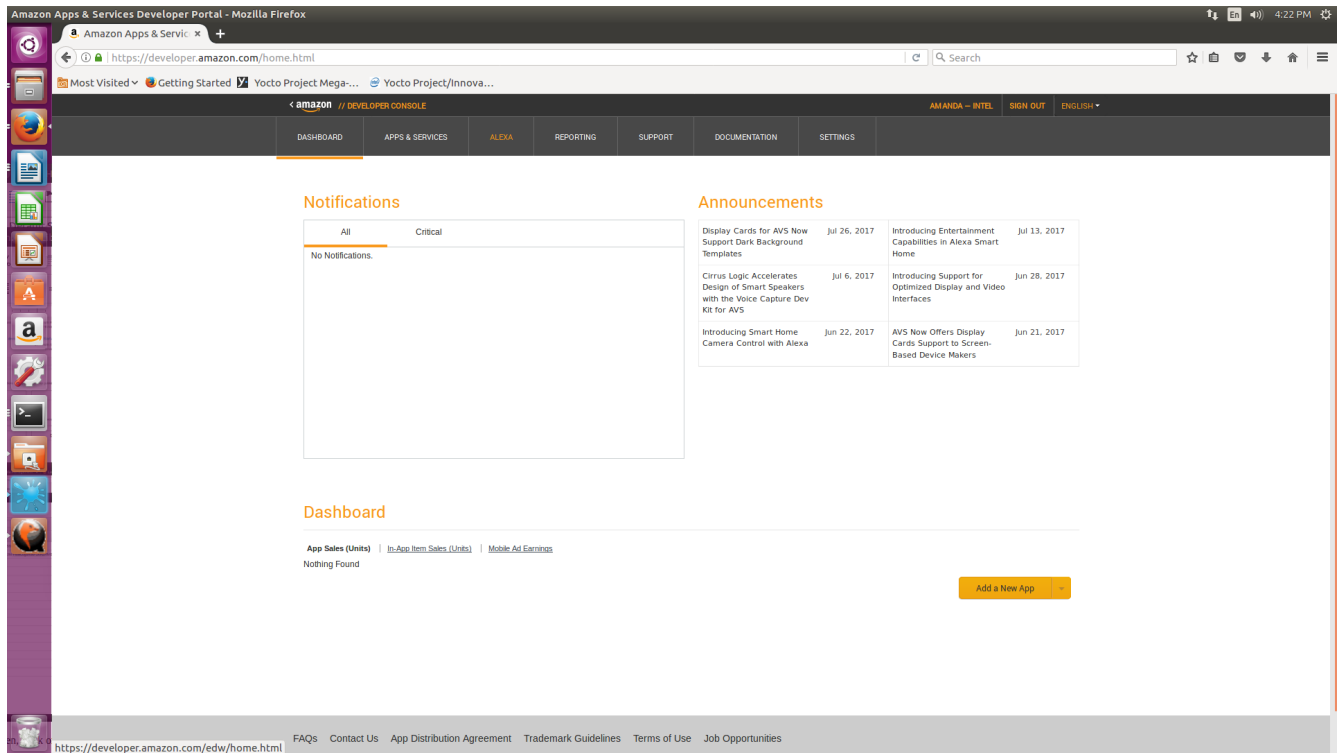
