Cloud Resources

1. AWS IoT core
2. AWS Lambda
3. AWS S3 Bucket
4. IAM Role

Configuration Steps to add Calendar Events to Cloud

1. Create an AWS account.
2. Create new policy in AWS IoT console ad add policy statements for ‘iot:Connect’, ‘iot:Receive’, ‘iot:Publish’, and ‘iot:Subscribe’.
3. Create a new thing object and download certificate necessary to configure the laptop as an IoT device.
4. Create a new S3 Bucket in the AWS Bucket named ‘set-get-ready-alarm-bucket’.
5. In the AWS Console, create a new lambda function.
    a. Add permissions for ‘iot:Connect’, ‘iot:Receive’, ‘iot:Publish’, and ‘iot:Subscribe’.
    b. Create new IAM role for function with the following permissions:

        1. AmazonS3FullAccess
        2. AWSIoTDataAccess
        3. AWSLambdaBasicExecutionRole
        4. AWSXRayDaemonWriteAccess

    c. Add an AWS IoT trigger with a new IoT rule.
        i. Add topic for trigger as ‘device/lambda/data’.
        ii. Add the following SQL statement to the rule:

```
SELECT location as location, startTime as startTime, eventName as eventName
FROM 'device/lambda/data'
```

    d. In the lambda function code source section, paste the code located in the calendar_lambda_function,py.
    e. Deploy the lambda function.

Configuration Steps for Creating Alarm Details in Cloud

1. Create a new Lambda function in AWS IoT console.
    a. Create a new IAM role for the lambda function.
        i. Add the following permissions for the IAM role:
            1. AlexaForBusinessDeviceSetup
            2. AlexaForBusinessFullAccess
            3. AlexaForBusinessGatewayExecution
            4. AlexaForBusinessLifesizeDelegaatedAccessPolicy
            5. AlexaForBusinessPolyDelegatedAccessPolicy
            6. AlexaForBusinessReadOnlyAccess
            7. AmazonConnectVoiceIDFullAccess

8. AmazonS3FullAccess
9. AWSLambdaBasicExecutionRole

2. Compress the following files into a zip file: index.js, package_json, and node_modules.
3. Upload the zip file to the lambda function code source.
4. Add an Alexa trigger to the lambda function.
    a. Add the Alexa skill id to the trigger.
    b. Add the lambda function ARN to as the Default Region Endpoint in the Alexa Skill.
5. Deploy the lambda function.