Cognitive Bots to enable David George rapid Integration Senior Softwa

Watson Conversation meets App Connect

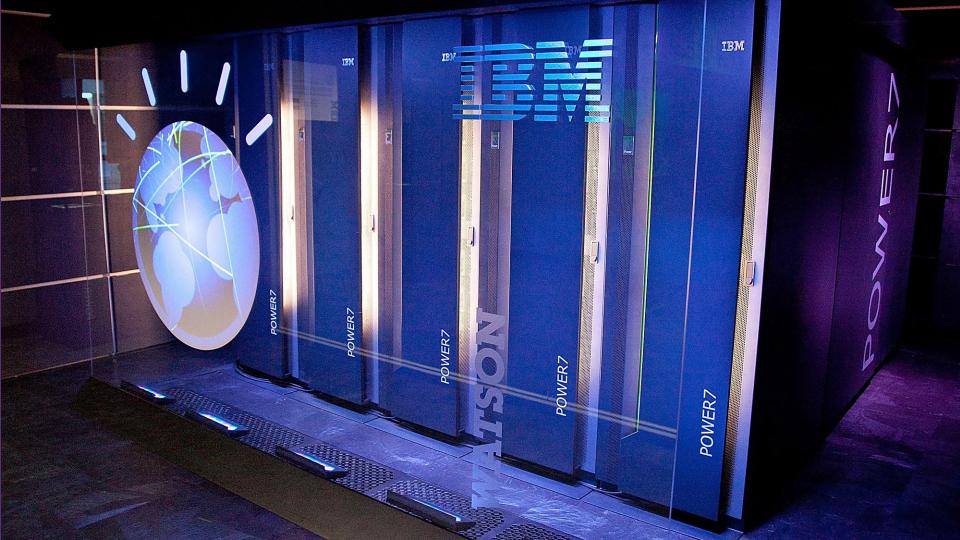
David George Senior Software Engineer Watson Conversation October 2017

Watson



IBM Watson is a cognitive platform that can understand, reason, learn and interact across the entire data universe, helping businesses and organizations scale expertise to meet new and evolving challenges.







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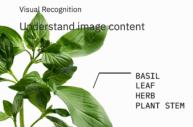
## Build on the AI platform for business

Watson on the IBM Cloud allows you to integrate the world's most powerful AI into your applications and store, train and manage your data in the most secure cloud.

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Natural Language Understanding

Analyze text with powerful NLP

### Conversation



Quickly build and deploy chatbots and virtual agents across a variety of channels, including mobile devices, messaging platforms, and even robots.



#### Virtual Agent

Build a chatbot for customer service - no machine learning experience required.

### Vision



#### Visual Recognition

Tag, classify and search visual content using machine learning.

### Discovery



#### Discovery

Unlock hidden value in data to find answers, monitor trends and surface patterns with the world's most advanced cloud-native insight engine.



### Natural Language Understanding

Analyze text to extract meta-data from content such as concepts, entities, keywords and more.



### Discovery News

Infuse dynamic news content into every app you build.



#### Knowledge Studio

Teach Watson to discover meaningful insights in unstructured text without writing any code.

### Speech

Speech to Text

Convert audio and voice into written text for quick understanding of content.



**Text to Speech** 

Convert written text into natural sounding audio in a variety of languages and voices.

### **Empathy**

Personality
Insights

Predict personality characteristics, needs and values through written text.



**Tone Analyzer** 

Understand emotions, social tendencies and perceived writing style.

### Language

\ T ⊕

Language Translator

Translate text from one language to another.

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Natural Language Classifier Interpret and classify natural language with confidence.



Retrieve and Rank

Retrieve and Rank has evolved into Watson Discovery and is deprecated as a standalone service.

# API

# API

Application Programming Interface

### Watson Conversation



- Quickly build Chatbots and virtual agents
- Test and deploy to a variety of channels and messaging platforms
- Improve by reviewing your logs and getting tailored recommendations

Are Chatbots the new Apps?

