Exploring AWS

Go Back again to site-building after exploring AWS

S3 photo album

To-Do list

- tutorial 따라하기 : 브라우저에서 Amazon S3 버킷의 사진 보기 AWS tutorial
- **done** bucket 생성 > cognito userPool > Policy creation > CORS > Album creation and photo upload
- **done** List album
- **working** view album: ==> **Material UI를 활용하여 photoList 보여줄 것**

S3 Access deny error

- IAM에서 bucket name을 잘못 입력하여 발생함. Bucket name 수정후 OK

S3: cloud storage

To-do list

- **done** bucket 생성
- **done** 매뉴얼 파일 업로드 | 다운로드 : templated 폴더 파일 사용: *Unzip 이 안됨*
- **done** node.js handling upload | download : *aws-explore/s3/s3.js*

GraphQl

- **done** : graphQl tutorial site error

DynamoDB

Lambda

ApiGateway

Face Recognition

Amplify Test

- 참조: https://aws-amplify.github.io/docs/js/start?ref=amplify-js-btn&platform=purejs

기본 준비

- Install cli

```
$ npm install -g @aws-amplify/cli
```

- amplify configure : set up access to your AWS account

- create IAM user
- register accessKeyId and accessKey

```
$ cd projectname ## cofig folder 생성 위치에서 amplify 실행할 것
$ amplify configure

Follow these steps to set up access to your AWS account:

Sign in to your AWS administrator account:
https://console.aws.amazon.com/
Press Enter to continue

Specify the AWS Region
? region:  (Use arrow keys)
? region:  us-east-2
Specify the username of the new IAM user:
? user name:  (amplify-IdNIT) amplify-kebin
? user name:  amplify-kebin
Complete the user creation using the AWS console
https://console.aws.amazon.com/iam/home?region=undefined#/users$new?
step=final&accessKey&userNames=amplify-
kebin&permissionType=policies&policies=arn:aws:iam::aws:policy%2FAdministratorAcce
ss
Press Enter to continue

Enter the access key of the newly created user:
? accessKeyId:  (<YOUR_ACCESS_KEY_ID>) AKIA2YPE6DECHBC2TSCX
? accessKeyId:  AKIA2YPE6D**********
? secretAccessKey:  (<YOUR_SECRET_ACCESS_KEY>)
PkpzFSeqrP2I25yULwuqPxpKVVDXL2mXdgM82Tkj
? secretAccessKey:  PkpzFSeqrP2I25yULwuq********************
This would update/create the AWS Profile in your local machine
? Profile Name:  (default)
? Profile Name:  default
```

Javascript 예제 - js-app

Set up backend

아마도 S3 인듯 Amplify deploy 참조 (client-reactjs/example-amplify-deploy)

