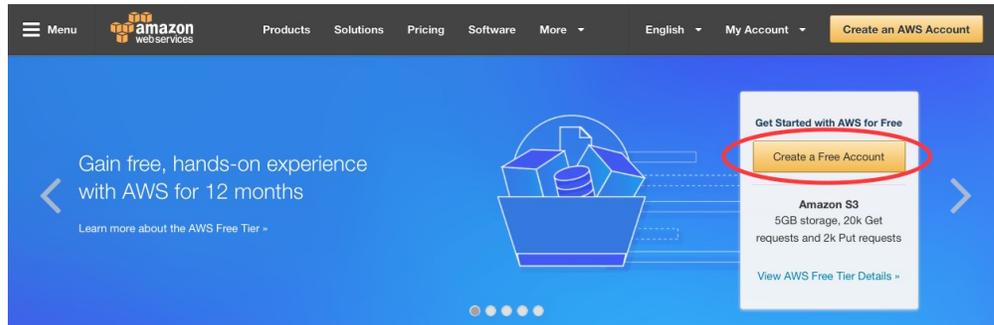


Let's Get Started

First Download Code from Schematic Below and then follow the instructions

Step #1 – Create an AWS Account



1. Open aws.amazon.com and then choose 'Create a Free Account'

1. Follow the online instructions.

2. You will need a Valid Credit Card to set up your account (you can use free tier)

3. Sign in to your Console



Sign In or Create an AWS Account

What is your e-mail or mobile number?

E-mail or mobile number:

I am a new user.

**I am a returning user
and my password is:**

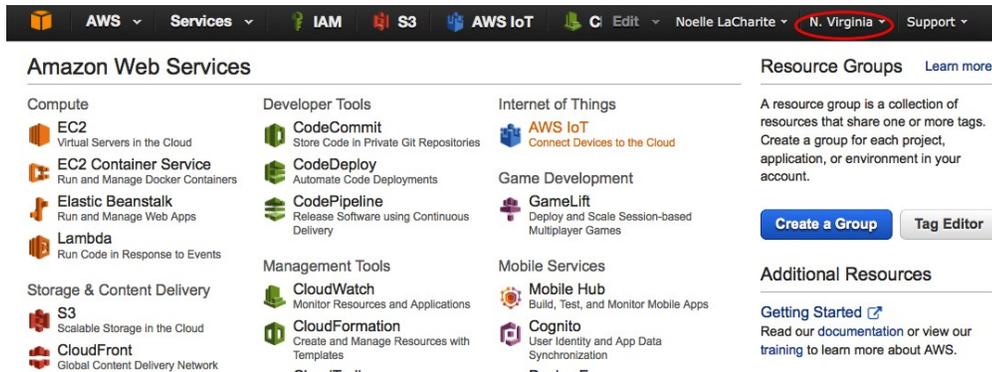
Sign in using our secure server 

[Forgot your password?](#)

