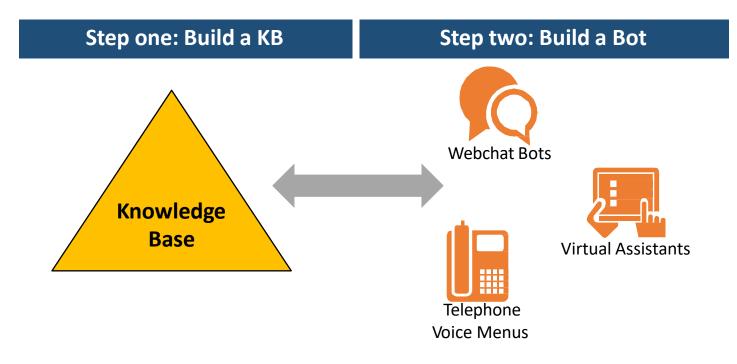


Overview of Conversational Al Services in Azure

Services	Pre-trained Models	Custom Models	Description
QnA Maker	x	x	Create a knowledge base of conversational question and answer pairs
Azure Bot Services	N/A	N/A	Intelligent, serverless bot services that scale on demand





Use Cases

- Webchat Bots answering common questions on a website to provide customer services
- Telephone voice menus to reduce the load on call center
- Virtual assistants to provide home automation



Conversational AI – QnA Maker Service

- Knowledge Base: Question and Answers Pairs
- Data Source Locations & Type
 - Existing FAQ document or web page
 - Entered and edited manually
 - Question-answer pairs from semi-structured content, including SharePoint documents, etc.
 - Pre-defined chit-chat (small talk) data source

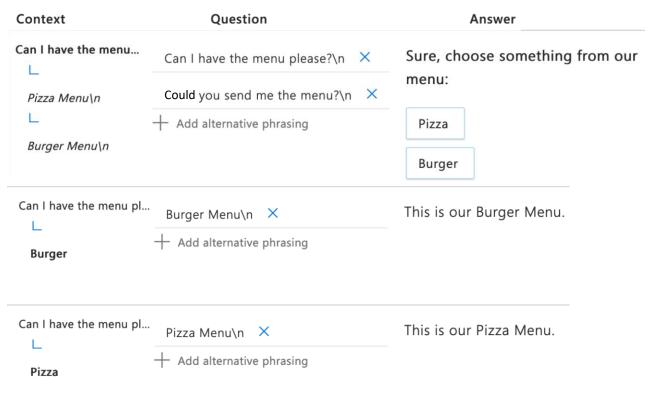
Sample Question: When is your birthday?			
Personality	Example		
Professional	Age doesn't really apply to me.		
Friendly	I don't really have an age.		
Witty	I'm age-free.		
Caring	I don't have an age.		
Enthusiastic	I'm a bot, so I don't have an age.		

Source Type	Content Type
URL	FAQs Support pages
PDF / DOC	FAQs, Product Manual, Brochures, Paper, Flyer Policy, Support guide, Structured QnA, etc.
Excel	Structured QnA file
TXT / TSV	Structured QnA file

Azure SQL database query is not supported

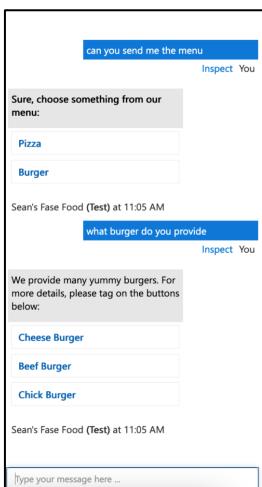
Conversational AI – QnA Maker Service – Multi-turn Conversations

