CREATE YOUR FIRST ALEXA SKILL

PRESENTED BY





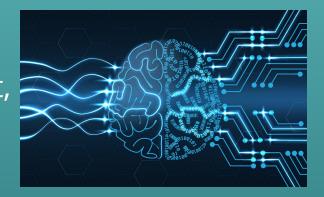
CapTech

Others Talk, We Listen.

WHAT/WHO IS ALEXA?

a **voice-controlled personal assistant** developed by Amazon. But also an example of...

Artificial Intelligence (AI). Alexa uses a service called Amazon Lex which uses deep learning to convert speech to text, and natural language understanding (NLU) to figure out the intent of the text.



"The age of touch could soon come to an end. From smartphones and watches, to home devices, to in-car infotainment systems, touch is no longer the primary user interface."

Source: Design News

Devices that use Alexa - The "Internet of Things"



new additions









What are Alexa Skills?

- Alexa has a few built-in features (music, reminders, timers, calling other users, weather, facts, calendar integration, etc.)
- Skills can be created by any person or company to add new capabilities to Alexa
- Anyone with a device that uses Alexa can choose and enable from thousands of skills

STEP 1: SET UP THE VOICE USER INTERFACE (VUI) USING THE ALEXA SKILLS KIT (ASK)



OPEN THE SAMPLE CODE IN GITHUB

https://github.com/techemstudios/inspiring-women-alexa

LOG INTO OUR DEMO AMAZON DEVELOPER ACCOUNT

http://developer.amazon.com

Username: alexa@techemstudios.com

Password: techme17

GO TO THE DEVELOPER CONSOLE

amazondeveloper



Amazon Developer Services and Technologies







Alexa

Build natural voice experiences that offer customers a more intuitive way to interact with technology

Amazon Appstore

Develop Android apps and games for Amazon Fire TV, Fire tablet, and mobile platforms

Amazon Web Services

Reliable, scalable, and inexpensive cloud computing services



Amazon Software + Games

Publish your desktop software and games on PC & MAC platforms



Dash Services

Build Amazon reordering experiences into your devices

SELECT CREATE SKILL



Your Alexa Consoles







Feedback forum

*** Make Money with Your Alexa Skills ***

On May 3, we announced general availability of in-skill purchasing (ISP) and Amazon Pay for Alexa Skills. With ISP, you can sell premium digital content that enriches your skill experience. With Amazon Pay, you can sell physical goods or services through your skill. You can also continue to make money for eligible skills that drive some of the highest customer engagement through Alexa Developer Rewards. Learn more.

Welcome to the new Alexa Skills Kit Developer Console

Curious about what's new? Watch the video overview or read about what's changed.

Alexa Skills



Create your first skill

NAME YOUR SKILL

Create a new skill

Cancel

Create a skill

Skill name

Enter skill name	
Skill name must have at least 2 characters.	0/50 characters
Default language	
English (US)	~

More languages can be added to your skill after creation

Choose a model to add to your skill

There are many ways to start building a skill. You can design your own custom model or start with a pre-built model. Pre-built models are interaction models that contain a package of intents and utterances that you can add to your skill.

Custom

Design a unique experience for your users. A custom model enables you to create all of your skill's interactions.

Flash Briefing

Give users control of their news feed. This pre-built model lets users control what updates they listen to.

"Alexa, what's in the news?"

Smart Home

Give users control of their smart home devices. This pre-built model lets users turn off the lights and other devices without getting up.