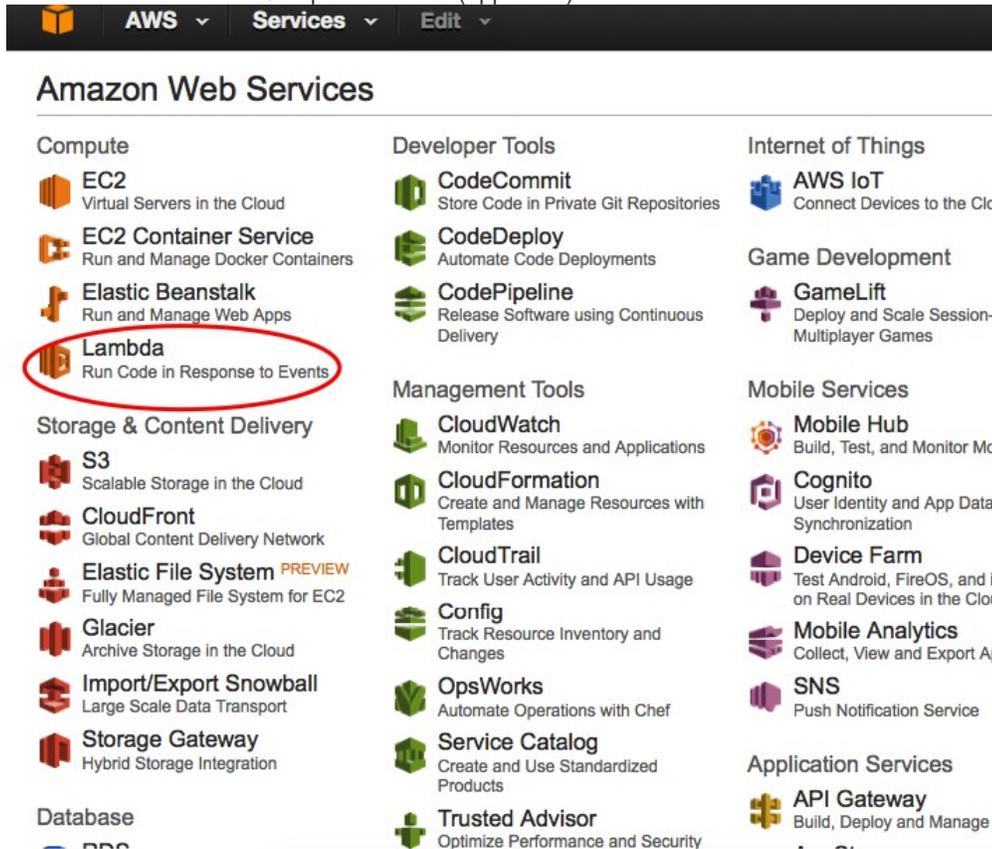


Step #2 – Create a Lambda Function

1. **IMPORTANT:** Select **US East (N. Virginia)** region (upper right). This is the only region that currently supports Alexa Skill development.



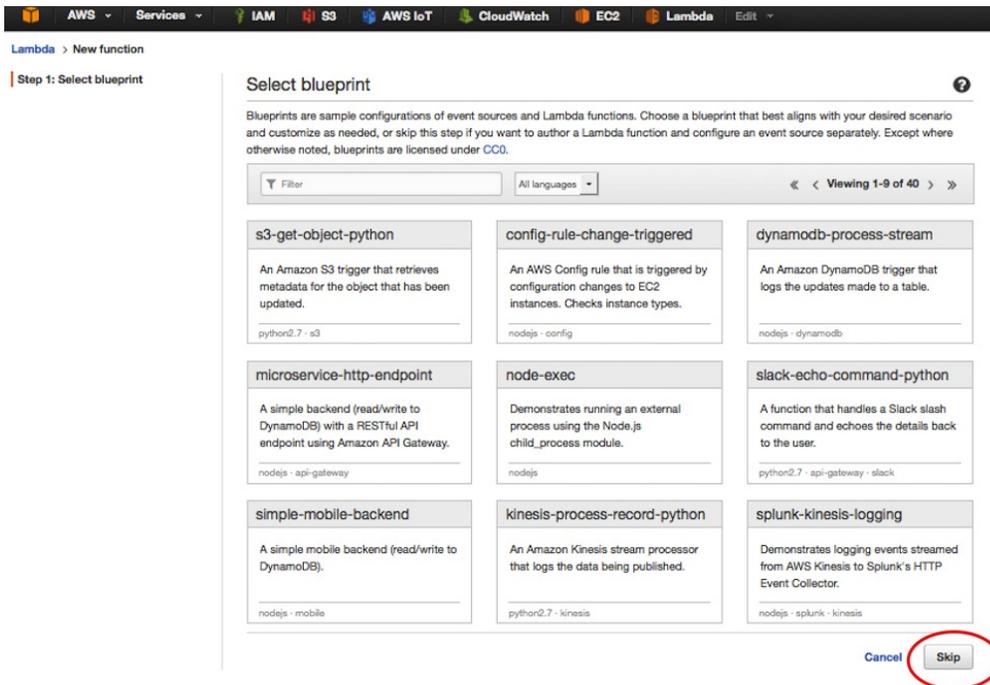
2. Select Lambda from Compute services (upper left)



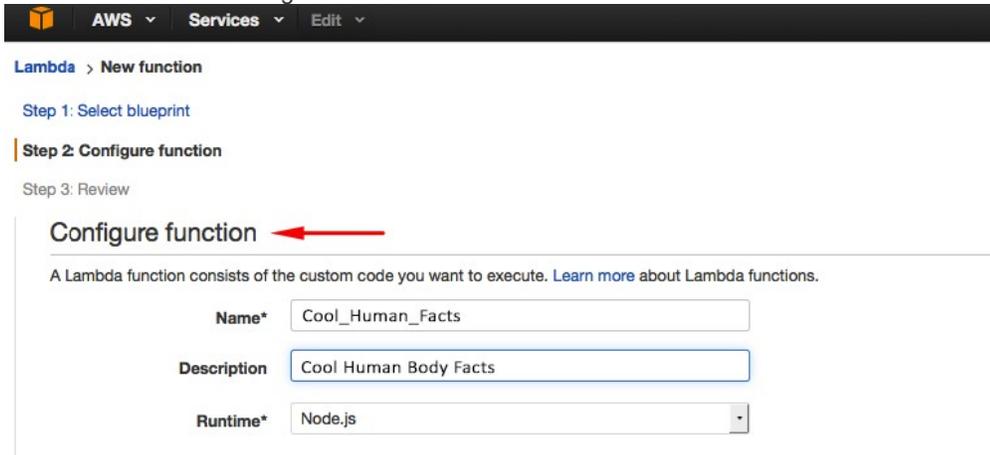
3. Select “Create a Lambda Function” to begin the process of defining your Lambda function.



