

B - 1

AWS Amplify実践編

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このセッションの想定視聴者

- すでにAWS Amplifyを触ったことがある人
- AWS Amplifyを本番環境でつかってみたいと思っている方

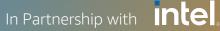
このセッションでお伝えしたいこと

- AWS Amplifyをチーム開発で使うためのノウハウ
- AWS Amplify を使用して高速に開発するためのTips
 - API (GraphQL)カテゴリ
 - Functions カテゴリ
 - Amplify Mocking
- AWS Amplify 拡張シナリオ





AWS Amplifyをチーム開発で使う ノウハウ



プロダクトの成長とチーム開発







様々なステークホルダの加入







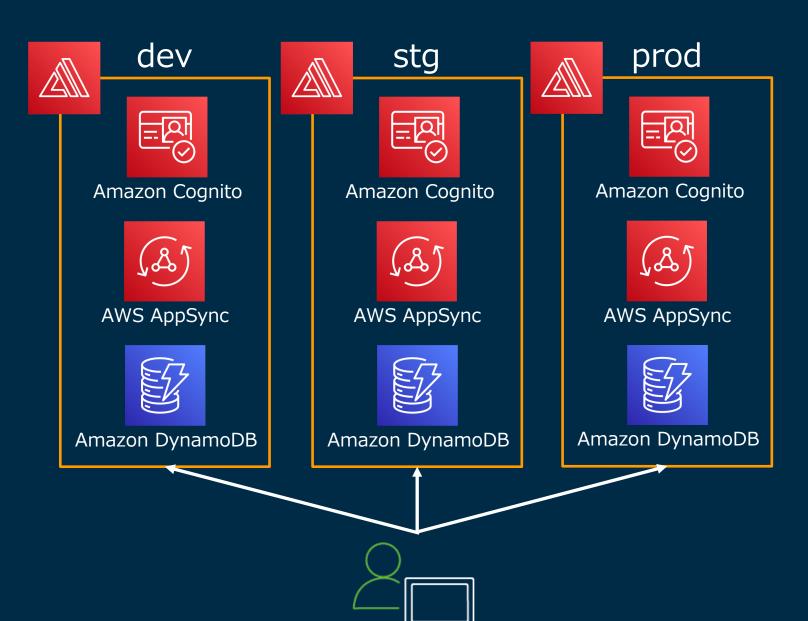
開発環境の統制



Amplify の multi env 機能で環境を分割する



(prod/stg/dev)



開発者

\$ amplify env add env を追加 (複数のアカウントにまたがることも可能)

\$ amplify env checkout env を切り替え

\$ amplify env import 他の開発者が作成した env を参照

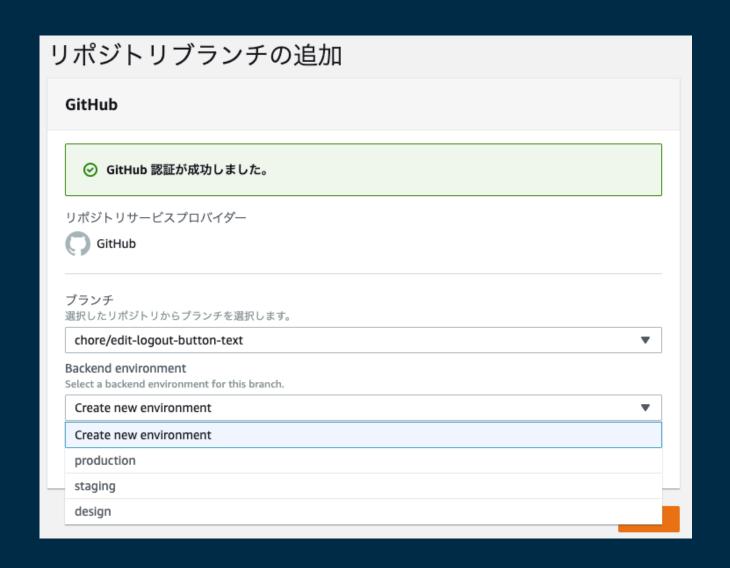
https://aws-amplify.github.io/docs/cli-toolchain/quickstart#environments-and-teams





envとブランチの紐付け





env と Amplify Consoleで接続するブランチは1:Nの関係

Amplify Console でブランチを紐づける際、どの env と対応づけるかを選択可能(env の新規作成も可)

https://aws-amplify.github.io/docs/cli-toolchain/quickstart#environments-and-teams





ブランチベースの新しいenvのデプロイ



Branch autodetection Automatically connect branches to the Amplify Console that match a pattern set. Enabled	
Branch autodetection - patterns The default pattern is "*", "*/**".	
design/**	
Enter comma separated values for multiple patterns.	
Branch autodetection - backend environment	
 Create new backend environment for every connected branch 	
Point all branches to existing environment	
design	▼
Branch autodetection - access control Restrict access to autodetected branches with a username and password. Enabled	
username	password
amplify	•••••
	Password must be at least 7 characters

特定のパターンに一致するブランチの作成時、自動的に Amplify コンソールでデプロイ

「design/**」のようなパターンを定義して、 「design/」で始まる Git ブランチを自動的にデプロイ

接続するバックエンドの env は 新規作成 or 既存 env から選択

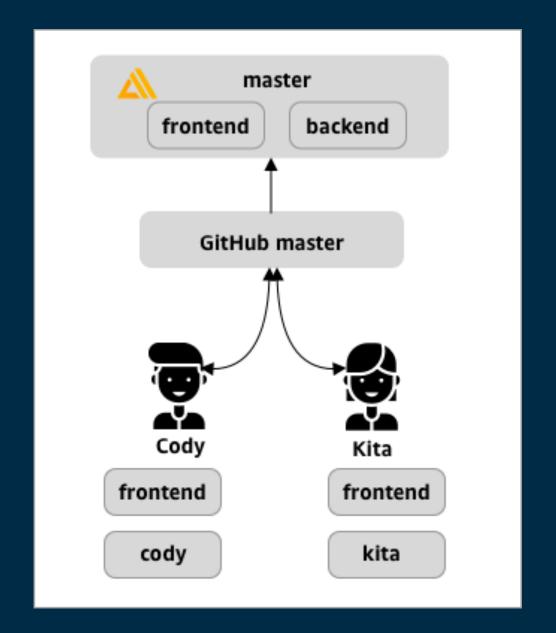
自動作成されたアプリにベーシック認証

aws

https://docs.aws.amazon.com/ja_jp/amplify/latest/userquide/multi-environments.html#pattern-based-branch-feature-branch-deployments

開発者固有のenvで開発環境の競合を防ぐ





Amplify では開発者ごとに env を分けることを推奨

開発者は他のチームメンバーの変更により競合する ことなく、互いに独立して作業することが可能

フロントエンドとバックエンドの両方に変更が入るような開発が並列に進めやすくなる

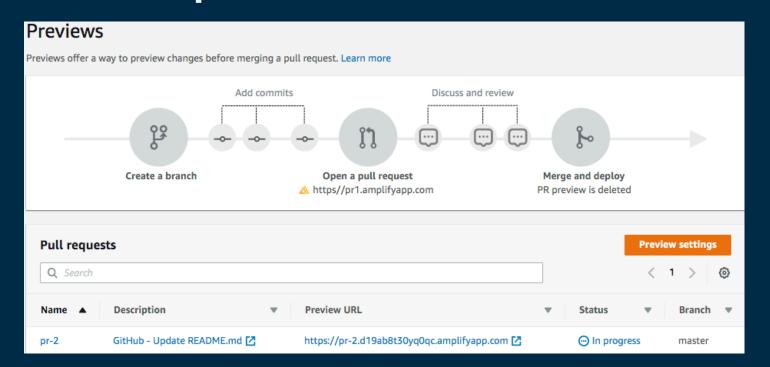
https://docs.aws.amazon.com/ja_jp/amplify/latest/userguide/multi-environments.html#sandbox

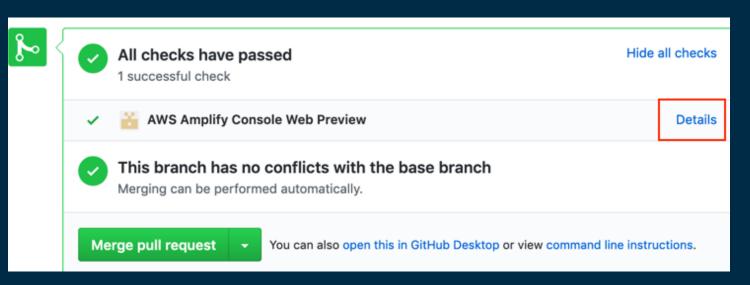




Pull Request Previews でレビューを高速化







Pull Request Previews を設定すると、 Pull Request が作成されるたびに一時的 なウェブサイトをホスト

ホストした URL を Git Hub の Pull Request ページに載せる

Pull Request レビューが非常に楽になり、 非エンジニア職でもレビューに参加する ことが可能

Pull Request が閉じたら一時的なウェブ サイトのホストも消える

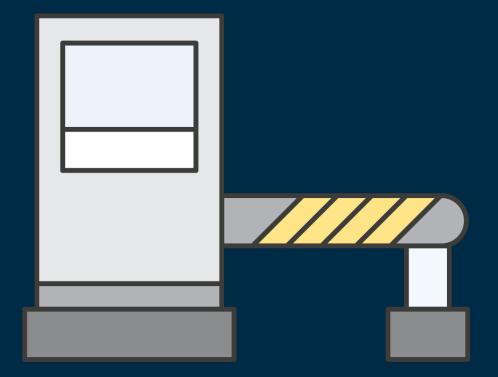
https://docs.aws.amazon.com/amplify/latest/userquide/pr-previews.html





Developer Experienceを損なわない環境統制

Gatekeeper



V.S.