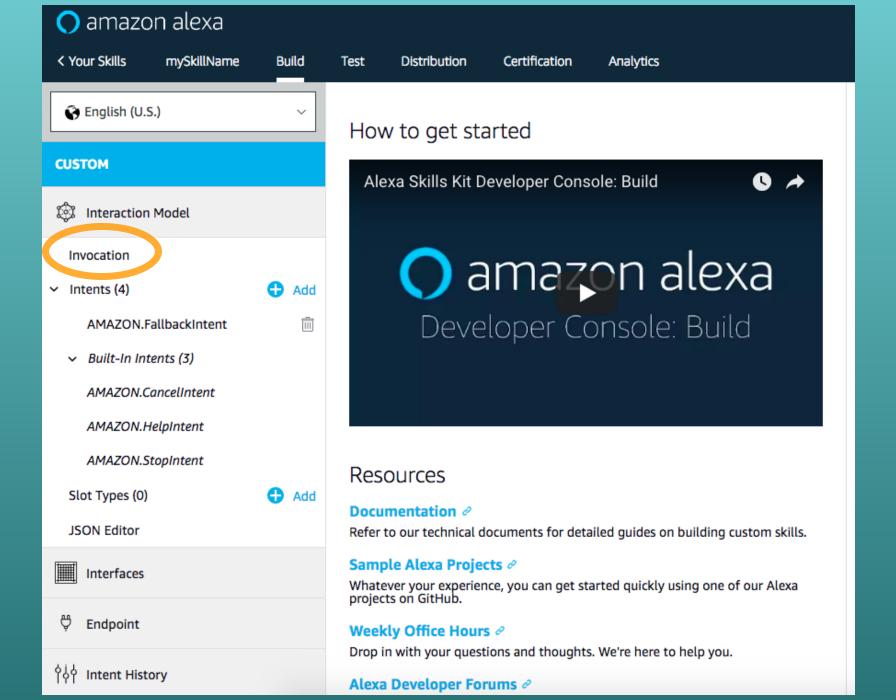
"Alexa, turn on the kitchen lights"

Video

Let users find and consume video content. This pre-built model supports content searches and content suggestions.

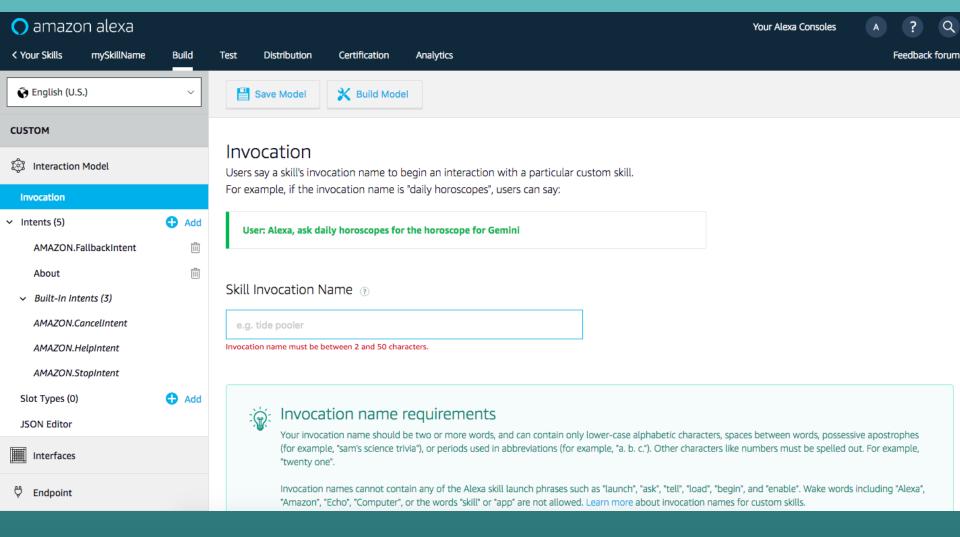
"Alexa, play Interstellar"

