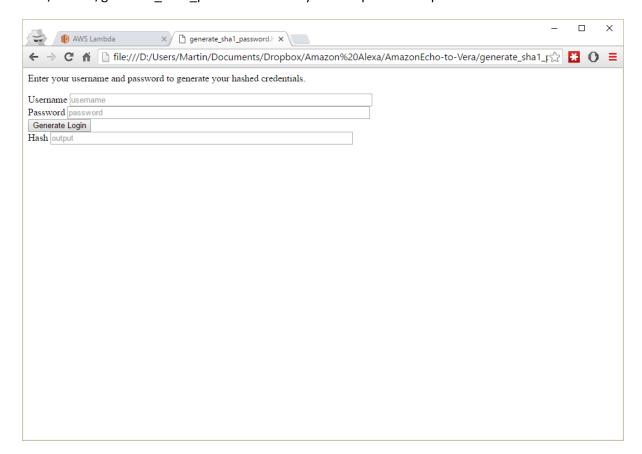
### **Vera Credentials**

First of all you need to get your vera remote access credentials. Download https://raw.githubusercontent.com/mmillmor/AmazonEcho-to-Vera/master/generate\_sha1\_password.html to your computer and open it with a web browser



Enter your username and password, and press Generate Login. That will calculate your hashed credentials, which you will need later on. These are the same credentials that you would use at home.getvera.com

# Set up the remote code

1) Sign up for a free AWS account at https://portal.aws.amazon.com/gp/aws/developer/registration/index.html?nc2=h\_ct



# Sign In or Create an AWS Account

What is your e-mail or mobile number?

#### E-mail or mobile number:



#### **New AWS Accounts Include:**

#### 12 months of access to the AWS Free Tier

Amazon EC2: 750 hrs/month of Windows and Linux t2.micro instance usage

Amazon S3: 5GBs of Storage

Amazon RDS: 750 hrs/month of Micro DB Instance usage Amazon DynamoDB: 25 GB of storage, up to 200 million requests/month

#### **AWS Basic Support Features**

Customer Service: 24x7x365 Support Forums Documentation, White Papers, and Best Practice Guides

Visit aws.amazon.com/free for full offer terms.

Learn more about <u>AWS Identity and Access Management</u> and <u>AWS Multi-Factor Authentication</u>, features that provide additional security for your AWS Account. View full <u>AWS Free Usage Tier</u> offer terms.



# Login Credentials

Use the form below to create login credentials that can be used for AWS as well as Amazon.com.



### About Amazon.com Sign In

Amazon Web Services uses information from your Amazon.com account to identify you and allow access to Amazon Web Services. Your use of this site is governed by our Terms of Use and Drivery Policy linked below

