

About Michael Washington



- Microsoft Reconnect MVP
- Microsoft Certified Professional







Agenda

- Background
 - What is the Microsoft Bot Framework V4?
 - How to get started with the Microsoft Bot Framework V4 (and how much it costs)
- Creating a Hello World! Bot
- Using Dialogs
- Using LUIS-Language Understanding Intelligent Service
- Using QnA Maker



What is the Microsoft Bot Framework V4?



The Microsoft Bot Framework V4 allows you to create intelligent bots that interact naturally wherever your users are (text/SMS to Skype, Slack, Office 365 mail and other popular services).

In preview now, the **Bot Builder V4 Preview SDK** offers new features and is extensible with a pluggable middleware model.



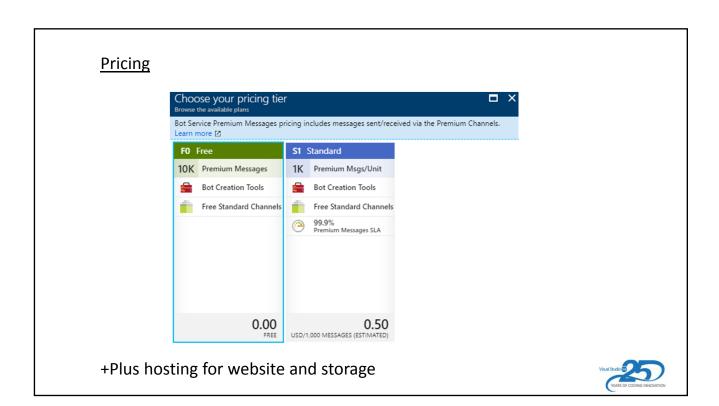
How To Get Started

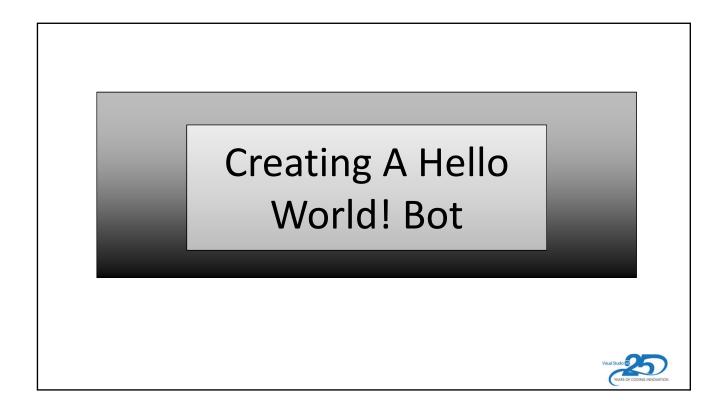


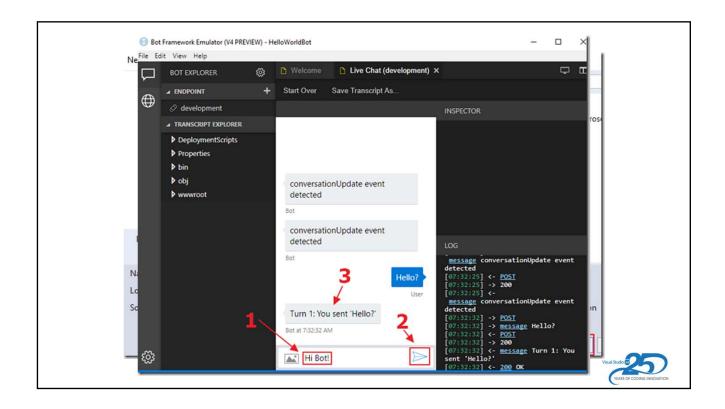
Requirements

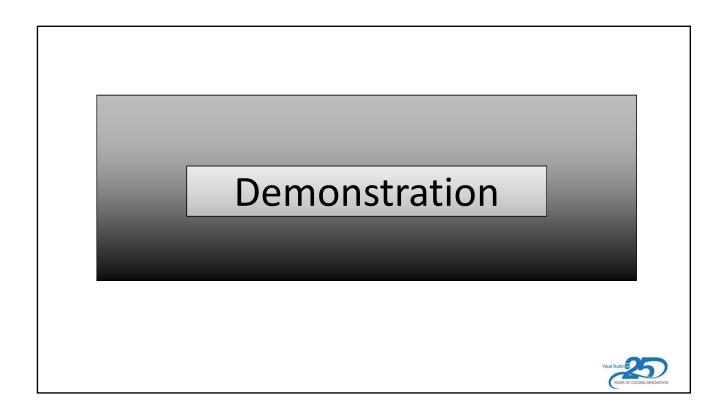
- Visual Studio 2017 (or higher) with the following workloads:
 - ASP.NET and web development
 - Azure development
 - .NET Core cross-platform development
- Bot Builder V4 SDK Template for Visual Studio
- Bot Framework Emulator (download the latest version even if it is "Alpha")
- A Microsoft Azure Subscription





