

Control your PC

Special topics in Advanced Networks with Dr. Y. Liu

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Motivation

- * Less infrastructure cost
- * Automation
- * Realtime notifications and analysis

Project Setup

Software's:

Applets:

- * IFTTT
- PushBullet
- * Tasker
- * DialogFlow

Languages:

* Php and Python

Hardware:

- * DELL Laptop
- * Apple MAC Book Pro
- * HP Laptop

Implementation

IFTTT and Pushbullet:

 General computer operations with backend PHP scripts (e.g. open word, type in word, sleep)

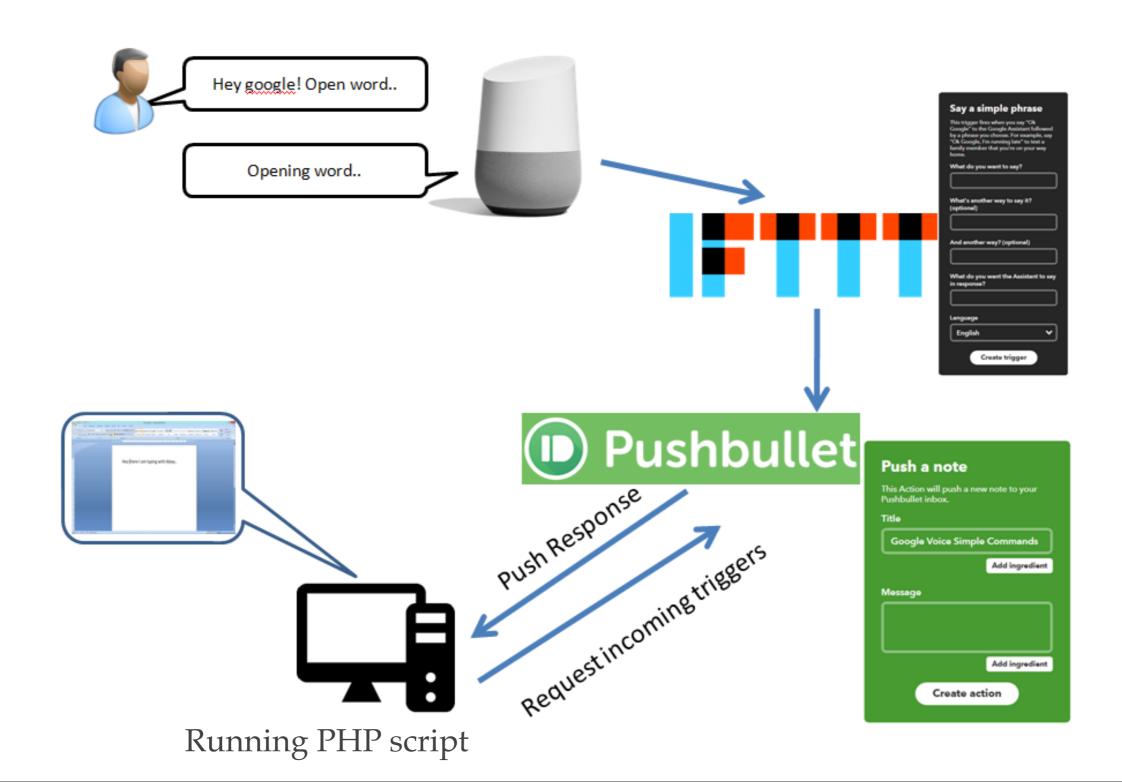
Tasker:

Wake up Computer on LAN

Dialogflow:

- Customized interactions to perform computer operations with backend Python script
- Control multiple PCs

IFTTT and Pushbullet



A Web App Approach..

