

IBM Developer Series

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[meetup.com/IBM-Cloud-MEA/](https://www.meetup.com/IBM-Cloud-MEA/)

Going Serverless in your Watson Assistant-Powered Chatbot

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Get Started Here: <http://ibm.biz/ServerlessAssistant>

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Serverless Computing

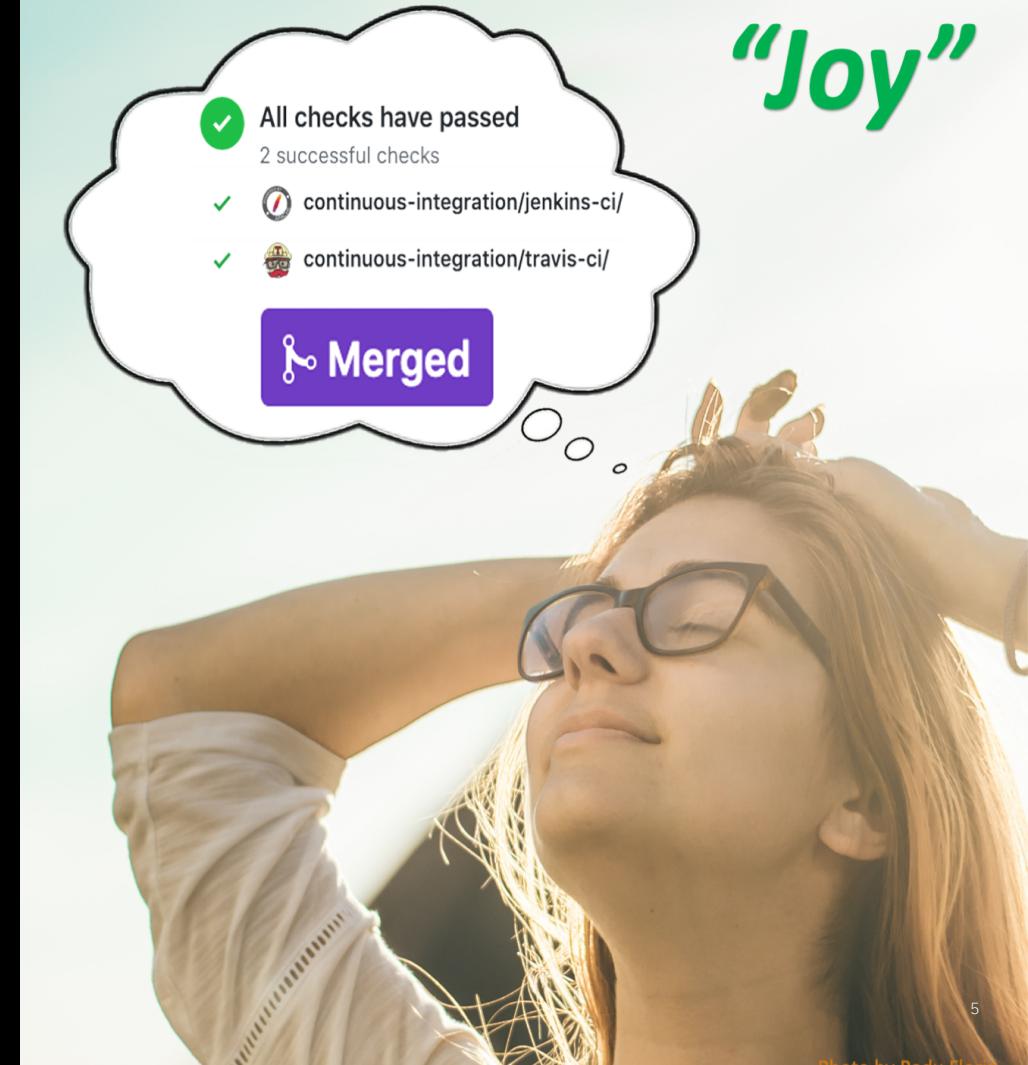
- Does not mean no servers!
- Servers are managed by cloud provider
- Pricing is calculated based on Pay-as-you-go



Serverless handles OPS

Serverless takes out ops and provides:

- Scaling
- Low latency
- High availability
- Multi-region
- Monitoring
- Logging
- Security



Serverless Use Cases

Here are some of use cases for serverless but not limited to:

- Batch jobs
- Mobile backends (Rest APIs)
- Chat bots
- IoT Sensors
- Multimedia processing
- Database changes



IBM Cloud Functions

- FaaS programming platform
- Accelerate development
- Code reuse, simplifying migration
- Leverage the benefits of cognitive services
- Some supported languages are:
Node.js, Python, Ruby, PHP, Ruby, Swift



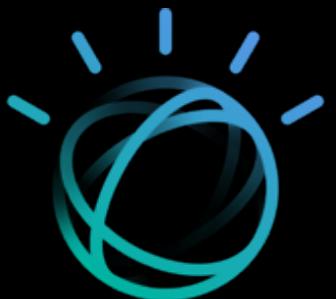
What are Chatbots?

A chatbot is a cognitive AI designed to simulate a conversation with a user in natural language through messaging applications, websites, mobile apps or through the telephone.