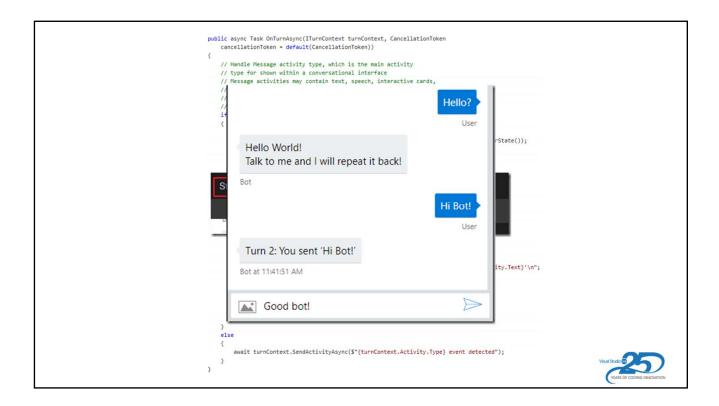


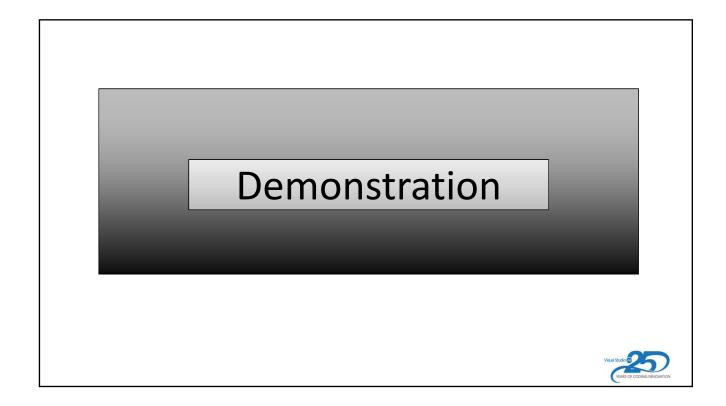


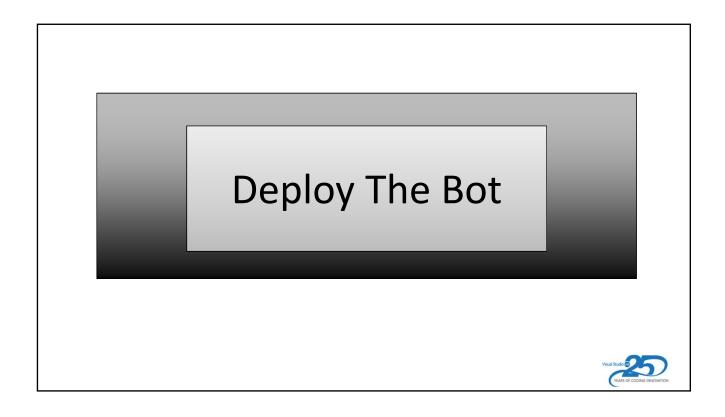


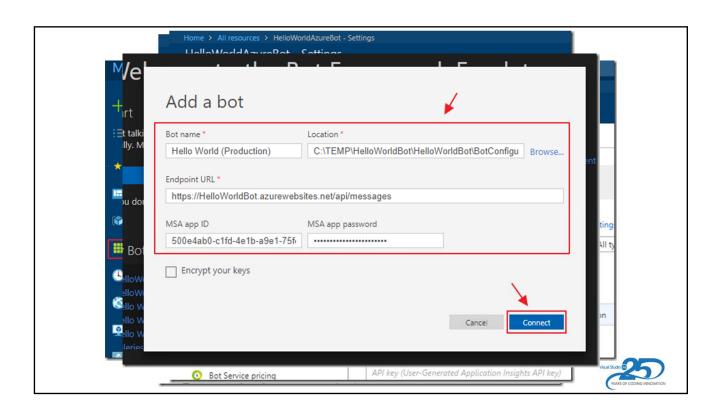


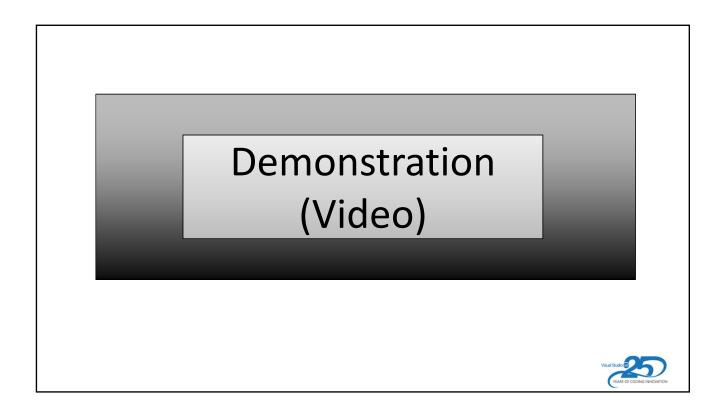
Visual Studio Live! San Diego 2018

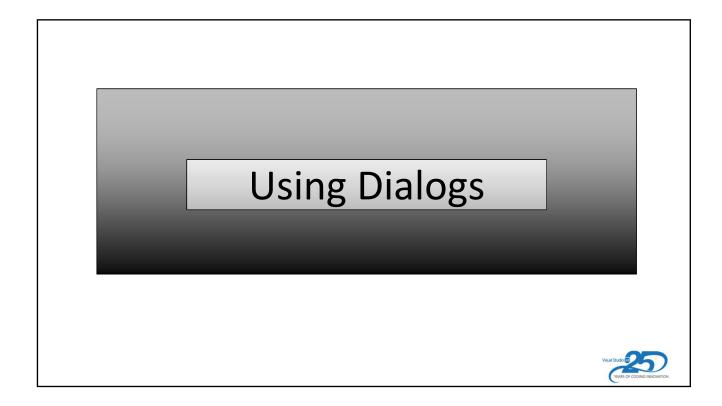










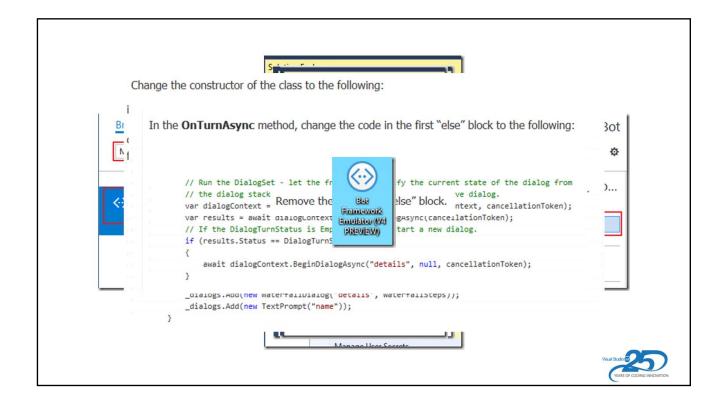


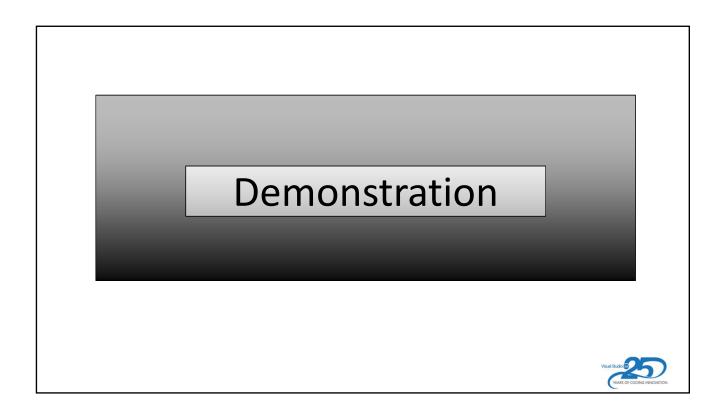
Visual Studio Live! San Diego 2018

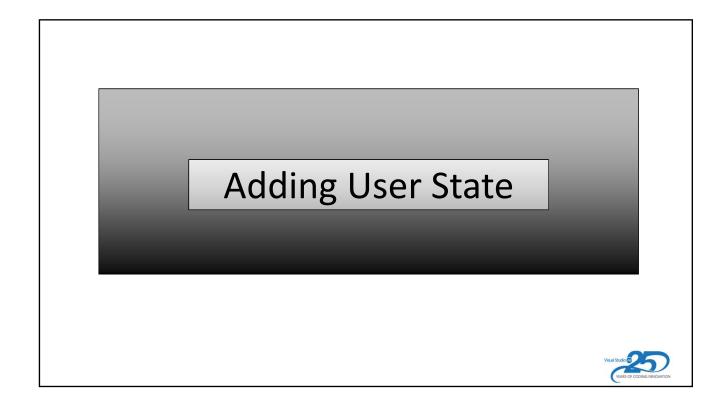
A **dialog** encapsulates application logic much like a function does in a standard program. It allows you to perform a specific task, such