- cd projectfolder

- amplify init

```
$ amplify init
Note: It is recommended to run this command from the root of your app directory
? Enter a name for the project (js-app)
? Enter a name for the project js-app
```

```
? Enter a name for the environment test
? Enter a name for the environment test
? Choose your default editor: (Use arrow keys)
? Choose your default editor: Visual Studio Code
? Choose the type of app that you're building (Use arrow keys)
? Choose the type of app that you're building javascript
Please tell us about your project
? What javascript framework are you using (Use arrow keys)
? What javascript framework are you using none
? Source Directory Path:  (src)
? Source Directory Path:  src
? Distribution Directory Path: (dist)
? Distribution Directory Path: dist
? Build Command:  (npm.cmd run-script build)
? Build Command:  npm.cmd run-script build
? Start Command: (npm.cmd run-script start)
? Start Command: npm.cmd run-script start
Using default provider  awscloudformation


For more information on AWS Profiles, see:
https://docs.aws.amazon.com/cli/latest/userguide/cli-multiple-profiles.html

? Do you want to use an AWS profile? Yes
? Please choose the profile you want to use (Use arrow keys)
? Please choose the profile you want to use default
- Initializing project in the cloud...


CREATE_IN_PROGRESS DeploymentBucket         AWS::S3::Bucket         Thu Nov
07 2019 16:10:45 GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_IN_PROGRESS UnauthRole               AWS::IAM::Role          Thu Nov
07 2019 16:10:45 GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_IN_PROGRESS AuthRole                 AWS::IAM::Role          Thu Nov
07 2019 16:10:45 GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_IN_PROGRESS UnauthRole               AWS::IAM::Role          Thu Nov
07 2019 16:10:45 GMT+0900 (GMT+09:00)
CREATE_IN_PROGRESS AuthRole                 AWS::IAM::Role          Thu Nov
07 2019 16:10:45 GMT+0900 (GMT+09:00)
CREATE_IN_PROGRESS DeploymentBucket         AWS::S3::Bucket         Thu Nov
07 2019 16:10:44 GMT+0900 (GMT+09:00)
CREATE_IN_PROGRESS amplify-js-app-test-161042 AWS::CloudFormation::Stack Thu Nov
07 2019 16:10:42 GMT+0900 (GMT+09:00) User Initiated


CREATE_COMPLETE AuthRole   AWS::IAM::Role Thu Nov 07 2019 16:11:01 GMT+0900
(GMT+09:00)
CREATE_COMPLETE UnauthRole AWS::IAM::Role Thu Nov 07 2019 16:11:01 GMT+0900
(GMT+09:00)


CREATE_COMPLETE amplify-js-app-test-161042 AWS::CloudFormation::Stack Thu Nov 07
2019 16:11:07 GMT+0900 (GMT+09:00)
CREATE_COMPLETE DeploymentBucket         AWS::S3::Bucket         Thu Nov 07
```

```
2019 16:11:06 GMT+0900 (GMT+09:00)
√ Successfully created initial AWS cloud resources for deployments.
- Initializing your environment: test
√ Initialized provider successfully.
Initialized your environment successfully.

Your project has been successfully initialized and connected to the cloud!

Some next steps:
"amplify status" will show you what you've added already and if it's locally
configured or deployed
"amplify <category> add" will allow you to add features like user login or a
backend API
"amplify push" will build all your local backend resources and provision it in the
cloud
"amplify publish" will build all your local backend and frontend resources (if you
have hosting category added) and provision it in the cloud

Pro tip:
Try "amplify add api" to create a backend API and then "amplify publish" to deploy
everything
```

- amplify api add

```
$ amplify api add # amplify add api 대신에

? Please select from one of the below mentioned services: (Use arrow keys)
? Please select from one of the below mentioned services: GraphQL

? Provide API name: (js-app) jsapp
? Provide API name: jsapp

? Choose the default authorization type for the API (Use arrow keys)
? Choose the default authorization type for the API API key

? Enter a description for the API key: myname
? Enter a description for the API key: myname

? After how many days from now the API key should expire (1-365): (7)
? After how many days from now the API key should expire (1-365): 7

? Do you want to configure advanced settings for the GraphQL API (Use arrow keys
? Do you want to configure advanced settings for the GraphQL API No, I am done.

? Do you have an annotated GraphQL schema? (y/N) n
? Do you have an annotated GraphQL schema? No

? Do you want a guided schema creation? (Y/n) y
? Do you want a guided schema creation? Yes

? What best describes your project: (Use arrow keys)
```

```
? What best describes your project: Single object with fields (e.g., "Todo" with

? Do you want to edit the schema now? (Y/n) n
? Do you want to edit the schema now? No

The following types do not have '@auth' enabled. Consider using @auth with @model
        - Todo
Learn more about @auth here: https://aws-amplify.github.io/docs/cli-
toolchain/graphql#auth



GraphQL schema compiled successfully.

Edit your schema at F:\aws-iot\test\amplify\js-
app\amplify\backend\api\jsapp\schema.graphql or place .graphql files in a
directory at F:\aws-iot\test\amplify\js-app\amplify\backend\api\jsapp\schema
Successfully added resource jsapp locally

Some next steps:
"amplify push" will build all your local backend resources and provision it in the
cloud
"amplify publish" will build all your local backend and frontend resources (if you
have hosting category added) and provision it in the cloud
```