Enter your name, email and password

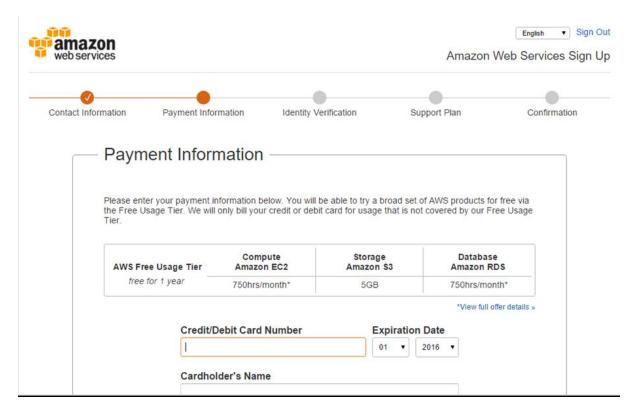
▼ Sign Out



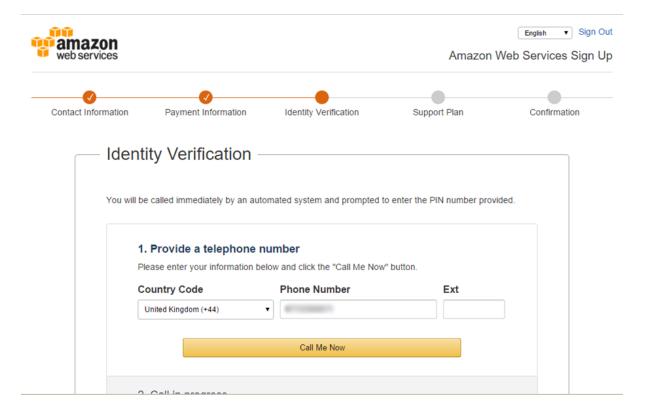


Security Check @

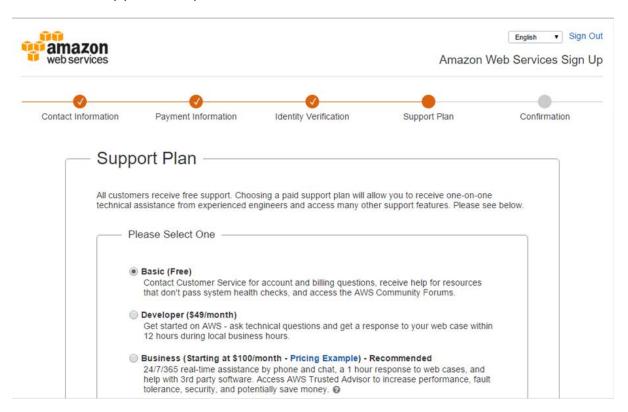
#### Enter contact details



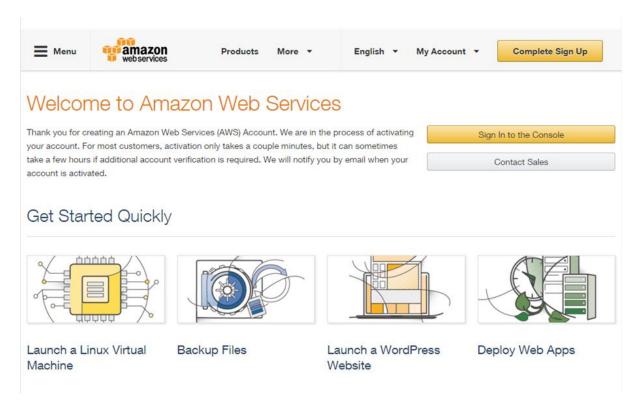
Enter a credit card number. Note, you will never be billed for the usage describe here - the Lambda service is free under 1 million hits a month (https://aws.amazon.com/lambda/pricing/)



