

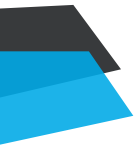
## Connecting your **RPi** to the **IBM Watson IoT Foundation**(NodeRed and Cloudant!)

AP Cloud | IoT Training Workshop



**AP Cloud Team**

Leadership Members and Trainers  
Miracle Software Systems, Inc.

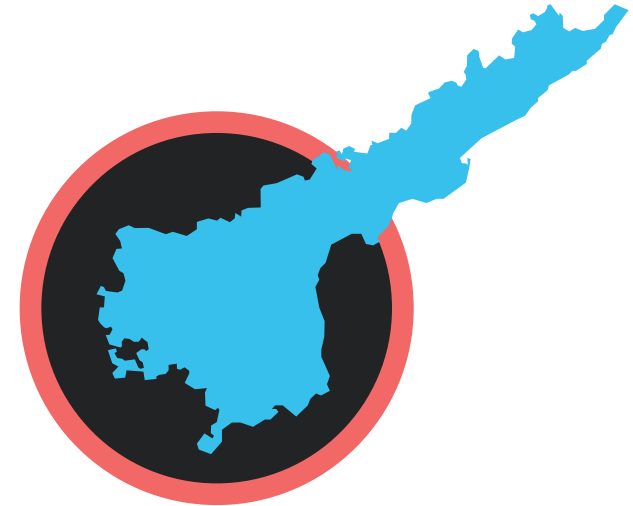


# Agenda

9:30 AM	Introducing AP Cloud, ViBUG and Workshop Agenda
9:45 AM	Setup and Installation
10:15 AM	Introductions to <b>IoT</b>
10:30 AM	<b>Watson</b> IoT Foundation
11:00 AM	Lab #1 - Connect OBD Simulator
1:00 PM	Interactive Lunch with <b>Innovative</b> Conversation
1:45 PM	Introduction to Node Red
2:00 PM	Lab #2 - Node Red to Cloudant
3:45 PM	Recap, Q&A and Interaction

# AP Cloud and Our Goal

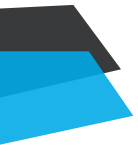
Delivering knowledge around **SMAC Technologies** to students across AP through the network of **50 associated** Universities and Colleges and industry knowledge coming from affiliated US Based IT Organizations



**APCLOUD**

World's Destination for **Digital Skills**

**100,000** Digital Transformation Skills Professionals enabled in **Andhra Pradesh** in the next 24 months



# Vizag Bluemix User Group

- Vizag-based User group focused on **IBM Bluemix** with topics including,
  - Cloud Infrastructure Provisioning
  - Cloud Application Architecture
  - Cognitive Services and Applications
  - IoT Platform and Devices