Multi-turn prompts



Answer 1
- Prompt #1
- Prompt #2

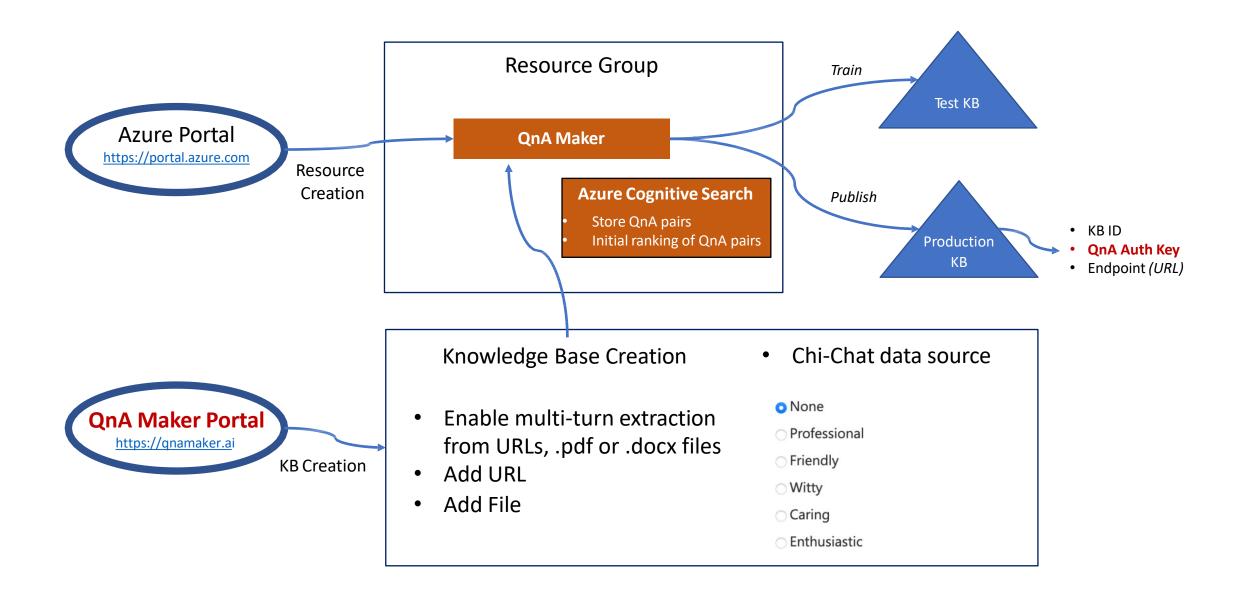
Answer 2
- Prompt #1
- Prompt #2
- Prompt #3



Question 1

Question 2

Conversational AI – QnA Maker Service – Resource Setup



Conversational AI – QnA Maker Service – KB Creation Steps

Edit Knowledge Base Train & Test KB **Publish KB** Create Knowledge Base **Define question-and-answer pairs** Existing FAQ document Existing web page (URL) Pre-defined chit-chat data source Manual OnA entries Add new Why Margie's Travel? **Questions &** Margie's Travel is a full-service travel agent, with years of experience in the worldwide tourism **Training** Predication **Answers** What services do you provide? Model Model Margie's Travel can help arrange flights, accommodation, airport transfers, excursions, visas, travel insurance, and currency exchange. What destinations do you offer? We can arrange travel anywhere in the world, but we specialize in trips to Dubai, Las Vegas, London, New York, and San Francisco. Alternative phrasing KB ID How can I book a flight? Our agents can help you book flights between any major airports, on any of the major airlines. Multi-turn prompts KB endpoint We offer competitive fares for all flight classes. To book a flight, call us on 555 123 456; or visit our website: www.margiestravel.com. Test Model Metadata tags used **KB** authorization key How can I reserve a hotel? We partner with the best independent hotels all across the world and can arrange to filter answer accommodation that suits your needs and budget. From small boutique five-star luxury resorts, we've got the right hotel for you. To reserve a hotel, call us on 555 123 456; or visit our website: www.margiestravel.com. choices On A Maker doesn't store How do I cancel a flight or hotel? You can cancel a flight or hotel anytime up to 24 hours before check-in. A cancellation fee may customer data (Q&A pairs apply. Call us on 555 123 456; or visit our website: www.margiestravel.com. Can you arrange travel insurance? and chatlogs). Margie's Travel partners with Humongous Insurance Corp. to provide travel insurance at All customer data is stored in What are your office hours?

Our agents are available by phone on 555 123 456 Monday to Friday from 8:00am to 6:00pm

PST. You get help on our website at www.margiestravel.com 24x7.