- amplify push **Error accessKeyId Not Found**

```
$ amplify push

Current Environment: test

| Category | Resource name | Operation | Provider plugin   |
| -------- | ------------- | --------- | ----------------- |
| Api      | jsapp         | Create    | awscloudformation |
? Are you sure you want to continue? (Y/n) y
? Are you sure you want to continue? Yes

The following types do not have '@auth' enabled. Consider using @auth with @model
        - Todo
Learn more about @auth here: https://aws-amplify.github.io/docs/cli-
toolchain/graphql#auth



GraphQL schema compiled successfully.

Edit your schema at F:\aws-iot\test\amplify\js-
app\amplify\backend\api\jsapp\schema.graphql or place .graphql files in a
directory at F:\aws-iot\test\amplify\js-app\amplify\backend\api\jsapp\schema
× An error occurred when pushing the resources to the cloud

The AWS Access Key Id you provided does not exist in our records.
An error occured during the push operation: The AWS Access Key Id you provided
does not exist in our records.
```

- **amplify configure** again **down arrow 7 times** *then ap-notheast-2 selected*

```
$ amplify configure

Sign in to your AWS administrator account:
https://console.aws.amazon.com/
Press Enter to continue

Specify the AWS Region
? region:  (Use arrow keys)
> us-east-1
  us-east-2
  us-west-2
  eu-west-1
  eu-west-2
  eu-central-1
  ap-northeast-1
(Move up and down to reveal more choices)
? region:  ap-southeast-1
Specify the username of the new IAM user:
? user name:  (amplify-Xkbmg)
? user name:  amplify-Xkbmg
Complete the user creation using the AWS console
https://console.aws.amazon.com/iam/home?region=undefined#/users$new?
step=final&accessKey&userNames=amplify-
Xkbmg&permissionType=policies&policies=arn:aws:iam::aws:policy%2FAdministratorAcce
ss
Press Enter to continue

Enter the access key of the newly created user:
? accessKeyId:  (<YOUR_ACCESS_KEY_ID>) AKIA2YPE6DECBXXRZK7U
? accessKeyId:  AKIA2YPE6D**********
? secretAccessKey:  (<YOUR_SECRET_ACCESS_KEY>)
QlhCH+zAdRfnl2C8E7IVW4WT8VPfemKcvuxmAt1J
? secretAccessKey:  QlhCH+zAdRfnl2C8E7IV********************
This would update/create the AWS Profile in your local machine
? Profile Name:  (default)
? Profile Name:  default

Successfully set up the new user.
```

- **amplify push** again **Error: Project Stack doesn't exist**
  - 해당 Region의 S3 버킷에 있음.

```
$ amplify push

Current Environment: test
```

```
| Category | Resource name | Operation | Provider plugin   |
| -------- | ------------- | --------- | ----------------- |
| Api      | jsapp         | Create    | awscloudformation |
? Are you sure you want to continue? (Y/n) Y
? Are you sure you want to continue? Yes

The following types do not have '@auth' enabled. Consider using @auth with @model
        - Todo
Learn more about @auth here: https://aws-amplify.github.io/docs/cli-
toolchain/graphql#auth


GraphQL schema compiled successfully.

Edit your schema at F:\aws-iot\test\amplify\js-
app\amplify\backend\api\jsapp\schema.graphql or place .graphql files in a
directory at F:\aws-iot\test\amplify\js-app\amplify\backend\api\jsapp\schema
? Do you want to generate code for your newly created GraphQL API (Y/n) Y
? Do you want to generate code for your newly created GraphQL API Yes
? Choose the code generation language target (Use arrow keys)
? Choose the code generation language target javascript
? Enter the file name pattern of graphql queries, mutations and subscriptions (s
? Enter the file name pattern of graphql queries, mutations and subscriptions sr
? Do you want to generate/update all possible GraphQL operations - queries, muta
? Enter maximum statement depth [increase from default if your schema is deeply
- Updating resources in the cloud. This may take a few minutes...
ValidationError: Stack with id amplify-js-app-test-161042 does not exist
    at Request.extractError
(C:\Users\kebinlee\AppData\Roaming\npm\node_modules\@aws-
amplify\cli\node_modules\aws-sdk\lib\protocol\query.js:50:29)
    at Request.callListeners
(C:\Users\kebinlee\AppData\Roaming\npm\node_modules\@aws-
amplify\cli\node_modules\aws-sdk\lib\sequential_executor.js:106:20)
    at Request.emit (C:\Users\kebinlee\AppData\Roaming\npm\node_modules\@aws-
amplify\cli\node_modules\aws-sdk\lib\sequential_executor.js:78:10)
    at Request.emit (C:\Users\kebinlee\AppData\Roaming\npm\node_modules\@aws-
amplify\cli\node_modules\aws-sdk\lib\request.js:683:14)
    at Request.transition
(C:\Users\kebinlee\AppData\Roaming\npm\node_modules\@aws-
amplify\cli\node_modules\aws-sdk\lib\request.js:22:10)
    at AcceptorStateMachine.runTo
(C:\Users\kebinlee\AppData\Roaming\npm\node_modules\@aws-
amplify\cli\node_modules\aws-sdk\lib\state_machine.js:14:12)
    at C:\Users\kebinlee\AppData\Roaming\npm\node_modules\@aws-
amplify\cli\node_modules\aws-sdk\lib\state_machine.js:26:10
    at Request.<anonymous>
(C:\Users\kebinlee\AppData\Roaming\npm\node_modules\@aws-
amplify\cli\node_modules\aws-sdk\lib\request.js:38:9)
    at Request.<anonymous>
(C:\Users\kebinlee\AppData\Roaming\npm\node_modules\@aws-
amplify\cli\node_modules\aws-sdk\lib\request.js:685:12)
    at Request.callListeners
(C:\Users\kebinlee\AppData\Roaming\npm\node_modules\@aws-
amplify\cli\node_modules\aws-sdk\lib\sequential_executor.js:116:18)
```

```
× An error occurred when pushing the resources to the cloud

Project stack doesn't exist
An error occured during the push operation: Project stack doesn't exist
```

