



2018

# Automate Everything



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# Agenda

- PowerShell LEGO Mind storms aka. Mr. Brick!
- Mr. Brick from the cloud
- Mr. Brick Self-Service
- Mr. Brick Mobile Power App
- Putting it all together



# Google Assistant Tease

# Demo



# Mr. Brick



## Mr. Brick Components

- LEGO Mindstorms Starter kit + WIFI dongle (LEGO or NetGear WNA1100)
- Automate from PowerShell
  - Open Source .NET Library from GitHub

<https://github.com/BrianPeek/legoev3>



**Say hello to Mr. Brick**

Demo



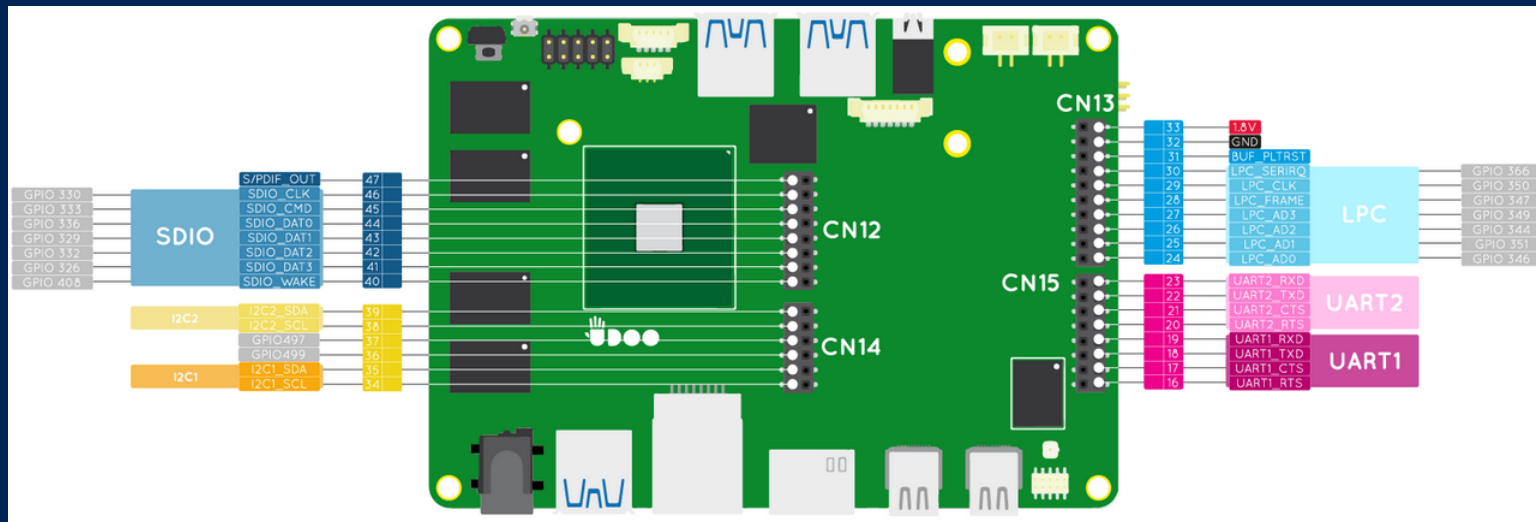
# UDOO x86

- X86 Maker board
- Quad Core 64-bit Braswell 14nm
- 10x as fast as PI3.
- Arduino 101 - Intel Curie
- Runs 3 x 4k screens (1xHDMI 2xDP)
- Running Windows 10 on M2 Disk