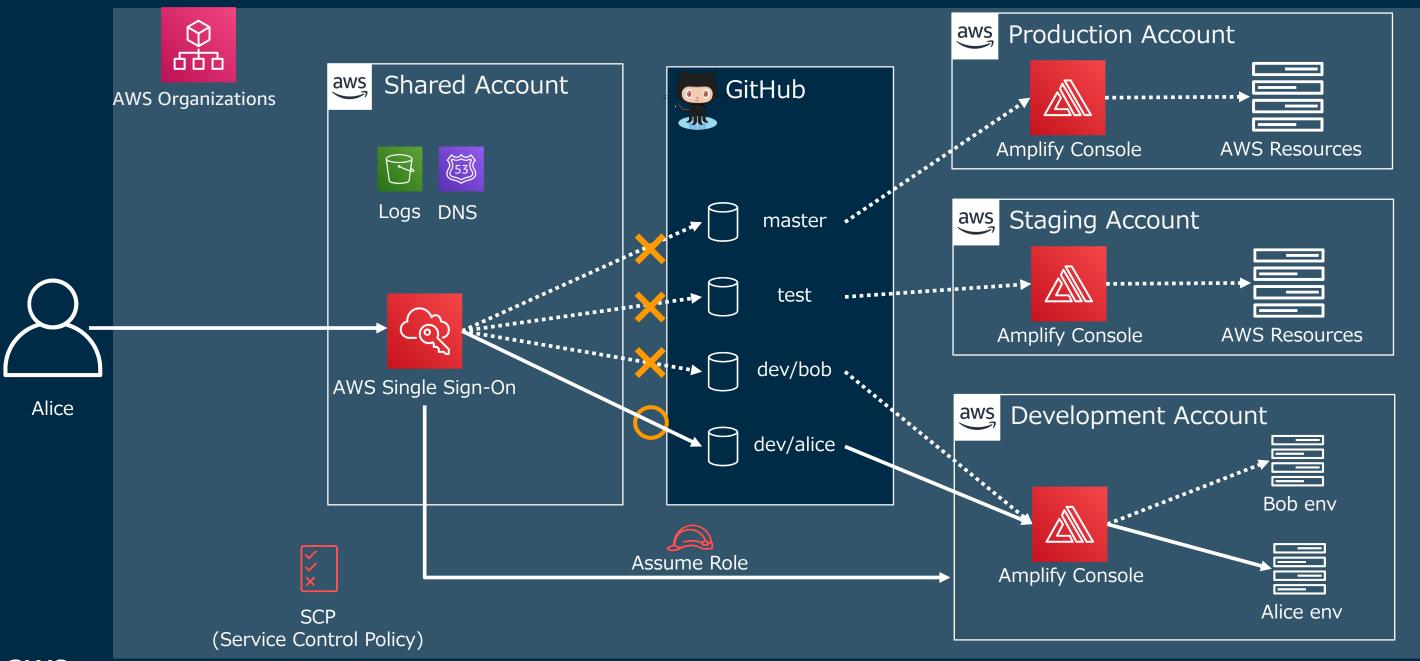






アカウント分割

ノト分割 開発環境の統制





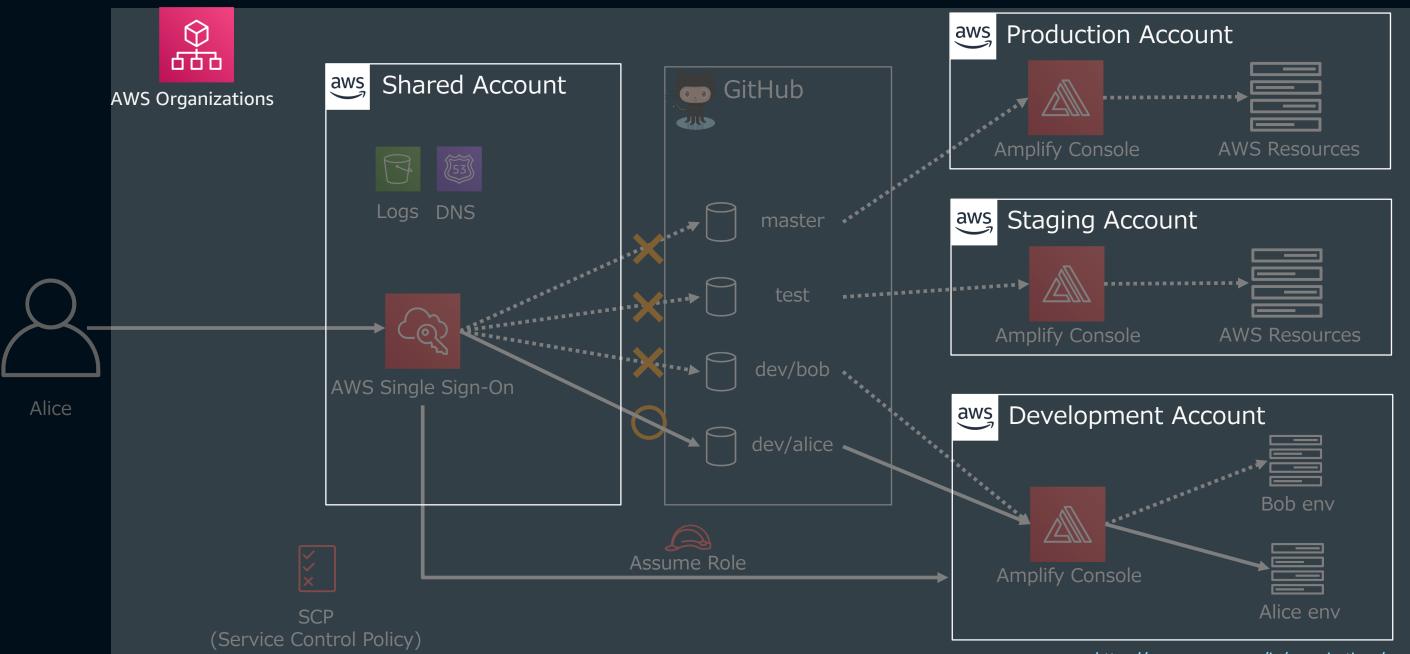






アカウント分割

開発環境の統制





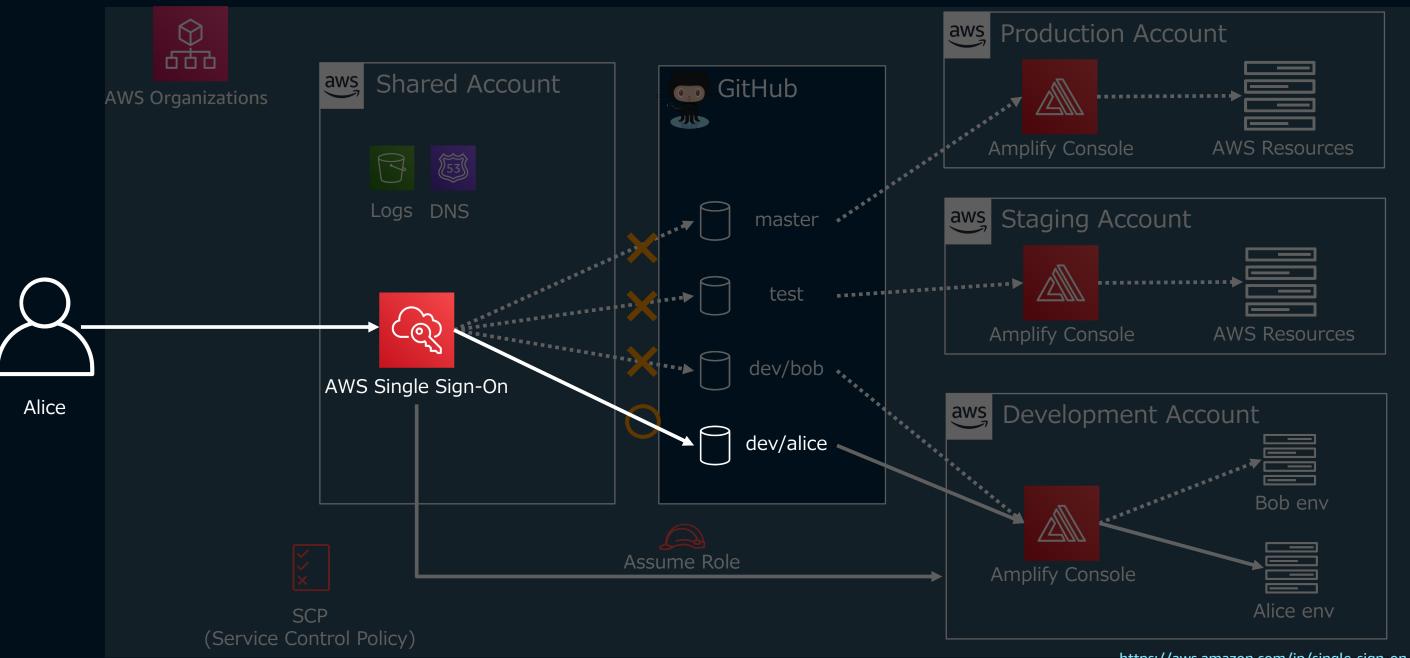
https://aws.amazon.com/jp/organizations/





