

Serverless Holiday Hackathon 2023





Our plans for today

About Serverless Guru



Langchain Deep Dive

Choosing your Serverless API



Q & A



About Serverless Guru

Your Guide to Serverless
Adopt. Migrate. Build.

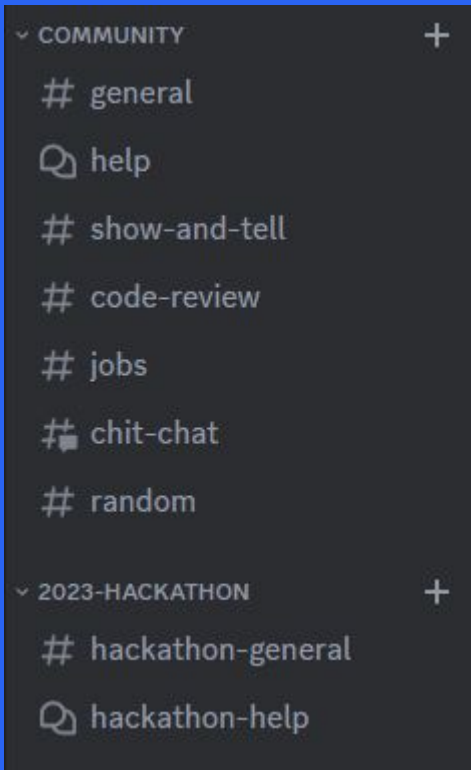


Our Company

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

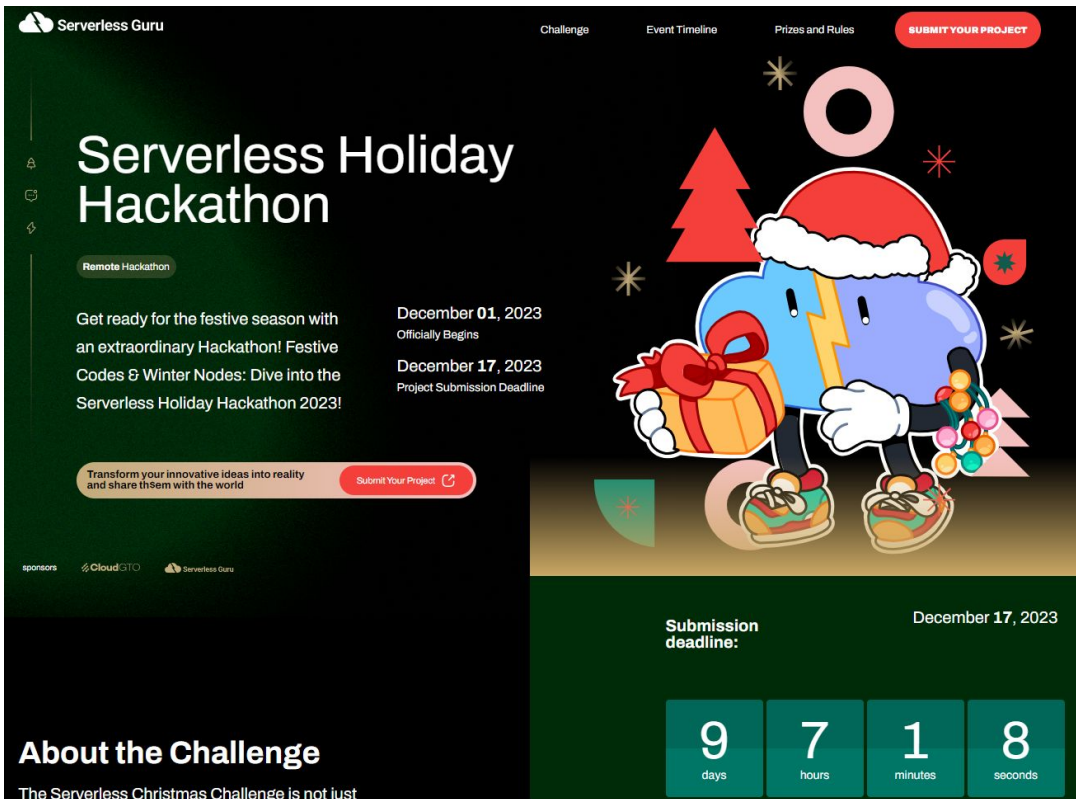
Helping companies and people realize their full potential gives us energy.

Speak to a Guru today!



Join our discord Server!