### Amazon will verify your identity

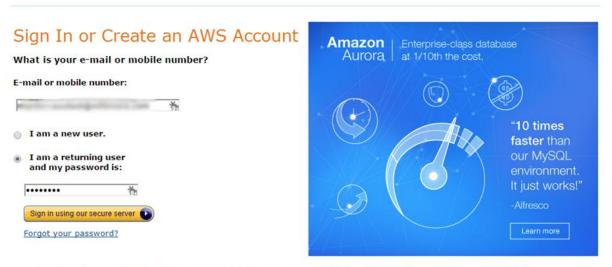


Pick the free support plan

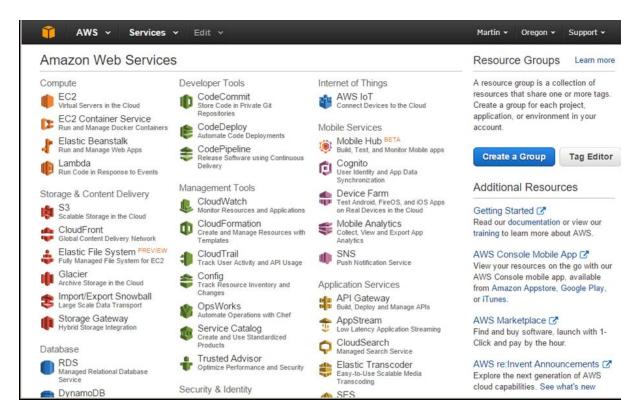


And that's your account created. Sign in with the account you just created





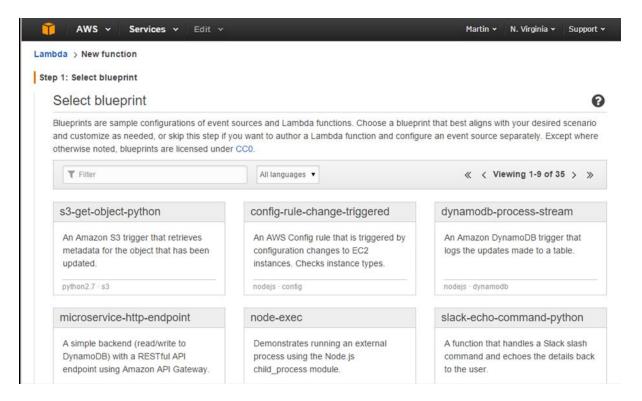
Learn more about <u>AWS Identity and Access Management</u> and <u>AWS Multi-Factor Authentication</u>, features that provide additional security for your AWS Account. View full <u>AWS Free Usage Tier</u> offer terms.



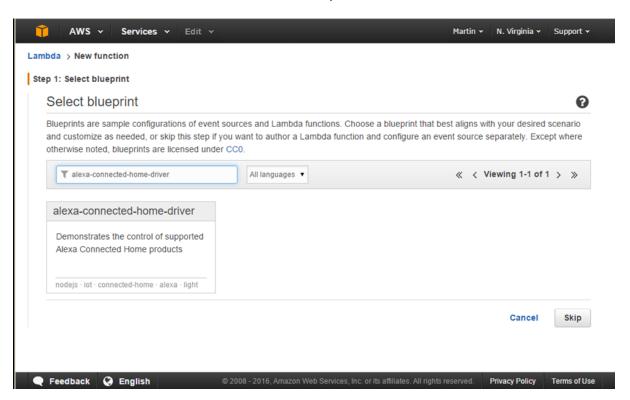
You will be taken to the AWS dashboard. Click on Lambda

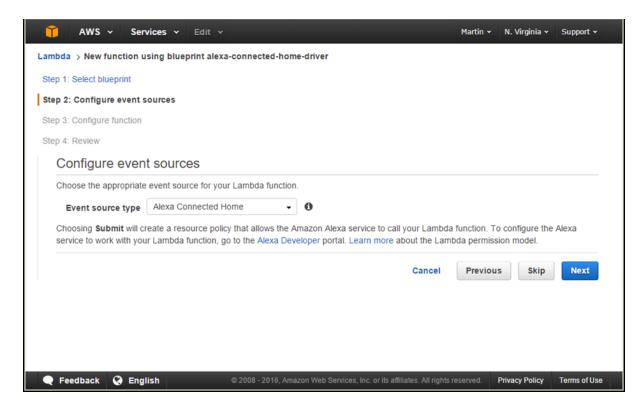


Region must be us-east-1. Click on the region link between your name and "Support" in the top right to change region to us-east-1 (N. Virginia) then press Get Started Now