SET YOUR SKILL'S INVOCATION NAME



INVOCATION NAME

the name people say to invoke your skill





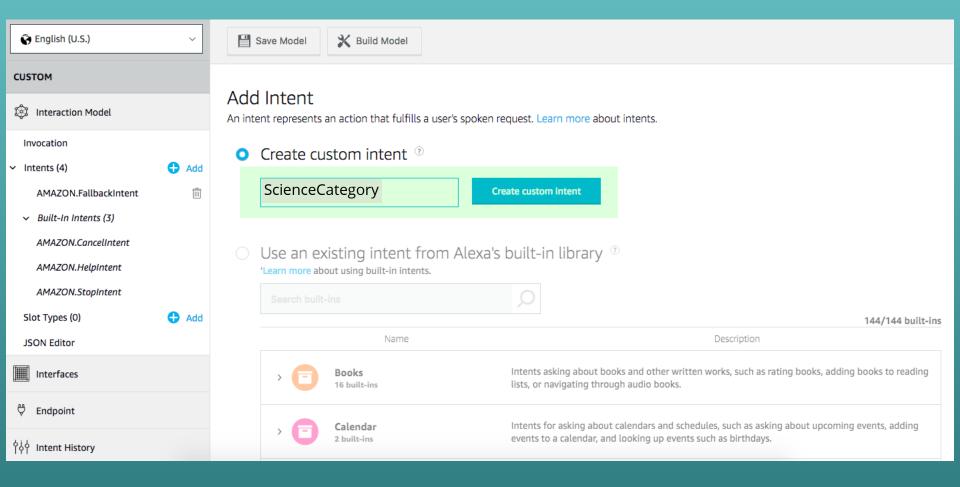
A voice user interface (VUI) allows people to use their voice to control computers and devices.

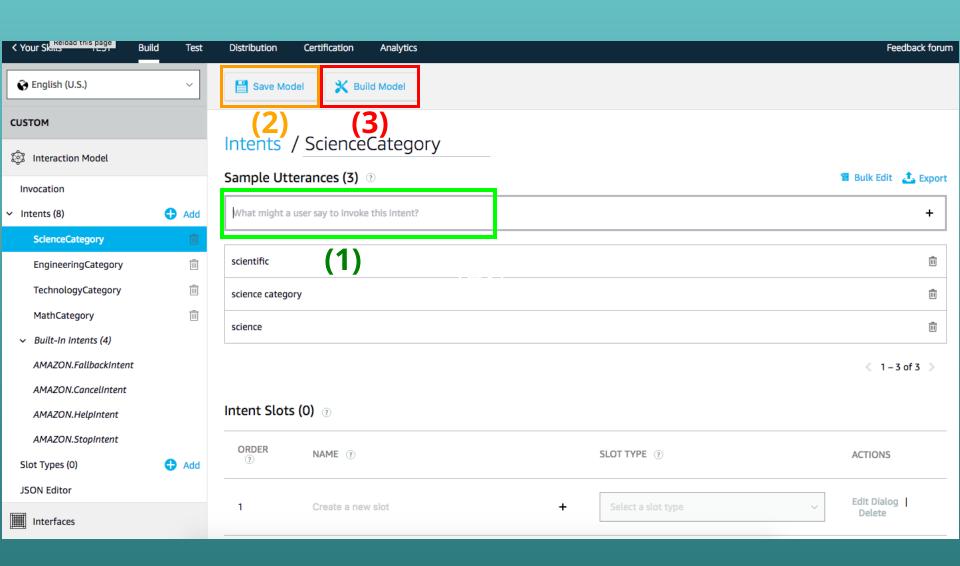
TERMINOLOGY





Intents





STEP 2: CREATE YOUR SKILL LOGIC USING AN AWS LAMBDA FUNCTION



COMPONENTS OF AN ALEXA SKILL



WHAT IS THE CLOUD?



The **cloud** is software and services that run on the internet (a.k.a. someone else's server) instead of running from your computer



Amazon Web Services (AWS) is a cloud services platform.