as gathering the details of a user's profile, and then possibly reuse the code as needed. **Dialogs** can also be chained together in **DialogSets**.

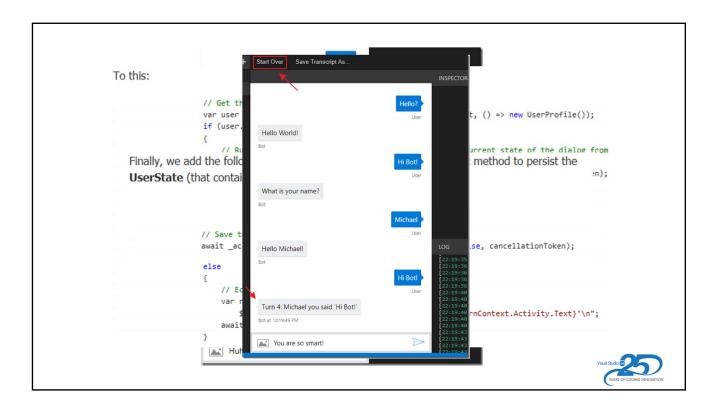
The **Microsoft Bot Builder SDK** includes two built-in features to help you manage conversations using **dialogs**:

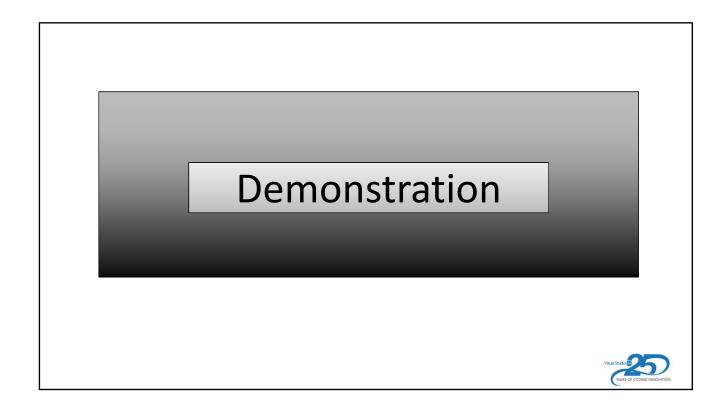
- •DialogSets This is a collection of **Dialogs**. To use **dialogs**, you must first create a **dialog set** to add the **dialog** to. A **dialog** can contain only a single *waterfall step*, or it can consist of multiple *waterfall steps*.