アカウント分割

・分割 開発環境の統制





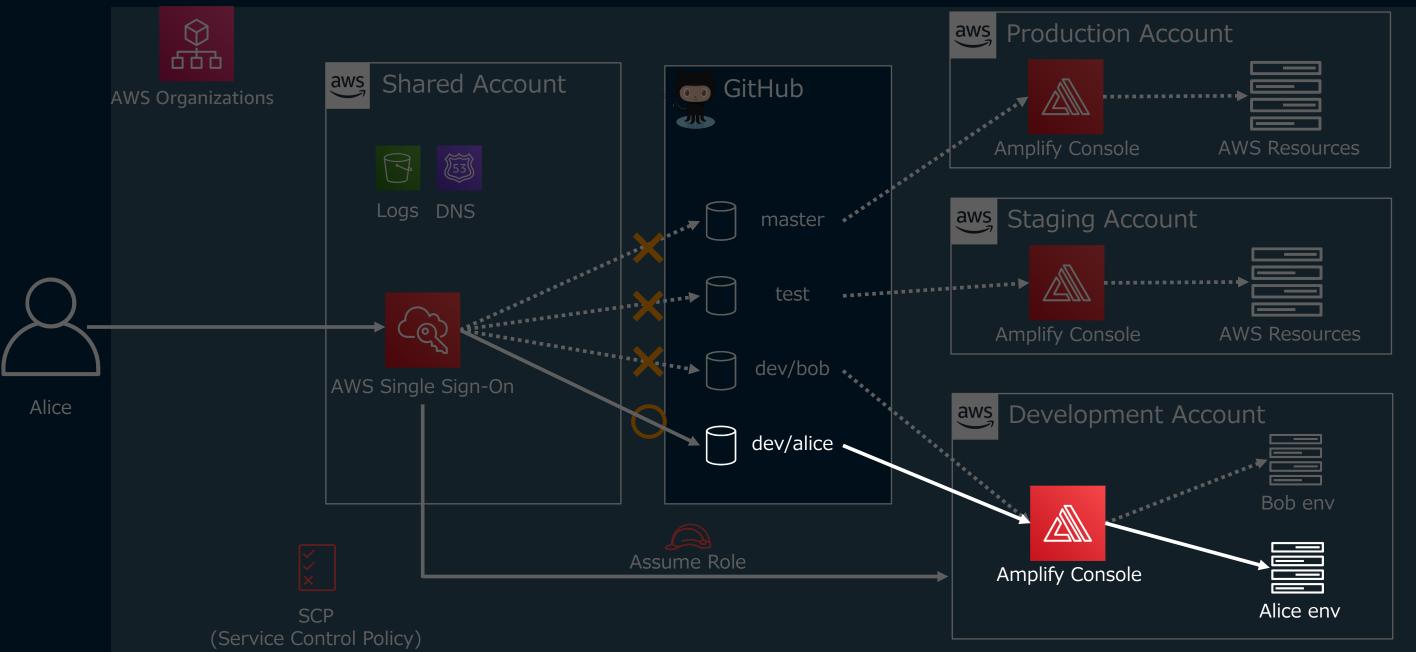
https://aws.amazon.com/jp/single-sign-on/





アカウント分割

ト分割 開発環境の統制





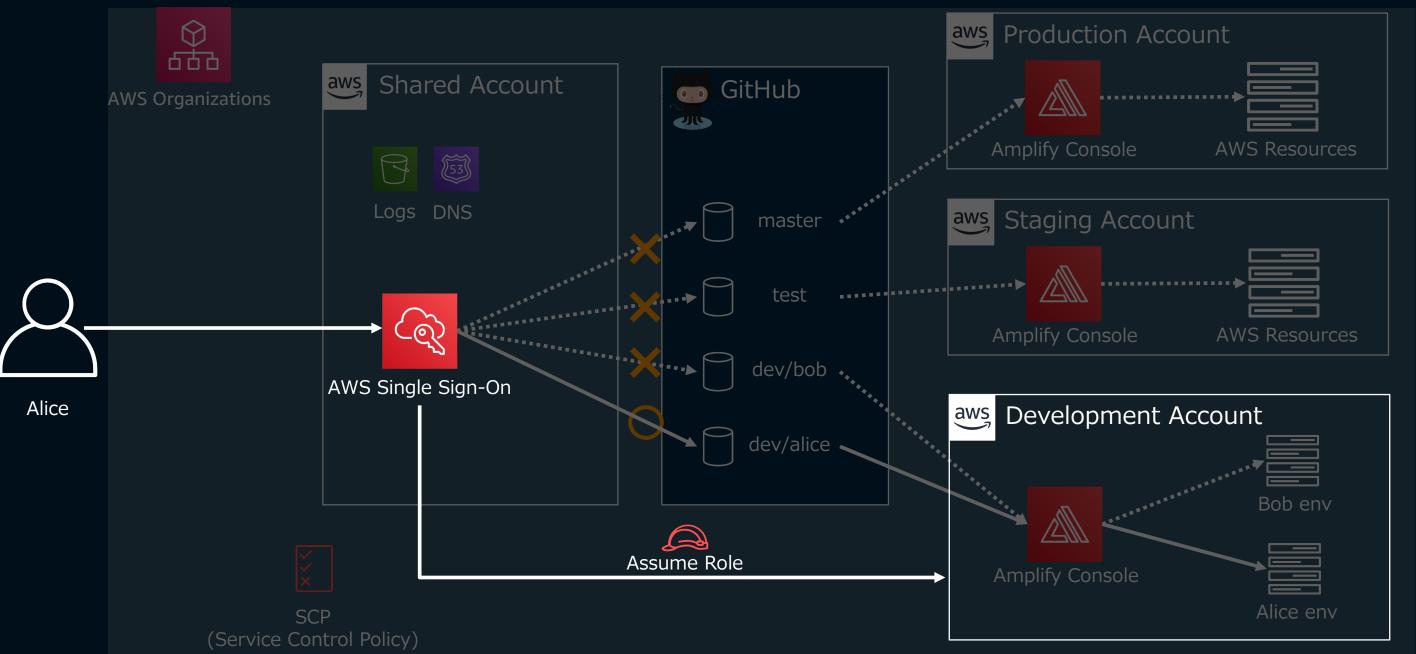
https://aws.amazon.com/jp/amplify/console/