- **amplify init** again using aws profile use defalut (configure에서 지정한 이름)

```
Note: It is recommended to run this command from the root of your app directory
? Enter a name for the project jsapp
? Enter a name for the environment dev
? Choose your default editor: Visual Studio Code
? Choose the type of app that you're building javascript
? What javascript framework are you using none
? Source Directory Path:  src
? Distribution Directory Path: dist
? Build Command:  npm.cmd run-script build
? Start Command: npm.cmd run-script start

Using default provider  awscloudformation

? Do you want to use an AWS profile? Yes
? Please choose the profile you want to use default

- Initializing project in the cloud...

CREATE_IN_PROGRESS AuthRole                    AWS::IAM::Role          Mon Nov 11
2019 11:40:21 GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_IN_PROGRESS UnauthRole                  AWS::IAM::Role          Mon Nov 11
2019 11:40:21 GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_IN_PROGRESS DeploymentBucket            AWS::S3::Bucket         Mon Nov 11
2019 11:40:21 GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_IN_PROGRESS AuthRole                    AWS::IAM::Role          Mon Nov 11
2019 11:40:20 GMT+0900 (GMT+09:00)
CREATE_IN_PROGRESS UnauthRole                  AWS::IAM::Role          Mon Nov 11
2019 11:40:20 GMT+0900 (GMT+09:00)
CREATE_IN_PROGRESS DeploymentBucket            AWS::S3::Bucket         Mon Nov 11
2019 11:40:20 GMT+0900 (GMT+09:00)
CREATE_IN_PROGRESS amplify-jsapp-dev-114017 AWS::CloudFormation::Stack Mon Nov 11
2019 11:40:18 GMT+0900 (GMT+09:00) User Initiated

CREATE_COMPLETE DeploymentBucket AWS::S3::Bucket Mon Nov 11 2019 11:40:42 GMT+0900
(GMT+09:00)
CREATE_COMPLETE AuthRole         AWS::IAM::Role  Mon Nov 11 2019 11:40:39 GMT+0900
(GMT+09:00)
CREATE_COMPLETE UnauthRole       AWS::IAM::Role  Mon Nov 11 2019 11:40:39 GMT+0900
(GMT+09:00)

CREATE_COMPLETE amplify-jsapp-dev-114017 AWS::CloudFormation::Stack Mon Nov 11
2019 11:40:44 GMT+0900 (GMT+09:00)
√ Successfully created initial AWS cloud resources for deployments.
- Initializing your environment: dev
√ Initialized provider successfully.
```

```
Initialized your environment successfully.

Your project has been successfully initialized and connected to the cloud!

Some next steps:
"amplify status" will show you what you've added already and if it's locally
configured or deployed
"amplify <category> add" will allow you to add features like user login or a
backend API
"amplify push" will build all your local backend resources and provision it in the
cloud
"amplify publish" will build all your local backend and frontend resources (if you
have hosting category added) and provision it in the cloud

Pro tip:
Try "amplify add api" to create a backend API and then "amplify publish" to deploy
everything
```

