

INTELLIGENT BOTS WITH IOT ON AZURE

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Atos

2016
Global Azure
BOOTCAMP

A little bit about me

@FanieReynders

<http://reynders.co>



<http://sdn.nl>



<http://fixxup.nl>



Agenda

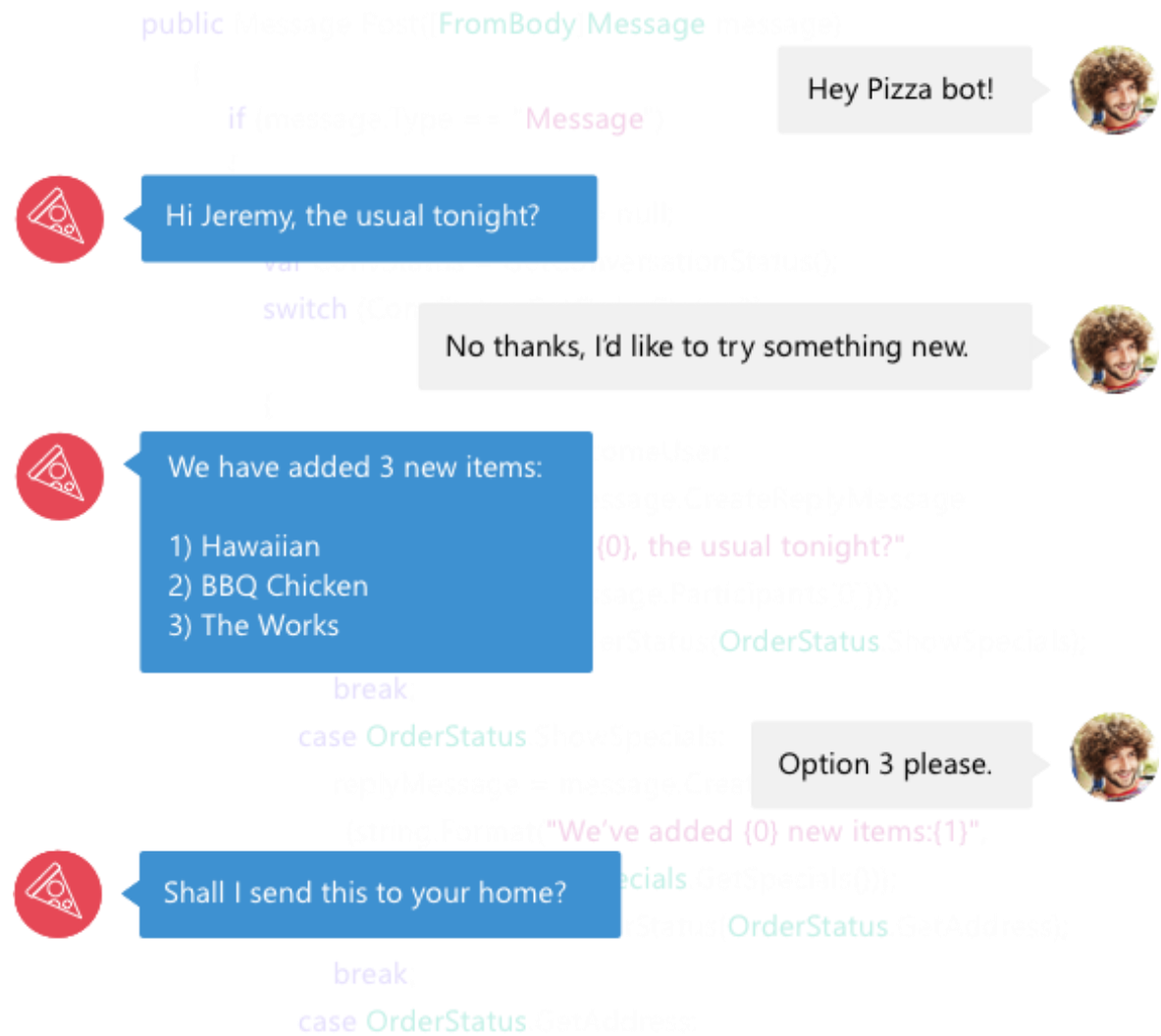


Azure

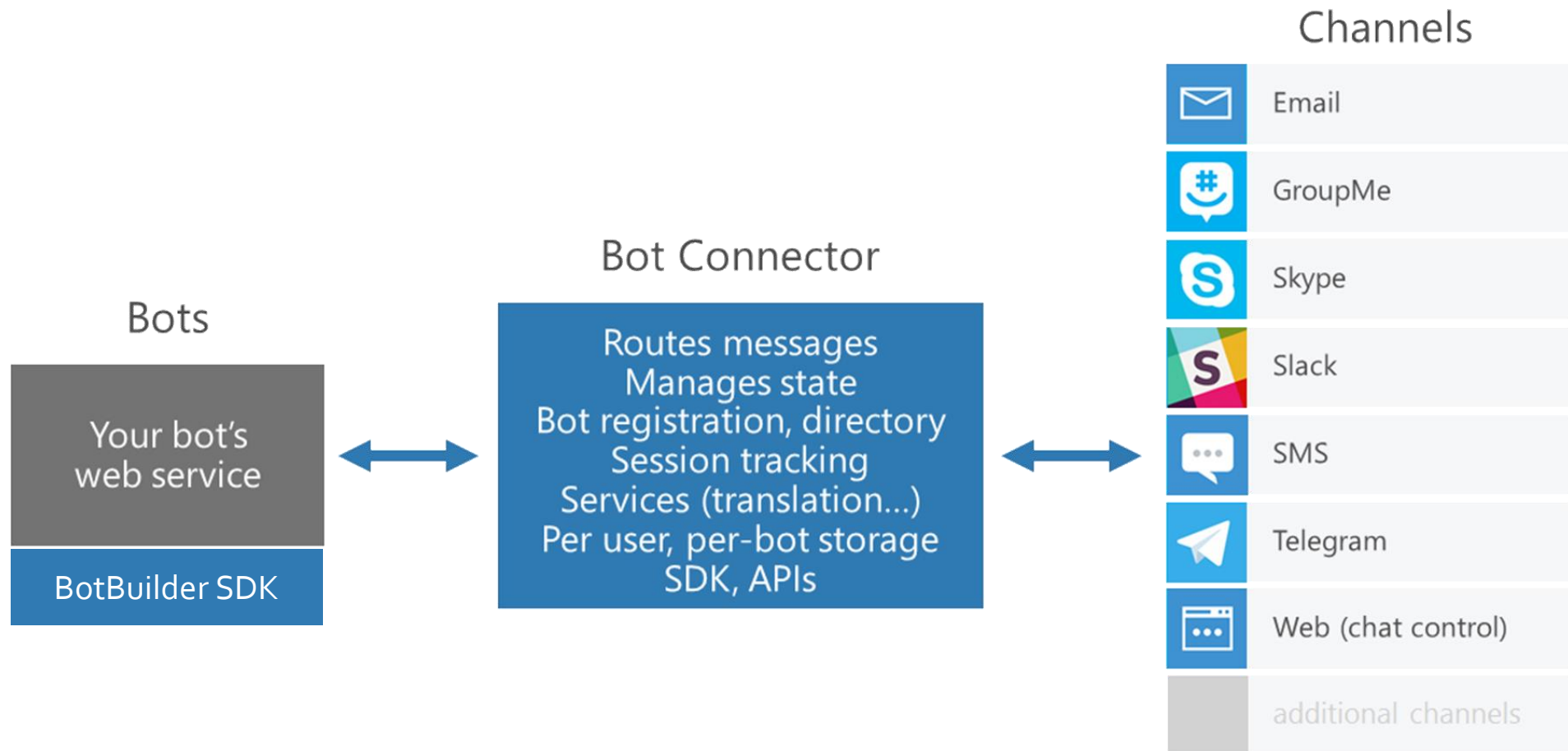