Submissions Form



The screenshot shows the 'Serverless Holiday Hackathon' submission page. The header includes the 'Serverless Guru' logo, navigation links for 'Challenge', 'Event Timeline', and 'Prizes and Rules', and a red 'SUBMIT YOUR PROJECT' button. The main content area features the event title, a 'Remote Hackathon' tag, and a description: 'Get ready for the festive season with an extraordinary Hackathon! Festive Codes & Winter Nodes: Dive into the Serverless Holiday Hackathon 2023!'. It lists key dates: 'December 01, 2023 Officially Begins' and 'December 17, 2023 Project Submission Deadline'. A central illustration depicts a blue cloud character wearing a Santa hat, holding a gift and a string of lights, with a red Christmas tree in the background. At the bottom, a submission deadline counter shows '9 days', '7 hours', '1 minutes', and '8 seconds' remaining, with the date 'December 17, 2023'. The footer includes the 'About the Challenge' section and a note: 'The Serverless Christmas Challenge is not just'.

Serverless Guru

Challenge Event Timeline Prizes and Rules [SUBMIT YOUR PROJECT](#)

Serverless Holiday Hackathon



Remote Hackathon

Get ready for the festive season with an extraordinary Hackathon! Festive Codes & Winter Nodes: Dive into the Serverless Holiday Hackathon 2023!

December 01, 2023
Officially Begins

December 17, 2023
Project Submission Deadline

Transform your innovative ideas into reality and share them with the world [Submit Your Project](#)

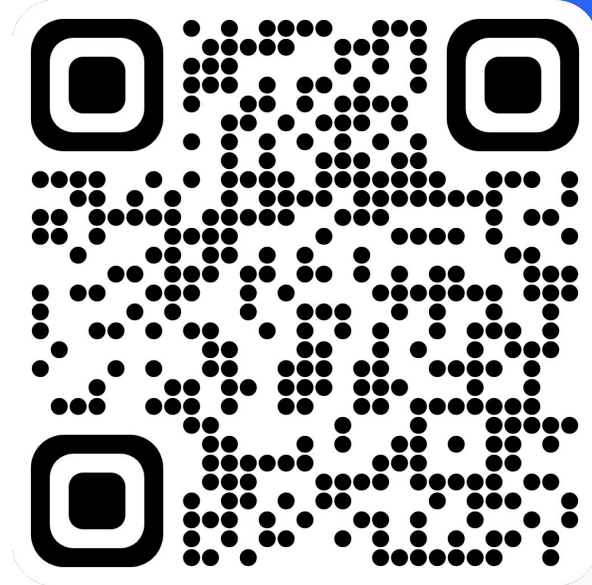
sponsors  

About the Challenge

The Serverless Christmas Challenge is not just

Submission deadline: December 17, 2023

9	7	1	8
days	hours	minutes	seconds





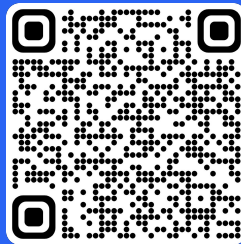
Langchain Deep Dive

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



Choosing your Serverless API

Options, Challenges and Recommendations



REST API

What is a Rest API?

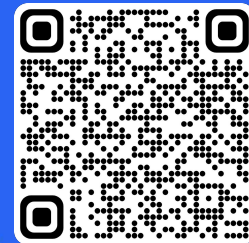
A REST API in API Gateway is a **collection of resources and methods** that are integrated with **backend HTTP endpoints**. API Gateway **REST APIs** use a **request/response** model where a client sends a request to a service and the service **responds back synchronously**.



