



The Alexa Skills Workshop

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Aug 19, 2017

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Meet Me 😊



Workshop Overview

- Getting to know Alexa, Echo, AWS, ASK
- Configuring Alexa app and Echo Dot
- Account Setups
- Understanding the Lambda Server and connecting to it -Backend
- Designing the User Interface of our skill -Front End
- Testing the Skill Built
- Deployment and Certification
- In-Class task to develop a new skill

Now Its Your Turn!

- What is Amazon's Echo?
- What is Amazon's Alexa?
- What is the difference between the two?



Objectives

- Learn how to make your own Alexa skills using Amazon's Alexa Skills Kit and AWS Lambda Skills Service
- Testing the skill
- Deployment and Certification of the skill

Introducing Alexa

- An intelligent personal assistant
- Brain Behind Amazon's Echo
- Follows voice commands to create personal experiences



Alexa Facts

- More than 15,000 skills
- Launched in Nov 2014
- Operating system: iOS 8.0/ Android 4.4 or later
- Available in: English, German

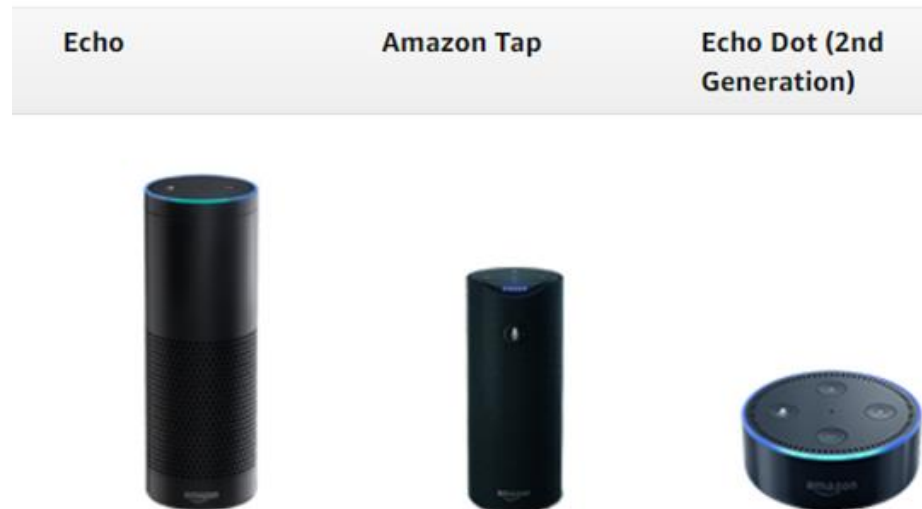


Amazon Echo

- Handsfree voice controlled speakers
- features like: play music, calendar, called *skills*
- Connects to Alexa, and responds to the name "Alexa"
- Can act as a home automation hub
- Available on June 23, 2015 in USA

The Difference

- All echo devices use Alexa- capability that empowers Echo
- The differences between echo devices are related to hardware configurations



Alexa Skills Kit - ASK

- Collection of self-service APIs, tools, documentation, and code samples
- makes it fast and easy for you to add skills to Alexa using Amazon's knowledge.
- Enables developers to build **skills**

What is a Skill?

- In the Echo/Alexa world, a skill is like an app.
- A program that you can add to your Echo/Dot/Tap to enable some new, well, skills.
- Amazon released the Alexa Skill Kit to the public.
- A skill added to account will work with all the Alexa devices

Amazon Web Services

- Secure cloud services platform
- Compute, storage, content delivery
- SAAS, PAAS services; both public and hybrid clouds
- Netflix, Kellogg's, GE gas



Setting up Account

- AWS :

<https://aws.amazon.com/what-is-cloud-computing/>

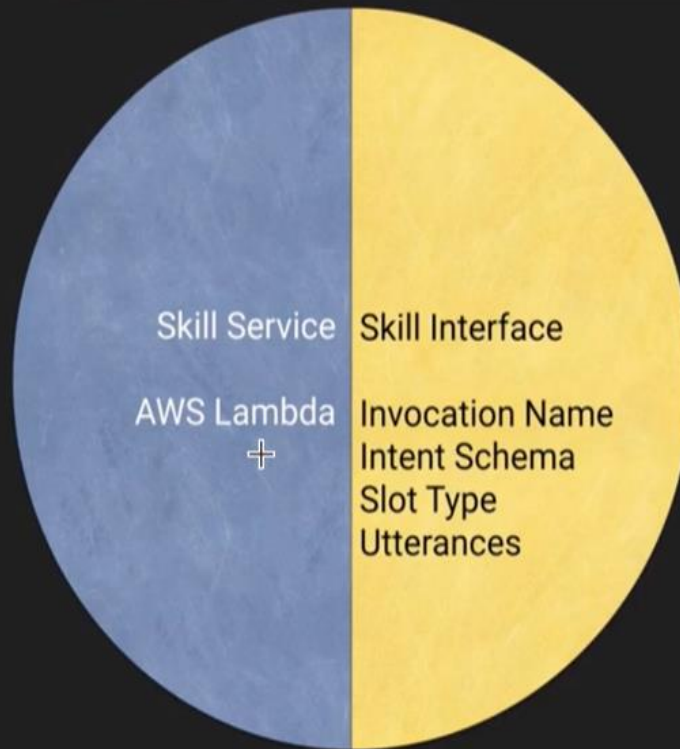
- Developers account:

<https://developer.amazon.com/>

Lambda Server

- Back-end Server that ASK sends request in the form on **Request Object**
- eliminates some of the complexity around setting your server:
- No need of administer or manage any of the compute resources for your service..
- Access to execute your function is controlled by permissions within AWS instead.
- There is no need to provision or continuously run servers.
- Economical

Execution Model



All Set!

Building Our Skill

Thank you!

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