*Sponsored By*

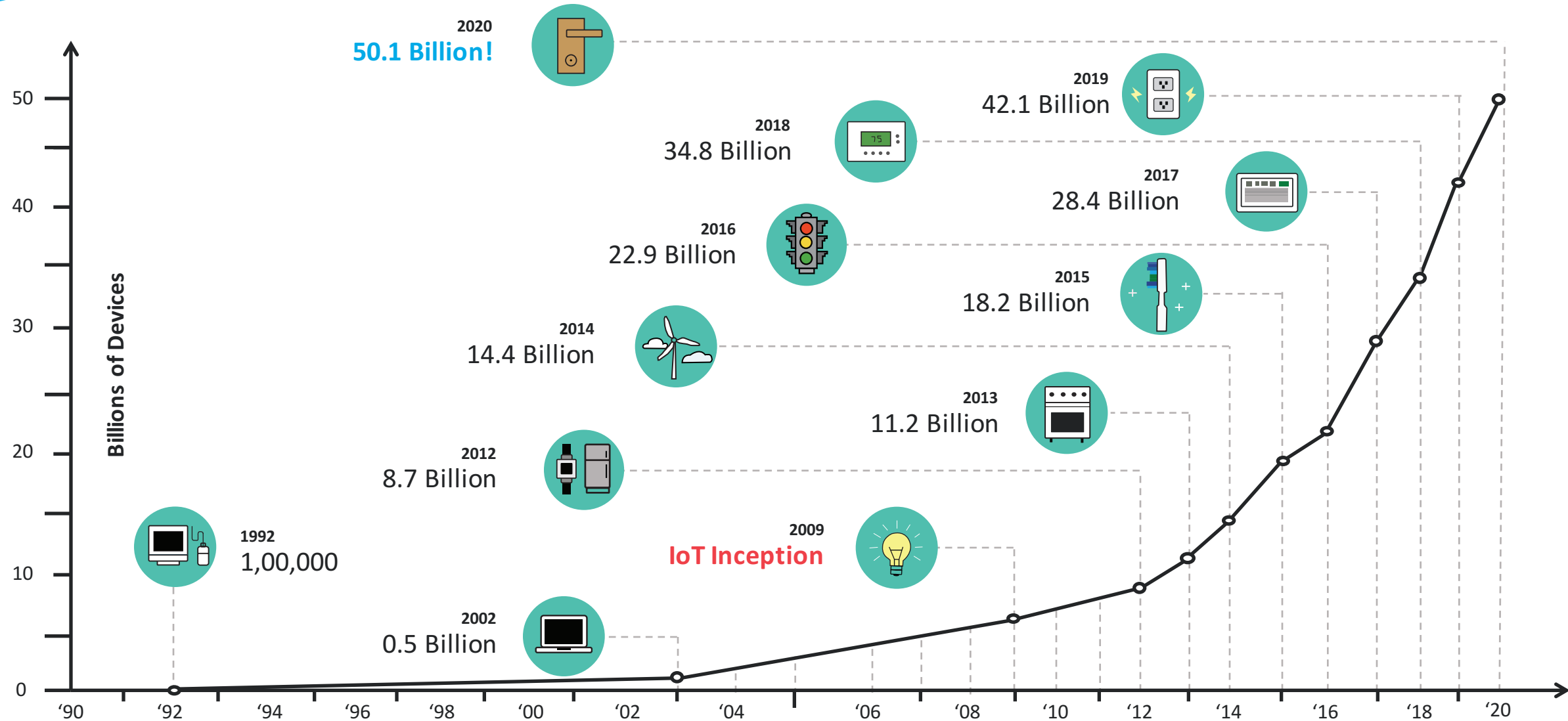




# ViBUG – Introduction and Goals

- **Spread Digital Technology** with platforms such as IBM Bluemix and Watson
- **Meet every month** and deliver hands-on workshops from a variety of speakers
- Ensure that **Vizag** can become a hub for the skills required for digital transformation
- Focus on **student** and **IT professional** enablement around IBM Bluemix
- **Have fun and build new things with technology!**

# An Explosion of Possibilities



# An Explosion of Possibilities

“From homes to retail stores, things around you are starting to become intelligent and communicate with each other! Welcome to the new age of **Connected Things** 😊”

**An Explosion of Possibilities**



# What can you do with **IoT Data**?



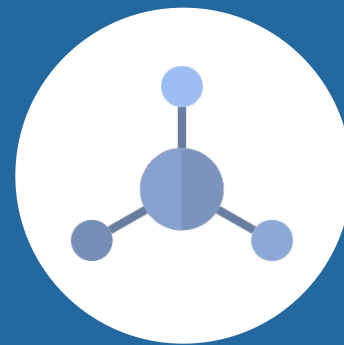
## Predict

Outcomes and demand through data and patterns collected by connected things



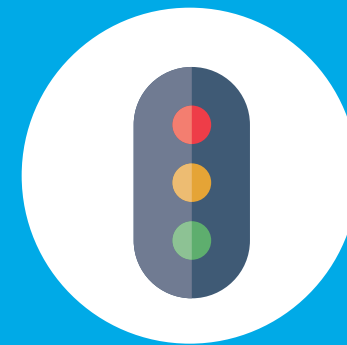
## Monetize

Data coming from your network of things and expose to the world for innovation



## Extend

Your devices and sensors as APIs and Services to be consumed in innovative ideas



## Control

Machines, homes and more through your smart phones and network of connections

Control your **car** with a **mobile** device (or) predict **machine** health and failure with a **sensor**!



## IBM Bluemix and the Watson IoT Platform

Connect Devices and Sensors to  
the Cloud in minutes 😊

# IBM Bluemix for Innovation



**Rapidly bring new products and services to market at lower cost**



**Balance agility with quality, security and governance**



**Extend existing IT investments into cloud business and delivery models**

## **Build your apps, your way**

Use the most prominent compute technologies to power your app: Cloud Foundry, Docker, OpenStack

## **Scale more than just instances**

Development, monitoring, deployment, and logging tools allow the developer to run and manage the entire application

## **Extend apps with services**

A catalog of IBM, third party, and open source services allow the developer to stitch an application together quickly

## **Deploy and manage hybrid apps seamlessly**

Get a seamless dev and management experience across a number of hybrid implementations options

## **Scale more than just instances**

Development, monitoring, deployment, and logging tools allow the developer to run and manage the entire application