4. At the bottom of the 'Select Blueprint' page, select “Skip”



5. You should be in 'Configure Function'



Enter the Name, Description, and Runtime for your skill as in the example.

6. Select the 'Code Entry Type' as 'Upload Zip File' and upload the zip file



7. Set your handler and role as follows:

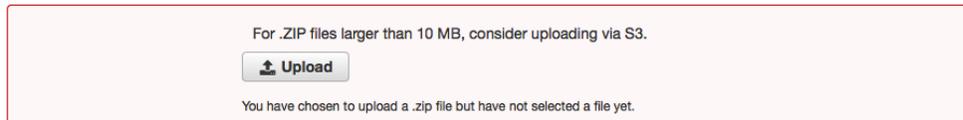
- Keep Handler as 'index.handler'

- Drop down the "Role" menu and select **"Basic execution role"**. This will launch a new tab in the IAM Management Console.

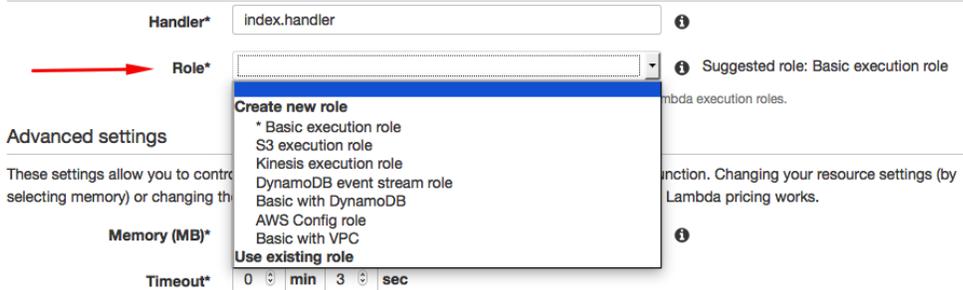
Lambda function code

Provide the code for your function. Use the editor if your code does not require custom libraries (other than the aws-sdk). If you need custom libraries, you can upload your code and libraries as a .ZIP file. [Learn more](#) about deploying Lambda functions.

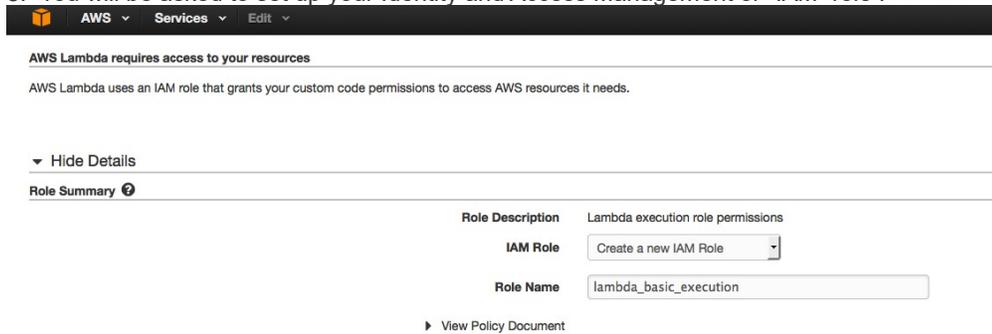
Code entry type Edit code inline Upload a .ZIP file Upload a .ZIP from Amazon S3



Lambda function handler and role



8. You will be asked to set up your Identity and Access Management or "IAM" role .



9. Accept the defaults to create a new IAM Role with a role name of lambda_basic_execution. Select **"Allow"** in the lower right corner and you will be returned to your Lambda function.



10. Keep the Advanced settings as default. Select **'Next'** and review. You should see something like below. Then select **'Create Function'**:

Lambda > New function

Step 1: Select blueprint

Step 2: Configure function

Step 3: Review

Review

Please review your Lambda function details. You can go back to edit changes for each section. When you are ready, click **Create function** to complete the setup process.