BOTS

CaaS

Conversation as a Service



Microsoft Bot Framework



ByoB

Bring your own Bot



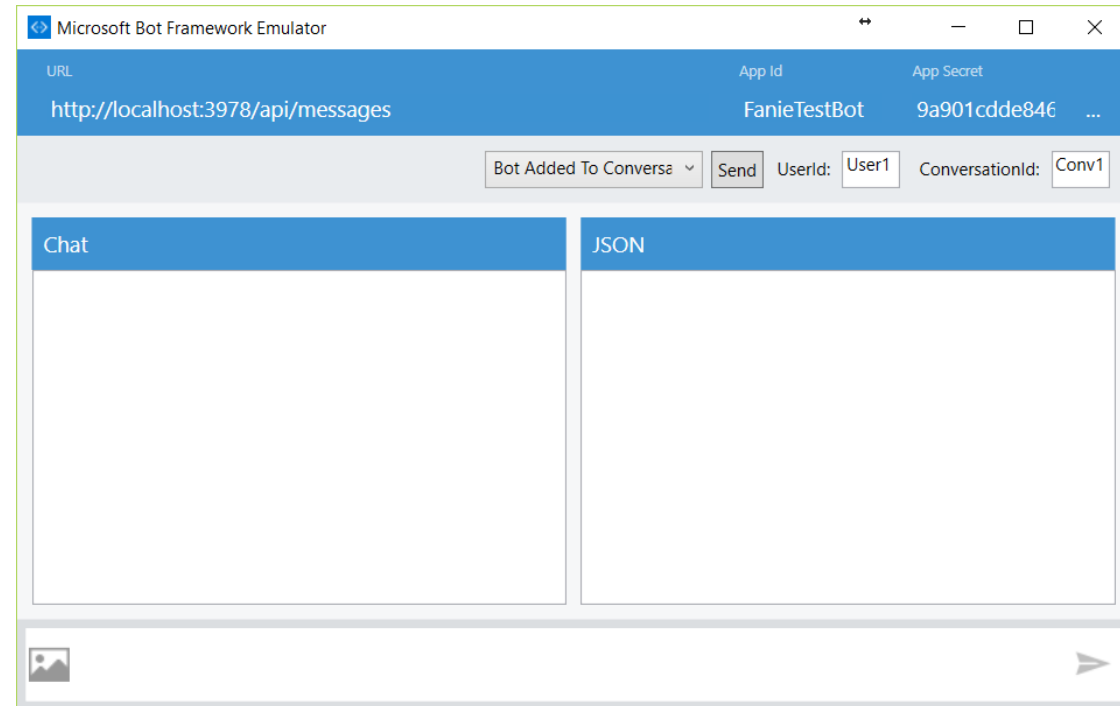
Tools

Visual Studio Template

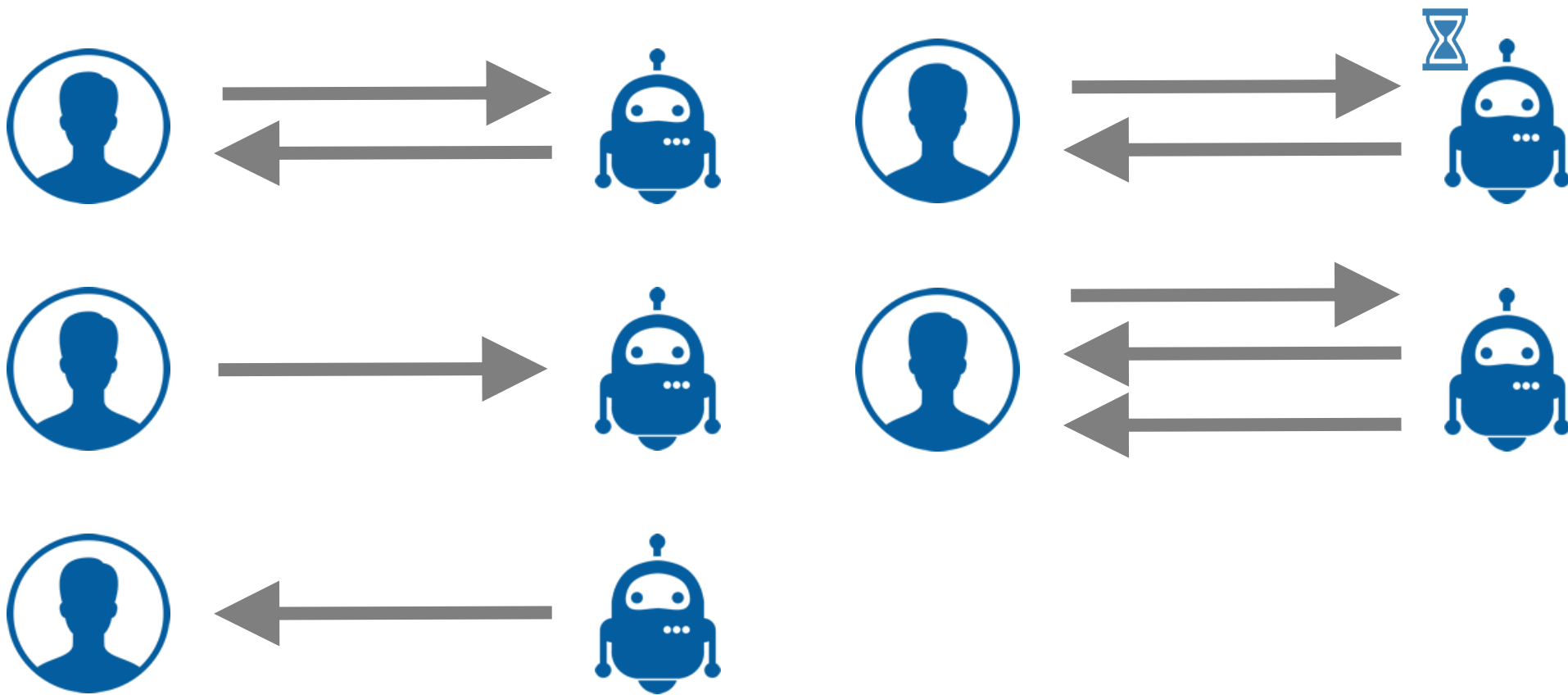
- <http://aka.ms/bf-bc-vstemplate>

Bot Framework Emulator

- <http://aka.ms/bf-bc-emulator>



Message routing



Message structure

```
{
  "type": "Message",
  "id": "23IG9F0yL0S",
  "conversationId": "GZxAXM39a6jdG0n2HQF5TEYL1vGgTG853w2259xn5VhGfs",
  "created": "2016-03-22T04:19:11.2100568Z",
  "language": "en",
  "text": "Hello SDN",
  "attachments": [ ],
  "from": { ... },
  "to": { ... },
  "replyToMessageId": "7TvTPn87H1Z",
  "participants": [ ... ],
  "totalParticipants": 2,
  "mentions": [ ],
  "channelConversationId": "12345",
  "hashtags": [ ],
  "channelData": { ... },
  "botConversationData": { ... },
  "botPerUserInConversationData": { ... },
  "botUserData": { ... },
}
```

