Build, Deploy and Debug A Chatbot

Arun Gupta, @arungupta

STAR WARS CHATBOT

Docker Captain Java Champion JavaOne Rock Star (4 years) NetBeans Dream Team Silicon Valley JUG Leader Author Runner Lifelong learner



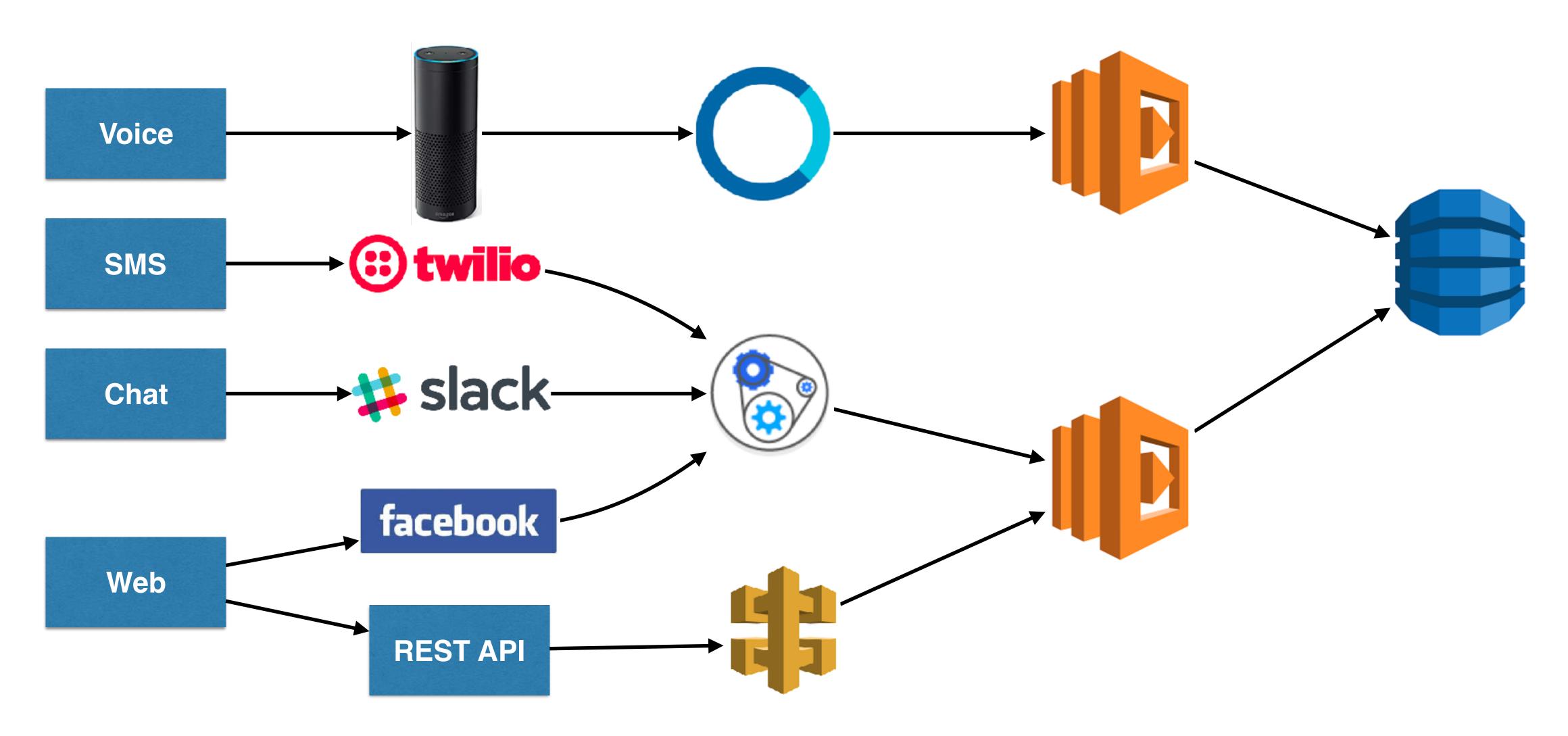
Alexa, what color is Luke's lightsaber?

Alexa, where is Hansolo from?

Alexa, who said "Do or do not, there is no try"?

What is Chatbot?

