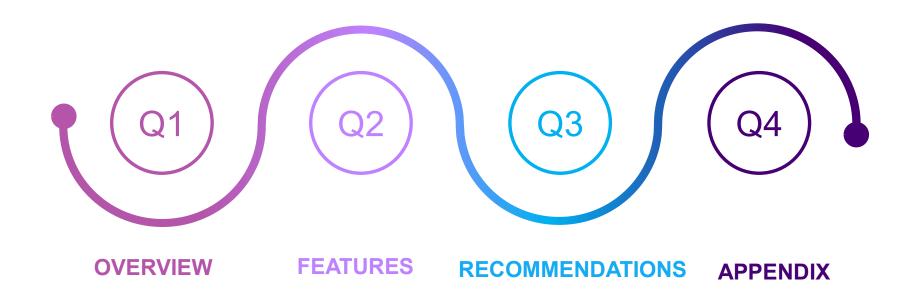
Amazon Lex Version Migration

Ultimate upgrade for the next generation features.

Let There Be Change



AGENDA



OVERVIEW

WHAT IS

- Lex is a fully managed artificial intelligence (AI) service with advanced natural language models to design, build, test, and deploy conversational interfaces in applications.
- It is an AWS service for building conversational interfaces using voice and text.
- It uses natural language understanding (NLU) and automatic speech recognition (ASR) to provide lifelike user experiences.
- It manages the dialogue and dynamically adjusts the responses in the conversation.





Simplicity and Costeffectiveness

Seamless deployment and scaling



Enhanced multilingual capability





WHAT'S NEW!

- The new Amazon Lex V2 has been entirely refactored to let developers develop, update and manage their chatbots better
- New features like Visual Conversation Builder makes it easier to build, deploy, and manage bots with Lex V2 Console
- Lex V2 API follows a simplified information architecture where intent and slot types are scoped to a specific language.

FEATURES (1/3) Lex V2 – Add-on Features

- Custom Vocabulary, Runtime hints to slots
- Spell-by-word and spell-by-letter styles
- Introduction of new slot types
- Multiple value slots & Composite slots

Built-in grammar slot type for better utterance recognition

Grammar weights boost a phrase during speech recognition

Better Speech/Text recognition

Grammar Support

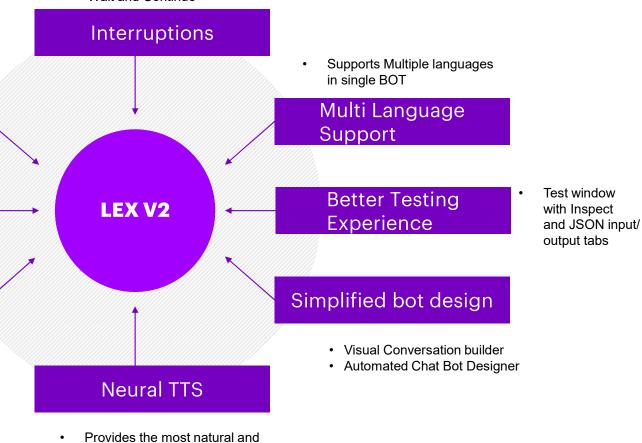
Multiple Input Types

Configurable input types supports DTMF along with existing Audio and Text

Barge-In

· Wait and Continue

human like TTS voice support

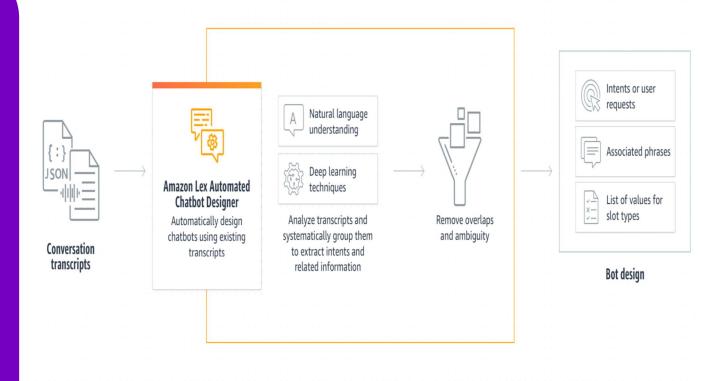


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FEATURES (2/3)

