

AWS Chatbot Challenge

Overview)

- This bot is SA(@ScheduleAdjustment) .
- SA confirms team member's Schedule ,and accordingly adjusts Schedule.
- No matter where you are, will be able to confirms team member's Schedule.
- Let's using to confirms team member's Schedule !

features)

○ SA bot has the following features .

- check the schedule

It shows member's daily time schedule(Google Calendar)on the Slack application.

- add the schedule

It adds an appointment to the member's schedule.

How to use)

- Preparation for (How to use a SA Bot).
 1. Prepare Google calendar
 2. Create a property file
 3. Prepare an Amazon S3
 4. Set IAM Management Console
 5. Set Amazon Lambda's environment variables
 6. Integrate the Slack with the Amazon Lex

Please refer next section , about to set each item detail.

How to use)

1. Prepare Google calendar

【Setting of Tool administrator】

1. Get Google service account key

- Create Google service account and get Google service ID(that)to use Google API. Please refer to the following URL to reference.
- [<https://developers.google.com/api-client-library/php/auth/service-accounts>]

[<https://neal.codes/blog/google-calendar-api-on-g-suite>]

- Store the created json file in the Amazon S3 bucket (create no.3)

2. Get google-api-php-client program

- Access to the following URL , Download [1.1.7 Source code(zip)]file .

[<https://github.com/google/google-api-php-client>]

【Setting of member】

- Get Google account.
- Show Share this Calendar from Google calendar service.
- In the Share with specific people section , set the Google Service ID for Person , add this permissions.

Make changes AND manage sharing

How to use)

2. Create a Property file

- According to the format , create a [user.properties] file .

(Example)

[use1]=[calendar ID]

[user2]=[calendar ID]

- Store the [user.properties]file in the Amazon S3 bucket (create no.3)

3. Prepare an Amazon S3

- Create Amazon S3 bucket
- Create [apiKey] folder and [userInfo] folder in Amazon S3
- Change the name of the json file (create no.1) to [googleAPIkey.json] , store this file in the [apiKey]
- Store [user.properties] in [userInfo] folder .

How to use)

4. Set IAM Management Console

- Add this Permissions

AmazonAthenaFullAccess

IAMUserChangePassword

AmazonAPIGatewayAdministrator

AmazonAPIGatewayInvokeFullAccess

AmazonLexFullAccess

AmazonS3FullAccess

AmazonSESEFullAccess

AmazonSNSFullAccess

AmazonSQSFullAccess

AWSLambdaFullAccess

IAMFullAccess

IAMUserChangePassword

How to use)

5. Set Amazon Lambda's environment variables

Set Amazon Console following it.

- Bucket Name

KEY : `BUCKET_NAME`

VALUE : Create Bucket Name

- Time zone(TZ)

Setting a short ID adapts your Google Calendar time zone.

6. Integrate the Slack with the Amazon Lex

Please refer to the following URL to reference.

【<http://docs.aws.amazon.com/lex/latest/dg/slack-bot-association.html>】

Setting [Subscribe to Team Events]

message.channels

message.group

message.im

message.mpin