Lambda function

Edit

Name Cool_Human_Facts
Description Cool Human Body Facts
Runtime NodeJS
Handler index.handler
Role lambda_basic_execution
Memory (MB) 128
Timeout 3

Cancel

Previous

Create function

11. Next we need to create an Event source.

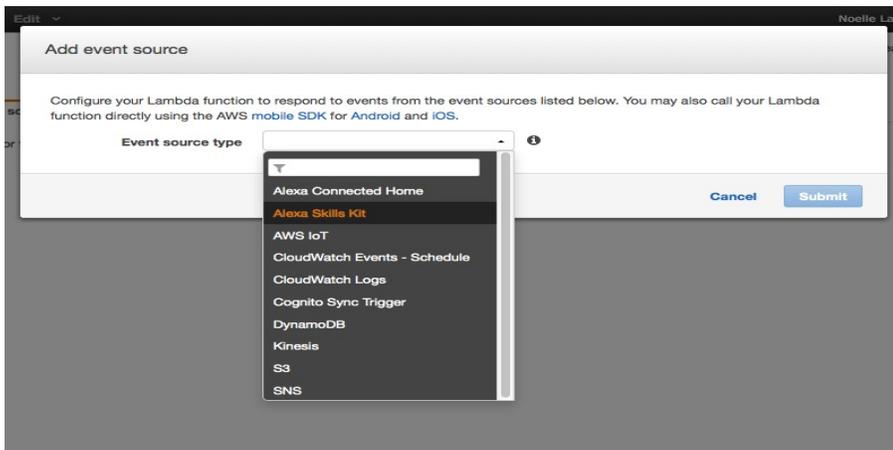
- In your Lambda function tabs, select **'Event Sources'**

The screenshot shows the AWS Lambda console interface. At the top, there are navigation menus for 'AWS', 'Services', and 'Edit'. The breadcrumb trail is 'Lambda > Functions > Cool_human_facts'. The function's ARN is displayed as 'arn:aws:lambda:us-east-1:024794826979:function:Cool_human_facts'. Below the breadcrumb, there are tabs for 'Code', 'Configuration', 'Event sources', 'API endpoints', and 'Monitoring'. The 'Event sources' tab is selected and highlighted. The main content area shows a table with one entry: 'Alexa Skills Kit' with a description 'To configure the Alexa service to work with your Lambda function, go to the Alexa Developer portal.' Below the table, there is a blue button with a plus icon and the text 'Add event source'.

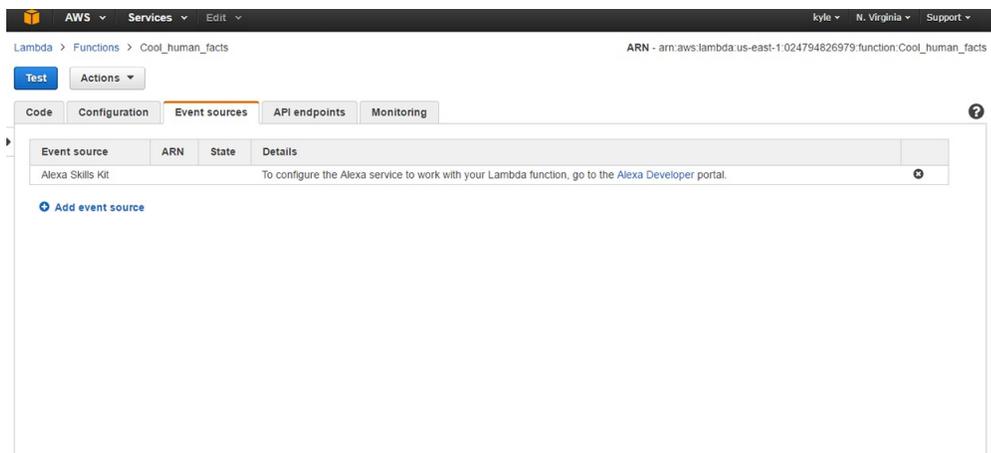
- Select **'Add event source'**

This is a close-up view of the 'Event sources' tab in the AWS Lambda console. The tabs 'Code', 'Configuration', 'Event sources', 'API endpoints', and 'Monitoring' are visible at the top. The main content area displays the message 'You do not have any event sources for this function.' Below this message, a blue button with a plus icon and the text 'Add event source' is circled in red.