REST API

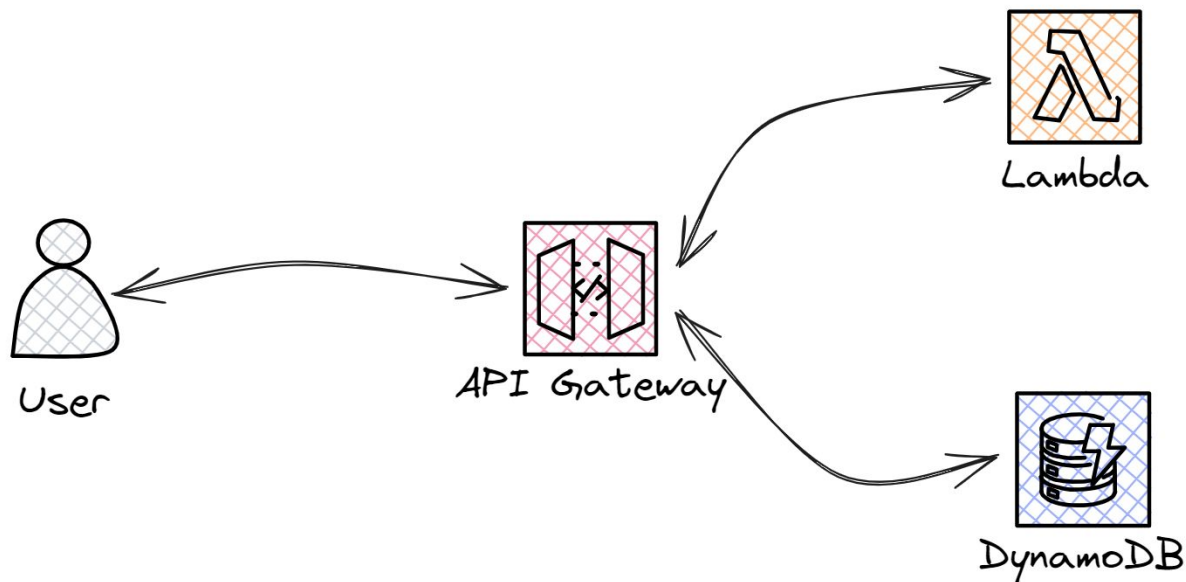
Limitations

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



REST API

Basic Architecture





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**.