<https://www.udoo.org/udoo-x86/>

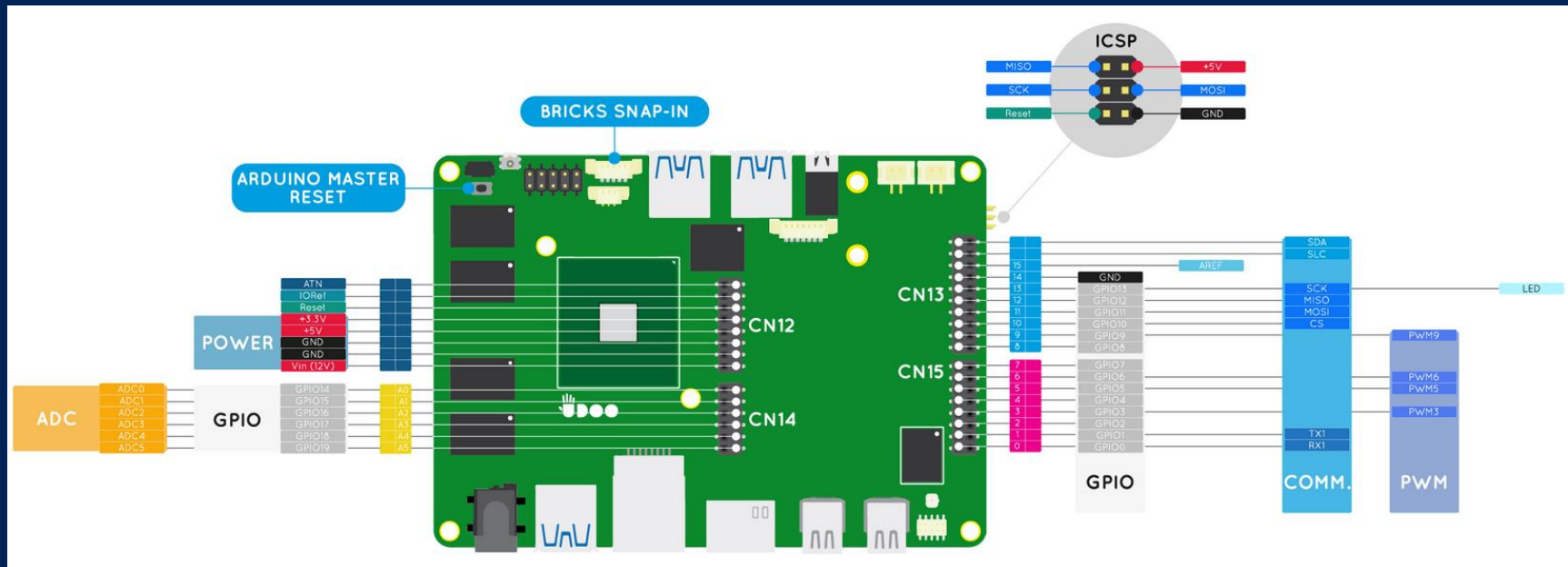


# UDOO x86 - x86 Pins





# UDOO x86 - Arduino Pins



# Mr. Brick from the cloud



# Mr. Brick Self Service

- Portal
  - Share Point Online / On-premises
- Engine
  - Azure Automation
- Trigger Options
  - Microsoft Flow
  - Logical App
  - SharePoint Workflow via Webhook



# Mr. Brick Self Service - Steps

- Order Robot Action
- Await Email Approval
- Trigger Mr. Brick
  - On-premises via WLAN