IBM Watson Assistant

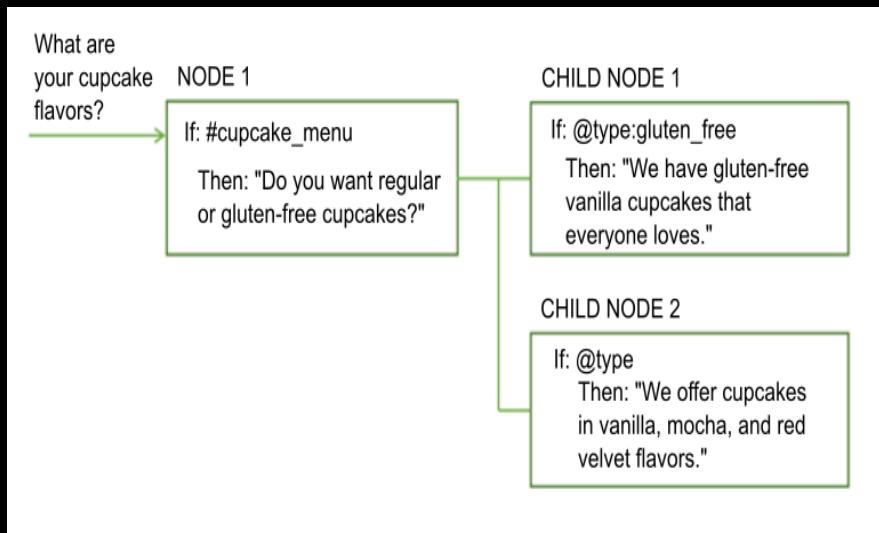
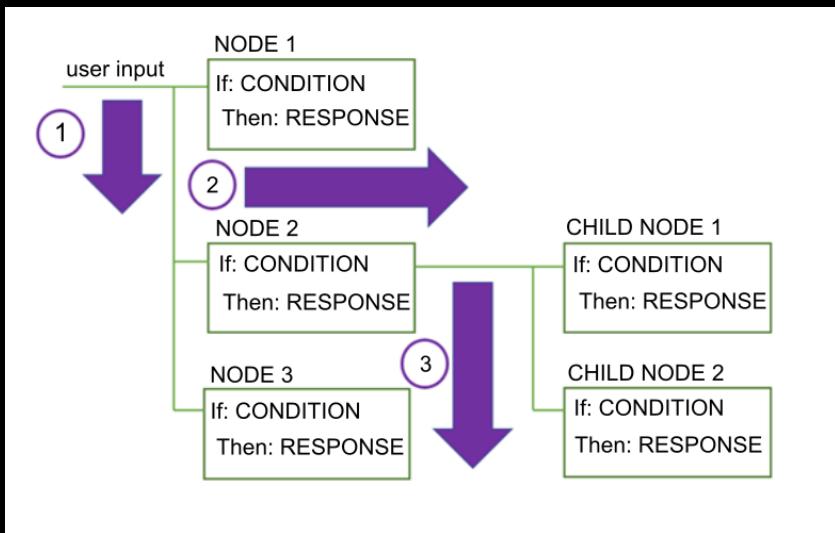
With the **IBM Watson™ Assistant** service, you can build a solution that understands natural-language input and uses machine learning to respond to customers in a way that simulates a conversation between humans.



Watson Assistant Main Components

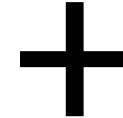
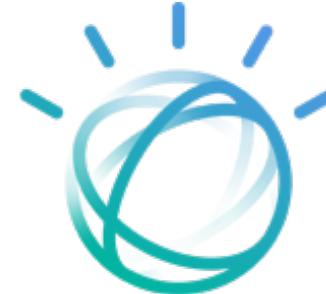
- **Intents:** What the user intends to communicate
- **Entity:** Words & objects that give more context to the user's questions
- **Dialog:** Conversation flow based on the intents & entities detected
- **Slots:** Allow you to collect several pieces of information in one node
- **Context Variables:** Values to define context across nodes
- **Jump:** Skipping to different nodes

Watson Assistant Example



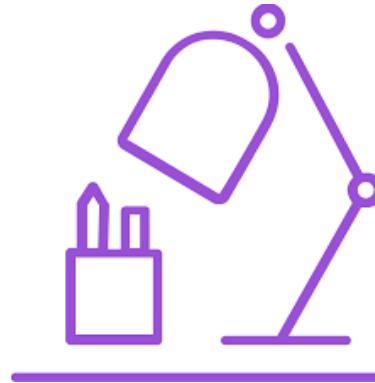
Watson Assistant Webhook

- Allows you to call out to an external program (in our case a function)
- Triggered when the assistant processes a node that has a webhook enabled



Hands On

- Sign up/Log in to your IBM Cloud Account
<http://ibm.biz/ServerlessAssistant>
- Follow along for the hands-on
<http://ibm.biz/SA-CodeLab>



Useful Links

Learn - develop - connect

Get Started Here (<http://ibm.biz/ServerlessAssistant>)

Hands-On Lab (<http://ibm.biz/SA-CodeLab>)

IBM Developer (<https://developer.ibm.com/>)

Meetup (<https://www.meetup.com/IBM-Cloud-MEA/>)

Thank you.

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Survey



