seconds.
- Connection duration for WebSocket API 2 hours.
- Idle Connection Timeout 10 minutes.
- Message payload size 128 KB.

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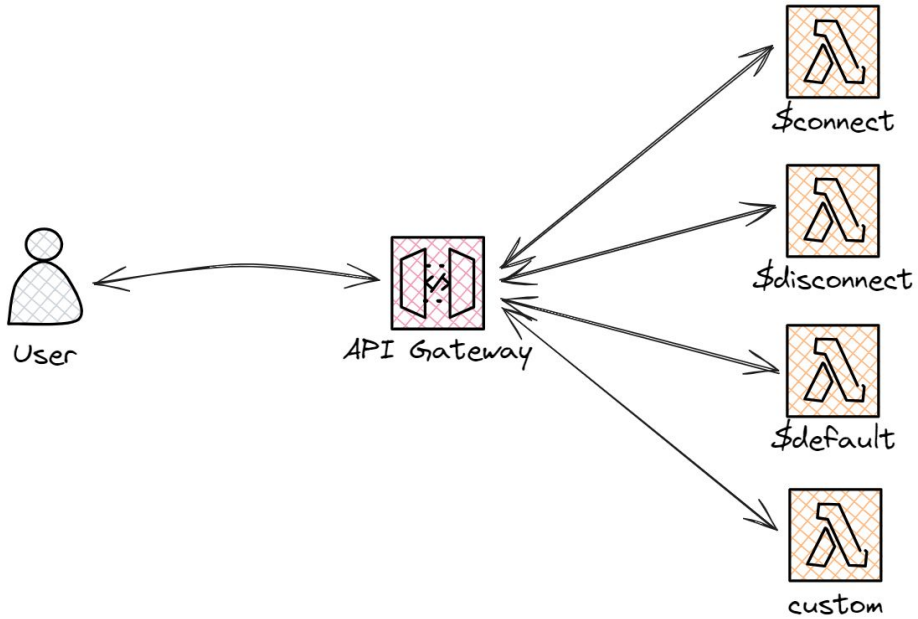
Websocket API

Basic Architecture



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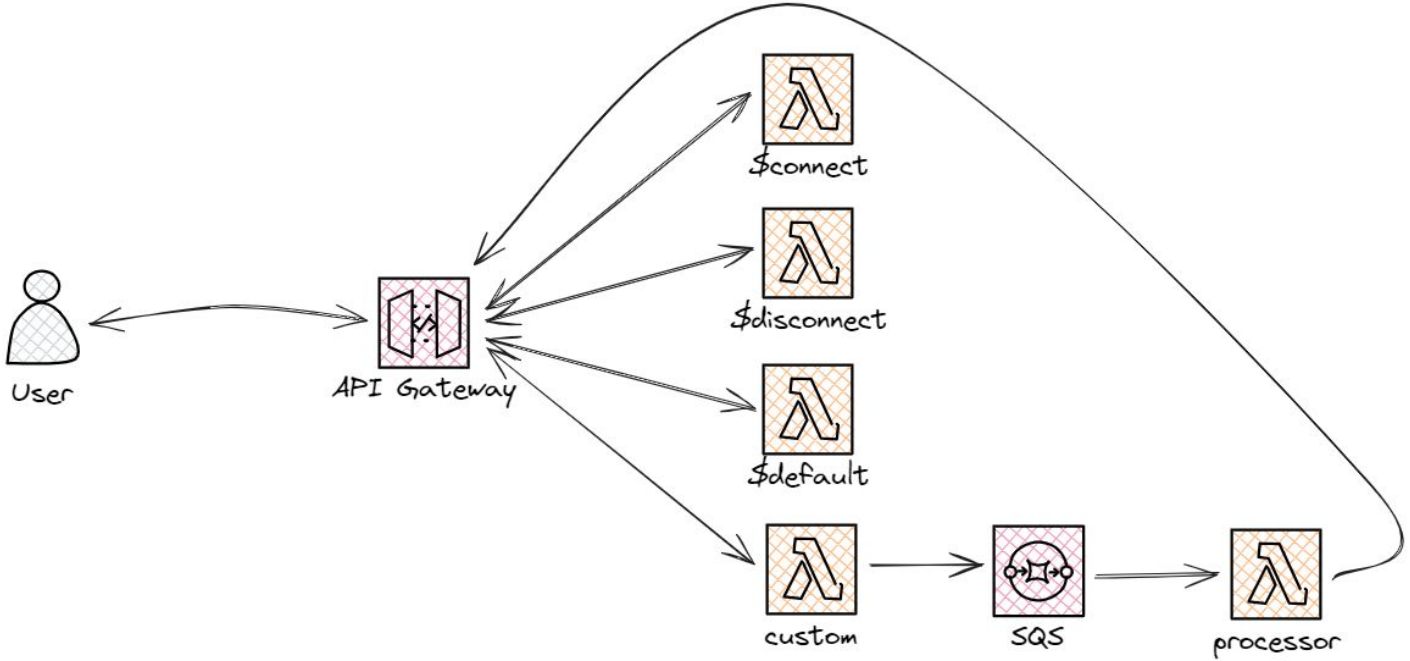
Websocket API