Bot Builder

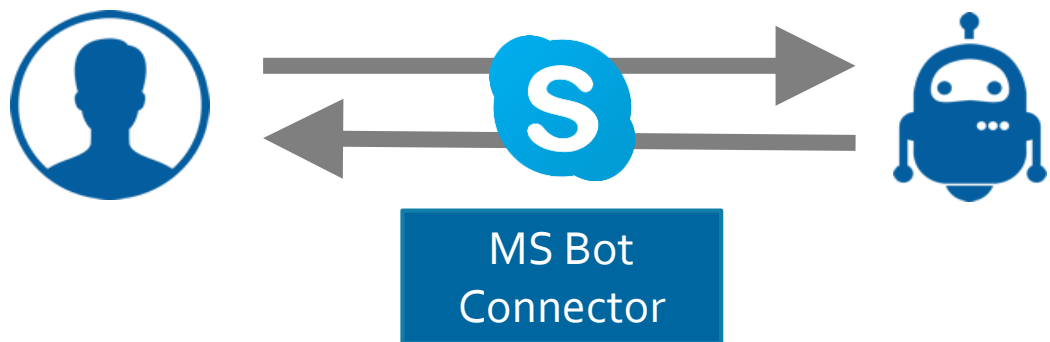
Dialog

- Conversational
- Stateful
- LUIS integration

FormFlow

- Guided conversations
- Step navigations
- Validations

Demo



ARTIFICIAL INTELLIGENCE

Microsoft Cognitive Services

Vision

- Computer Vision
- Emotion
- Face
- Video

Speech

- Bing Speech
- Custom Recognition
- Speaker Recognition

Language

- Bing Spell Check
- Language Understanding
- Linguistic Analysis
- Text Analysis
- WebML

Knowledge

- Academic
- Entity Linking
- Knowledge Exploration
- Recommendations

Search

- Bing Web Search
- Bing Image Search
- Bing Video Search
- Bing News Search
- Bing Autosuggest

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Computer Vision

- Analyze images
- Recognize celebrities
- Read text in images
- Generate a thumbnail

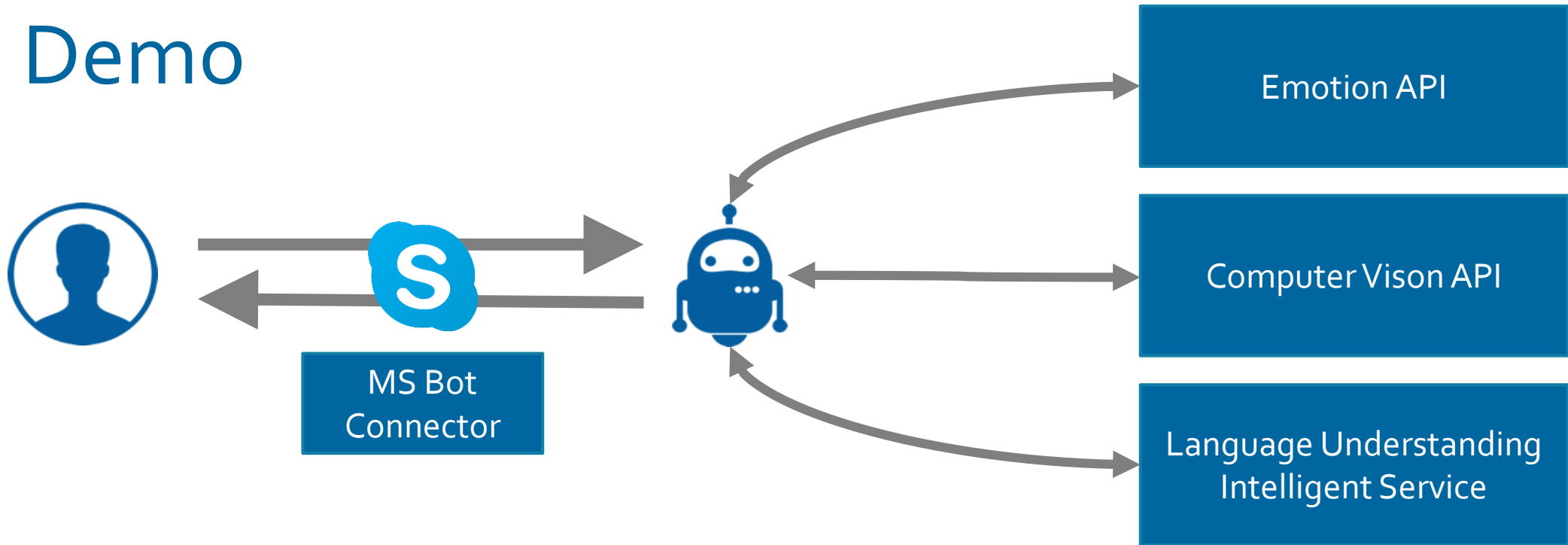
Emotion

- Images
- Videos
- Multiple faces

Language Understanding (LUIS)