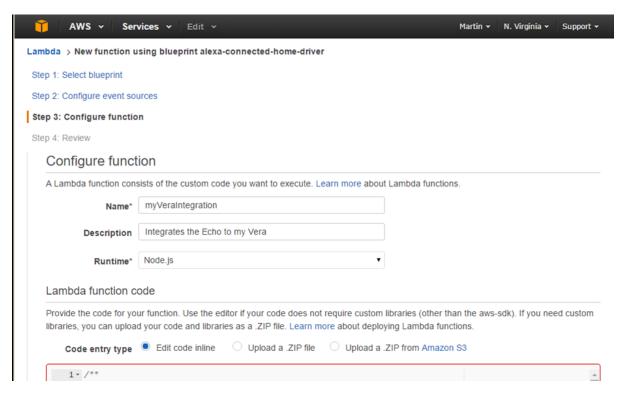


Enter "alexa-connected-home-driver" in the filter box, and click on that box





Leave the event source as Alexa Connected Home, and press Next



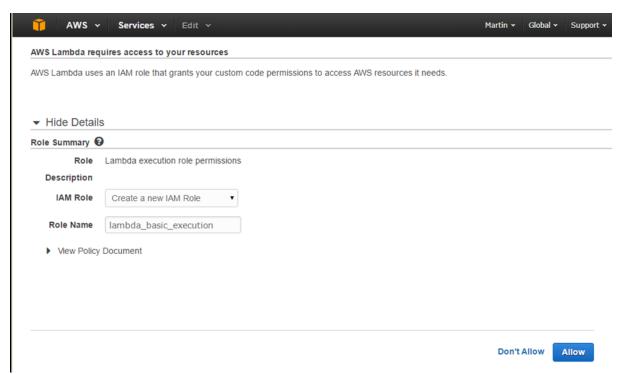
Enter any name and description for your code. Leave the runtime as Node.js. Scroll down to the code entry. Copy and paste the entire contents of

https://raw.githubusercontent.com/mmillmor/AmazonEcho-to-

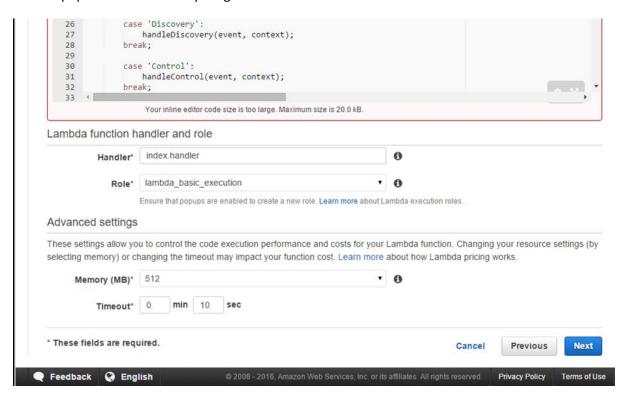
Vera/master/lambda/alexa lambda amazon oauth.js in there.

Scroll down and replace the text {enter your username} with your vera username, and the text {enter your encoded password} with the hashed vera password from the first step.

Scroll down to the bottom of the page. For Role, pick Basic Execution Role\* and it will open a new window to create a role;

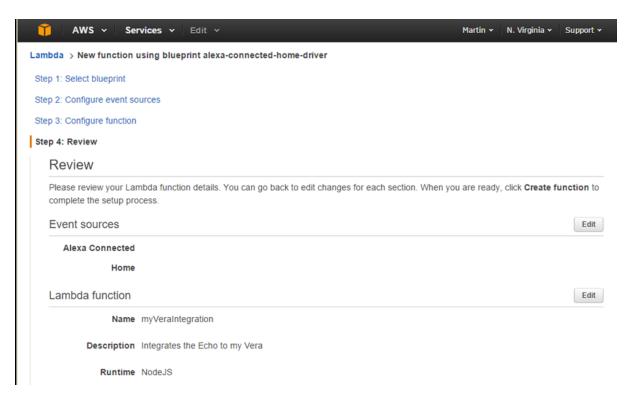


name the role lambda\_basic\_execution, and click Allow. This will go back to the previous page with the role populated. Leave everything else at the default values.



If it complains about the file being too big, remove the copyright text at the top of the page (everything between /\*\* and \*/)

Click Next



Scroll down and click Create Function.

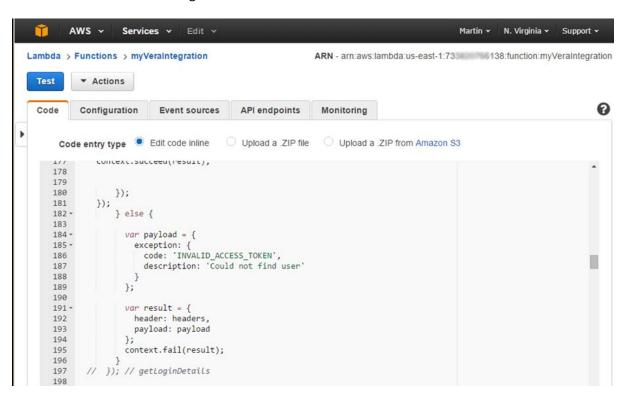
Click the Code tab, then the Test button, and paste the following in to the text box;

```
{
  "header": {
    "namespace": "Discovery",
    "name": "DiscoverAppliancesRequest",
    "payloadVersion": "1"
  },
  "payload": {
    "accessToken": "dummy"
  }
}
```