Reach customers in the apps they already use

Increase engagement through personalised experiences

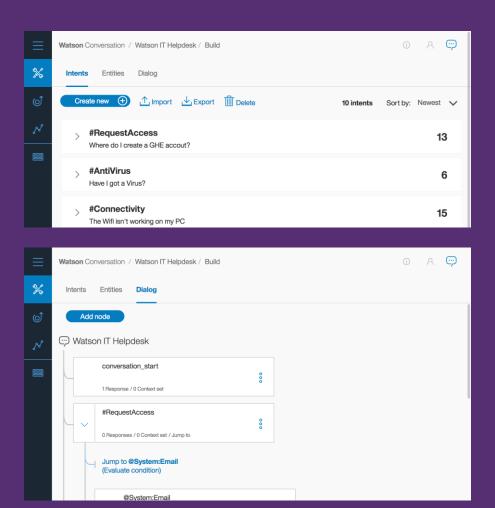


## Building a Chatbot using Watson Conversation

### Building a Chatbot

- Identify Intents using Examples
- Identify Entities (optional)
- Create a Dialog

Start simple, then Iterate



### App Connect

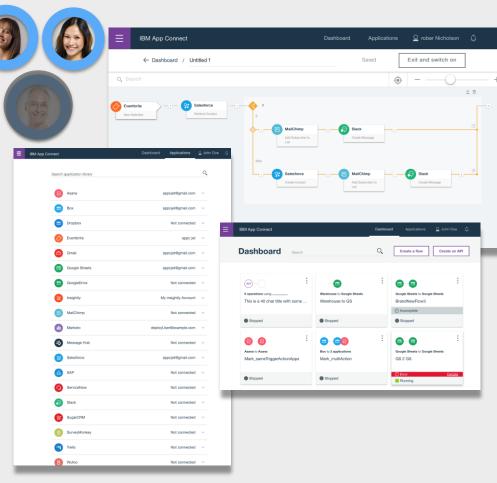
### What is App Connect?

Business friendly integration that connects cloud & enterprise apps as flows and APIs

A next generation, cloud native iPaaS.

### What does App Connect provide today?

- App-aware smart connectors
- Automation of manual tasks: event driven flows
- Integration flow powered APIs
- Simple but powerful data mapping
- Secure on-prem and cloud connectivity.
- Easy to understand dashboard and error reporting.



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### **Blueberry**

Watson Conversation meets App Connect



### Make your enterprise applications work for you.

Blueberry automatically generates chatbots personalised to your needs, so you can trigger integration tasks across your multiple applications through conversation. Now you can connect your applications to get the data you need at your fingertips, so you can enhance your productivity and deliver more value to your clients.





### **Problem Statement**

A Software Sales Person needs to meet with clients and create tickets for those customers following meetings

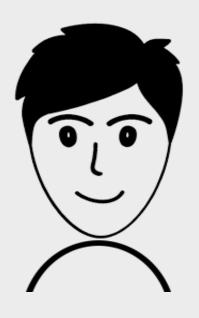
- Customer details are stored in Salesforce
- Support tickets are created in a system called ServiceNow

They wish that they could create tickets whilst with their customers, and avoid hopping between applications, by just speaking an instruction to their mobile phone.

### Mark the Sales Person

- Ambitious young software sales person
- Meets with clients every day
- Interacts with many systems of record in order to prepare for meetings

Mark spends only a third of his day actually meeting with clients. Around a third is spent on preparation, and a fifth on administrative tasks.



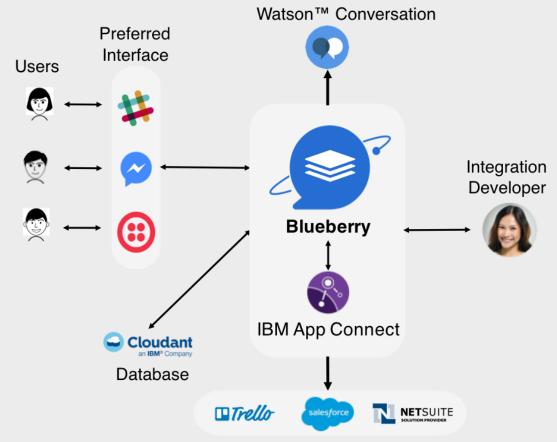
### Tia the Integration Developer

- Part of IT support organisation
- Uses an IPaaS software each day
- Responds to move, clean, update, sync or integrate data