Control Your PC

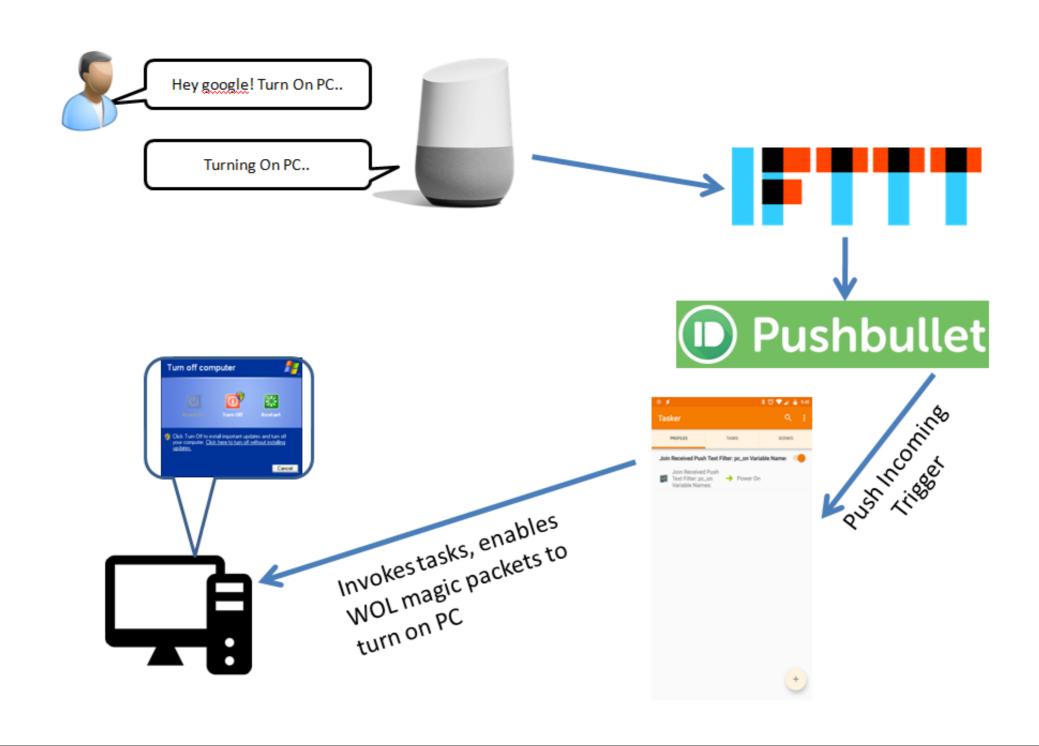
Control your complete PC or laptop functionalities such as Turn on/off, open any file or document, using smart speakers such as Amazon Alexa, Google Home, Google Mini, Google Max or smart phone running Google Assistant.

Notifications::

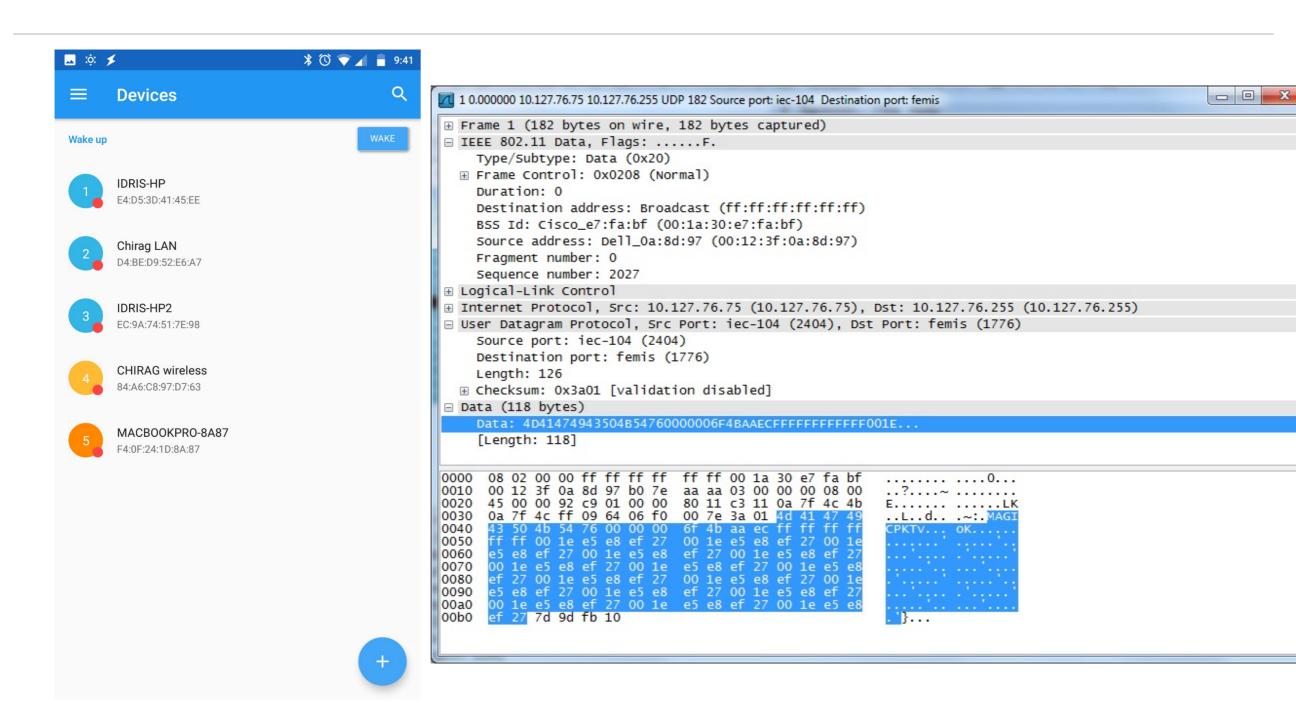
Incoming Push ...