Basic Architecture



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AppSync Subscriptions

What are Appsync Subscriptions?

When clients invoke the **GraphQL subscription** operations, a secure **WebSocket connection** is automatically established and **maintained by AWS AppSync**. Applications can then **distribute data in real-time** from a data source **to subscribers**.

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AppSync Subscriptions

Limitations

- Subscriptions are **only triggered** when the **associated mutation is executed**.
- **Maximum size** of a message that can be received through subscriptions is **240 kilobytes**.
- AWS AppSync limits the **execution time** for mutations, queries, and subscriptions to **30 seconds**.

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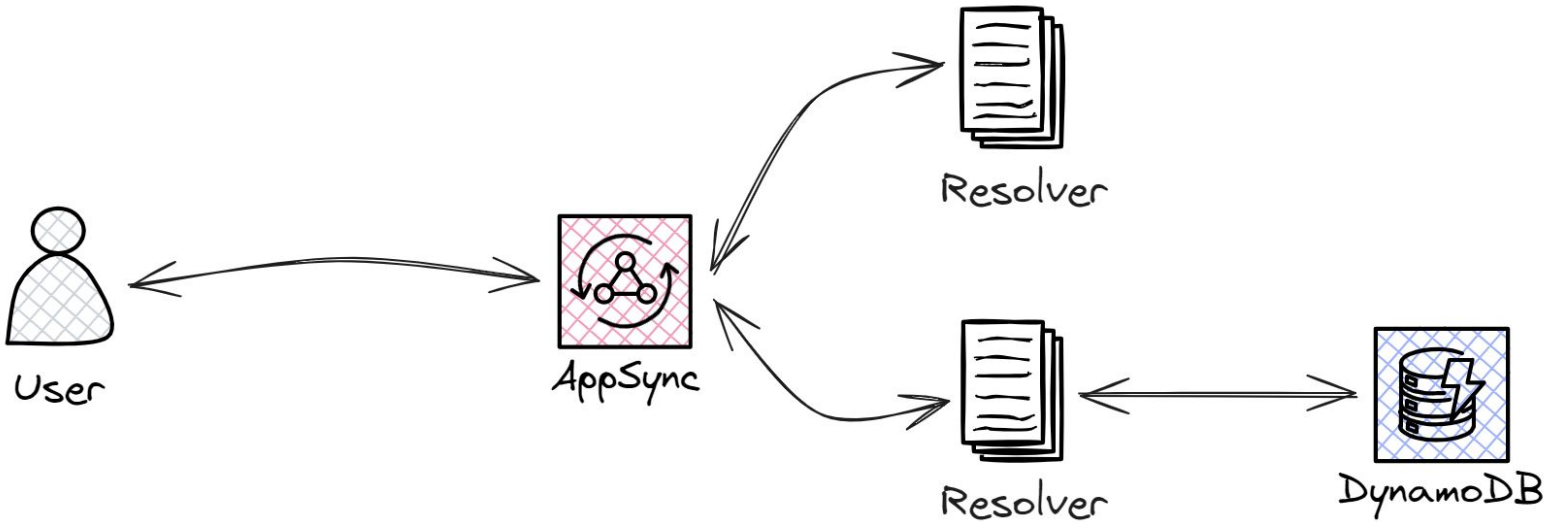
AppSync Subscriptions