AWS Lambda is one of those services -- it lets you build and run your code online

LOGIN TO OUR DEMO AWS ACCOUNT

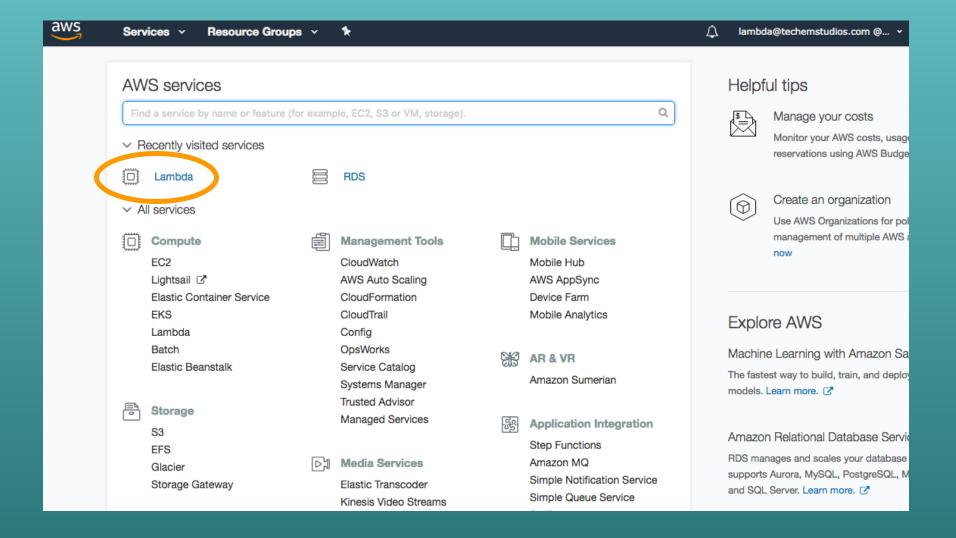
https://console.aws.amazon.com

Account ID: 694910018021

Username: lambda@techemstudios.com

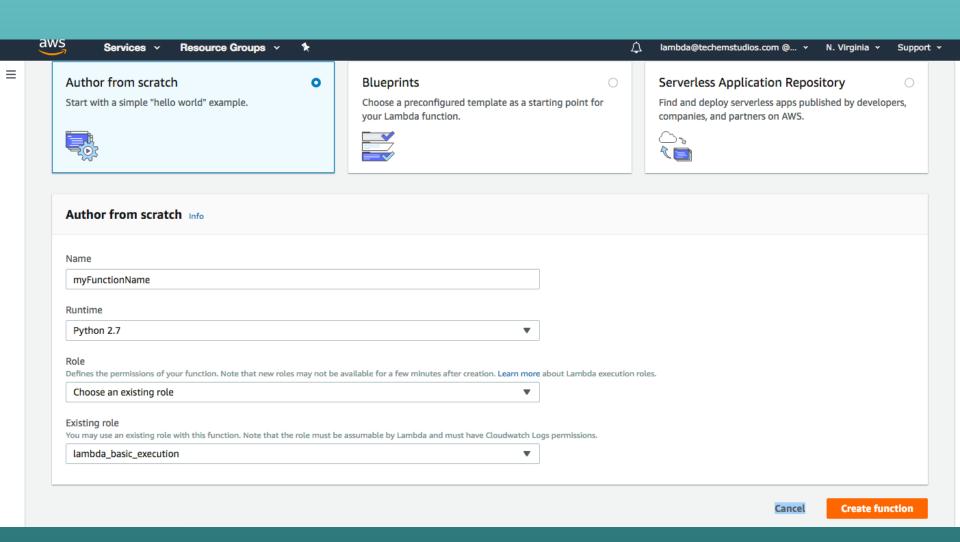
Password: techme17