- **amplify add api** again

```
$ amplify add api
? Please select from one of the below mentioned services: (Use arrow keys)
? Please select from one of the below mentioned services: GraphQL
? Provide API name: (jsapp)
? Provide API name: jsapp
? Choose the default authorization type for the API (Use arrow keys)
? Choose the default authorization type for the API API key
? Enter a description for the API key: jsapp api key
? Enter a description for the API key: jsapp api key
? After how many days from now the API key should expire (1-365): (7)
? After how many days from now the API key should expire (1-365): 7
? Do you want to configure advanced settings for the GraphQL API (Use arrow keys
? Do you want to configure advanced settings for the GraphQL API No, I am done.
? Do you have an annotated GraphQL schema? (y/N) n
? Do you have an annotated GraphQL schema? No
? Do you want a guided schema creation? (Y/n) y
? Do you want a guided schema creation? Yes
? What best describes your project: (Use arrow keys)
? What best describes your project: Single object with fields (e.g., "Todo" with
? Do you want to edit the schema now? (Y/n) n
? Do you want to edit the schema now? No

The following types do not have '@auth' enabled. Consider using @auth with @model
        - Todo
Learn more about @auth here: https://aws-amplify.github.io/docs/cli-
toolchain/graphql#auth


GraphQL schema compiled successfully.

Edit your schema at F:\aws-
iot\test\amplify\amplify\backend\api\jsapp\schema.graphql or place .graphql files
```

```
in a directory at F:\aws-iot\test\amplify\amplify\backend\api\jsapp\schema
Successfully added resource jsapp locally

Some next steps:
"amplify push" will build all your local backend resources and provision it in the
cloud
"amplify publish" will build all your local backend and frontend resources (if you
have hosti
ng category added) and provision it in the cloud
```