Chatbot Architecture

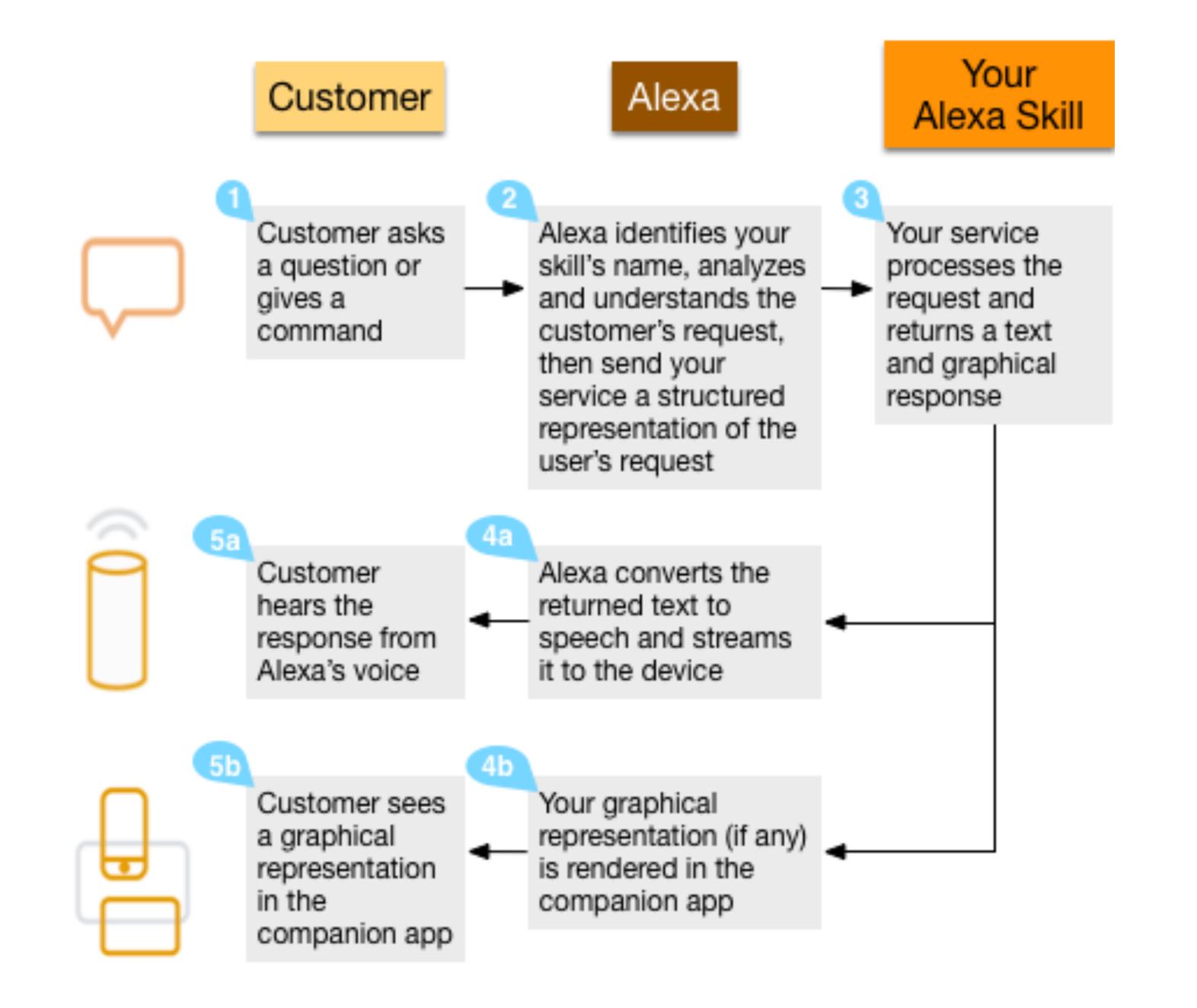


Build First Alexa Skill using Java

- Using Alexa Skills Kit
 - Custom skill
 - Smart Home Skill API
 - Entertainment Device Control
 - Video Skill API
 - Flash Briefing Skill API

Components of Alexa Skill

- Intents: Actions that users can do with your skill
- Utterances: Words and phrases users say to invoke those intents
- Invocation name: Identifies the skill
- Resources (optional): Images, audio, video files included in the skill
- Cloud-based service: Accepts intents and acts upon it
- Configuration: Brings it all together



Steps to Build a Skill

Define utterances Define Intent Schema Map utterances to Intent

Handle Intent in Speechlet

Deploy Lambda Setup skill in Developer Portal

Steps to Build a Skill

- Design a Voice User Interface
 - Define intent schema
 - Map utterances to intent
 - Handle intent in Speechlet
- Setup the Skill in Developer Portal

Security

AmazonServiceRoleForLexBots

Monitoring

- CloudWatch
- X-Ray

CI/CD Pipeline

References

github.com/arun-gupta/chatbot