AWS Lambda

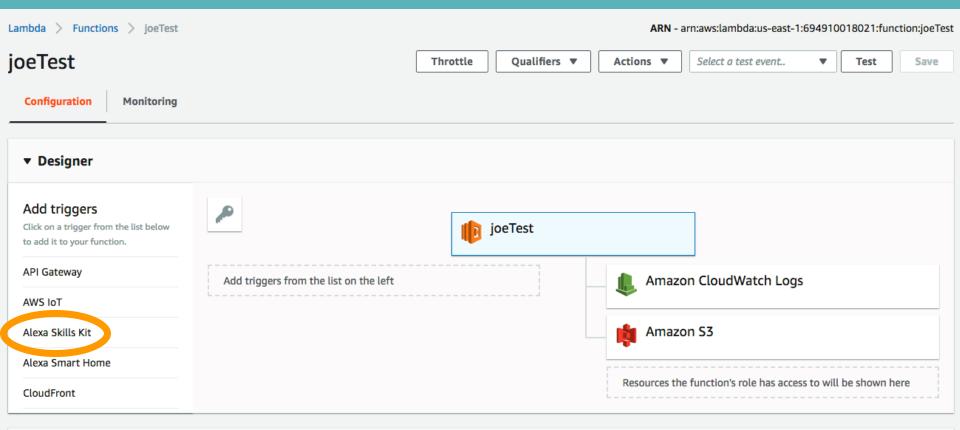


Create your Lambda function

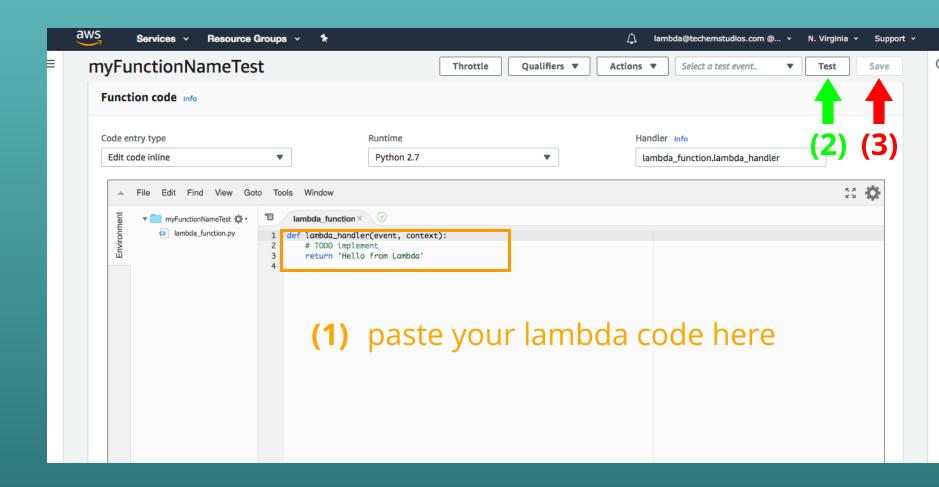
CREATE YOUR LAMBDA FUNCTION



ADD TRIGGER



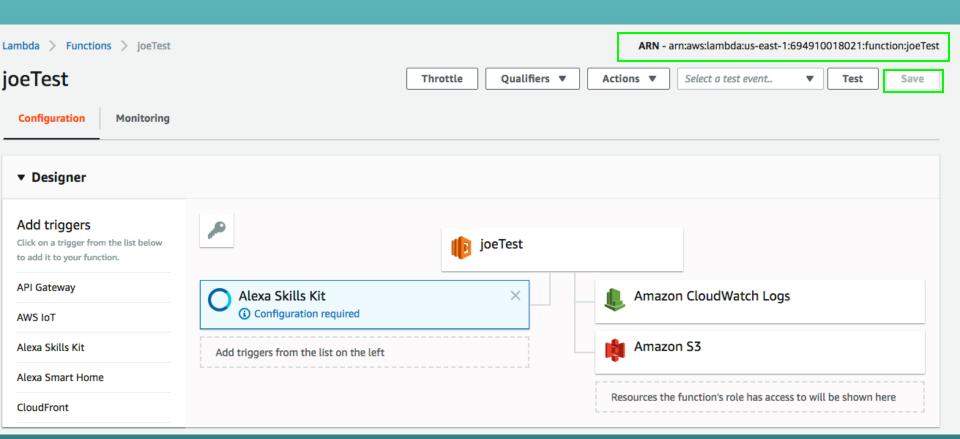
copy the code from src/main.py https://github.com/techemstudios/inspiring-women-alexa