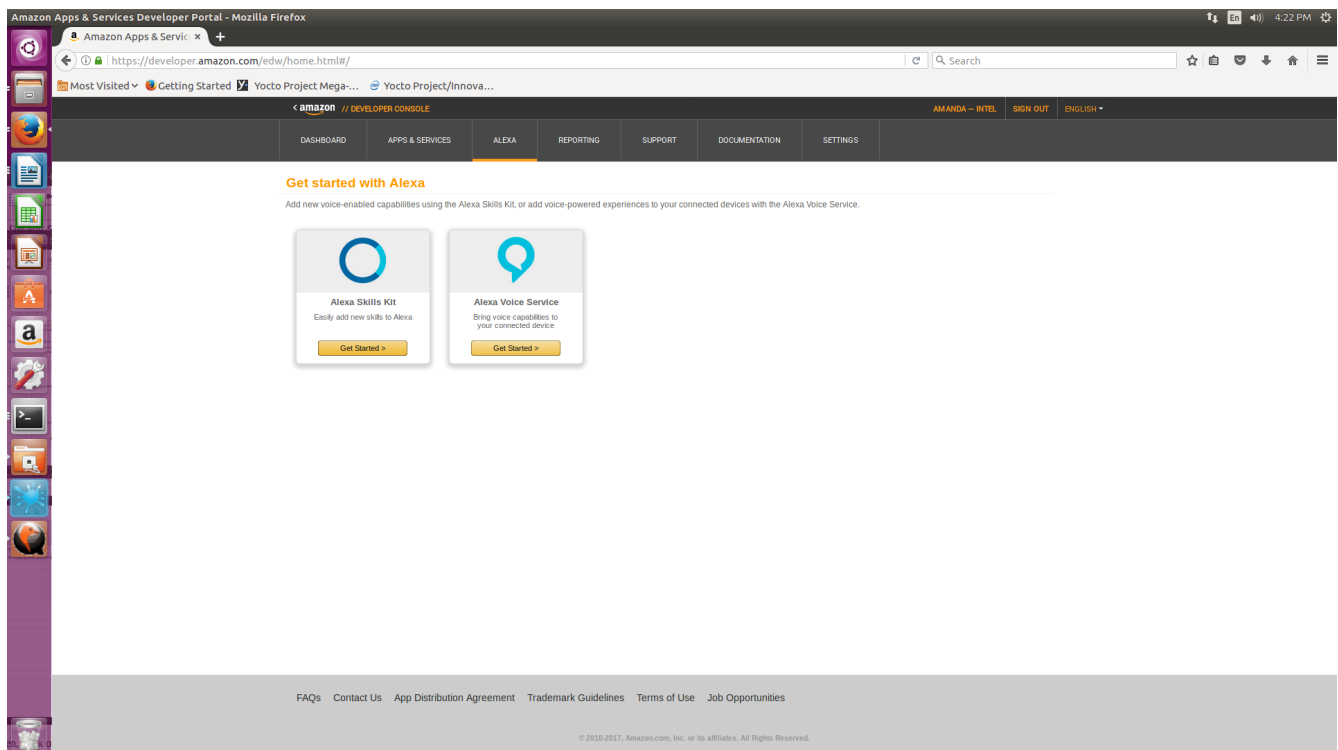


