

how to use aws appsync to use graphql \ X

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## AI Overview



Using AWS AppSync with a Golang Lambda function involves defining your GraphQL schema, creating a Lambda function in Go to handle resolver logic, and then configuring AppSync to use that Lambda function as a data source.

## 1. Define your GraphQL Schema in AppSync:

- Create a GraphQL schema that defines your types, queries, mutations, and subscriptions. This schema will dictate the structure of your data and the operations clients can perform.
- Example:

Code



```
type Post {
  id: ID!
  title: String!
  content: String
}

type Query {
  getPost(id: ID!): Post
  listPosts: [Post]
}

type Mutation {
  createPost(title: String!, content: String): Post
}
```

## 2. Create your Golang Lambda Function:

- Develop a Go Lambda function that implements the logic for your GraphQL resolvers. This function will receive events from AppSync and return the corresponding data.



Go



```
package main

import (
    "context"
    "encoding/json"
    "fmt"

    "github.com/aws/aws-lambda-go/lambda"
)

type AppSyncEvent struct {
    Info struct {
        FieldName string `json:"fieldName"`
    } `json:"info"`
    Arguments map[string]interface{} `json:"arguments"`
}

type Post struct {
    ID      string `json:"id"`
    Title   string `json:"title"`
    Content string `json:"content"`
}

func HandleRequest(ctx context.Context, event AppSyncEvent) (interface{}, error) {
    fmt.Printf("Received event: %+v\n", event)

    switch event.Info.FieldName {
    case "getPost":
        id := event.Arguments["id"].(string)
        // Implement logic to fetch post by ID from a database or other source
        return Post{ID: id, Title: "Sample Post", Content: "This is a sample post"}, nil
    case "listPosts":
        // Implement logic to list all posts
        return []Post{{ID: "1", Title: "Post 1"}, {ID: "2", Title: "Post 2"}}, nil
    case "createPost":
        title := event.Arguments["title"].(string)
        content := event.Arguments["content"].(string)
        // Implement logic to create a new post
    }
```



```
}  
  
}  
  
func main() {  
    lambda.Start(HandleRequest)  
}
```

### 3. Configure AppSync Data Source and Resolvers:

- In the AppSync console, navigate to your API and go to "Data Sources."
- Create a new data source of type "AWS Lambda function" and select your Go Lambda function.
- In the "Schema" section of your AppSync API, attach resolvers to your GraphQL fields (e.g., `getPost`, `createPost`).
- For each resolver, select the Lambda data source you created.
- Configure the mapping templates for your resolvers (optional, but useful for transforming data between AppSync and Lambda). For direct Lambda resolvers, you can choose to disable VTL mapping templates.

### 4. Deploy and Test:

- Deploy your Lambda function.
- Test your GraphQL API using the AppSync console's "Queries" section or a GraphQL client.

By following these steps, you can successfully integrate your Golang Lambda functions with AWS AppSync to power your GraphQL API.

Dive deeper in AI Mode

AI responses may include mistakes. [Learn more](#)



Videos :



16:13

Jan 24, 2024

I have a bunch of videos already on how to set up an ABS Sync API so we're really going to focus on how do you have a **Lambda function** call it now.

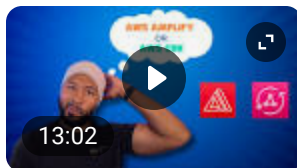


### Getting started with GraphQL with AWS Appsync using ...

YouTube · Soumil Shah ·

Sep 24, 2022

Learn to build **GraphQL** APIs with **AWS AppSync** and custom **Lambda functions** for any backend, including MongoDB or on-prem APIs.



### My Top 3 Ways To Use GraphQL On AWS | Beginner to ...

YouTube · Focus Otter ·

Nov 18, 2023

In this video I'm going to be showing you my top three ways that I build and scale out my **appsync** apis so that way you can **take** advantage of these methods.

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Amazon AWS Documentation

<https://docs.aws.amazon.com> › appsync › latest › devguide

## Using AWS Lambda resolvers in AWS AppSync

After you create the Lambda function, **navigate to your GraphQL API in the AWS AppSync console**, and then choose the Data Sources tab. Choose Create data source, ...



Amazon Web Services

<https://aws.amazon.com> › blogs › mobile › appsync-dir...

## Introducing Direct Lambda Resolvers: AWS AppSync ...

Aug 5, 2020 — Direct **Lambda** Resolvers make it easier to work with **Lambda** and **GraphQL** on **AWS**, giving you more flexibility when developing **GraphQL** Resolvers on AppSync with ...

[Pipeline Resolvers](#)[Direct Lambda Resolvers In...](#)[Ruby 2.7](#)

Medium · Ben Giddins

220+ likes · 6 years ago

## GraphQL and Go with AppSync and Lambda

<https://aws.amazon.com/blogs/other/building-a-g...>

## Building a GraphQL API with AWS AppSync Using Direct ...

Sep 19, 2025 — This post demonstrates **how to build a serverless GraphQL API using AWS AppSync** and Direct Lambda Resolvers with .NET Lambda functions. This ...

[Building A Graphql Api With...](#)[Understanding . Net Direct...](#)[Graphql Api Testing](#)

## Discussions and forums

### Calling AppSync Mutation from Lambda with Golang

Stack Overflow · 3 answers · 7 years ago

I found a way of using plain http.Request and AWS v4 signing. (Thanks to @thomasmichaelwallace ... [More >](#)

Top answer · 3 votes · 7 years ago

The problem is that that API/library is designed to help you create/update app-sync instances. ... [More >](#)

7 years ago

### Calling AppSync GraphQL mutations through a Lambda function seems ...

Reddit · r/Amplify · 6 comments · 2 years ago

### AppSync GraphQL + Lambda - Question

Reddit · r/aws · 3 comments · 2 years ago

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1 comment · 2 years ago

### Calling AppSync GraphQL mutations through a Lambda ...

I'm trying to make a **Lambda function** that calls a series of **GraphQL** mutations when a user in my app creates a new "Game" for their players to ...

Go Ent  
<https://entgo.io/blog/2022/01/04/serverless-graph...>

### Serverless GraphQL using with AWS and ent

Jan 4, 2022 — In the next sections, we set up **GraphQL in AWS AppSync** and the AWS Lambda function running Ent. Subsequently, we propose a Go implementation ...

[Setting Up Aws Appsync...](#)[Setting Up Ent And Deploying...](#)[Configuring Aws Appsync...](#)



The choice is yours as to **how to setup lambda within your AppSync API**. It is entirely reasonable to have a lambda function per resolver and have a function be ...

**4 answers** · Top answer: The choice is yours as to how to setup lambda within your AppSync API. It is e...



DEV Community

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## How to build Serverless GraphQL API using AWS AppSync

Sep 25, 2022 — We will build a **GraphQL API using AWS AppSync** to perform CRUD operations. For example, we will make an API that will allow us to create, read, update and ...

[Initialising The Project](#)

[Lambda Functions](#)

[Graphql Schema](#)

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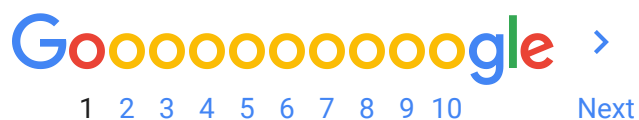
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