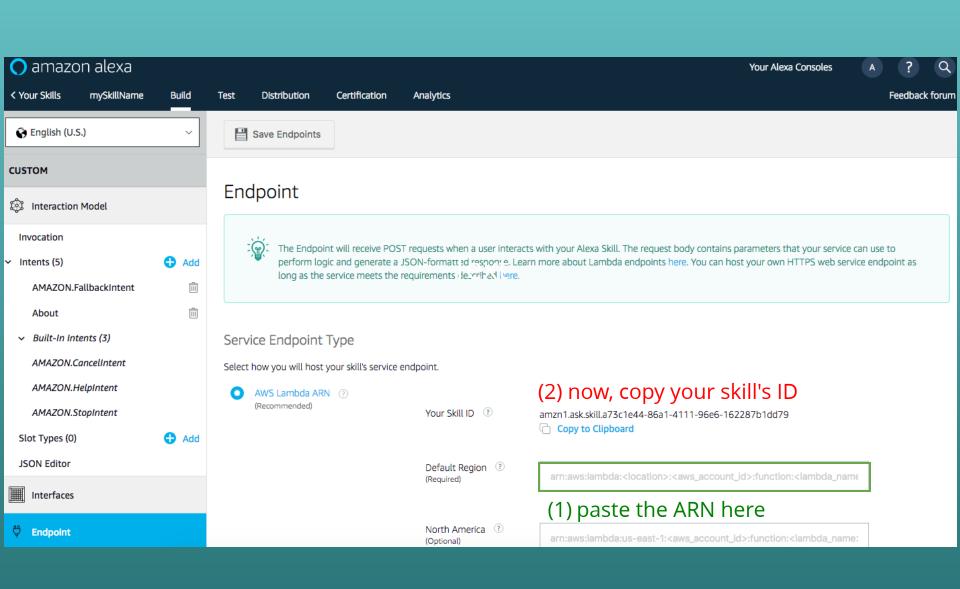
STEP 3: CONNECT YOUR VUI TO YOUR LAMBDA FUNCTION



COPY THE ARN



Go back to developer.amazon.com



Go back to your Lambda Function

Configure triggers

3 Skill ID verification is an easy way to verify the Skill ID in an incoming request from a Skill. To set this up, enter the Skill ID (also called Application ID) of your skill located in your Alexa Skills Kit dashboard. Learn more.

×

Skill ID verification

- Enable (recommended)
- Disable

Skill ID

(1) paste your copied Skill ID here

|

Add

Cancel

Lambda will add the necessary permissions for Amazon Alexa to invoke your Lambda function from this trigger. Learn more about the Lambda permissions model.

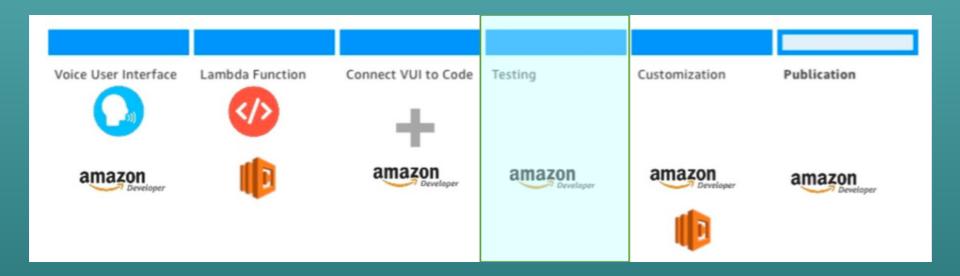
Your skill & your Lambda function can now communicate!