アカウント分割

開発環境の統制



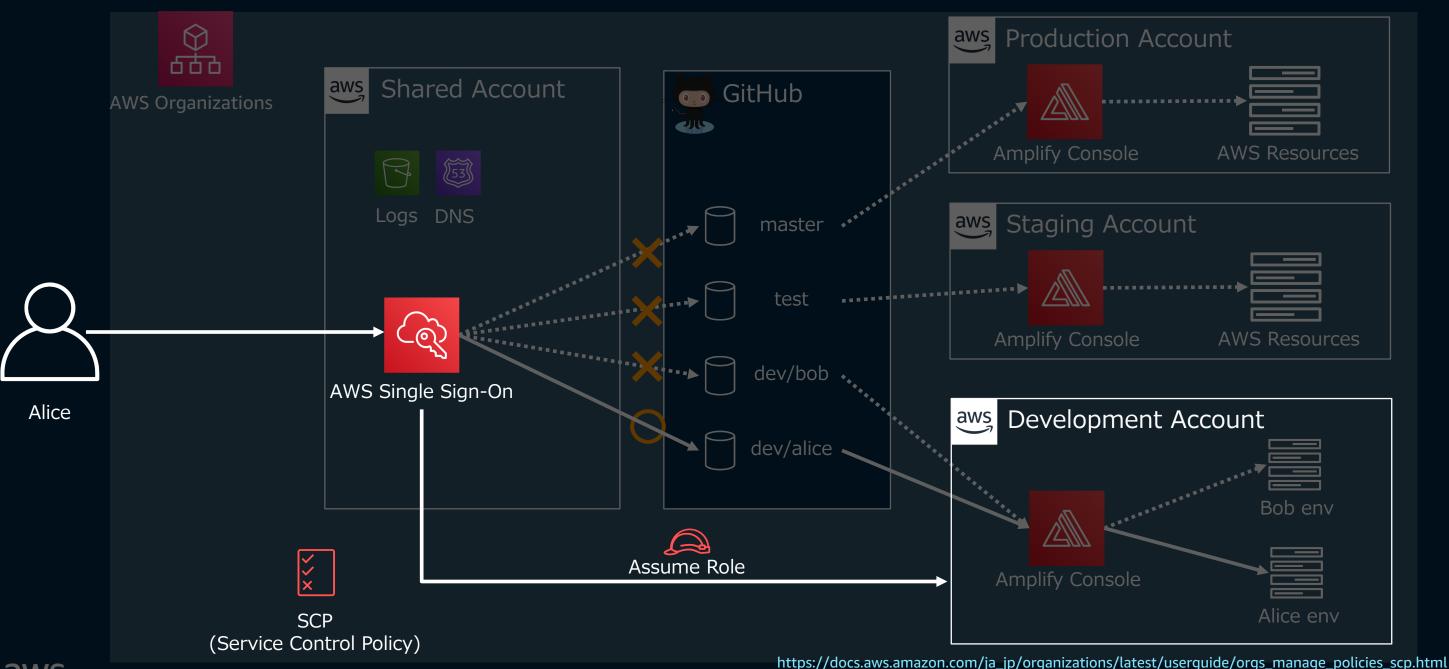


https://docs.aws.amazon.com/ja_ip/IAM/latest/UserGuide/id_roles_use.html





アカウント分割





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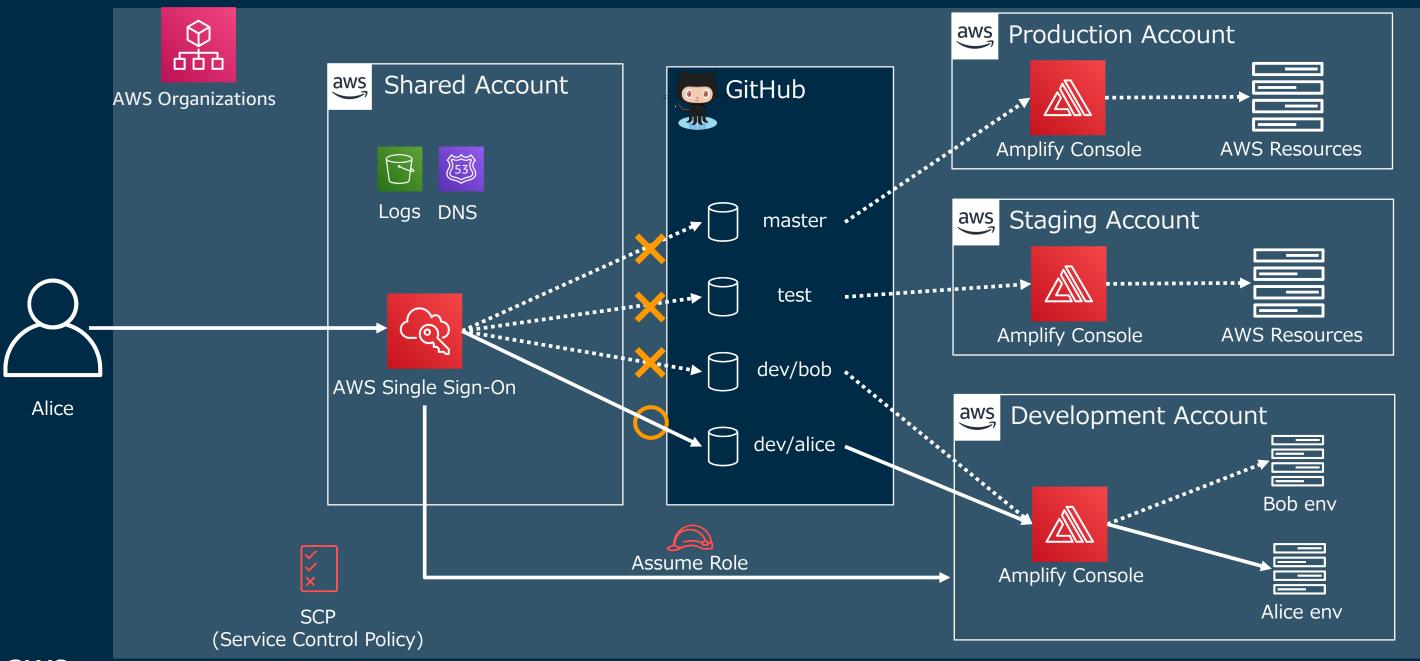
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アカウント分割

ノト分割 開発環境の統制

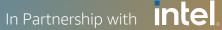




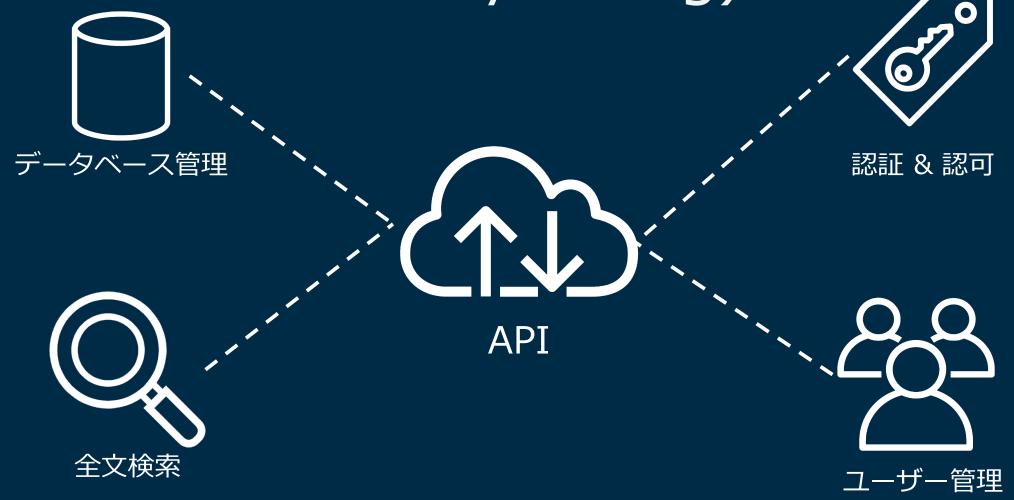




Amplifyで開発を高速化しよう! - API(GraphQL) -



API開発と付加価値を生まない重労働 (Undifferentiated Heavy Lifting)



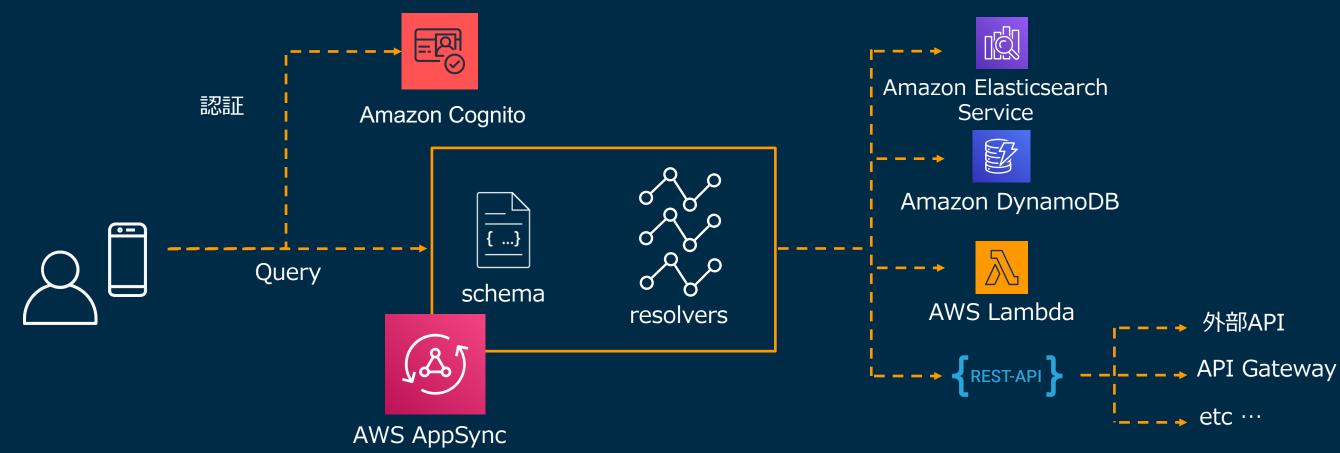
付加価値を生まない重労働を Amplify に任せて 価値提供にフォーカスしたい