3. How to Create Alexa Skill

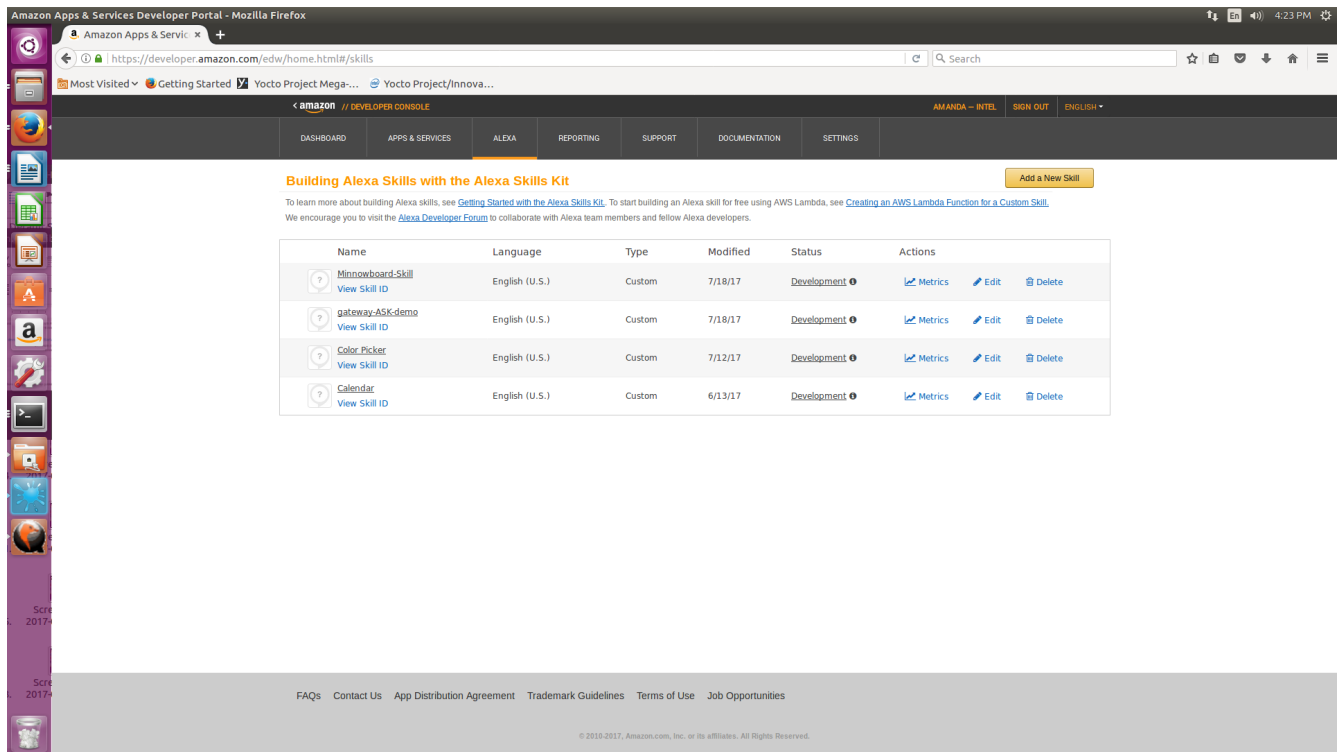
Sign in to developer.amazon.com.



Click **ALEXA**.



Click **Get Started** under **Alexa Skills Kit**.