- **amplify push** again **Success**

```
$ amplify push

Current Environment: dev

| Category | Resource name | Operation | Provider plugin  |
| -------- | ------------- | --------- | ---------------- |
| Api      | jsapp         | Create    | awscloudformation |
? Are you sure you want to continue? (Y/n) Y
? Are you sure you want to continue? Yes

The following types do not have '@auth' enabled. Consider using @auth with @model
        - Todo
Learn more about @auth here: https://aws-amplify.github.io/docs/cli-
toolchain/graphql#auth


GraphQL schema compiled successfully.

Edit your schema at F:\aws-
iot\test\amplify\amplify\backend\api\jsapp\schema.graphql or place .graphql files
in a directory at F:\aws-iot\test\amplify\amplify\backend\api\jsapp\schema
? Do you want to generate code for your newly created GraphQL API (Y/n) y
? Do you want to generate code for your newly created GraphQL API Yes
? Choose the code generation language target (Use arrow keys)
? Choose the code generation language target javascript
? Enter the file name pattern of graphql queries, mutations and subscriptions (s
? Enter the file name pattern of graphql queries, mutations and subscriptions sr
? Do you want to generate/update all possible GraphQL operations - queries, muta
? Enter maximum statement depth [increase from default if your schema is deeply
- Updating resources in the cloud. This may take a few minutes...


CREATE_IN_PROGRESS apijsapp                    AWS::CloudFormation::Stack Mon Nov 11
2019 15:11: 46 GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_IN_PROGRESS apijsapp                    AWS::CloudFormation::Stack Mon Nov 11
2019 15:11: 45 GMT+0900 (GMT+09:00)
UPDATE_IN_PROGRESS amplify-jsapp-dev-114017 AWS::CloudFormation::Stack Mon Nov 11
2019 15:11: 42 GMT+0900 (GMT+09:00) User Initiated
```

```
CREATE_IN_PROGRESS amplify-jsapp-dev-114017-apijsapp-HG1QS90SFR7B
AWS::CloudFormation::Stack Mon Nov 11 2019 15:11:46 GMT+0900 (GMT+09:00) User
Initiated


CREATE_COMPLETE    GraphQLAPI AWS::AppSync::GraphQLApi Mon Nov 11 2019 15:11:52
GMT+0900 (GMT +09:00)
CREATE_IN_PROGRESS GraphQLAPI AWS::AppSync::GraphQLApi Mon Nov 11 2019 15:11:52
GMT+0900 (GMT +09:00) Resource creation Initiated
CREATE_IN_PROGRESS GraphQLAPI AWS::AppSync::GraphQLApi Mon Nov 11 2019 15:11:49
GMT+0900 (GMT +09:00)


CREATE_COMPLETE    GraphQLAPIKey AWS::AppSync::ApiKey Mon Nov 11 2019 15:11:55
GMT+0900 (GMT+ 09:00)
CREATE_IN_PROGRESS GraphQLAPIKey AWS::AppSync::ApiKey Mon Nov 11 2019 15:11:55
GMT+0900 (GMT+ 09:00) Resource creation Initiated
CREATE_IN_PROGRESS GraphQLAPIKey AWS::AppSync::ApiKey Mon Nov 11 2019 15:11:54
GMT+0900 (GMT+ 09:00)


CREATE_IN_PROGRESS GraphQLSchema AWS::AppSync::GraphQLSchema Mon Nov 11 2019
15:12:06 GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_IN_PROGRESS GraphQLSchema AWS::AppSync::GraphQLSchema Mon Nov 11 2019
15:12:03 GMT+0900 (GMT+09:00)


CREATE_COMPLETE GraphQLSchema AWS::AppSync::GraphQLSchema Mon Nov 11 2019 15:12:17
GMT+0900 (GMT+09:00)


CREATE_IN_PROGRESS Todo AWS::CloudFormation::Stack Mon Nov 11 2019 15:12:20
GMT+0900 (GMT+09: 00) Resource creation Initiated
CREATE_IN_PROGRESS Todo AWS::CloudFormation::Stack Mon Nov 11 2019 15:12:19
GMT+0900 (GMT+09: 00)


CREATE_IN_PROGRESS amplify-jsapp-dev-114017-apijsapp-HG1QS90SFR7B-Todo-
139J6OLSI8A5I AWS::CloudFormation::Stack Mon Nov 11 2019 15:12:20 GMT+0900
(GMT+09:00) User Initiated


CREATE_IN_PROGRESS TodoIAMRole AWS::IAM::Role      Mon Nov 11 2019 15:12:25
GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_IN_PROGRESS TodoTable   AWS::DynamoDB::Table Mon Nov 11 2019 15:12:24
GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_IN_PROGRESS TodoIAMRole AWS::IAM::Role      Mon Nov 11 2019 15:12:24
GMT+0900 (GMT+09:00)
CREATE_IN_PROGRESS TodoTable   AWS::DynamoDB::Table Mon Nov 11 2019 15:12:24
GMT+0900 (GMT+09:00)


CREATE_COMPLETE    TodoDataSource AWS::AppSync::DataSource Mon Nov 11 2019
15:12:42 GMT+0900 (GMT+09:00)
```

```
CREATE_IN_PROGRESS TodoDataSource AWS::AppSync::DataSource Mon Nov 11 2019