- •Prompts This provides the methods you can use to ask users for different types of information. For example, a text input, a multiple choice, or a date or number input. A prompt dialog uses at least two functions, one to prompt the user to input data, and another function to process and respond to the data.











Using LUIS Language Understanding Intelligent Service



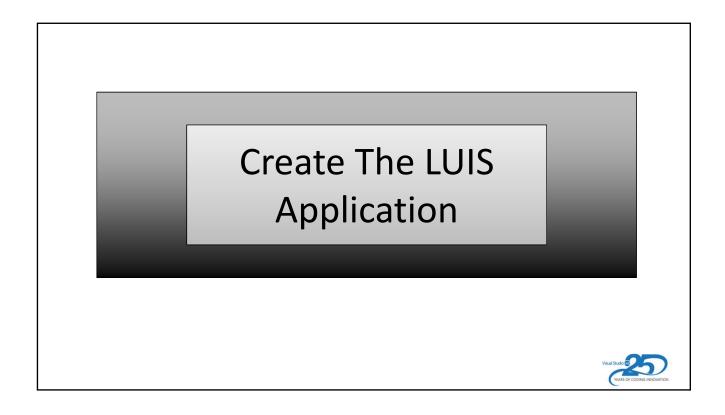
The Microsoft Language Understanding Intelligent Service (LUIS) allows you to create intelligent applications that allow your end-users to use natural language to perform actions.