WebSocket API

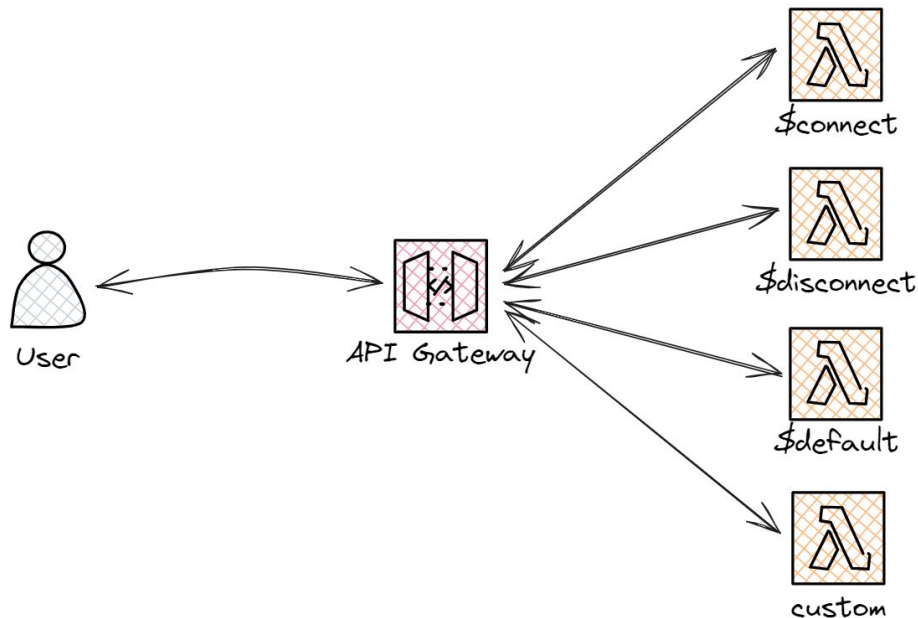
Limitations

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



WebSocket API

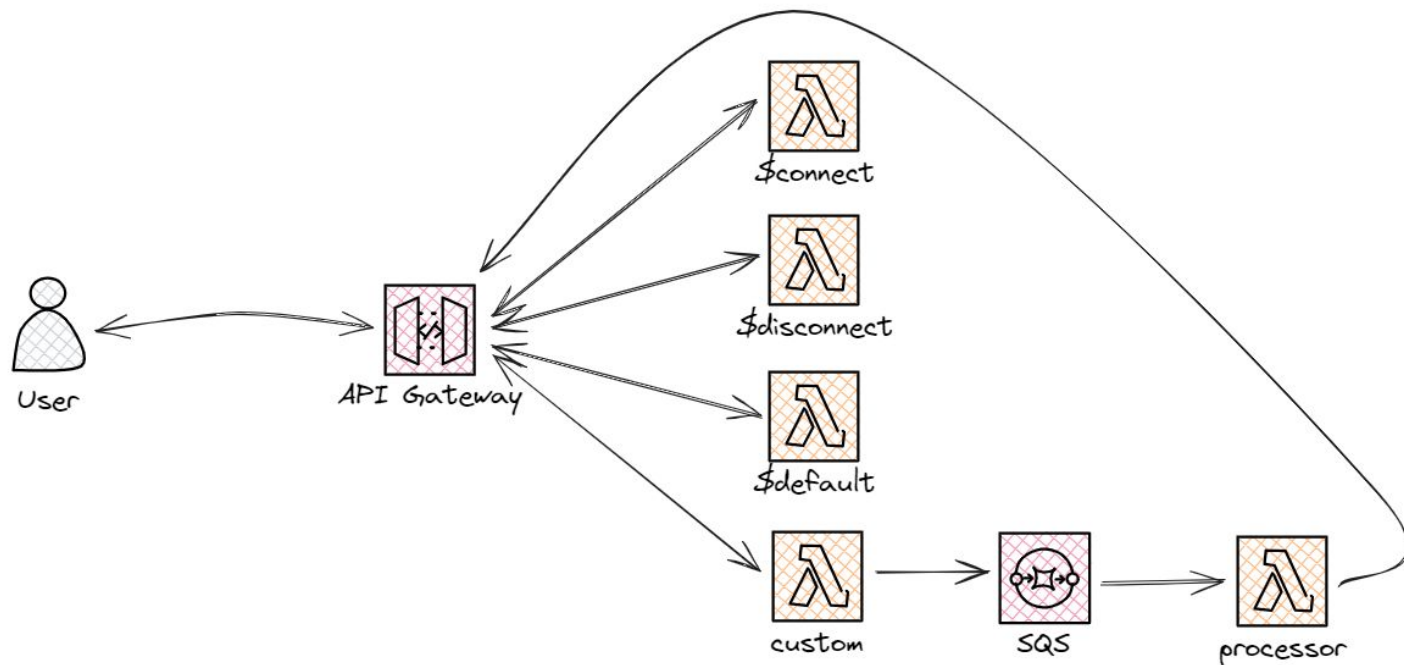
Basic Architecture

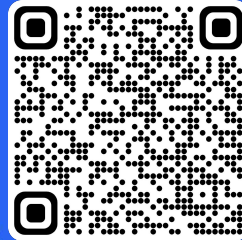




WebSocket API

Basic Architecture

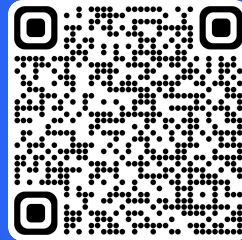




AppSync Subscriptions

What are Appsync Subscriptions?

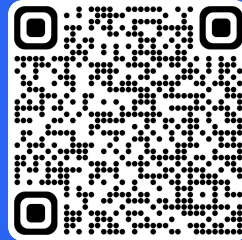
When clients invoke the **GraphQL subscription** operations, a secure **WebSocket connection** is automatically established and **maintained by AWS AppSync**. Applications can then **distribute data in real-time** from a data source **to subscribers**.