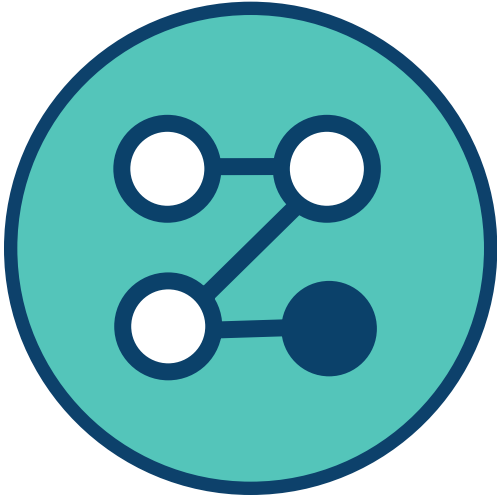
## **Flexible Pricing**

Try compute options and services for free and, when you're ready, pay only for what you use. Pay as you go and subscription models offer choice and flexibility

# Watson IoT Platform



Secure  
Communication



Responsive  
Connectivity



Storage and  
Access to Data

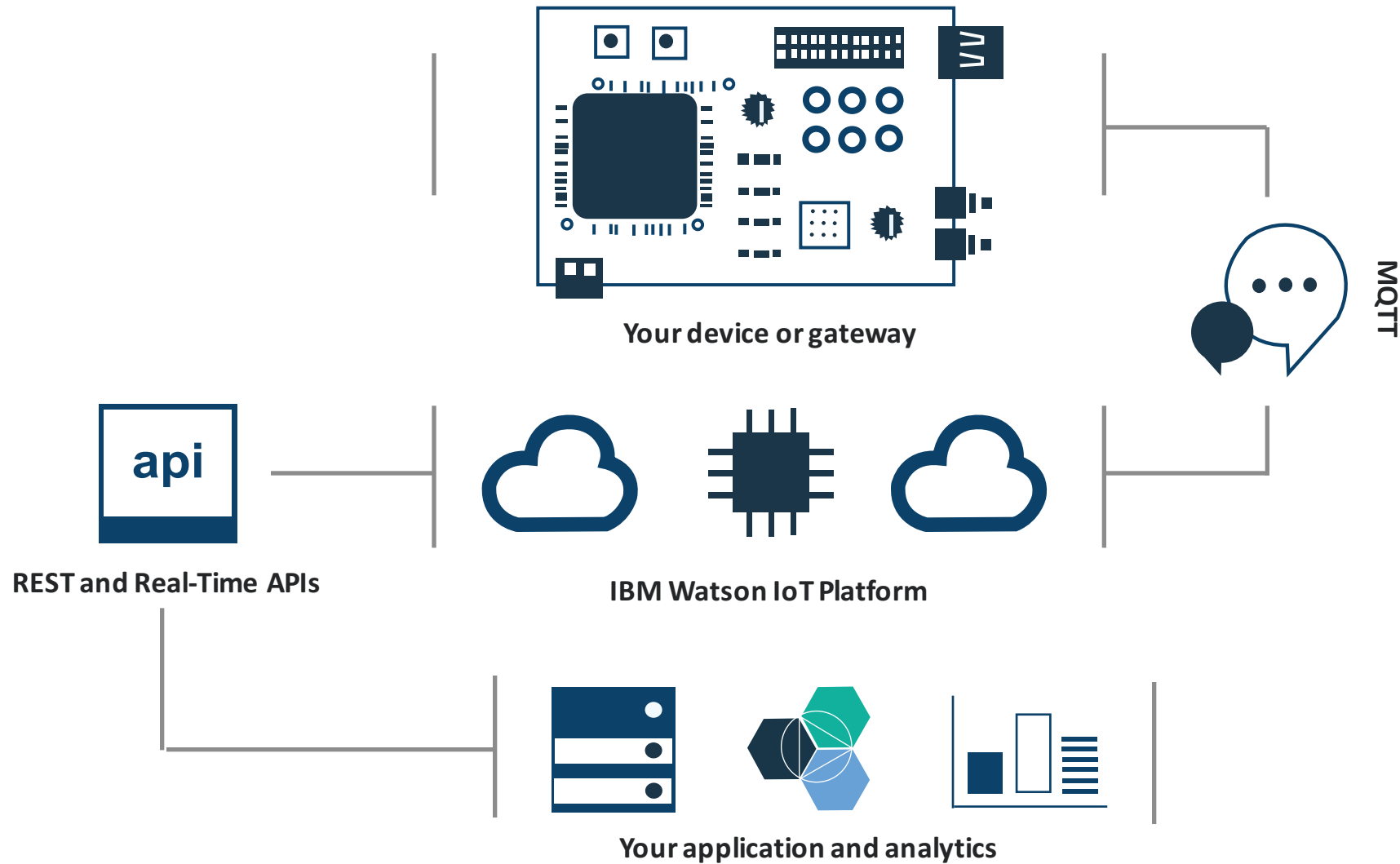


Device  
Management

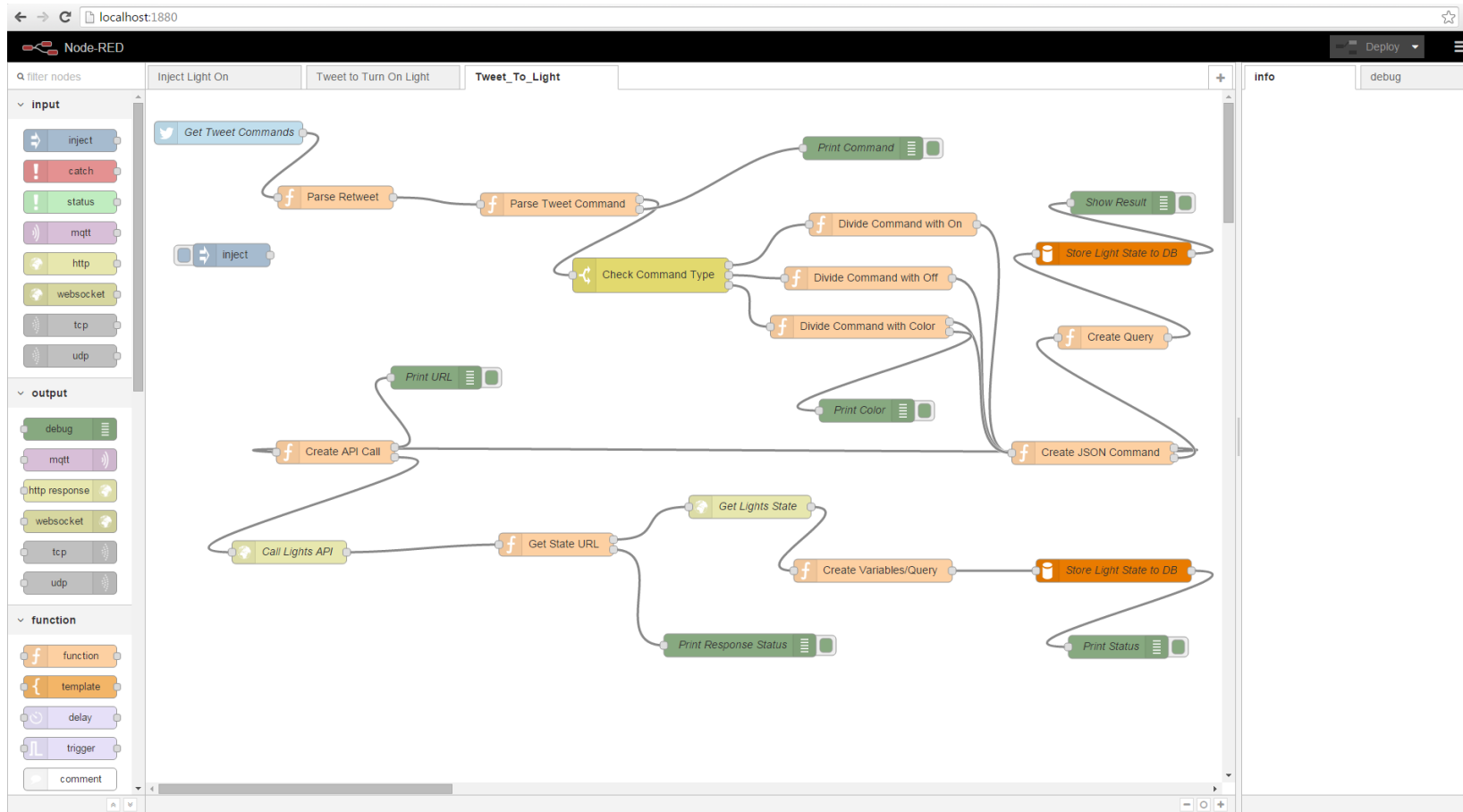


IBM Bluemix

# Understanding Things?



# Introducing NodeRed



A Visual Tool for **WIRING** the **Internet of Things** 😊

## Lets go **Hands On** with IoT and Devices

Storing data from your OBD  
Simulator to a Cloud DB

# Thank You

Our teams are dedicated to innovating with IT and redefining solutions for customer excellence. To learn more visit,  
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