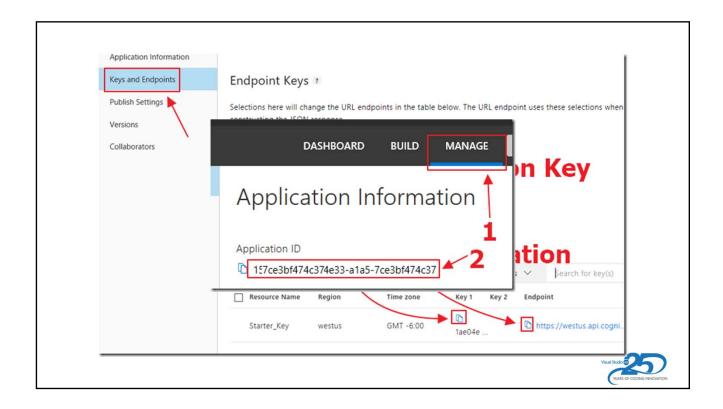
The Language Understanding Intelligent Service (LUIS), allows developers to create language understanding models that are specific to their problem domain.

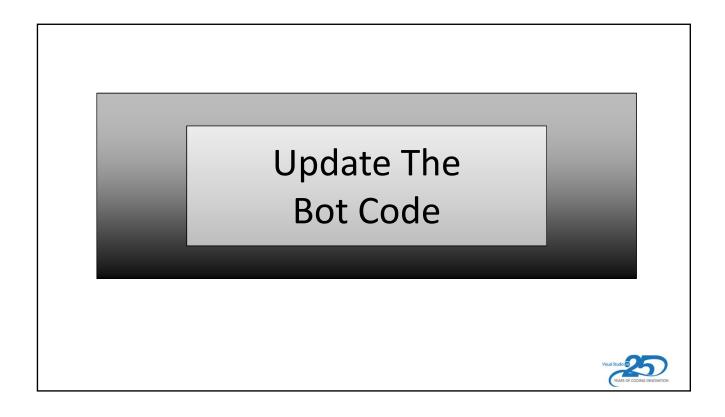
To use **LUIS**, developers log into the **LUIS** website, enter a few *utterances* and their *labels*, and then deploy a model to an HTTP endpoint on Azure.

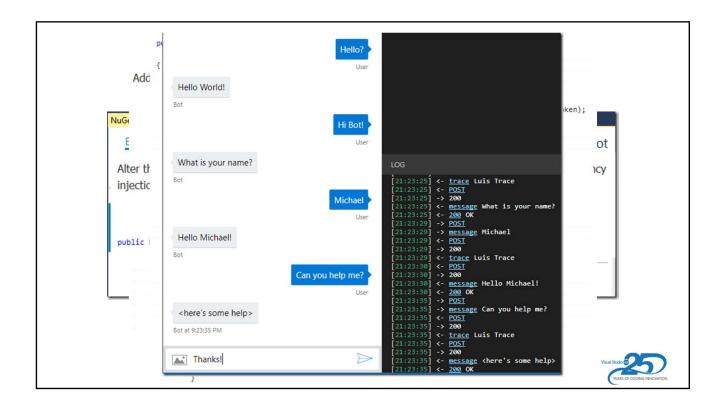
The utterances sent to the endpoint are logged and labeled. The website allows the developer (or any application administrator) to train the application by identifying issues, which can be resolved by either adding more labels or by giving hints to the machine learner in the form of features.