Scroll down, and you should see a list of your devices;

```
198
      199 }
      200
      202 * Control events are processed here.
203 * This is called when Alexa requests an action (IE turn off appliance).
204 */
      201 - /**
      205 · function handleControl(event, context) {
Execution result: succeeded (logs)
The area below shows the result returned by your function execution using the context methods. Learn more about returning results from your
function.
                                                                                                                                                "header": {
     "namespace": "Discovery",
      "name": "DiscoverAppliancesResponse",
     "payloadVersion": "1"
    "payload": {
      "discoveredAppliances": [
         "manufacturerName": "vera",
         "modelName": "vera scene",
         "version": "1",
Summary
      A- 4- ALL APA - APA-VAO-4---T--01/0/E-14---0-0:P7E-100(III | 1-1/1/---1/7/0
```

At the top of the page you will see the text "ARN - " followed by a string like arn:aws:lambda:us-east-1:XXX. You will need that string later.

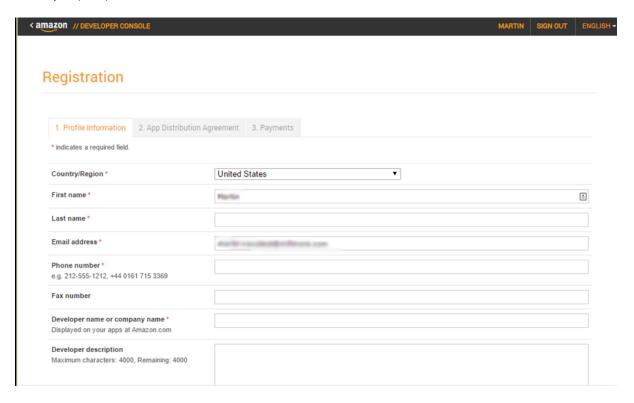


Well done - you are almost done!

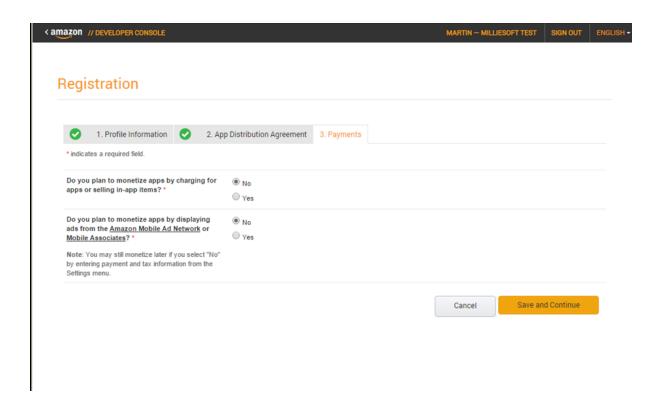
# **Setting up OAuth2**

Amazon expect everyone to use OAuth2 for login, but the Vera doesn't (which is why we hard coded the username and password). We still need an OAuth2 server though or the Echo won't do anything. Fortunately Amazon provide a simple one we can use.

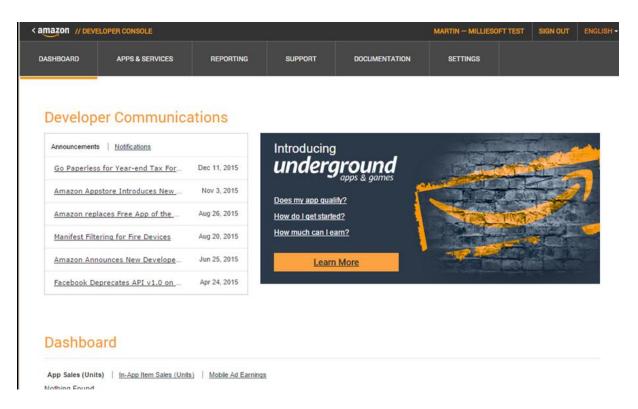
Go to https://developer.amazon.com/lwa/sp/overview.html. You will get a page to register as a developer (free)