Building Alexa Skills with the Alexa Skills Kit Add a New Skill

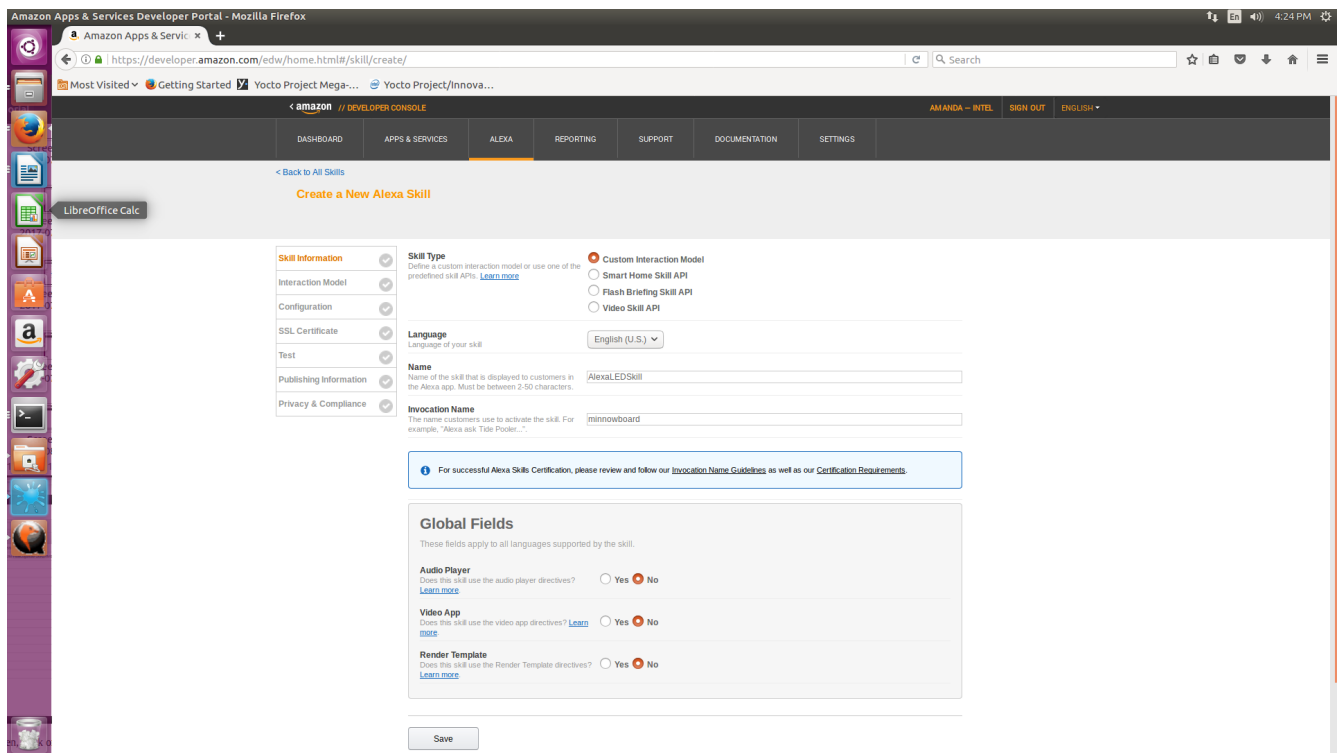
To learn more about building Alexa skills, see [Getting Started with the Alexa Skills Kit](#). To start building an Alexa skill for free using AWS Lambda, see [Creating an AWS Lambda Function for a Custom Skill](#). We encourage you to visit the [Alexa Developer Forum](#) to collaborate with Alexa team members and fellow Alexa developers.

Name	Language	Type	Modified	Status	Actions
Minnowboard-Skill View Skill ID	English (U.S.)	Custom	7/18/17	Development	Metrics Edit Delete
gateway-ASK-demo View Skill ID	English (U.S.)	Custom	7/18/17	Development	Metrics Edit Delete
Color Picker View Skill ID	English (U.S.)	Custom	7/12/17	Development	Metrics Edit Delete
Calendar View Skill ID	English (U.S.)	Custom	6/13/17	Development	Metrics Edit Delete

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Click **Add a New Skill**.



Create a New Alexa Skill

LibreOffice Calc

Skill Information

Interaction Model: Custom Interaction Model Smart Home Skill API Flash Briefing Skill API Video Skill API

Configuration:

SSL Certificate:

Test:

Publishing Information:

Privacy & Compliance:

Skill Type

Define a custom interaction model or use one of the predefined skill APIs. [Learn more](#)

Custom Interaction Model

Smart Home Skill API

Flash Briefing Skill API

Video Skill API

Language

Language of your skill: English (U.S.)

Name

Name of the skill that is displayed to customers in the Alexa app. Must be between 2-50 characters. AlexaLEDSkill

Invocation Name

The name customers use to activate the skill. For example, "Alexa ask Tide Pooler..." minnowboard

For successful Alexa Skills Certification, please review and follow our [Invocation Name Guidelines](#) as well as our [Certification Requirements](#).

Global Fields

These fields apply to all languages supported by the skill.

Audio Player

Does this skill use the audio player directives? Yes No [Learn more](#)

Video App

Does this skill use the video app directives? Yes No [Learn more](#)

Render Template

Does this skill use the Render Template directives? Yes No [Learn more](#)

Save

Give the skill a Name and an Invocation Name. The Invocation Name is the name that you'll refer to the skill as when talking to Alexa. (e.g. Alexa, tell minnowboard to ...).

Click **Save** and then **Next**.