Automated Chatbot Designer

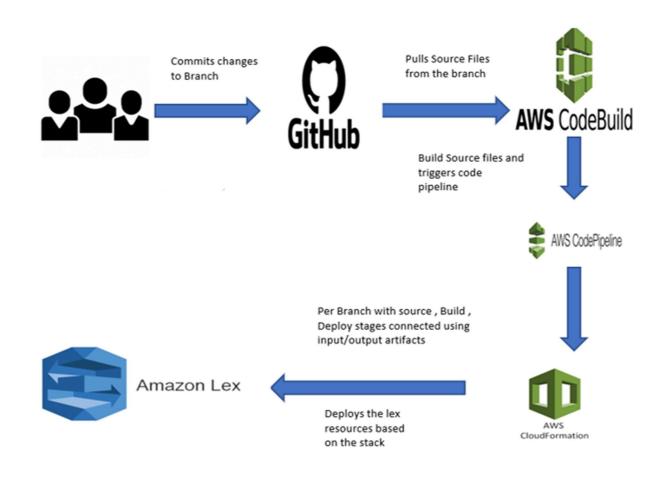
- Amazon Lex V2 provide a new feature called "Automated Chatbot Designer" that allows to create a bot with existing conversation transcripts in hours rather than weeks.
- ➤ It can analyze 1000s of lines of transcripts in a couple of hours using machine learning (ML) and provide an initial bot design with common intents and the information needed to fulfill them.
- ➤ That bot design can be iterated to deliver effective conversational experiences with additional prompts which is then built, tested, and deployed.



FEATURES (3/3)

CloudFormation Support

- Amazon Lex supports AWS CloudFormation, which helps us to provision resources like Bot, Bot Version, Bot Alias, and Resource Policy quickly and consistently and manage them through their lifecycles.
- These templates describe the resources that a user want to provision in their AWS CloudFormation stacks.
- These templates will be deployed as a DevOps pipeline within AWS leveraging various tools and services like GitHub, Code Build, Code Deploy and Code Pipeline



RECOMMENDATIONS

Use the Migration tool provided by AWS Lex V2 Console for bot migration through AWS CLI is available for the same.

Automated Chatbot
Designer can be used
to create initial bot
design in hours, and it
needs a minimum of
1000 transcript files(one
file per conversation) for
the analysis.

Automated Chatbot Designer supports conversation transcript files using the Contact Lens for Amazon Connect schema. The conversation transcripts need to be transformed to the format used by the chatbot designer, for different contact center application. Refer Input transcript format.

Considering Lex V2
New features, added
benefits for customers a
nd ease of migration
from V1 to V2, we
recommend Lex V2 to
build Chatbot and Voice
Bot applications.

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APPENDIX - USE CASES

Call Center Application Information **Enterprise** al Bots Bots **Bots Bots** Apply ASR and NLU to Bots for everyday Build powerful interfaces Streamline enterprise manage and can replace consumer requests like to mobile and PC work activities and agents for tasks like current events, weather applications like book improve efficiencies like changing passwords, updates, sports scores, tickets, order food, check sales data. checking balances, customer status, manage bank accounts, booking appointments, marketing performance, etc. etc. Copyright © 2023 Accenture. All rights reserved.

APPENDIX - BENEFITS











No deep learning expertise required -Basic conversation flow is sufficient to create a

Reduces manual effort and time - Automated Chatbot Designer reduces manual effort in conversation design by analyzing 1000s of lines of transcripts in a couple of hours using machine learning (ML) Expedite initial conversation design automatically that can then be refined to launch conversational experiences faster.

Improves customer experience Automated Chatbot
Designer helps the bot to understand customers better by minimizing ambiguity between intents, adding well defined and well separated intents to avoid frustration.

well defined and well separated intents to avoid frustration.

Automated
deployment of bot
and its associated
resources are easy
with Lex V2 as it
supports AWS
CloudFormation
whereas V1 supports
custom resources
deployment

custom resources deployment

THANK YOU