App Connect allows Tia to create new integration flows quickly, but often spends a great deal of time building custom interfaces to expose them



### **Blueberry Architecture**



**Enterprise Applications** 

### **Lead Chatbot**

IBM App Connect

New API

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Add existing API

**Define Conversation** 

**Deploy Chatbot** 

**Properties** 

Edit

**Associated APIs** 

**Chatbot Name** 

Lead Chatbot

**ChatBot Description** 

Slack Token

xoxb-235160487940aDbU649d0sZLKXocfZhUhD7C

Approve user examples

**API Name API Model Applications** 

**%** Prepare lead Leads

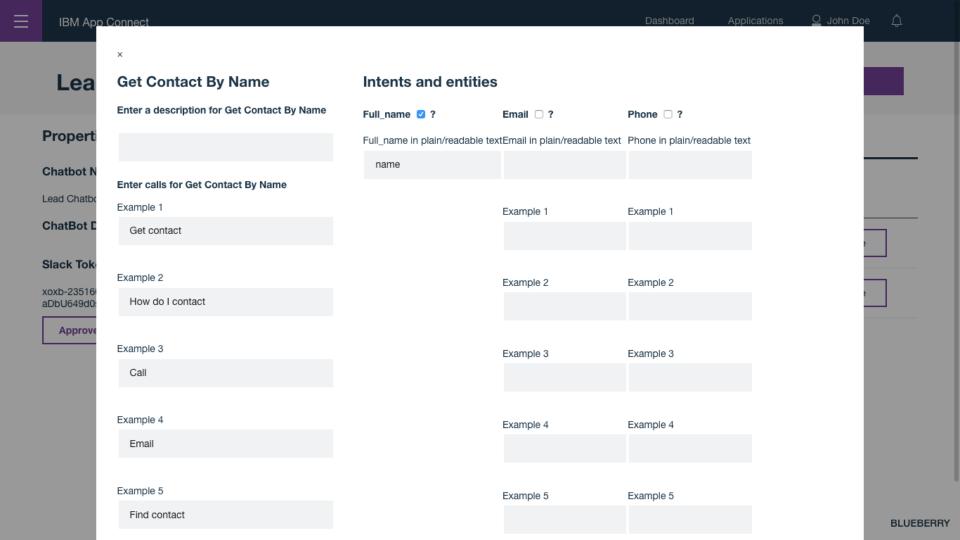
Get Contact By Name Leads **Define Conversation** 

Edit

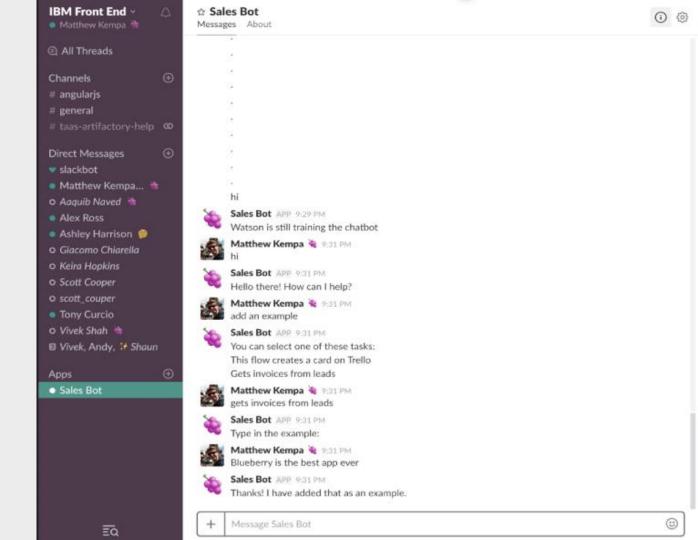
Edit

Delete

Delete



## User-contributed Examples



### **Outcomes**

### For Tia

- Generate interfaces for integration flow
- Automated deployment

### For Mark

- Access information from multiple channels in one place
- Less time performing admin tasks
- Faster turnaround of information requests

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