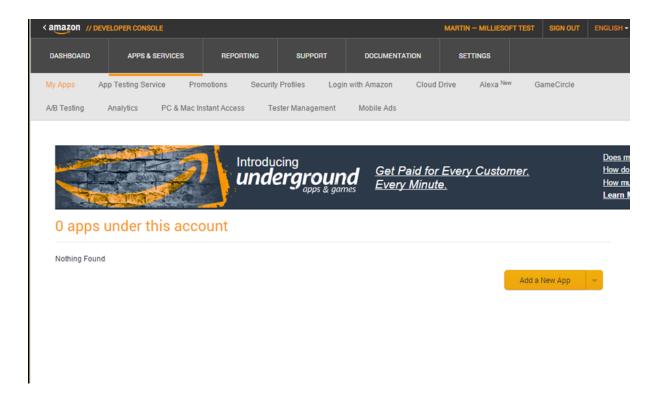
Fill out your details, then press Save and Continue. Accept the license agreement on the next page.



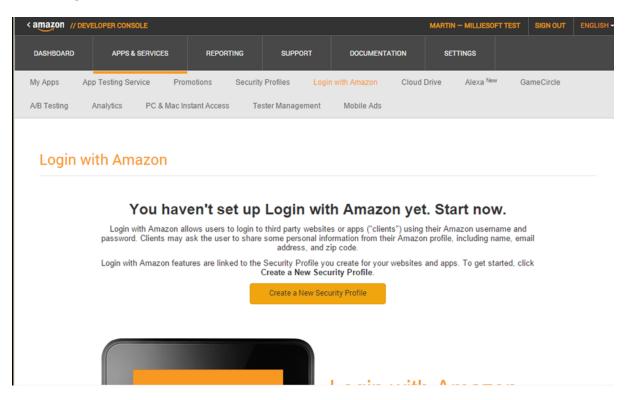
You aren't planning on releasing any apps, so select No to both questions, then press Save and Continue.