The Life Cycle of our Skill

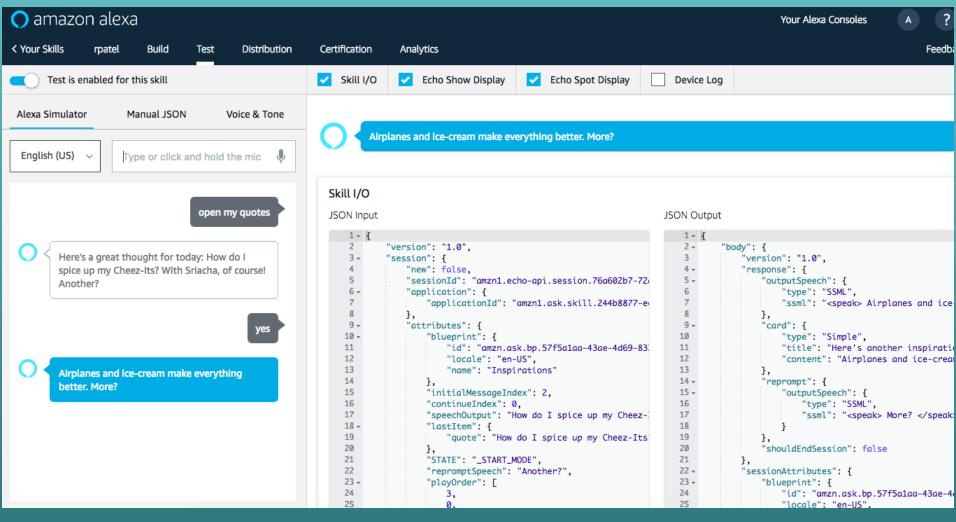
A look at how the Alexa Skills Kit process a request and returns an appropriate response



STEP 4: TEST YOUR ALEXA SKILL



Test ALL utterances to make sure the service response gives you what you'd expect.



Note: to test the **Launch** intent, you have to include the skill's invocation name after the word "open" or "launch" or "start".

But for all other intents, you can simply type the utterance by itself to test it.

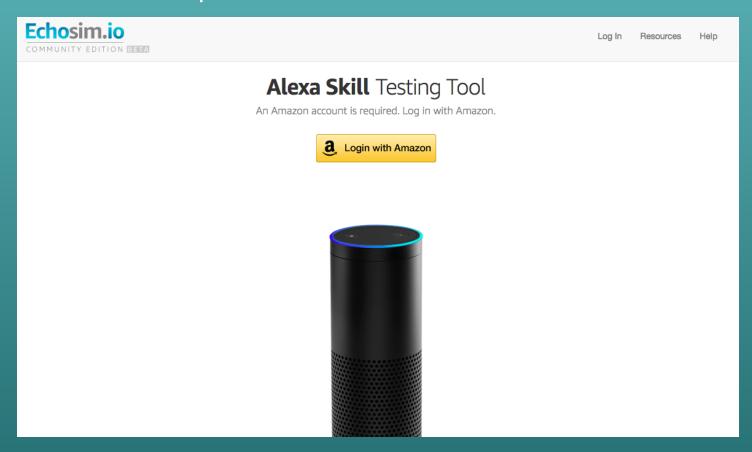
Troubleshoot Service Response Errors:

Copy the service request from the
Service Simulator and paste into the
Lambda's "Configure test events" modal.

Then click "Test". Error details will be under the Execution result's Details section.

Go to Echosim.io to perform verbal testing of your skill if you don't have an Alexa-enabled device.

You can also grant the developer.amazon.com to have microphone access to test with voice.



STEP 5: CUSTOMIZE THE SKILL TO BE YOURS



STEP 6: OPTIONAL - GET YOUR SKILL CERTIFIED & PUBLISHED