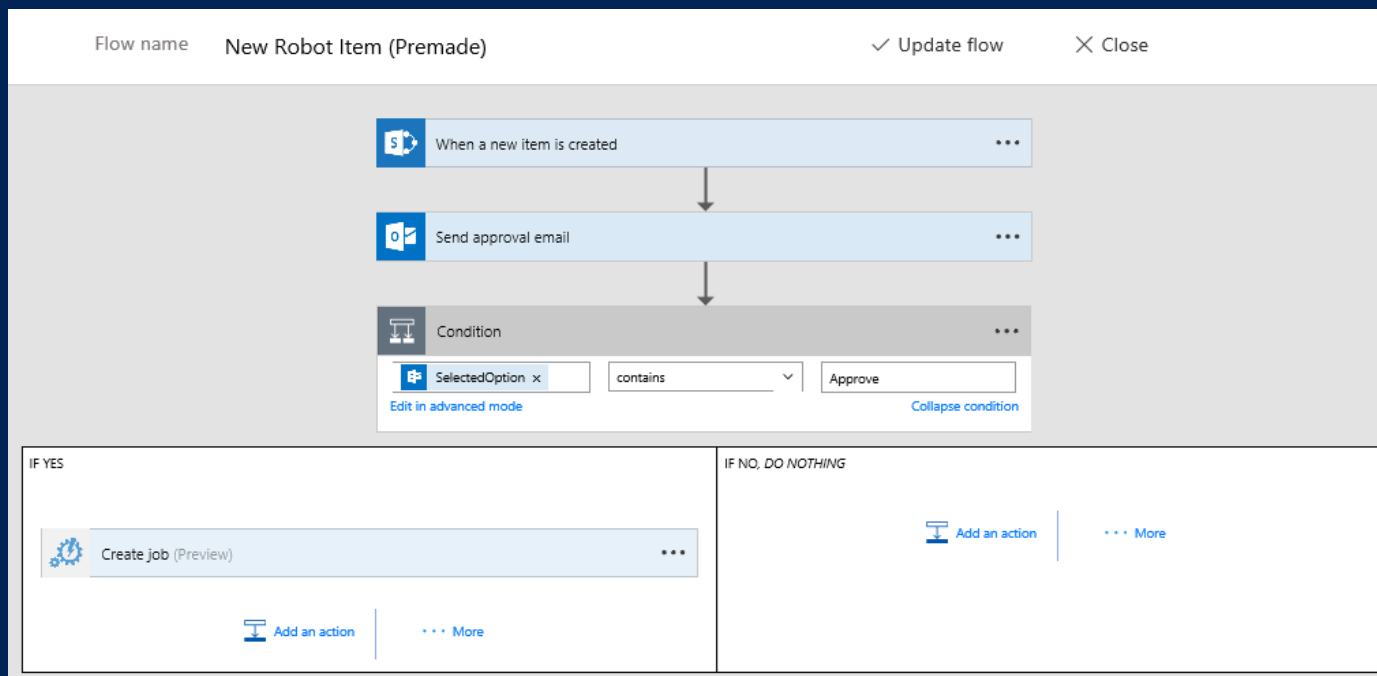


# **Mr. Brick Self-Service**

# Demo



# Microsoft Flow



<http://flow.Microsoft.com>

# Mr. Brick Self Service – Mobile App

- Microsoft PowerApp
  - No code required

I know, code is cool, but this is quick!

<http://powerapps.com>



# Mr. Brick Mobile Power App

# Demo





# Google Assistant / Home - Intro

- Google Action Console Project
- DialogFlow
  - Enable V2 Payload
  - Enable Webhook integration to Azure Function URL
  - New Indent
    - Enable Webhook fulfillment
- Azure Function
  - API (Twitter)
  - Azure Automation
    - Mr. Brick!



# **Google Assistant Mr. Brick**

# Demo



# Summary

- Having fun is important!
- Azure Automation rocks!
- SharePoint is a great tool for self service
- Microsoft Flow makes integrations easy
- PowerApps generates a mobile app in minutes
- Azure Functions eases integration between APIs



# Next Steps

- Now: 15 min break
- Grab a coffee
- Stay here to enjoy next presentation
- Change track and switch to another room
- Ask me questions or meet me in a breakout session room afterwards



# Questions?



# about\_Author

- Feel free to add information about yourself
- You may advertise for you or your company
- Keep slide at the end of your presentation
- Do not use presentation time for your bio
  - Instead, your bio is published in conf materials