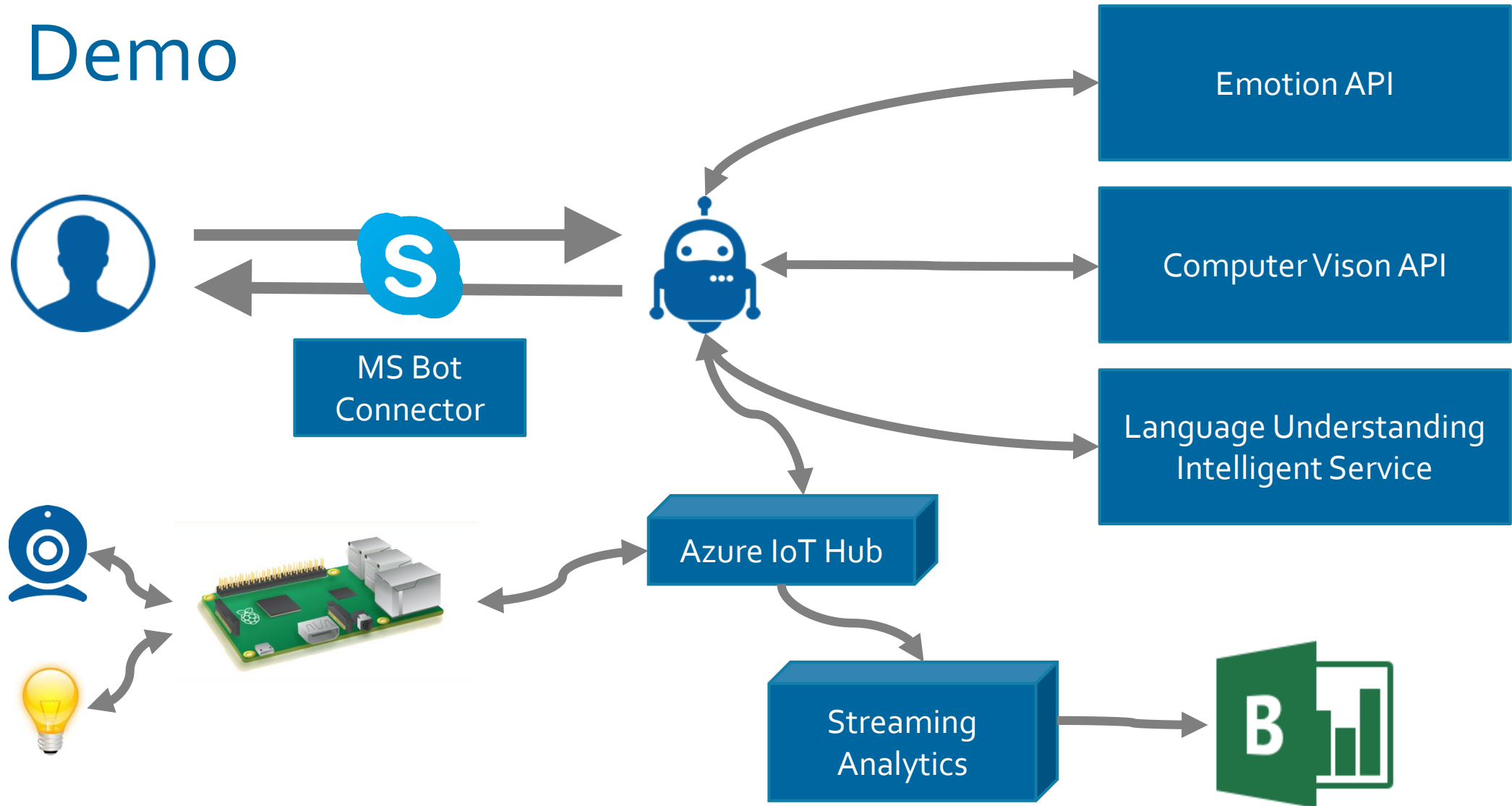
- Create language understanding models
- Add conversational intelligence
- Pre-built, world class models (Bing & Cortana)
- Action fulfillment capabilities
- Deploy to HTTP
- Activate on any device
- Maintain with ease

Demo



IOT

Demo



THANK YOU

Questions? Answers? Comments?