

# Miracle's Hands-On Pre-Conference Workshop @ Interconnect 2016

From IOT to APIs | We have everything for you





### The **Expert** Team



Chanakya Lokam
Director Marketing
and Innovation



Hanu Veluri Director – EDGEi and API M



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Snehansu Bhuyan
Technical Architect
API Management



Santosh Soni SVP – Software Services



Jyotsna Duvvuri
Practice Manager
DevOps and Mobile



Bharathi R VP – Product Engineering



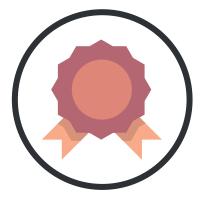
Kunal Mittal
Practice Manager
Business Integration



### The Miracle Story



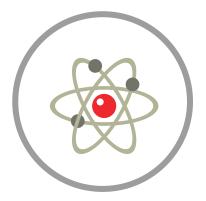
**Customer Satisfaction** 



Quality and Efficiency



Affordable Innovation



Talent Eco-System

12
Global
Locations

15+
Technology
Partnerships

Technology Accelerators

25+

20+
Years of Expertise

500+
Certified
Professionals

85+
Fortune 1000
Customers

2000+

Employees

Globally



### **Miracle Innovation Labs**

### **Empowering Change through Innovation**

Our Teams leverage years of real-time experience and applied research to bring value-added and innovative services to your disruptive IT initiatives.

Cost Differentiation and Labor Savings alone are not enough for an enterprise to grow!!





### Completely HANDS-ON ©

# This is an Innovation Session with complete Focus on Innovation, Digital and Technology!



Focus on Digital Technologies



2 Hours of code for you ©



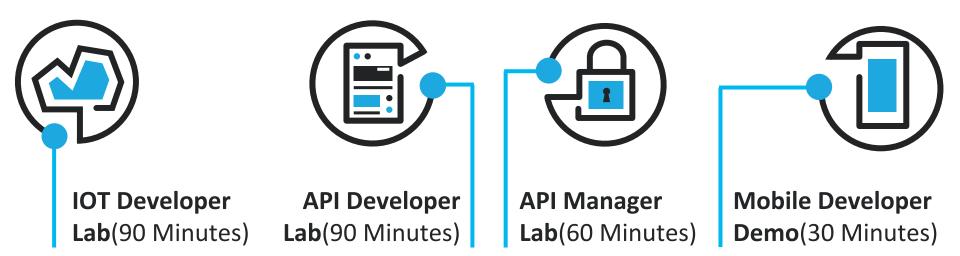
Completely Guided Labs



Innnnooooovation all the way!



### Today's Labs and Demos



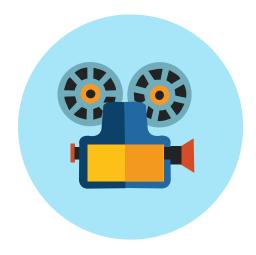
Node.js, StrongLoop, JavaScript, Loopback, Express and Jquery Mobile UI

Internet of Things, The API Economy, Enterprise Mobility and more

IBM Bluemix, MobileFirst, DataPower Gateway and API Management



### Our Innovation Zone!







TRY OUT ONE OF OUR DIY LABS



TWEET TO OUR COOL LIGHTS

Come and visit us at Booth #402 for more information, fun and innovation!



### **Goals** for the Day!

- ✓ Connect and Register a Raspberry Pi to the IBM IoT Foundation
- ✓ Create and Deploy a Node Red Flow to Filter and Store the Sensor Data
- ✓ Create and Expose a REST API for the Sensor Data using StrongLoop
- ✓ Manage and Publish your REST API using IBM
  API Management
- ✓ Make sure that everybody has fun ②



## **Schedule** for the Day!

8:30 AM	Introductions, Configurations and Kick-Off
9:15 AM	IoT, Bluemix and NodeRed Lightning Talk
9:30 AM	Connecting your RPi to the IBM IoT Foundation
11:00 AM	The API Economy and REST Lightning Talk
11:15 AM	Create and Expose the REST API with StrongLoop
12:45 PM	Interactive Lunch with Innovative Conversation
1:15 PM	API Management Lightning Talk
1:30 PM	Manage and Publish your APIs with IBM API M
2:30 PM	Live Demo: Consuming APIs on MobileFirst

