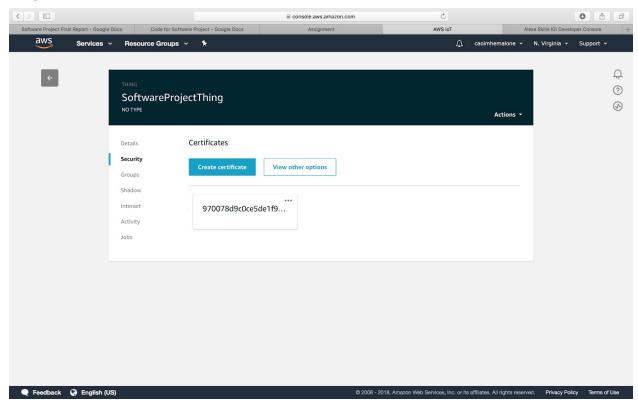
## Code for Software Project

Caoimhe Malone X14447022 BSHC4 IOT Safe & Sound

Github link: https://github.com/caoimhemalone/SoftwareProject

## AWS:



## Alexa:

```
"name": "AMAZON.FallbackIntent",
            "samples": []
         },
            "name": "AMAZON.CancelIntent",
            "samples": []
         },
            "name": "AMAZON.HelpIntent",
            "samples": []
         },
            "name": "AMAZON.StopIntent",
            "samples": []
         },
            "name": "SystemOn",
            "slots": [],
            "samples": [
               "Alexa turn safeandsound on",
               "Alexa turn system on",
               "Alexa ask safeandsound to turn on ",
               "Alexa ask safeandsound to turn system on"
            ]
         },
            "name": "SystemOff",
            "slots": [],
            "samples": [
               "Alexa ask safeandsound to turn off",
               "Alexa stop safeandsound",
               "Alexa turn system off",
               "Alexa ask safeandsound to stop"
         }
       ],
       "types": []
}
```

Lambda:

```
import boto3
```

```
access key = "AKIAIUHYRDMGFNBY2JPQ"
access_secret = "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"
region ="us-east-1"
queue_url = "https://sqs.us-east-1.amazonaws.com/688000642875/AlexaScriptPi"
def build_speechlet_response(title, output, reprompt_text, should_end_session):
  return {
     'outputSpeech': {
       'type': 'PlainText',
       'text': output
    },
     'card': {
       'type': 'Simple',
       'title': "SessionSpeechlet - " + title,
       'content': "SessionSpeechlet - " + output
    },
     'reprompt': {
       'outputSpeech': {
         'type': 'PlainText',
         'text': reprompt text
       }
     'shouldEndSession': should_end_session
  }
def build_response(session_attributes, speechlet_response):
  return {
     'version': '1.0',
     'sessionAttributes': session_attributes,
     'response': speechlet_response
  }
def post_message(client, message_body, url):
  response = client.send_message(QueueUrl = url, MessageBody= message_body)
def lambda_handler(event, context):
  client = boto3.client('sqs', aws_access_key_id = access_key, aws_secret_access_key =
access_secret, region_name = region)
  intent name = event['request']['intent']['name']
  if intent_name == "SystemOn":
```

```
post_message(client, 'on', queue_url)
  message = "on"
elif intent_name == "SystemOff":
  post_message(client, 'off', queue_url)
  message = "off"
else:
  message = "Unknown"

speechlet = build_speechlet_response("System Status", message, "", "true")
return build_response({}, speechlet)
```