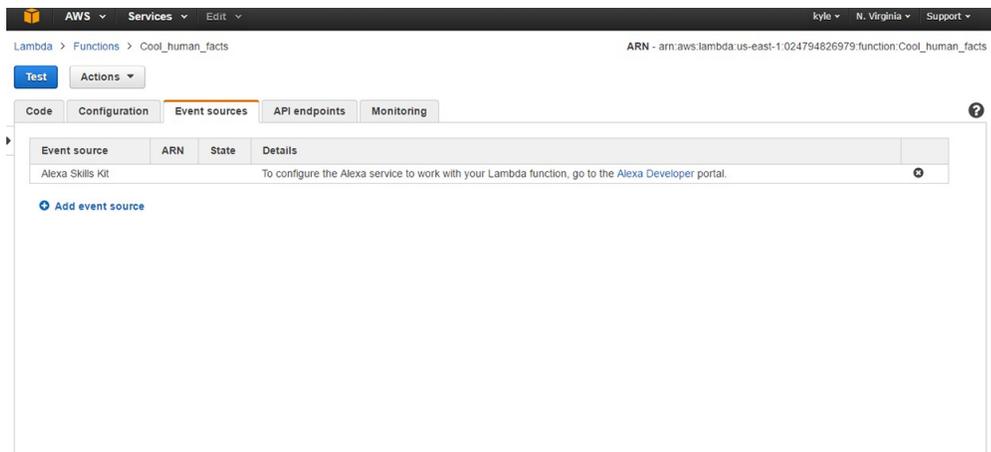
- Select **'Alexa Skill Kit'** from the dropdown:



- You should see the confirmation of creation of the free tier event source “Alexa Skills Kit”:



- Keep this tab open as you will need to copy the ARN for your Lambda function for use in the developer portal. You can find your ARN at the top right corner of the function page:



Step #3 – Set-up Your Alexa Skill in the Developer Portal

Skills are managed through the Amazon Developer Portal. You'll link the Lambda function you created above to a Skill defined in the Developer Portal.

1. Open a new tab and go to the [Developer Portal](#). Sign in or create a free account (upper right). You might see a different image if you have registered already or our page may have changed. If you see a similar menu and the ability to create an

account or sign in, you are in the right place.

The screenshot shows the Amazon Developer website. At the top, there is a navigation bar with the Amazon Developer logo and links for Apps & Games, Alexa, AWS, Services & APIs, Devices, Blog, and Support. A search icon and a "Sign In or Create Account" button are also visible. The main content area features a large banner for the Alexa Skills Kit with the text "Create new experiences with the Alexa Skills Kit" and "Be ready for customers whenever they ask for you... no hands required". Below the banner is a "Learn more" button. At the bottom, there is a dark navigation bar with icons and text for Apps & Games, Alexa, AWS, Services & APIs, and Devices.

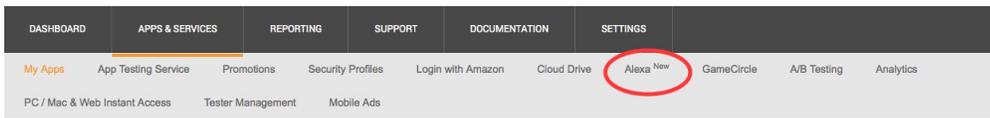
2. Once you've signed in, navigate to **Apps & Services**

The screenshot shows the Amazon Developer Console navigation bar. It features the Amazon logo and the text "DEVELOPER CONSOLE". Below this, there is a dark navigation bar with several menu items: DASHBOARD, APPS & SERVICES (circled in red), REPORTING, SUPPORT, and DOCUMENTATION.

Developer Communications

Announcements Notifications	
Year-end Tax Forms Available for Download	Jan 31, 2016
Go Paperless for Year-end Tax Forms	Dec 11, 2015
Amazon Appstore Introduces New App Categories to Improve Disco...	Nov 3, 2015
Amazon replaces Free App of the Day with Amazon Underground	Aug 26, 2015
Manifest Filtering for Fire Devices	Aug 20, 2015
Amazon Announces New Developer Capabilities for Alexa	Jun 25, 2015