API (GraphQL)

- API カテゴリ (GraphQL) は AWS AppSync と統合された API を構築
- GraphQL サーバーでは通常、schema と resolver (VTLファイル) を編集
- API (GraphQL) カテゴリを使うことでシンプルに設定が可能





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便利な Directive を活用する

```
type Post
  @model
{
  id: ID!
  name: String!
  description: String!
  owner: String!
  comments: [Comment]
  updatedAt: AWSDateTime!
  createdAt: AWSDateTime!
}
```

@model のように、schema.grahql ファイルにディレクティブを付与する ことで様々な機能を GraphQL APIに 付与することが可能

本セクションでは以下5つを深掘り

- @model
- @auth
- @key
- @searchable
- @function





Directive #1 @model

```
type Post
 @model
                                                   1. Postテーブルの作成
  id: ID!
 name: String!
 description: String!
                            2. CRUD用のschema, resolverの作成
 owner: String!
 comments: [Comment]
 updatedAt: AWSDateTime!
                                                                         Amazon Elasticsearch
  createdAt: AWSDateTime!
                                                                               Service
                                                                          Amazon DynamoDB
                       Query
                                        schema
                                                                            AWS Lambda
                                                     resolvers
                                                                https://docs.amplify.aws/cli/graphql-transformer/directives#model
                               AWS AppSync
```



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おまけ: @modelが生成するschema.graphql

```
type Mutation {
  createPost(input: CreatePostInput!, condition: ModelPostConditionInput): Post
 updatePost(input: UpdatePostInput!, condition: ModelPostConditionInput): Post
 deletePost(input: DeletePostInput!, condition: ModelPostConditionInput): Post
input ModelPostFilterInput {
  id: ModelIDInput
  name: ModelStringInput
 description: ModelStringInput
 owner: ModelStringInput
 updatedAt: ModelStringInput
 createdAt: ModelStringInput
  and: [ModelPostFilterInput]
  or: [ModelPostFilterInput]
 not: ModelPostFilterInput
```



おまけ: @modelが生成するresolvers

```
$ tree amplify/backend/api/devday2020/build/resolvers/
amplify/backend/api/devday2020/build/resolvers/
 Mutation.createPost.reg.vtl
  Mutation.createPost.res.vtl
  — Mutation.deletePost.reg.vtl
                              ## [Start] Set default values. **
  Mutation.deletePost.res.vtl
                              $util.qr($context.args.input.put("id", $util.defaultIfNull($ctx.args.input.id, $util.autoId())))

    Mutation.updatePost.reg.vtl

                              #set( $createdAt = $util.time.nowIS08601() )
 Mutation.updatePost.res.vtl
                              ## Automatically set the createdAt timestamp. **
   Query.getPost.reg.vtl
   Ouerv.getPost.res.vtl
                              $util.gr($context.args.input.put("createdAt", $util.defaultIfNull($ctx.args.input.createdAt, $createdAt)))
   Query.listPosts.req.vtl
                               ## Automatically set the updatedAt timestamp. **
   Query.listPosts.res.vtl
                               $util.gr($context.args.input.put("updatedAt", $util.defaultIfNull($ctx.args.input.updatedAt, $createdAt))
                               ## [End] Set default values. **
                               ## [Start] Prepare DynamoDB PutItem Request. **
                               $util.gr($context.args.input.put("__typename", "Post"))
                               #set( $condition = {
                                 "expression": "attribute_not_exists(#id)",
                                 "expressionNames": {
                                     "#id": "id"
```



https://docs.amplify.aws/cli/graphql-transformer/directives#model

Directive #2 @key

```
1. PK/SKの指定・GSIの作成
type Post
 @model
 @key(fields: ["organizationId", "id", "updatedAt"])
 @key(
                                                          2. Query/Resolverの作成
   name: "listByOwner",
   fields:["owner", "updatedAt"],
   queryField: "listPostsByOwner"
  id: ID!
  organizationId: String!
 name: String!
  description: String!
  owner: String!
                                                                                                  Amazon Elasticsearch
 comments: [Comment]
                                                                                                         Service
  updatedAt: AWSDateTime!
  createdAt: AWSDateTime!
                                                                                                    Amazon DynamoDB
                                     Query
                                                         schema
                                                                                                       AWS Lambda
                                                                         resolvers
                                                                                                                                 API Gateway
                                                                                       https://docs.amplify.aws/cli/graphql-transformer/directives#key
                                               AWS AppSync
                                                   © 2020, Amazon Web Services, Inc. or its affiliates. All rights reserved.
                                                                                                                       In Partnership with Intel
```

Directive #2 @key

schema.graphql

```
type Post
  @model
  @key (fields:[organizationId, createdAt])
  @key (name: "listByOwner",
        fields:[owner, createdAt]
        queryField: "listPostsByOwner")
  id: ID!
  name: String!
  organizationId: Staring!
  description: String!
  owner: String!
  comments: [Comment]
  updatedAt: AWSDateTime
  createdAt: AWSDateTime
```

queryFieldを指定しない@keyではlistPostsなど @model で追加したCRUDに使える引数を指定す ることが可能

- Partition Key: organizationId
- Sort Key: createdAt

queryFieldを指定した@keyは、listPostsとは別のフィールドを用いたQueryを追加することが可能

- Partition Key: owner
- Sort Key: createdAt
- インデックスの名前: listByOwner
- queryの名前: listPostsByOwner



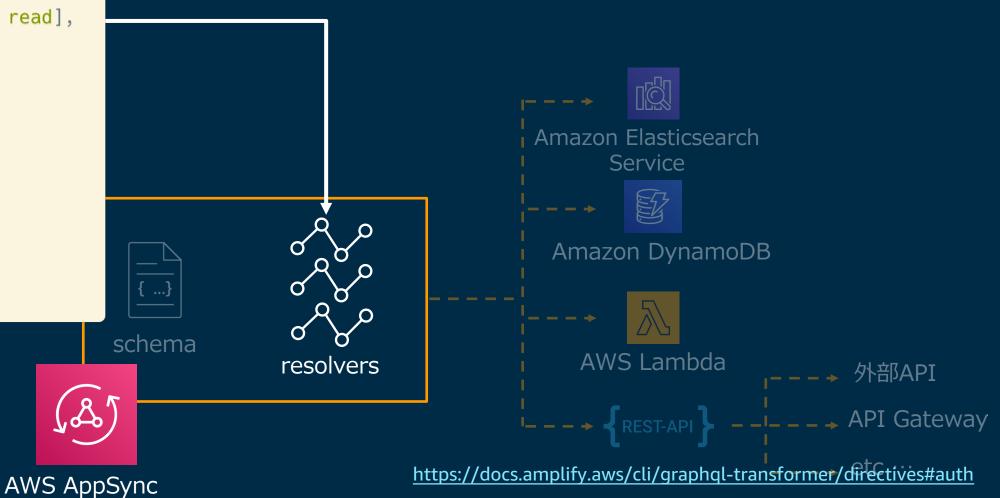
https://docs.amplify.aws/cli/graphql-transformer/directives#key



Directive #3 @auth

```
type Post
 @model
  @auth(rules: [
      allow: owner,
      provider: userPools
      ownerField: "owner",
      operations: [create, update, delete, read],
  id: ID!
  name: String!
  description: String!
  owner: String!
  comments: [Comment] @auth(rules:[{}])
  updatedAt: AWSDateTime!
  createdAt: AWSDateTime!
```

認可ロジックを Resolver に追加





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Directive #3 @auth

schema.graphql

```
type Post
  @model
 @auth(rules: [
      allow: owner,
      provider: userPools
      ownerField: "owner",
      operations: [create, update, delete, read],
  id: ID!
  name: String!
  description: String!
  owner: String!
  comments: [Comment] @auth(rules:[{}]
  updatedAt: AWSDateTime!
  createdAt: AWSDateTime!
```

Amazon Cognito User PoolやサードパーティのOIDCプロバイダによって認証されたユーザーに対し、ユーザーの認証メタデータを使用してGraphQL APIのアクションに対する認可ルールを設定