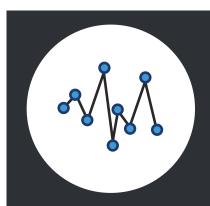




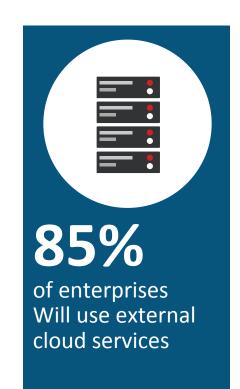
# An Explosion of Possibilities

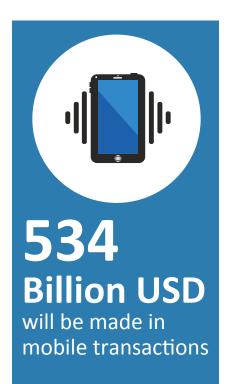
50 Billion Connected Devices that can compute and communicate!

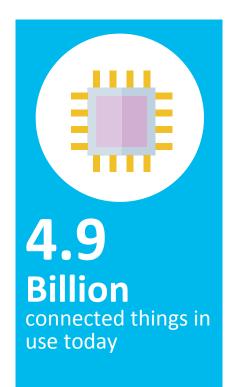
### **Digital Transformation**



2.5
Quintillion
bytes of data will
be created daily







**75%** 

GET

**POST** 

**PUT** 

DELETE

**API Economy** 

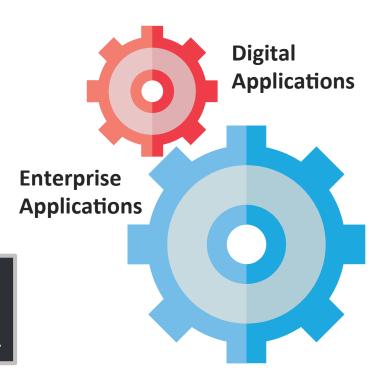
of Fortune 1000 companies will have public APIs

### The World of 2-Speed IT

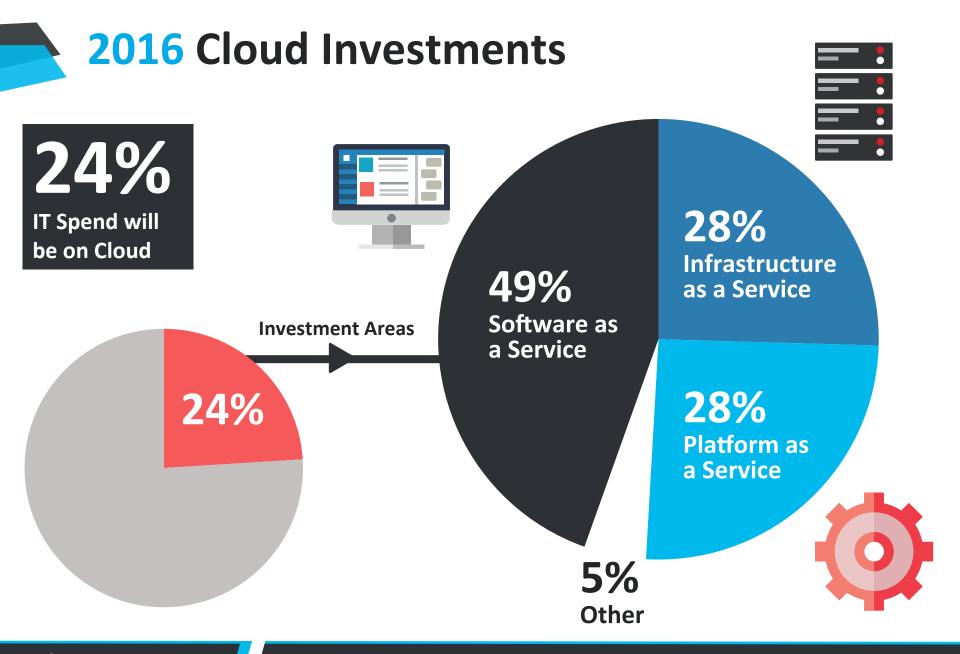
Today's Enterprise IT is divided into 2 different spheres of applications:

- Digital Applications
  - Rapid Change Cycles
  - Innovative Developers
  - DevOps and Agile Principles
- Enterprise Applications
  - Slow Change Life Cycles
  - Mission Critical Legacy Systems

**Multi-Speed IT** helps enterprises to make changes to systems at **varied speeds** independently, but helps to ensure that both systems are **aligned** at required points.