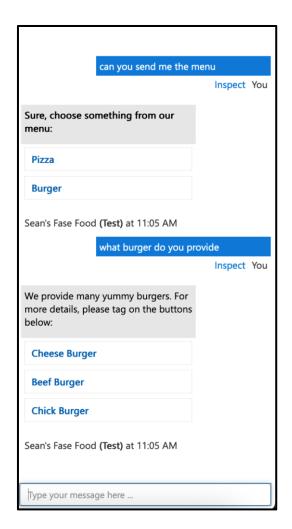
the region of Cognitive Search

service deployed



Conversational AI – Azure Bot Services

- Azure Bot
 - Conversationally engages with customers
 - Web application with conversational interfaces
- Three ways to create a bot:
 - Bot Framework SDK coding
 - Bot Framework Composer visual canvas
 - QnA Maker automatic bot creation feature



Conversational AI – Azure Bot Services – Channels

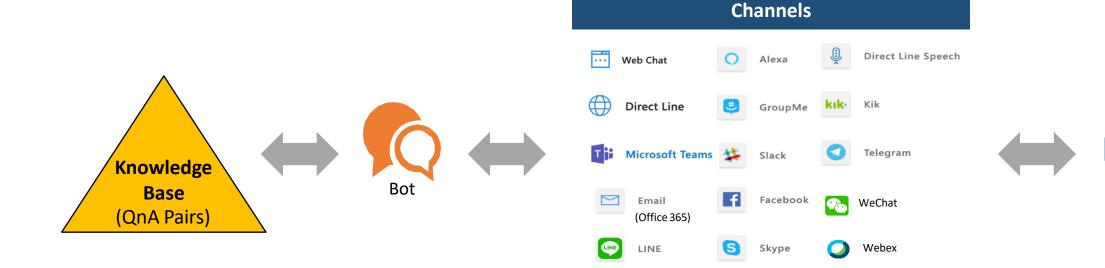
• Channel - connection between communication applications and a bot



Automatically configured when you create a bot with the Bot Framework Service



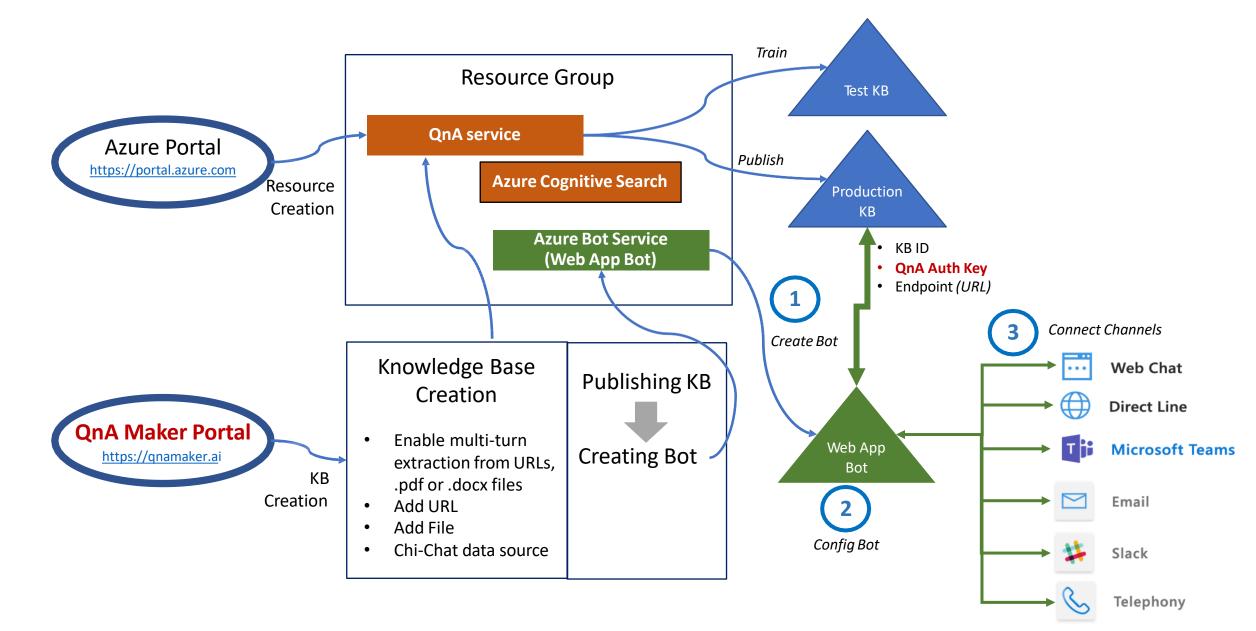
Standard channel: Integrate a bot into a mobile app, web page, or other applications



Users

Twilio (SMS) Additional Adapters

Conversational AI – Azure Bot Services – Resource & Bot Setup



Building a QnA Bot

with

Azure QnA Maker and Bot Service



Conversational Al Summary