Command: open

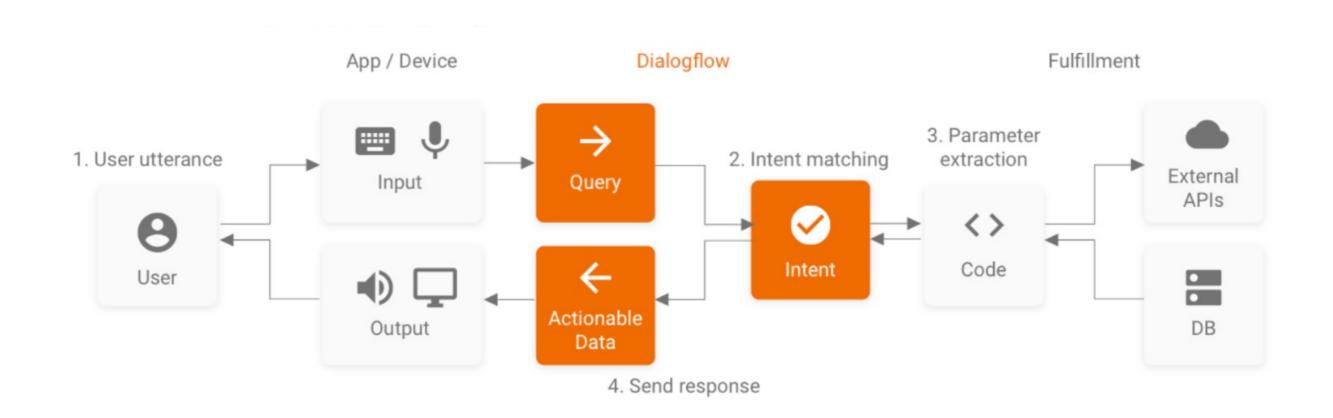
Tasker



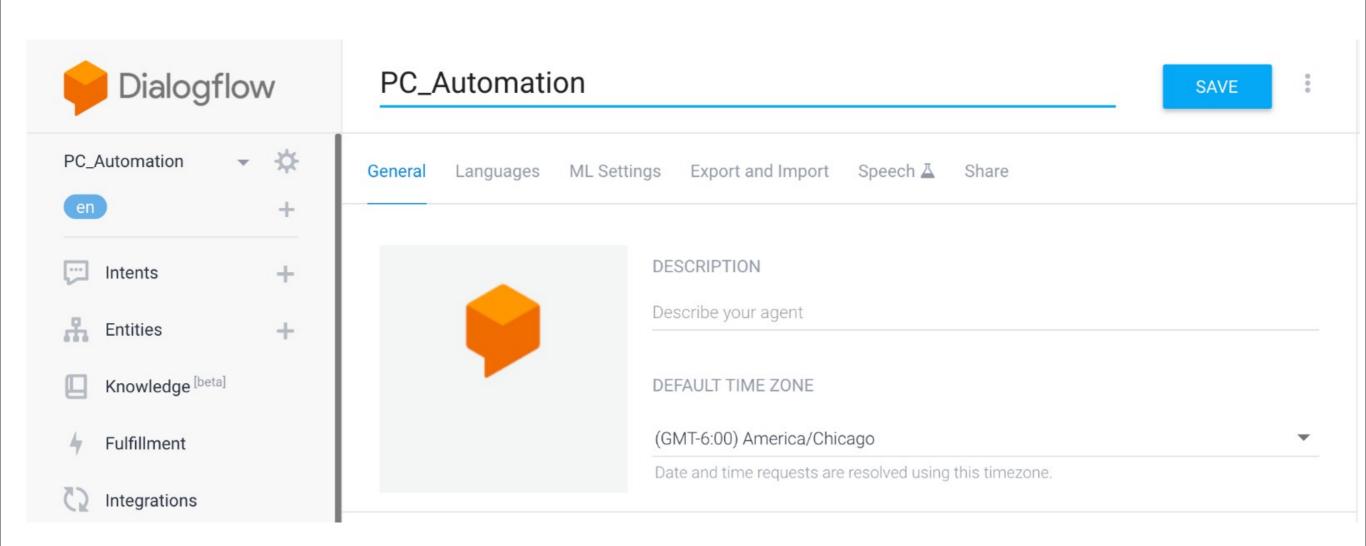
Wake on LAN



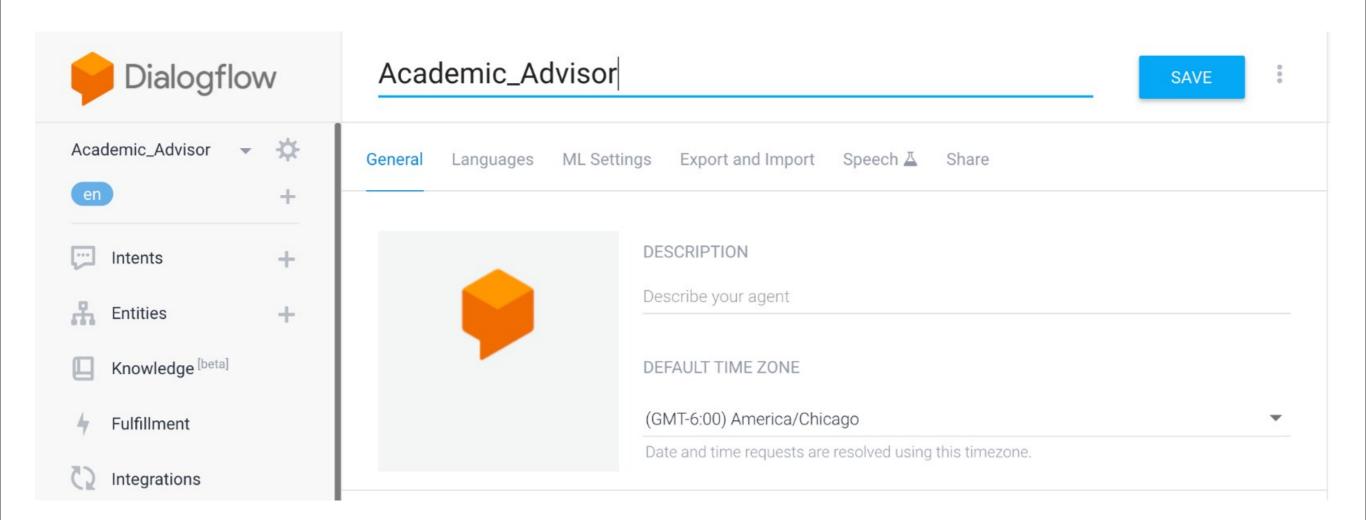
Dialogflow



PC Automation



Academic Advisor



Difficulties

- IFTTT with Alexa has not options to give parameters
- * Turning system on using WOL wireless has issues
- * Turning system on requires pre-hand configurations

Future Work & Enhancements

- Seamless realtime Computer/Device operations
- Secure Turning On/Off Computers wirelessly
- Connecting Database with Dialogflow
- Connecting applications with Dialogflow
- Smoother NLP functionalities

Questions?

- Thank you.