15:12:42 GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_IN_PROGRESS TodoDataSource AWS::AppSync::DataSource Mon Nov 11 2019
15:12:41 GMT+0900 (GMT+09:00)
CREATE_COMPLETE    TodoIAMRole    AWS::IAM::Role        Mon Nov 11 2019
15:12:38 GMT+0900 (GMT+09:00)
```

```
CREATE_IN_PROGRESS ListTodoResolver   AWS::AppSync::Resolver Mon Nov 11 2019
15:12:48 GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_COMPLETE    UpdateTodoResolver AWS::AppSync::Resolver Mon Nov 11 2019
15:12:47 GMT+0900 (GMT+09:00)
CREATE_IN_PROGRESS UpdateTodoResolver AWS::AppSync::Resolver Mon Nov 11 2019
15:12:47 GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_COMPLETE    DeleteTodoResolver AWS::AppSync::Resolver Mon Nov 11 2019
15:12:47 GMT+0900 (GMT+09:00)
CREATE_IN_PROGRESS DeleteTodoResolver AWS::AppSync::Resolver Mon Nov 11 2019
15:12:47 GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_COMPLETE    GetTodoResolver    AWS::AppSync::Resolver Mon Nov 11 2019
15:12:46 GMT+0900 (GMT+09:00)
CREATE_IN_PROGRESS GetTodoResolver    AWS::AppSync::Resolver Mon Nov 11 2019
15:12:46 GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_IN_PROGRESS ListTodoResolver   AWS::AppSync::Resolver Mon Nov 11 2019
15:12:45 GMT+0900 (GMT+09:00)
CREATE_IN_PROGRESS DeleteTodoResolver AWS::AppSync::Resolver Mon Nov 11 2019
15:12:44 GMT+0900 (GMT+09:00)
CREATE_IN_PROGRESS GetTodoResolver    AWS::AppSync::Resolver Mon Nov 11 2019
15:12:44 GMT+0900 (GMT+09:00)
CREATE_IN_PROGRESS UpdateTodoResolver AWS::AppSync::Resolver Mon Nov 11 2019
15:12:44 GMT+0900 (GMT+09:00)
```

```
CREATE_COMPLETE ListTodoResolver AWS::AppSync::Resolver Mon Nov 11 2019 15:12:48
GMT+0900 (GMT+09:00)
```

```
CREATE_IN_PROGRESS CreateTodoResolver AWS::AppSync::Resolver Mon Nov 11 2019
15:12:51 GMT+0900 (GMT+09:00)
```

```
CREATE_COMPLETE    CreateTodoResolver AWS::AppSync::Resolver Mon Nov 11 2019
15:12:57 GMT+0900 (GMT+09:00)
CREATE_IN_PROGRESS CreateTodoResolver AWS::AppSync::Resolver Mon Nov 11 2019
15:12:56 GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_COMPLETE    TodoTable          AWS::DynamoDB::Table   Mon Nov 11 2019
15:12:55 GMT+0900 (GMT+09:00)
```

```
CREATE_COMPLETE amplify-jsapp-dev-114017-apijsapp-HG1QS90SFR7B-Todo-139J6OLSI8A5I
AWS::CloudFormation::Stack Mon Nov 11 2019 15:12:59 GMT+0900 (GMT+09:00)
```

```
CREATE_COMPLETE Todo AWS::CloudFormation::Stack Mon Nov 11 2019 15:13:07 GMT+0900
(GMT+09:00)
```

```
CREATE_IN_PROGRESS CustomResourcesjson AWS::CloudFormation::Stack Mon Nov 11 2019
15:13:10 GMT+0900 (GMT+09:00) Resource creation Initiated
CREATE_IN_PROGRESS CustomResourcesjson AWS::CloudFormation::Stack Mon Nov 11 2019
15:13:09 GMT+0900 (GMT+09:00)


CREATE_COMPLETE    amplify-jsapp-dev-114017-apijsapp-HG1QS90SFR7B-
CustomResourcesjson-12T32AWM9UYJI AWS::CloudFormation::Stack Mon Nov 11 2019
15:13:12 GMT+0900 (GMT+09:00)
CREATE_IN_PROGRESS amplify-jsapp-dev-114017-apijsapp-HG1QS90SFR7B-
CustomResourcesjson-12T32AWM9UYJI AWS::CloudFormation::Stack Mon Nov 11 2019
15:13:10 GMT+0900 (GMT+09:00) User Initiated


CREATE_COMPLETE CustomResourcesjson AWS::CloudFormation::Stack Mon Nov 11 2019
15:13:20 GMT+0900 (GMT+09:00)


CREATE_COMPLETE amplify-jsapp-dev-114017-apijsapp-HG1QS90SFR7B
AWS::CloudFormation::Stack Mon Nov 11 2019 15:13:23 GMT+0900 (GMT+09:00)


UPDATE_COMPLETE_CLEANUP_IN_PROGRESS amplify-jsapp-dev-114017
AWS::CloudFormation::Stack Mon Nov 11 2019 15:13:42 GMT+0900 (GMT+09:00)
CREATE_COMPLETE                          apijsapp
AWS::CloudFormation::Stack Mon Nov 11 2019 15:13:39 GMT+0900 (GMT+09:00)


UPDATE_COMPLETE amplify-jsapp-dev-114017 AWS::CloudFormation::Stack Mon Nov 11
2019 15:13:43 GMT+0900 (GMT+09:00)
- Downloading the introspection schema
√ All resources are updated in the cloud

GraphQL endpoint: https://c3tldtd25zbwrodhk3aag2izqu.appsync-api.ap-northeast-
2.amazonaws.com/graphql
GraphQL API KEY: da2-6v3qcblvozflrlsuc27lzfajzy

√ Downloaded the schema
- Generating GraphQL operations
√ Generated GraphQL operations successfully and saved at ..\src\graphql
```