3. Then select **Alexa**.

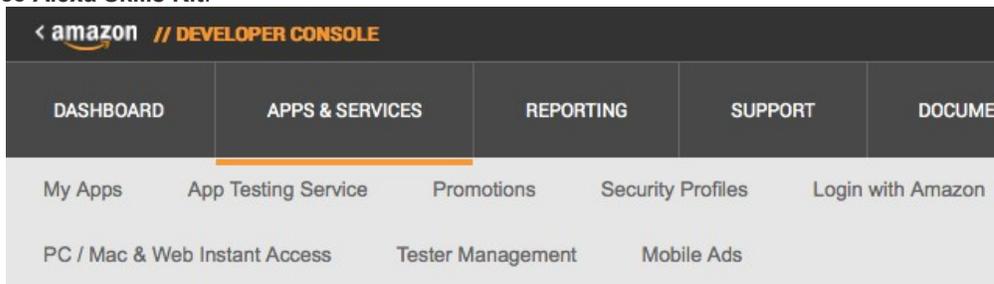


0 apps under this account

Nothing Found

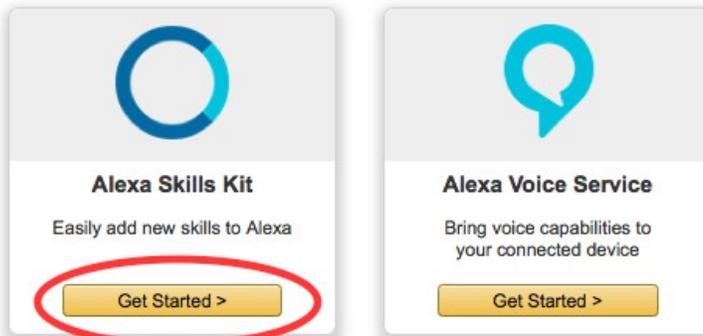
Add a New App

4. Choose **Alexa Skills Kit**:



Get started with Alexa

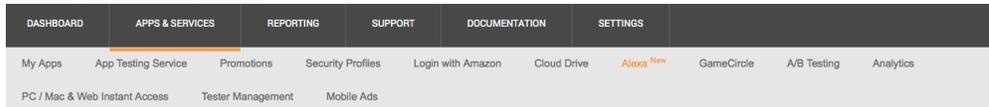
Add new voice-enabled capabilities using the Alexa Skills Kit, or add voice-powered experiences to yo



FAQs Contact Us App Distribution Agreement Trademark Guidelines Terms of Use

5. Here is where you will define and manage your skill.

Select **"Add New Skill"**:



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 [Developing an Alexa Skill as a Lambda Function](#).

We encourage you to visit the [Alexa Developer Forum](#) to collaborate with Alexa team members and fellow Alexa developers.

6. Make sure the radio button for the custom interaction model is selected for "Skill Type".

[< Back to the list of skills](#) [Getting started](#)

Create a New Alexa Skill

DEVELOPMENT

*Fields required for certification

Skill Information

Interaction Model

Configuration

Test

Publishing Information

Privacy & Compliance

Skill Type *
You can choose a Skill API or define the interaction model. [Learn more](#)

Custom Interaction Model
 Smart Home Skill API

Name *
The name of this skill. This is the name displayed in the Alexa App.

Invocation Name *
The name users will say to interact with this skill. This does not have to be the same as the skill name. The invocation name must comply with the [Invocation Name Guidelines](#).

7. Add the name of the skill. . Add the invocation name.
8. Select "Next"

[< Back to the list of skills](#) [Getting started](#)

Create a New Alexa Skill

DEVELOPMENT

*Fields required for certification

Skill Information

Interaction Model

Configuration

Test

Publishing Information

Privacy & Compliance

Skill Type *
You can choose a Skill API or define the interaction model. [Learn more](#)

Custom Interaction Model
 Smart Home Skill API

Name *
The name of this skill. This is the name displayed in the Alexa App.

Invocation Name *
The name users will say to interact with this skill. This does not have to be the same as the skill name. The invocation name must comply with the [Invocation Name Guidelines](#).

9. Now, notice you're on the interaction model.
10. Next, we need to define our skill's interaction model. Let's begin with the intent schema. Copy this from the intent schema Below

*Fields required for certification

Intent Schema

The schema of user intents in JSON format. For more information, see [Intent Schema](#).

Also see [built-in slots](#) and [built-in intents](#).

```

1 {
2   "intents": [
3     {
4       "intent": "GetNewFactIntent"
5     },
6     {
7       "intent": "AMAZON.HelpIntent"
8     },
9     {
10      "intent": "AMAZON.StopIntent"
11    },
12    {
13      "intent": "AMAZON.CancelIntent"
14    }
15  ]
16 }

```

11. The next step is to build the utterance list.
Providing these different phrases in your sample utterances will help improve voice recognition for the abilities you add to Alexa.
- Now it's time to add the Utterances. Copy/paste the sample utterances from below . Once they are copied, the screen

should look similar to the following image:

Sample Utterances*

Phrases end users say to interact with the skill. For better results, provide as many samples as you can. Note that you must select three of these to use as your Example Phrases on the Description tab.
For more information, see [Sample Utterances](#).

```
1 GetNewFactIntent a fact
2 GetNewFactIntent a Cool Human fact
3 GetNewFactIntent a Human fact
4 GetNewFactIntent tell me a fact
5 GetNewFactIntent tell me a Cool Human fact
6 GetNewFactIntent tell me a Human fact
7 GetNewFactIntent give me a fact
8 GetNewFactIntent give me a Cool Human fact
9 GetNewFactIntent give me a Human fact
10 GetNewFactIntent tell me trivia
11 GetNewFactIntent tell me a Cool Human trivia
12 GetNewFactIntent tell me a Human trivia
13 GetNewFactIntent give me trivia
14 GetNewFactIntent give me a Cool Human trivia
15 GetNewFactIntent give me a Human trivia
16 GetNewFactIntent give me some information
17 GetNewFactIntent give me some Cool Human information
```

12. Select **Save**. You should see the interaction model being built (this make a take a minute or 2). If you select next, your changes will be saved and you will go directly to the test screen. After selecting **Save**, it should now look like this:

Intent Schema*

The schema of user intents in JSON format. For more information, see [Intent Schema](#).
Also see [built-in slots](#) and [built-in intents](#).

```
14     },
15     },
16     },
17     {
18       "intent": "AMAZON.StopIntent"
19     },
20     },
21     },
22     {
23       "intent": "AMAZON.CancelIntent"
24     }
25   ]
26 }
27 }
28 }
29 ]
30 }
31 }
```

Custom Slot Types

Custom slot types to be referenced by the Intent Schema and Sample Utterances

For general information about custom slots, see [Custom Slot Types](#).

Example: TOPPINGS - cheese | onions | ham (note: newlines displayed as | for brevity)

Add Slot Type

Sample Utterances*

Phrases end users say to interact with the skill. For better results, provide as many samples as you can. Note that you must select three of these to use as your Example Phrases on the Description tab.
For more information, see [Sample Utterances](#).

```
1 GetNewFactIntent a fact
2 GetNewFactIntent a Cool Human fact
3 GetNewFactIntent a Human fact
4 GetNewFactIntent tell me a fact
5 GetNewFactIntent tell me a Cool Human fact
6 GetNewFactIntent tell me a Human fact
7 GetNewFactIntent give me a fact
8 GetNewFactIntent give me a Cool Human fact
9 GetNewFactIntent give me a Human fact
10 GetNewFactIntent tell me trivia
11 GetNewFactIntent tell me a Cool Human trivia
12 GetNewFactIntent tell me a Human trivia
13 GetNewFactIntent give me trivia
14 GetNewFactIntent give me a Cool Human trivia
15 GetNewFactIntent give me a Human trivia
16 GetNewFactIntent give me some information
17 GetNewFactIntent give me some Cool Human information
18 GetNewFactIntent give me some Human information
```

13. Select **Next**, and you will be taken to the Configuration screen. Add the ARN from the Lambda function you created in the AWS Console earlier. Select the **Lambda ARN (Amazon Resource Name)** radio button. To get the ARN, see steps a and b. Then, select **"No"** for account linking since we will not be connecting to an external account for this tutorial.

Getting started

*Fields required for certification

Endpoint*
 Lambda ARN url for Smart Home Adapter.
[More info about AWS Lambda](#)
[How to integrate AWS Lambda with Alexa](#)

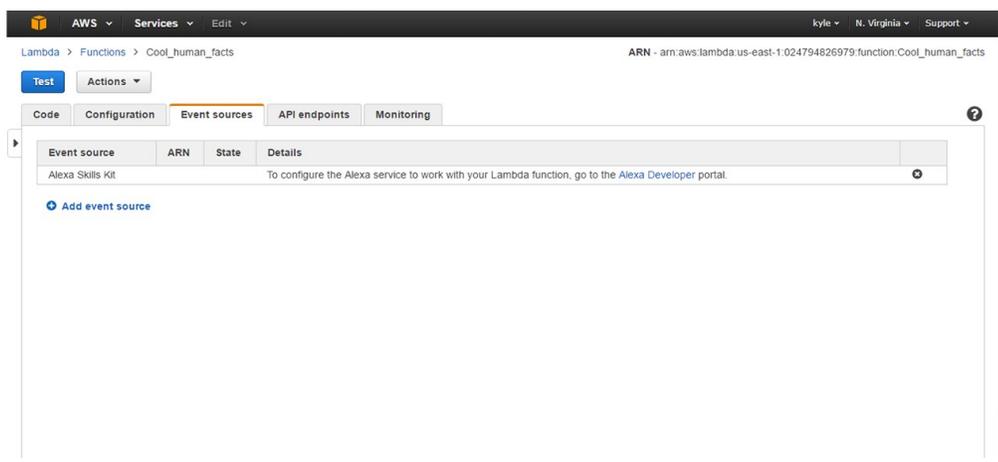
HTTPS Lambda ARN (Amazon Resource Name) ?