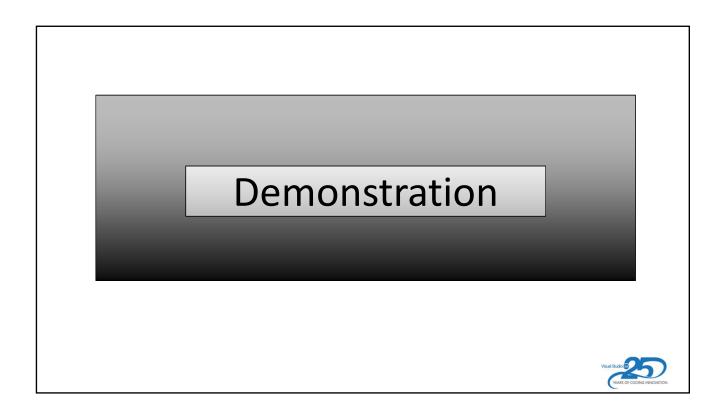
A developer can create and deploy a model in minutes, and then maintain and train it as the usage of the application grows.













According to the Microsoft QnA Maker website, the QnA Maker allows you to: "Build, train and publish a simple question and answer bot based on FAQ URLs, structured documents, product manuals or editorial content in minutes".

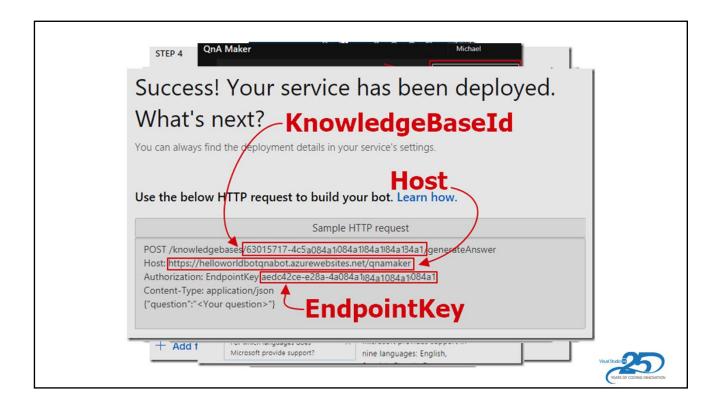
This really speeds your **Bot** development because it leverages the abilities of LUIS (Language Understanding Intelligent Service) to understand human conversation, and combines it with a service that allows you to provide a list of questions and answers, or simply upload a product manual or provide a link to a website, and the questions and answers will be parsed for you automatically.

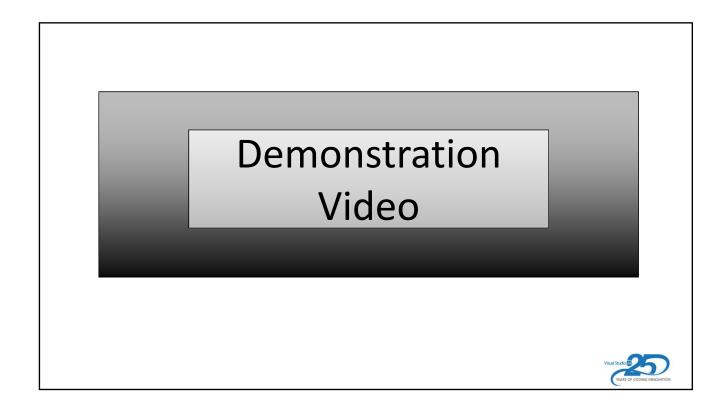
The end result is an incredible amount of functionality that you can add to your **Bot** easily.