For **Intent Schema**, copy and paste the following code:

```
{
  "intents": [
    {
      "slots": [
        {
          "name": "DeviceState",
          "type": "Device_States"
        }
      ],
      "intent": "DeviceStateIntent"
    },
    {
      "intent": "AMAZON.RepeatIntent"
    },
    {
      "intent": "AMAZON.HelpIntent"
    },
    {
      "intent": "AMAZON.StopIntent"
    },
    {
      "intent": "AMAZON.CancelIntent"
    }
  ]
}
```

For **Custom Slot Types**:

Type:

Device_States

Values:

on

off

And then click Add

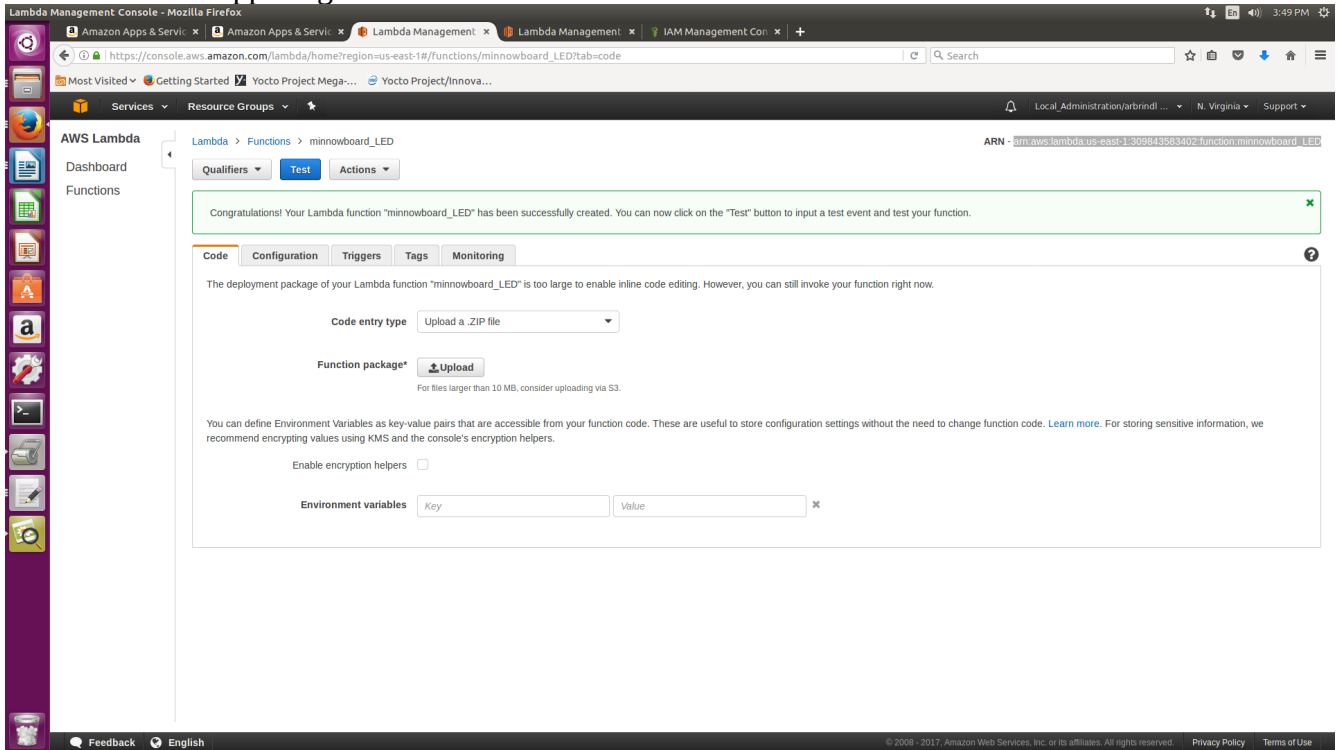
For **Sample Utterances**:

DeviceStateIntent turn L E D {DeviceState}

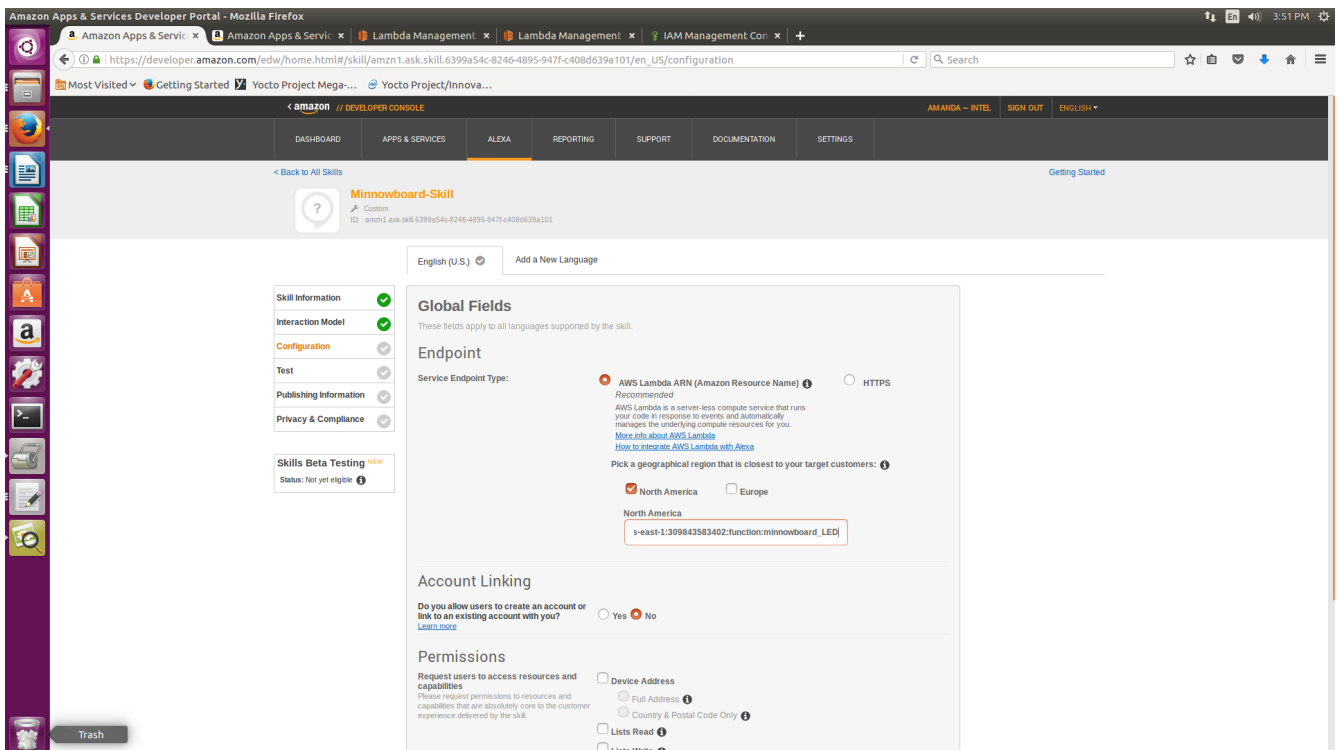
Click **Save**. Saving will take a moment. Then click **Next**.

On the next page, you will be asked for an endpoint. Choose **AWS Lambda ARN (Amazon Resource Name)**.