Account Linking

Do you allow users to create an account or link to an existing account with you? [Learn more](#) Yes No

Save Submit for Certification Next

1. In the AWS Management Console, you can copy the ARN in the upper right corner.



2. Paste the ARN into the Endpoint field.

Getting started

*Fields required for certification

Endpoint*
 Lambda ARN url for Smart Home Adapter.
[More info about AWS Lambda](#)
[How to integrate AWS Lambda with Alexa](#)

HTTPS Lambda ARN (Amazon Resource Name) ?

Account Linking

Do you allow users to create an account or link to an existing account with you? [Learn more](#) Yes No

Save Submit for Certification Next

Then select "Next".

We are now ready to test.

In the Test area, we are going to enter a sample utterance in the service simulator section and see how Alexa will respond.

Step #5 – Publish Your Skills

Select the Description area of your skill next:

Skill Information	✓
Interaction Model	✓
Configuration	✓
Test	✓
Publishing Information	⊗
Privacy & Compliance	⊗

Note: You can preview your skill's detail page in

Short Skill Description *

A quick introductory description, which will be shown in the Alexa App in the main list of skills, along with the first example phrase you enter below. Maximum characters: 160

Full Skill Description *

Explanation of the skill's benefits, what it does, how it works, how the user gets started, and any prerequisites, such as an account with your company or particular hardware. Use a conversational tone and correct grammar and punctuation. This description is shown to users in the Alexa App, on the skill's detail card.

Example Phrases *

Important: Many developers fail certification due to this step so please read carefully. Provide three phrases from your Sample Utterances, with any slots filled in with a valid value. These are displayed on the detail card in the Alexa App and should teach users how to interact with the skill. Include the wake word and your invocation name in the first phrase.

Category *

The general area of functionality of this skill.

Keywords

Search terms used to increase the discoverability of your skill. Use a comma or white space to separate your terms.

- Spend some time coming up with an enticing, succinct description. This is the only place you have to attract new users.

•

4. Once you have uploaded your icons, you should see a success message at the bottom of the screen.
5. **IMPORTANT:** Add the text "This is based on the Fact Skill Template" to the Testing Instructions section. This alerts the Certification team of your submission using this standardized template, smoothing the road to a faster publish. Finally, select **Next**.

[< Back to the list of skills](#) [Getting started](#)



Cool HumanBody Facts
LIVE
5/17/18

- Skill Information ✔
- Interaction Model ✔
- Configuration ✔
- Publishing Information ✔
- Privacy & Compliance ✔

***Fields required for certification**

Note: You can preview your skill's detail page in the Alexa App during development. In the Alexa App, click Skills, then find your skill in the list.

Short Skill Description *
A quick introductory description, which will be shown in the Alexa App in the main list of skills, along with the first example phrase you enter below. Maximum characters: 100

550+ Cool Human Body Facts

Full Skill Description *
Explanation of the skill's benefits, what it does, how it works, how the user gets started, and any prerequisites, such as an account with your company or particular hardware. Use a conversational tone and correct grammar and punctuation. This description is shown to users in the Alexa App, on the skill's detail card.

Cool Human Body Facts
550+ Cool Human Body Facts

Example Phrases *
Important: Many developers fail certification due to this step so please read carefully. Provide three phrases from your Sample Utterances, with any slots filled in with a valid value. These are displayed on the detail card in the Alexa App and should teach users how to interact with the skill. Include the wake word and your invocation name in the first phrase.

Alexa ask cool human body facts to tell me a fact
Alexa ask cool human body facts to give me some Cool Human Body inf
Alexa ask cool human body facts to give me a fact

Category *
The general area of functionality of this skill.

Education

Keywords
Search terms used to increase the discoverability of your skill. Use a comma or white space to separate your terms.

Cool, Human, Body, Facts

Images

Small Icon *
108 x 108px PNG (with transparency) or JPG. This is displayed in the Alexa App.



Large Icon *
512 x 512px PNG (with transparency) or JPG. This is used when displaying the skill in the Alexa App on larger screens.



Testing Instructions *
Please detail any special instructions to test your skill. Include any account or hardware requirements. This information is used by the certification team and is not displayed to customers.

This is based on the Fact Skill Template

Go to development
Back to the List of Skills

6. Privacy and Compliance.
 - a. On the Privacy and Compliance section, select 'No' for spending real money and collecting personal information. Privacy and Terms URL's are optional. Choose to certify that your skill can be imported to and exported from the US.
 - a. Select **"Save"**.
 - b. Select **"Submit for Certification"**
 - c. Finally, confirm your submission. Select **"Yes"** to submit your skill.