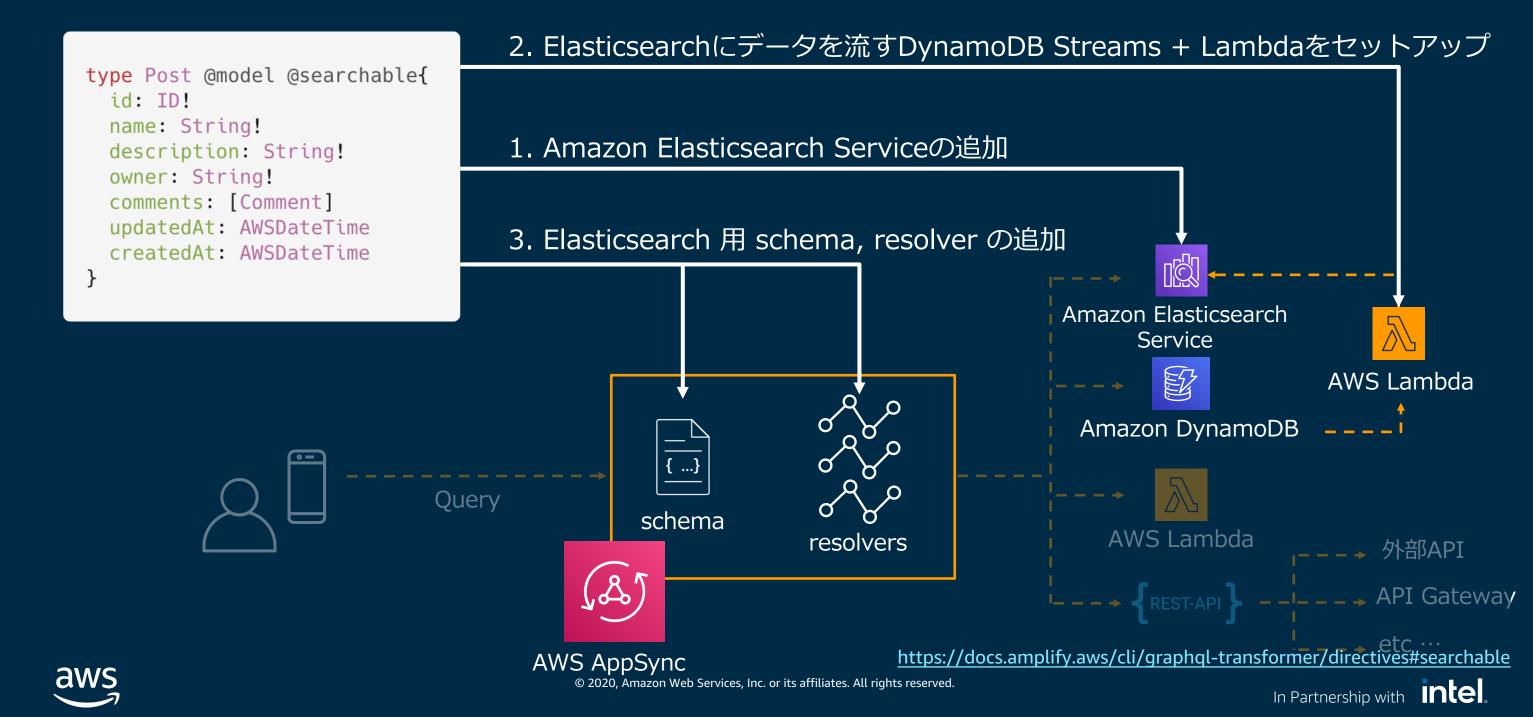
- allow: owner groups private public
- provider: apiKey iam oidc userPools
- operations: create update delete read
- Field Level Authorization



https://docs.amplify.aws/cli/graphql-transformer/directives#auth



Directive #4 @searchable



Directive #4 @searchable

GraphQL Query

```
query SearchPosts {
 searchPost(filter: {
   title: { wildcard: "S*" }
   or: [
      { createdAt: { eq: "08/20/2018" } },
      { updatedAt: { eq: "08/20/2018" } }
    items {
      id
      title
```

@searchableをつけるとElasticsearchの構文を利用した全文検索が可能に

Search<type名> という名前のQueryで呼び出し可能

裏ではAmazon Elasticsearch Serviceと DynamoDB Streamsをセットアップ

@searchableをつけた後のデータしか検索できないので注意



https://docs.amplify.aws/cli/graphql-transformer/directives#searchable

Directive #5 @function

schema.graphql

```
Lambda 関数を呼び出すための schema、resolver の追加
                                                        (Lambda関数自体はFunctionsカテゴリで作成)
type Mutation {
 addComment(comment: String): Comment
   @function(name: "authorizer-${env}")
   @function(name: "addComment-${env}")
                                                                                Service
                            Query
                                           schema
                                                                              AWS Lambda
                                                        resolvers
                                                               https://docs.amplify.aws/cli/graphql-transformer/directives#function
                                    AWS AppSync
```

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Directive #5 @function

schema.graphql

```
type Mutation {
   addComment(comment: String): Comment
     @function(name: "authorizer-${env}")
     @function(name: "addComment-${env}")
}
```

|\$ amplify add function で作成したLambda関 | 数を呼び出し

末尾に env 名をつけることに注意

複数の@functionをチェインして、処理をパイプすることが可能 (authorizer を実行してからaddCommentを実行するなど)



https://docs.amplify.aws/cli/graphql-transformer/directives#function

Directive #5 @function

function/authorizer/arc/index.js (Lambda)

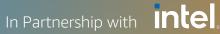
```
exports.handler = async (event) => {
  const owner = event.identify.claims
    [COGNITO_USERNAME_CLAIM_KEY];
  const comment = event.arguments.comment;
  ...
};
```

Lambda関数には event 引数で呼び出し元の 認証情報や、GraphQLのオペレーションを呼 ぶ際に渡した引数が格納されている





Amplifyで開発を高速化しよう! - function -



デプロイ時にTypeScriptのbuildを自動で走らせる

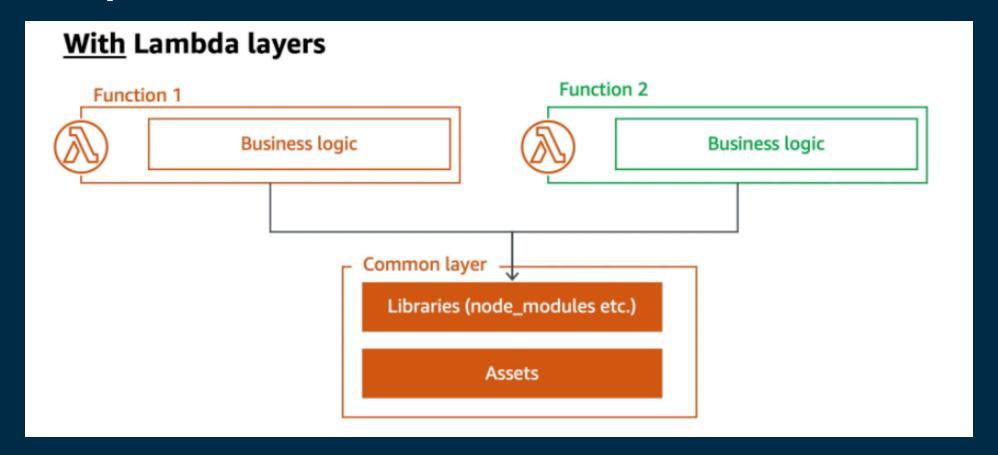


1. \$ npm run amplify: < function-name >

```
{
    "scripts": {
        "amplify:<function-name>": "cd amplify/backend/function/<function-name> && tsc -p ./tsconfig.json
        && cd -"
        },
}
```



Lambda Layers でライブラリや共通処理をまとめる



- 現時点で Node.js と Python に対応
- 1つのLambda関数に5つまでのLambda Layersを追加可能
- Amplify CLI で Lambda Layers を作成することも、Amplify CLI 外で作成した Lambda Layers を import して使うことも可能





Lambda Layers でライブラリや共通処理をまとめる

- \$ amplify add function
- ? Select which capability you want to add: Lambda function (serverless function)
- > Lambda layer (shared code & resource used across functions)
- \$ amplify add function
- ? Select which capability you want to add: Lambda function (serverless function)
- ? Provide a friendly name for your resource to be used as a label for this category in the project: devday202004b7eed0
- ? Provide the AWS Lambda function name: devday202004b7eed0
- ? Choose the runtime that you want to use: NodeJS
- ? Choose the function template that you want to use: Hello World
- ? Do you want to access other resources in this project from your Lambda function? No
- ? Do you want to invoke this function on a recurring schedule? No
- ? Do you want to configure Lambda layers for this function? Yes
- ? Provide existing layers or select layers in this project to access from this function (pick up to 5):
- OProvide existing Lambda layer ARNs
- devday202074728e4a



定期的に実行するLambda関数の作成

```
$ amplify add function
? Select which capability you want to add: Lambda function (serverless function)
? Provide a friendly name for your resource to be used as a label for this category in the project: devday2020f8dcc061
? Provide the AWS Lambda function name: devday2020f8dcc061
? Choose the runtime that you want to use: NodeJS
? Choose the function template that you want to use: Hello World
? Do you want to access other resources in this project from your Lambda function? No
 Do you want to invoke this function on a recurring schedule? Yes
 At which interval should the function be invoked: (Use arrow keys)
 Minutes
 Hourly
 Daily
 Weekly
 Monthly
 Yearly
  Custom AWS cron expression
```

https://aws.amazon.com/blogs/mobile/how-to-schedule-recurring-lambda-functions-using-the-amplify-cli/