# Voice controlled ITSM



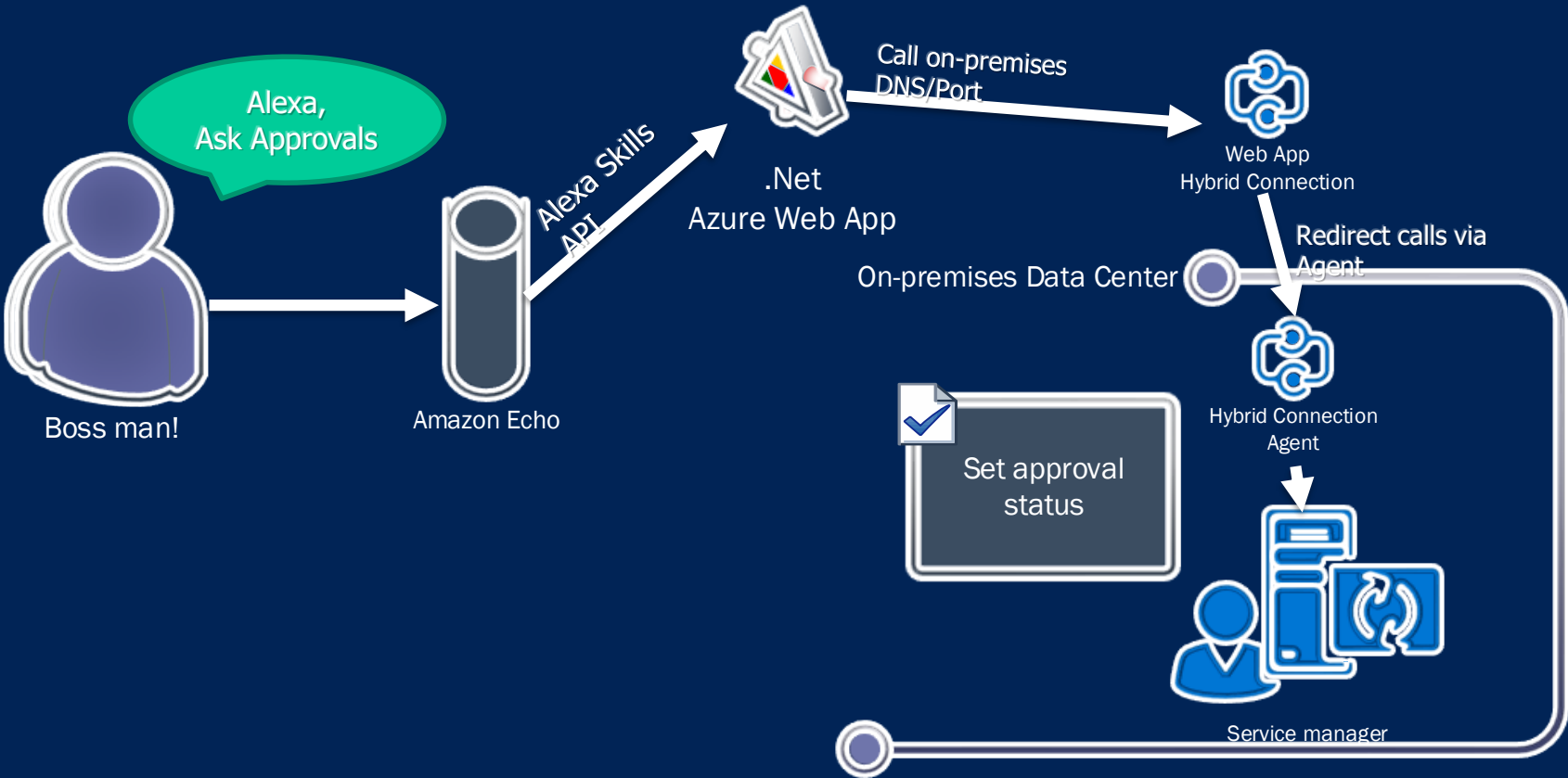
# Demo

Voice controlled ITSM





# Alexa Integration Setup



# Simple Console Demos

# Embed one-liners right into your slides:

```
PS> Get-ExecutionPolicy  
Bypass
```



# Demo

Try and use demos instead of dead slides.

Please do not dive into zillions of pages of code.  
Instead, if you can, turn your logical code blocks into functions, and store them in a module.

Share this module with your audience.



```
# use this template for code samples
# and follow these instructions to show perfectly
# color-coded PowerShell code:
```

```
# paste code to PowerShell ISE, select it, and copy it
# to the clipboard
```

```
Paste-Code -ToISE | Select-Code | Copy-ToClipboard
```

```
# to insert it with full color-coding into a slide,
# paste the code to your PPT slide. It will be black,
# and there is a toolbutton labelled (Ctrl) in PPT.
Click-ToolButton -Choose SymbolWithClipboardAndBrush
# Click the toolbutton, and choose the button that shows
# a clipboard with a brush. This will add color-coding
# back to the pasted code
```

PLEASE NOTE: You do not need to use PowerShell ISE to code, or to demo. Use whatever editor you like best.

These steps use PowerShell ISE to color-code your code correctly and consistently, and insert the color-coded code into the slide. Please help make all code look consistent. Many thanks!