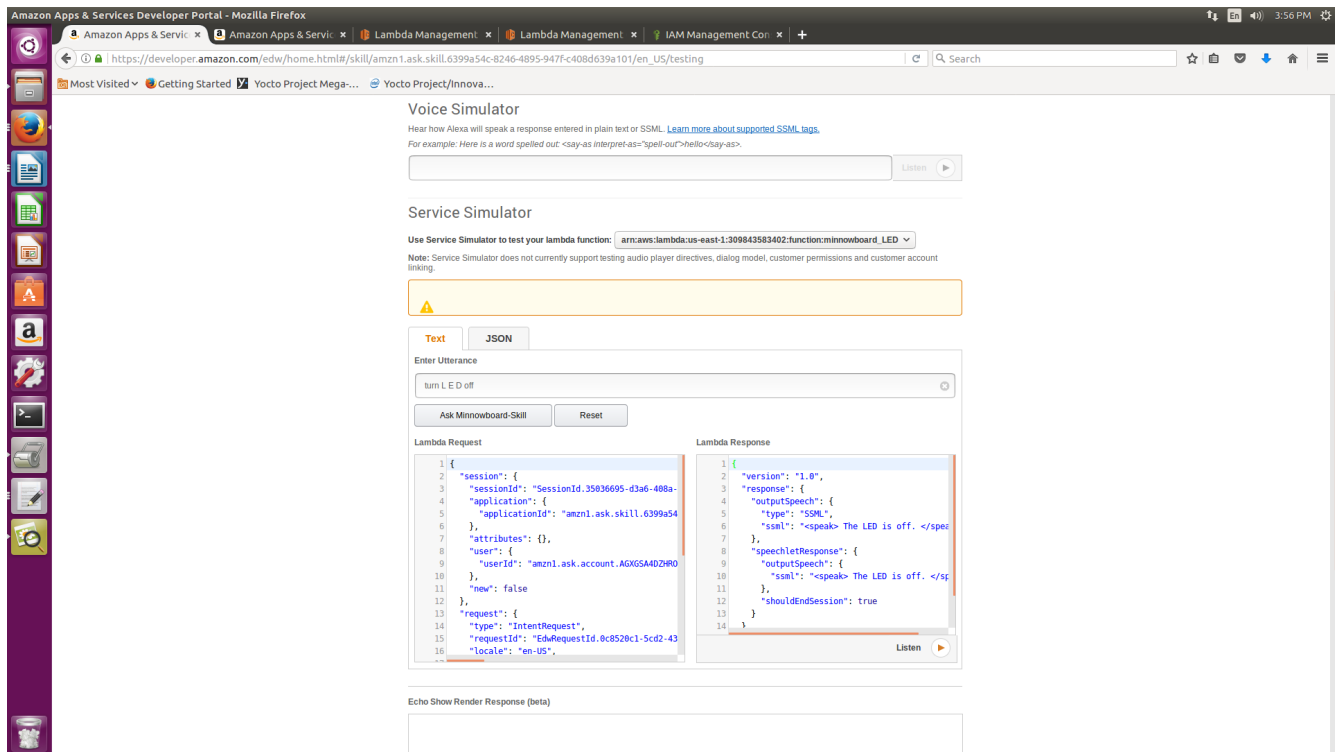
Go back to your lambda function that you created in the previous tutorial, and copy the ARN, which should be in the upper right hand corner.



Go back to the page on developer.amazon.com where you created the Alexa Skill, under the Configuration tab where it asks for the Endpoint:



Pick your geographical region, and paste the ARN. Then click **Next**.



Now, you can try the simulator to check for the correct Lambda Response.

How to Communicate with your Device

In order to actually communicate with your Thing, though, use `main.js`, which is included in the image. In `main.js`, update `keyPath` and `certPath` to the certificate names on your device, and replace `host` with the endpoint from the AWS IoT Device Interact Dashboard, and replace the `device.subscribe` with your thing shadow/update/accepted. Run `node main.js`. It will say connect once it is connected. You can then use the skill's service simulator to either turn your minnowboard's LED on or off.

To actually talk to your advice, run `AlexaPi` in the background with the following command:

```
python /opt/AlexaPi/src/main.py &
```

Then, run `node main.js`. Again, it will say connect once it is connected.

You can now say, "Alexa, tell minnowboard to turn LED on."