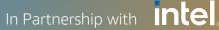
Lambda Trigger の作成

- \$ amplify add function
- ? Select which capability you want to add: Lambda function (serverless function)
- ? Provide a friendly name for your resource to be used as a label for this category in the project: devday2020c5b0555c
- ? Provide the AWS Lambda function name: devday2020c5b0555c
- ? Choose the runtime that you want to use: NodeJS
- ? Choose the function template that you want to use: Lambda trigger
- ? What event source do you want to associate with Lambda trigger? Amazon Kinesis Stream
- ? Choose a Kinesis event source option (Use arrow keys)
- > Use Analytics category kinesis stream in the current Amplify project Provide the ARN of Kinesis stream directly
- \$ amplify add function
- ? Select which capability you want to add: Lambda function (serverless function)
- ? Provide a friendly name for your resource to be used as a label for this category in the project: devday2020a1f57cce
- ? Provide the AWS Lambda function name: devday2020a1f57cce
- ? Choose the runtime that you want to use: NodeJS
- ? Choose the function template that you want to use: Lambda trigger
- ? What event source do you want to associate with Lambda trigger? Amazon DynamoDB Stream
- ? Choose a DynamoDB event source option (Use arrow keys)
- Use API category graphql @model backed DynamoDB table(s) in the current Amplify project Use storage category DynamoDB table configured in the current Amplify project Provide the ARN of DynamoDB stream directly





Amplify で開発を高速化しよう! - Amplify Mocking -



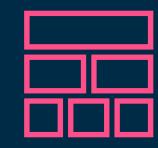
APIの開発を効率化するには?

schema.graphql

```
type Post
  @model
{
  id: ID!
  name: String!
  description: String!
  owner: String!
  comments: [Comment]
  updatedAt: AWSDateTime!
  createdAt: AWSDateTime!
}
```

\$ amplify push

- 1. クラウドリソースの参照と差分確認
- 2. 設定ファイルの書き出し
- 3. クラウドリソースへ変更を反映



AWS CloudFormation Stacks

時間をかけずに変更結果の確認がしたい!



Amplify CLI – Mock commands

- \$ amplify mock
- \$ amplify mock api
- \$ amplify mock storage
- \$ amplify mock function <function-name>





API Mocking (1)

\$ amplify mock api すると…

①GraphQL transformationを実行

- schema.graphqlから以下を作成
 - AppSyncに関する設定ファイル (schema, resolvers, CFn templateなど)
 - フロントエンドからGraphQLを呼び出す際に使うJavaScriptのコード

②Amazon DynamoDB Localの立ち上げ

- データはamplify/mock-data/fake-****.db のSQLiteに保存
- データはvscode-sqliteなどのプラグインで確認・編集可能





API Mocking (2)

\$ amplify mock api すると…

③Amplify GraphiQL Explorer の立ち上げ

- OneGraph graphiql-explorer を ベースに開発
- http://localhost:20002で立ち上る
- Query, Mutation, Subscriptionを簡単に実行可能なインタフェース
- Update AuthでAPI(GraphQL)の認 証方法(Amazon Cognito User Pool/OIDC/API KEY/IAM)を切り替 え可能

```
GraphiQL
                                                                                                       Explorer
                                                                                                                                     ✓ Docs
query MyQuery
                                        query MyQuery {
▼ getMyType
                                          getMyType(id: "") {
 ⊿id*:
                                                                                               "__typename": "Mutation",
 ☐ content
                                                                                               "createMyType": {
                                                                                                 "id": "4e7a19dd-1865-40d5-b4f2-85840d1a85c3"
 price
 rating
                                        mutation MyMutation {
 ☐ title
                                          __typename
                                          createMyType(input: {title: "Mocking", content
listMyTypes
mutation MyMutation
▼ createMyType
 ▶ condition
 ▼input*:
  ☑ content*: "amplify mocking!"
   price:
   rating

☑ title*: "Mocking"

  content
 price
 rating
 ☐ title
deleteMyType
updateMyType
       + ADD NEW QUERY
      + ADD NEW MUTATION
    + ADD NEW SUBSCRIPTION
```

https://aws.amazon.com/jp/blogs/aws/new-local-mocking-and-testing-with-the-amplify-cli/





API Mocking (3)

- \$ amplify mock api すると…
- ④GraphQL Endpointの立ち上げ
- ⑤aws-exportsをMock用に更新
 - Amplify Frameworkでは、Amplify CLIから吐き出 されるaws-exportsでクライアントの初期設定を行う
 - \$ amplify mock api してる間だけ、mockが終わる とクラウドのリソースを指す

src/index.jsx

```
import awsmobile from 'aws-exports';
import Amplify from 'aws-amplify';
Amplify.configure(awsmobile);
```

src/aws-exports.js

```
const awsmobile = {
    "aws_project_region": "us-east-1",
    "aws_appsync_graphqlEndpoint":
        "https://example.appsync-api.us-west-2.amazonaws.com/graphql",
    "aws_appsync_region": "us-east-1",
    "aws appsync authenticationType": "API KEY",
    "aws appsync apiKey": "da2-XXXXXXXXXX",
};
```



src/aws-exports.js

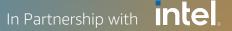
```
const awsmobile = {
    "aws_project_region": "us-east-1",
    "aws_appsync_graphqlEndpoint": "http://192.168.1.23:20002/graphql",
    "aws_appsync_region": "us-east-1",
    "aws appsync authenticationType": "API KEY",
    "aws appsync apiKey": "da2-fakeApiId123456",
    "aws_appsync_dangerously_connect_to_http_endpoint_for_testing": true
```



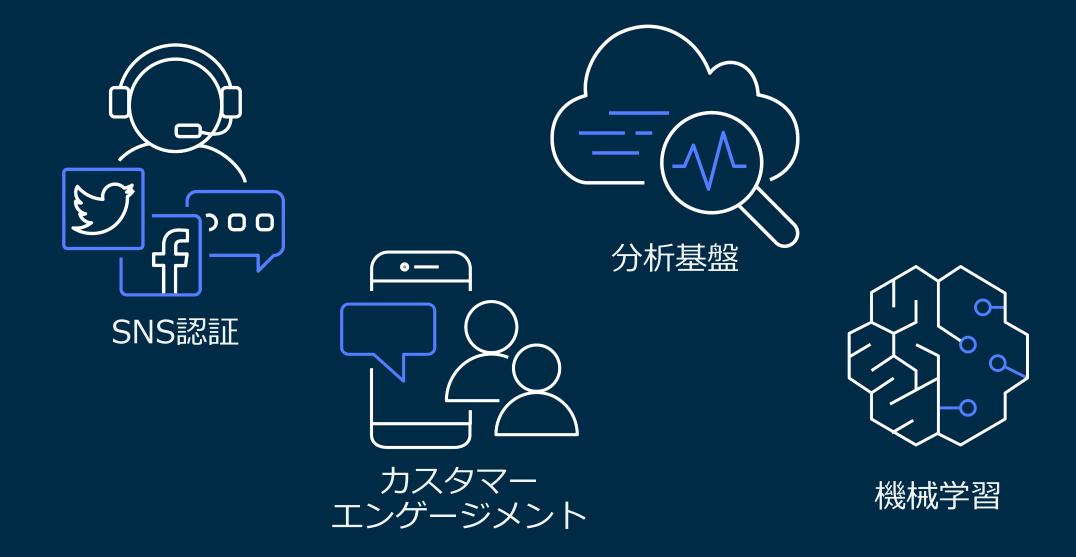




Amplify 拡張シナリオ



プロダクトの成長と機能開発





OAuthでSNS認証を組み込みたい(1)

\$ amplify add auth
Using service: Cognito, provided by: awscloudformation
The current configured provider is Amazon Cognito.

Do you want to use the default authentication and security configuration? Default configuration with Social Provider (Federation)
Warning: you will not be able to edit these selections.
How do you want users to be able to sign in? Username

Do you want to configure advanced settings? No, I am done.

What domain name prefix do you want to use? devday2020testc03d9135-c03d9135

Enter your redirect signin URI: https://example.com/signin/

Do you want to add another redirect signin URI No

Enter your redirect signout URI: https://example.com/signout/

Do you want to add another redirect signout URI No

Select the social providers you want to configure for your user pool: Facebook

You've opted to allow users to authenticate via Facebook. If you haven't already, you'll need to go to https://developers.facebook.co m and create an App ID.