### The Hybrid Compute Path

Enterprise Investments are being spread across onpremise, private clouds and public services

### **Enterprise Applications and Data**

Consume your Applications and Data as a Service through Public Clouds(SaaS) Keep your
Applications and
Data with a OnPrem (or) Private
Cloud Infrastructure

Move your Applications and Data to a Public Cloud Provider in a laaS Model

Decision == Where do I put what?



Operational Factors



**Economic Factors** 



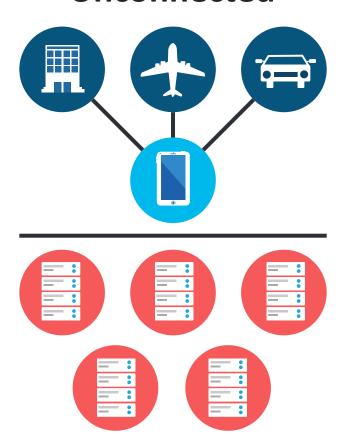
Security Factors



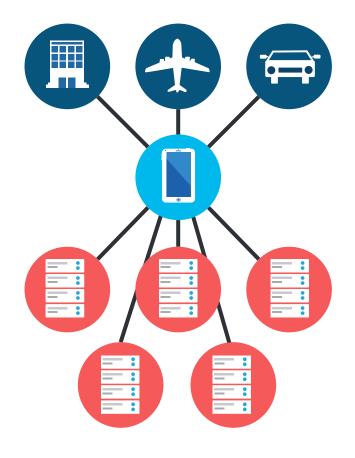


### **Not Connected = Not Engaging**

#### **Unconnected**

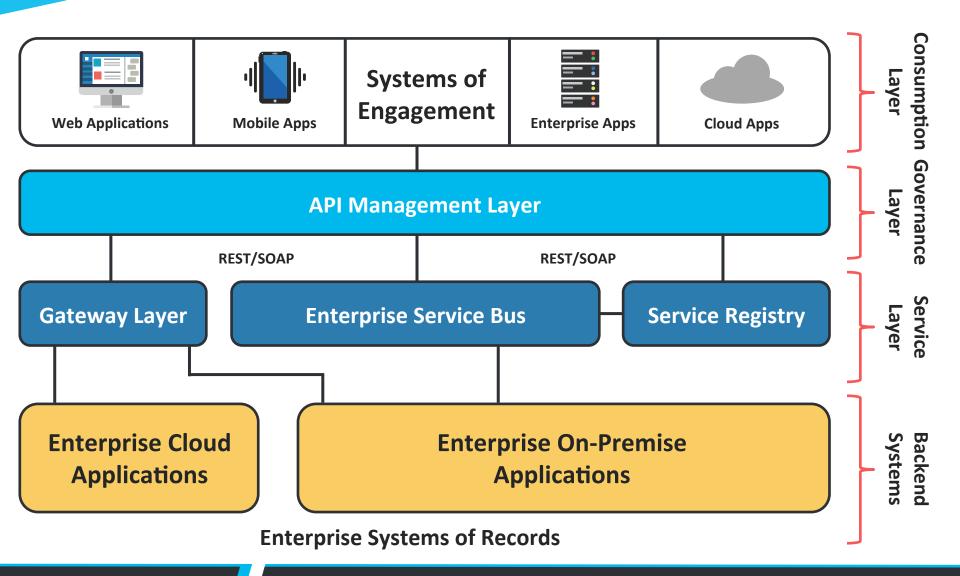


#### Connected





### **API Layers for an Enterprise Backend**





### **Continuous Engineering? Agile and Lean?**

**Agile** Methodologies taught developers to breakdown software development into smaller chunks to accelerate feedback looks and product changes for market need

Rapid Changes and Deployments of applications pose a problem for **QA/Ops Teams** which follow manual and traditional processes