Basic Architecture



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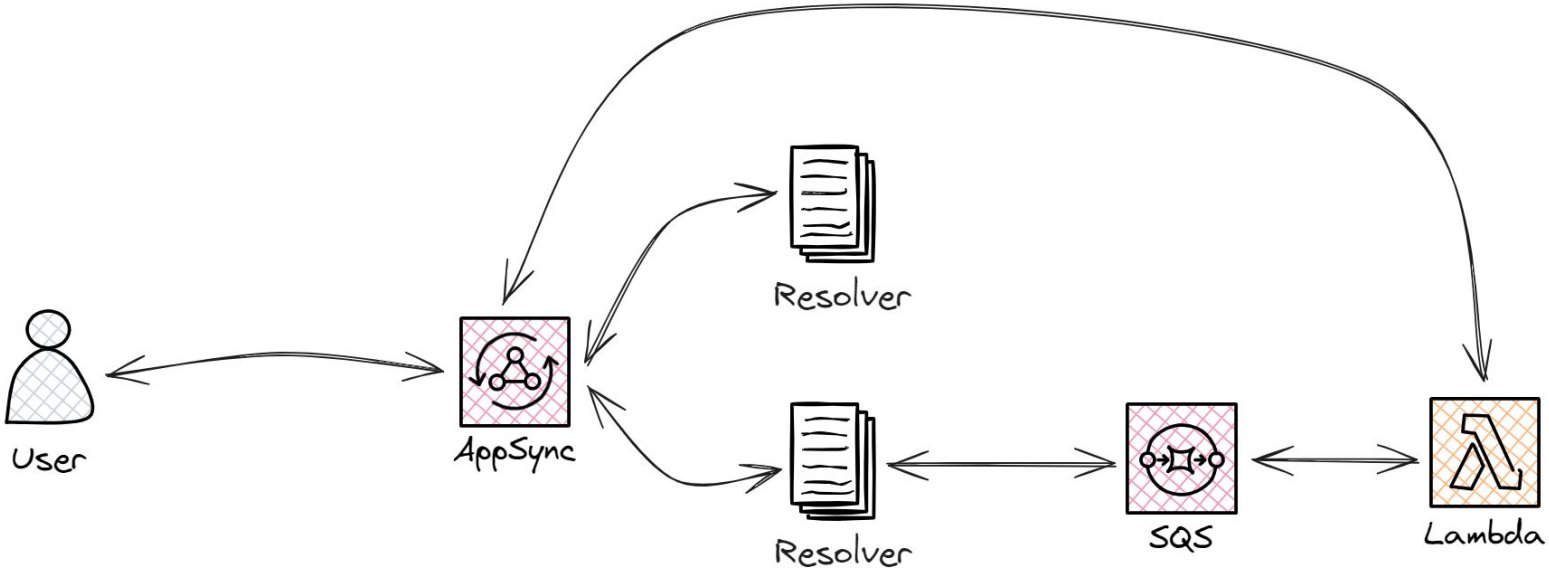
AppSync Subscriptions

Basic Architecture



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Questions & Answers

We are here to help!
Raise any questions or concerns you might have

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Thank you!

Join our discord Server!

Sign up for the challenge!

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