Enter your Facebook App ID for your OAuth flow: test_facebook_ID
Enter your Facebook App Secret for your OAuth flow: test_facebook_secret



OAuthでSNS認証を組み込みたい(2)



https://aws-amplify.github.io/docs/js/authentication#oauth-and-hosted-ui

カスタマーエンゲージメントを組み込みたい

\$ amplify add analytics



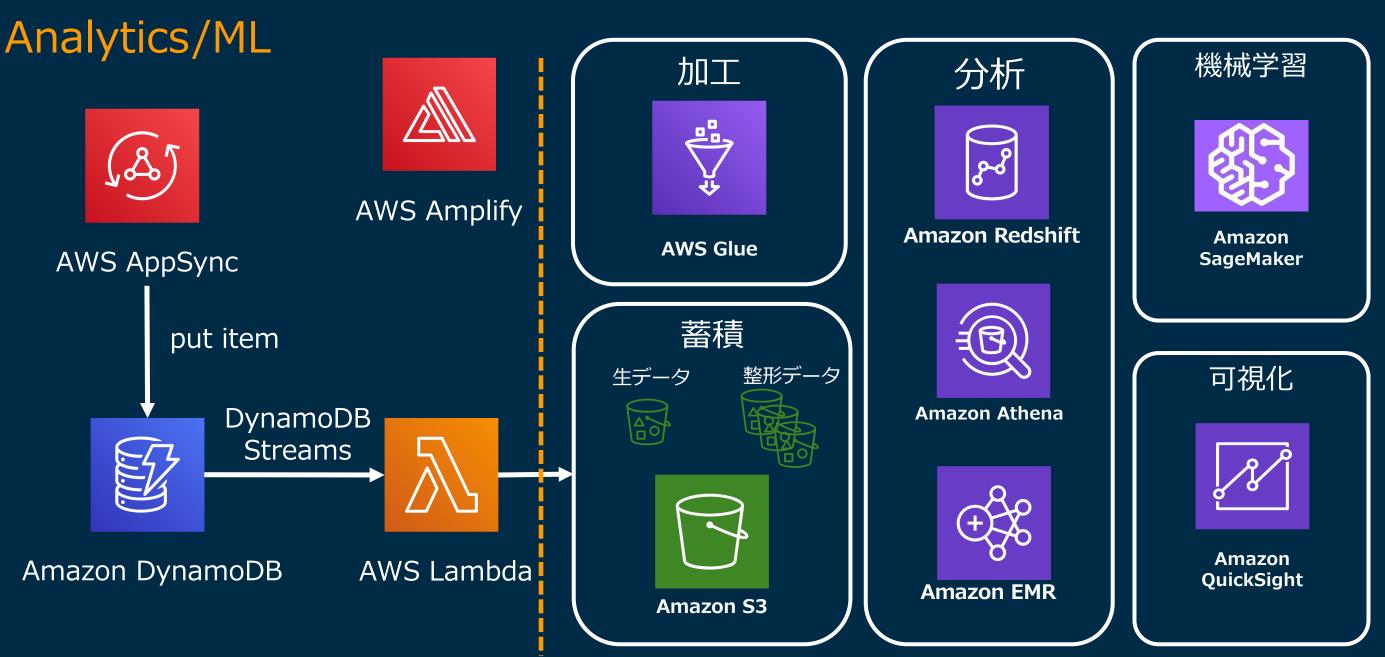
ターゲティング(セグメンテーション)通知

https://speakerdeck.com/jaguar_imo/startup-fm-amazon-pinpoint





アプリから得られたデータを分析したい



aws

https://aws.amazon.com/jp/big-data/datalakes-and-analytics/what-is-a-data-lake/

Custom CloudFormation Stacks

amplify/backend/backend-config.json

```
"auth": {
 "startupday202037dad6d6": {
    "service": "Cognito",
    "providerPlugin": "awscloudformation",
    "depends0n": []
'<custom-category-name>": {
 "<custom-resource-name>": {
    "service": <custom-aws-service-name>,
    "providerPlugin": "awscloudformation".
    "depends0n": [{
          "category": "auth",
          "resourceName": "startupday202037dad6d6"
          "attributes": [
              "UserPoolId"
```

Directory Structure

backend-config.json にリソースの情報を書く

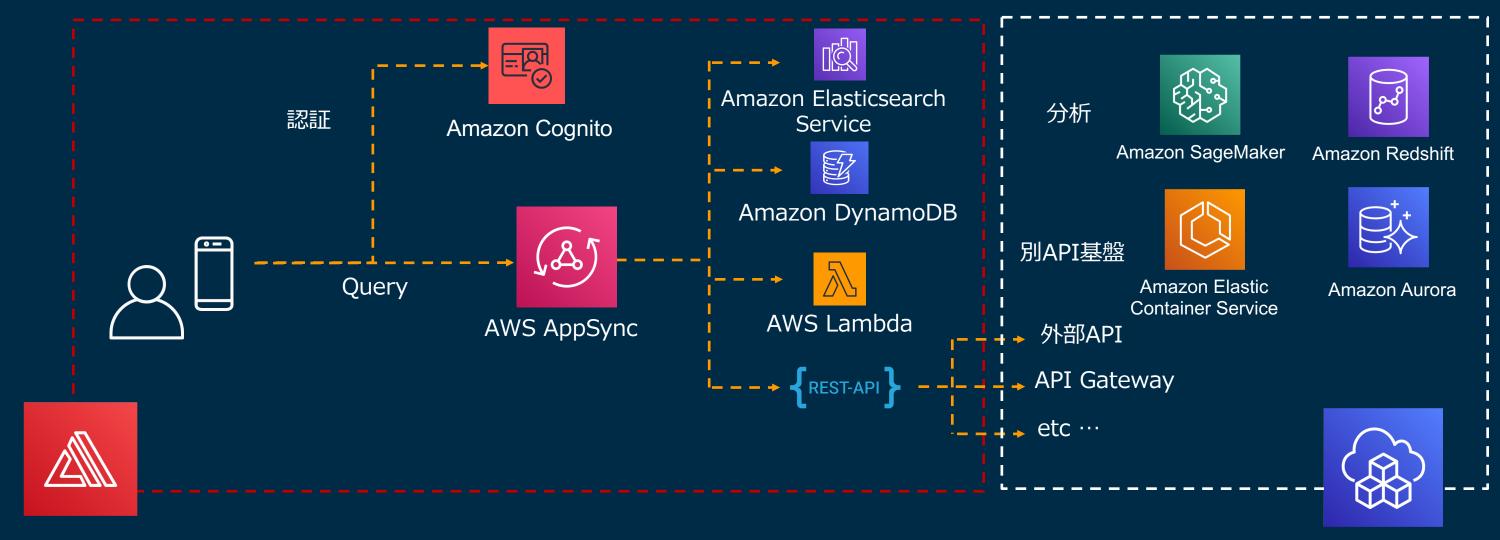
CloudFormation Template を自由に書いてリソースを足す env 変数を参照し、env 間でのリソース名の<u>衝突を防ぐ</u>

https://aws-amplify.github.io/docs/cli-toolchain/quickstart?sdk=js#custom-cloudformation-stacks





Tips: ユースケースに応じて使い分けることが大事



AWS Amplify

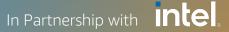
AWS Cloud Development Kit







Next Step



Q: Amplifyを本番環境で使ってる事例が知りたい

A: Amplify Meetup にぜひご参加を!





Connpassグループ



https://aws-amplify-jp.connpass.com/

Amplify Meetup #01 登壇資料集

「<u>Amplifyで実現した開発期間15日の路面電車乗務員勤務管理システムのフィールドテスト事例について</u>」時田 明典 さん(KDDI株式会社) 「<u>Amplify Consoleのビルド通知をSlackで受け取るためにやったこと</u>」荻野 陽太 さん(株式会社JustInCaseTechnologies)

「<u>痒いところに手が届くAmplify</u>」吉田 祐樹(アマゾンウェブサービスジャパン株式会社)

「Amplify 山あり、谷あり奮闘記」山本 準 さん(ナイル株式会社)

「<u>AmplifyのAPI機能を使う際のTips</u>」Taewoo Kim(キムテウ) さん(クラスメソッド株式会社)

「<u>わたしがAWS Amplifyを使い続ける理由。</u>」資延 香里 さん(アビームコンサルティング株式会社)

https://aws.amazon.com/jp/blogs/news/amplify-meetup-01/





Q: Amplifyでの開発を手を使って学びたい



A: CTOになりきってTwitterライク なアプリを開発するAmplify SNS Workshopがおすすめです!

@model, @auth, @key, @function, @searchableといった ディレクティブの活用方法

チーム開発でのAmplify Console、multi env機能の使い方

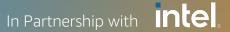
https://amplify-sns.workshop.aws/ja/







Closing



まとめ

AWS Amplifyを本番環境で使うためのノウハウ

- amplify env、Amplify Consoleを用いたWorkflow
- AWS上の環境統制

AWS Amplify を使用して高速に開発するためのTips

- @model, @key, @auth, @searchable, @auth
- Amplify Mocking

AWS Amplify 拡張シナリオ

- OAuthでSNS認証を組み込む
- カスタマーエンゲージメントツールを組み込む
- 分析基盤を組み込む
- AmplifyでサポートされていないAWSのサービスをAmplifyで管理する







Thank you!

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