AppSync Subscriptions

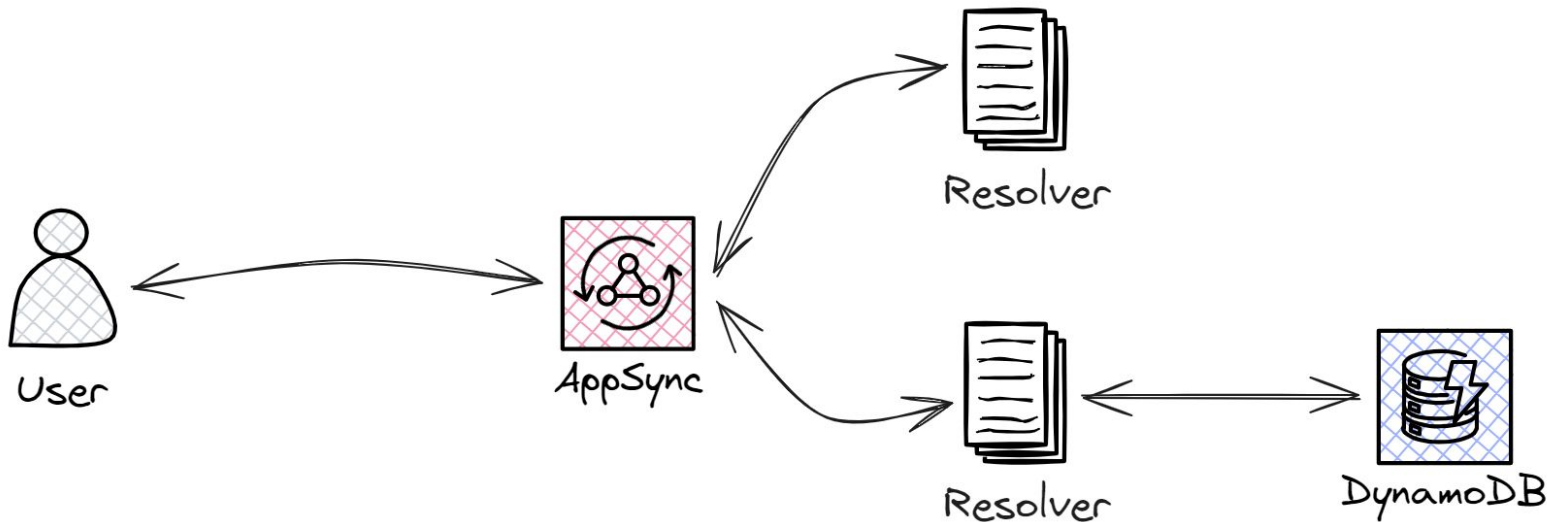
Limitations

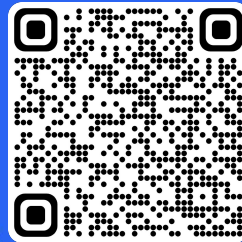
- Subscriptions are **only triggered** when the **associated mutation is executed**.
- **Maximum size** of a message that can be received through subscriptions is **240 kilobytes**.
- AWS AppSync limits the **execution time** for mutations, queries, and subscriptions to **30 seconds**.



AppSync Subscriptions

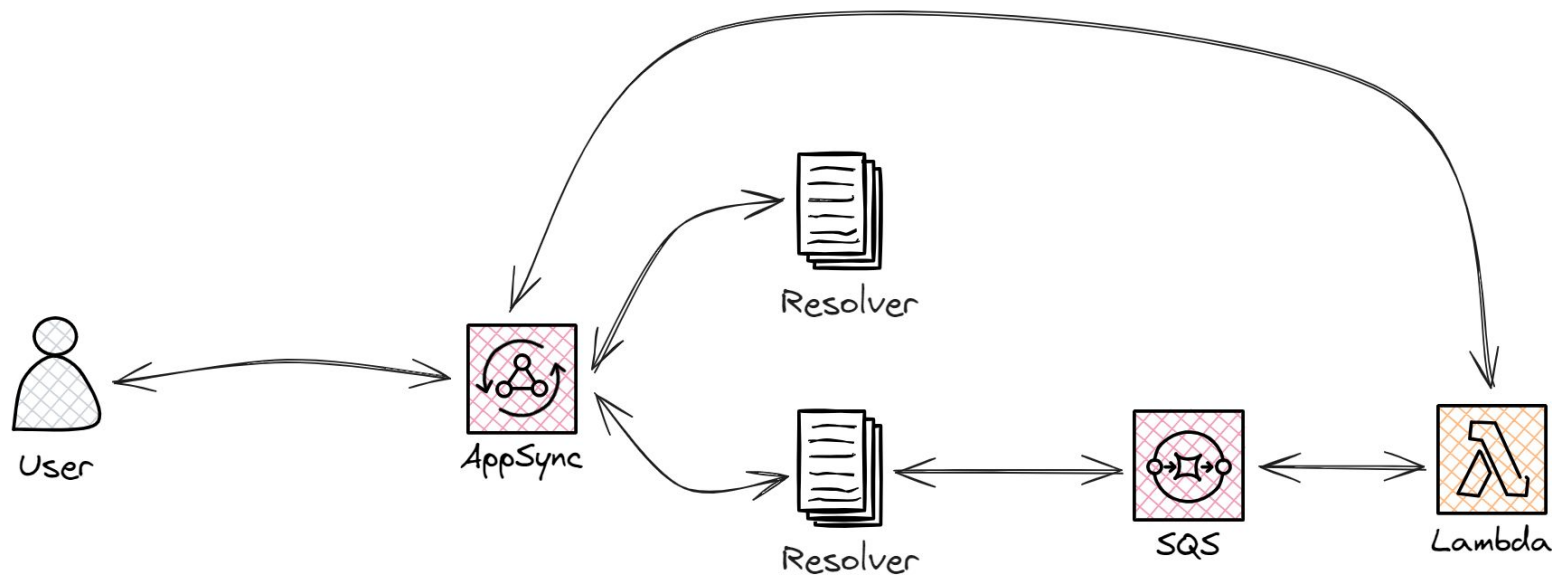
Basic Architecture





AppSync Subscriptions

Basic Architecture





Questions & Answers

We are here to help!

Raise any questions or concerns you might have

Thank you!



Join our discord Server!



Sign up for the challenge!