Amplify 사용시 주요 포인트

- Configure : IAM user
  - region: down 화살표를 7번 내려서 ap-northeast-2 를 반드시 선택
  - IAM user 생성 및 등록
  - keyId 및 Key 등록
  - profile을 생성: profile name - default 혹은 다른 이름
- init : project

- project name (여기서는 jsapp)
- environment name (여기서는 dev)
- editor | dir path 지정 | build, start script 지정
- provider 지정: awscloudformation
- AWS profile 선택: configure에서 지정한 이름 선택 (여기서는 default)
- Initializing...
  - Auth IAM Role
  - UnAuth IAM Role
  - S3 Bucket
  - CloudFormation Stack (여기서는 amplify-jsapp-dev-114017)
- add api: creates an AWS AppSync API anc connects it to an DynamoDB
  - select service: GraphQl
- push: OK
- **왜 amplify/.config, src/ 들이 js-app 밖에 있는가?**
- 다시 시도 할때는 **js-app/** 에서 amplify configure/init/add api/push 를 해보자

Test 결과

- npm start @ amplify/js-app
- console 확인해 보니 credential이 없어서 접속 불가.
- 대충 뭔지는 알았고(즉 AppSync, DynamoDB 사용 App을 쉽게 만들수 있다는 의미...)

Git Example

Basics

- create a repository in github
- basic commands

```
$ git init
$ git add *
# The following paths are ignored by one of your .gitignore files:
# conf.js
# Use -f if you really want to add them.

$ git commit -m 'first'
# [master (root-commit) c9931dc] first
# 1 file changed, 81 insertions(+)
# create mode 100644 README.md

$ git status
# On branch master
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)

#         .gitignore

# nothing added to commit but untracked files present (use "git add" to track)

$ git remote add origin https://github.com/kebinlee1/testgit.git
```

```
$ git push -u origin master
# Counting objects: 3, done.
# Delta compression using up to 8 threads.
# Compressing objects: 100% (2/2), done.
# Writing objects: 100% (3/3), 819 bytes | 0 bytes/s, done.
# Total 3 (delta 0), reused 0 (delta 0)
# To https://github.com/kebinlee1/testgit.git
#  * [new branch]      master -> master
# Branch master set up to track remote branch master from origin.
```

.gitignore example

```
###################################################################
# test/reactnative/HelloReact/.gitignore 참조
# private configuration files
# all conf.js will be ignored
###################################################################
conf.js


# OSX
#
.DS_Store

# Xcode
#
build/
*.pbxuser
!default.pbxuser
*.mode1v3
!default.mode1v3
*.mode2v3
!default.mode2v3
*.perspectivev3
!default.perspectivev3
xcuserdata
*.xccheckout
*.moved-aside
DerivedData
*.hmap
*.ipa
*.xcuserstate

# Android/IntelliJ
#
build/
.idea
.gradle
local.properties
```

```
    *.iml

    # node.js
    #
    node_modules/
    npm-debug.log
    yarn-error.log

    # BUCK
    buck-out/
    \.buckd/
    *.keystore
    !debug.keystore

    # fastlane
    #
    # It is recommended to not store the screenshots in the git repo. Instead, use
    fastlane to re-generate the
    # screenshots whenever they are needed.
    # For more information about the recommended setup visit:
    # https://docs.fastlane.tools/best-practices/source-control/

    */fastlane/report.xml
    */fastlane/Preview.html
    */fastlane/screenshots

    # Bundle artifact
    *.jsbundle

    # CocoaPods
    /ios/Pods/

    #amplify
    amplify/\#current-cloud-backend
    amplify/.config/local-*
    amplify/mock-data
    amplify/backend/amplify-meta.json
    amplify/backend/awscloudformation
    build/
    dist/
    node_modules/
    aws-exports.js
    awsconfiguration.json
```