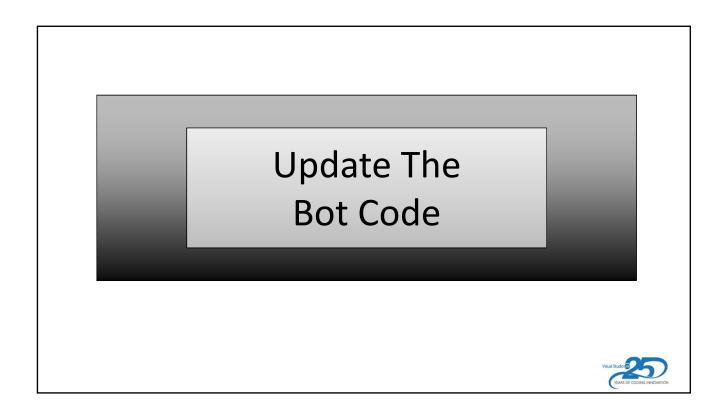


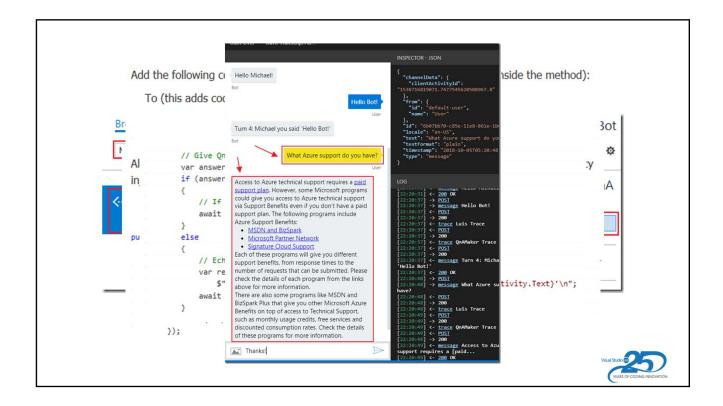
Create The QnA Maker Service

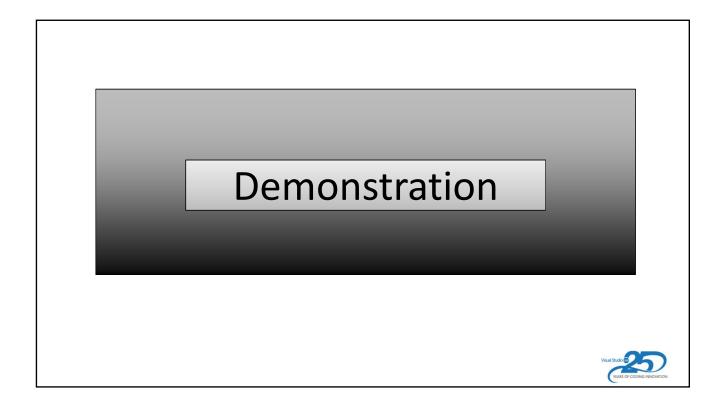




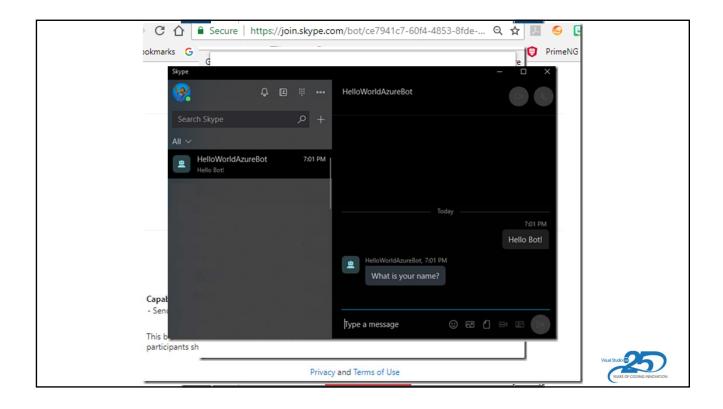


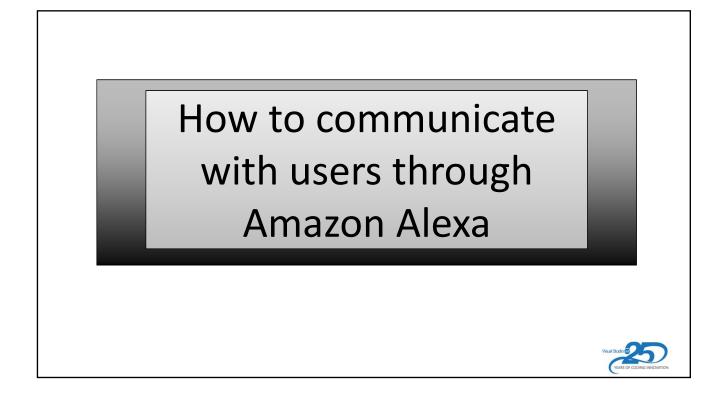






How to deploy to Skype, Cortana and Facebook





https://github.com/CatalystCode/alexa-bridge alexa-bridge A bridge between Alexa Skills and the Azure Bot Service Deploy to Azure Overview This is a simple restify-based server that acts as a bridge between an Alexa Skill and the Azure Bot Service. Utterances originating at an Alexa endpoint e.g. an Echo device are received by this bridge, translated and forwarded to the Microsoft Bot Framework. Replies coming back from the Bot are then returned to the originating endpoint. Alexa will read out the text in the Text field of the Bot reply.

Resources

Al Help Website

http://AIHelpWebsite.com

ADefWebserver

http://ADefWebserver.com



Questions?



Thank You!