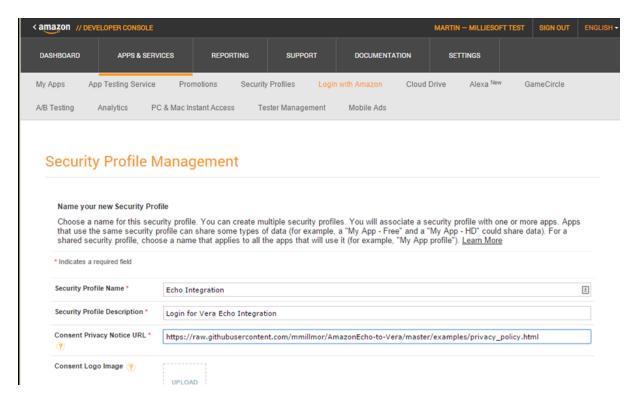
Click on Apps & Services



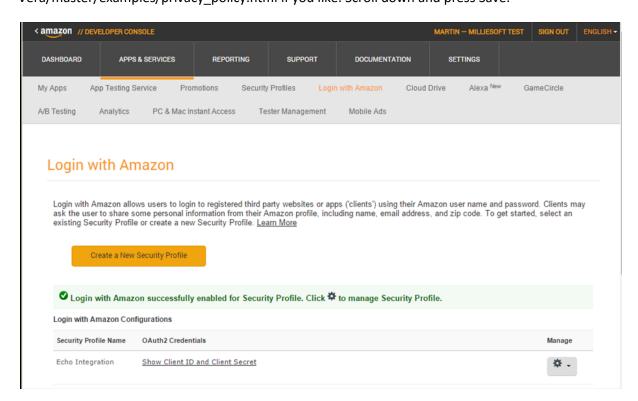
#### Click on Login with Amazon



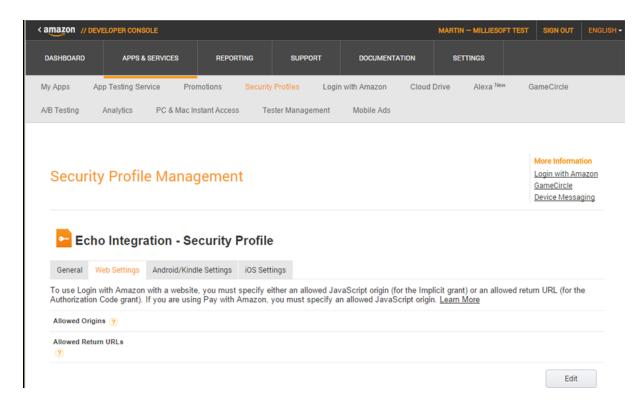
Click Create a New Security Profile



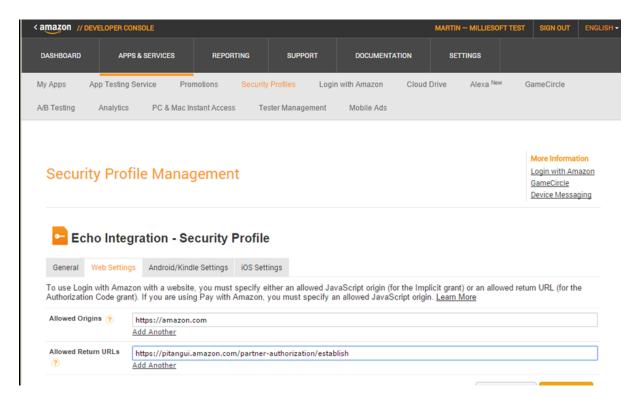
Enter any name and description and a URL to a privacy policy. You can use the one at https://raw.githubusercontent.com/mmillmor/AmazonEcho-to-Vera/master/examples/privacy\_policy.html if you like. Scroll down and press Save.



Click on the Manage menu and pick Web Settings



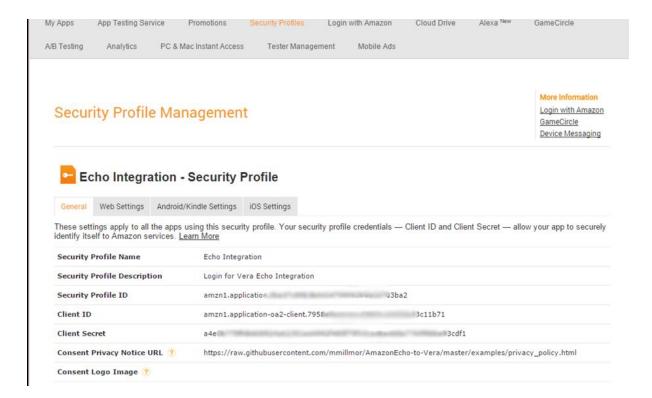
### Click Edit



Set Allowed Origins to https://amazon.com and Allowed Return URLs to https://pitangui.amazon.com/partner-authorization/establish

Click Save.

Click on General



In there you will see your Client ID and Client Secret. You will need those later

#### **Amazon Account Details**

Go to https://amazon.com/profile while logged in with the account that your Echo is connected to. The URL will change to have your customer ID in the URL. You will need that later



## **Contact Amazon**

The final step is to contact Amazon with your information so that they can wire it all together. Send an e-mail to alexa-coho-submissions@amazon.com with the following details

Skill adapter display name	The name for your integration, e.g. "Martin's Vera System"
Skill adapter description	A description, e.g. "Integration with my Vera"
AWS Lambda function name	This is the ARN string from the end of the coding step
OAuth Client ID	This is the Client ID from the Login step.
OAuth Client Secret	This is the Client Secret from the Login step
OAuth Scope	This is just the string "profile:user_id"
OAuth authorization URL	This is https://www.amazon.com/ap/oa

OAuth token URL	This is https://api.amazon.com/auth/o2/token
Amazon Customer ID	This is the customer ID from the last step above

Amazon will respond with confirmation that it has all been set up, and then you can run discover and control devices on your Echo.