

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

From IOT to APIs | We have everything for you





The **Expert** Team



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DevOps and Mobile



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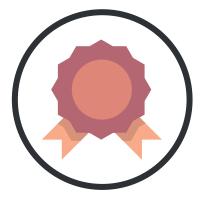
Kunal Mittal
Practice Manager
Business Integration



The Miracle Story



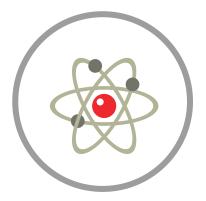
Customer Satisfaction



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



6 Hours of code for you ☺



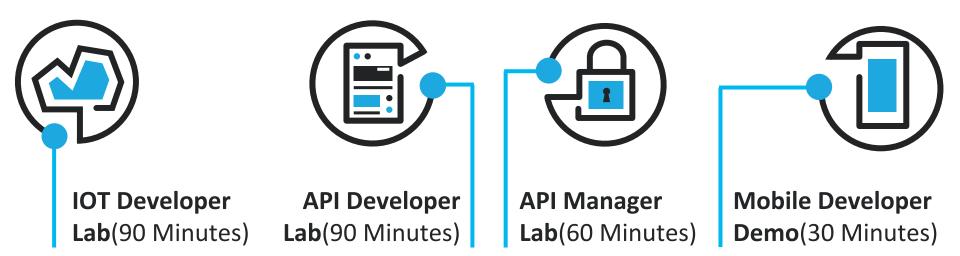
Completely Guided Labs



Innnnooooovation all the way!



Today's Labs and Demos



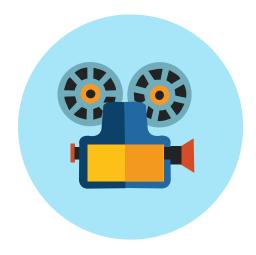
Node.js, StrongLoop, JavaScript, Loopback, Express and Jquery Mobile UI

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

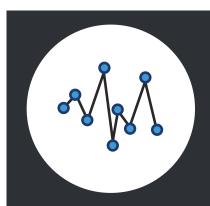




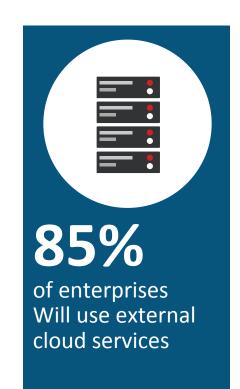
An Explosion of Possibilities

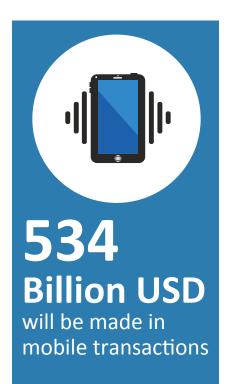
50 Billion Connected Devices that can compute and communicate!

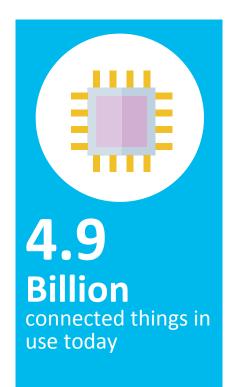
Digital Transformation



2.5
Quintillion
bytes of data will
be created daily







75%

GET

POST

PUT

DELETE

API Economy

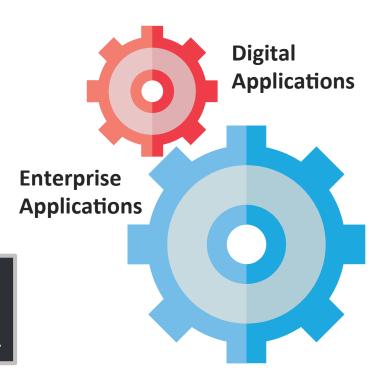
of Fortune 1000 companies will have public APIs

The World of 2-Speed IT

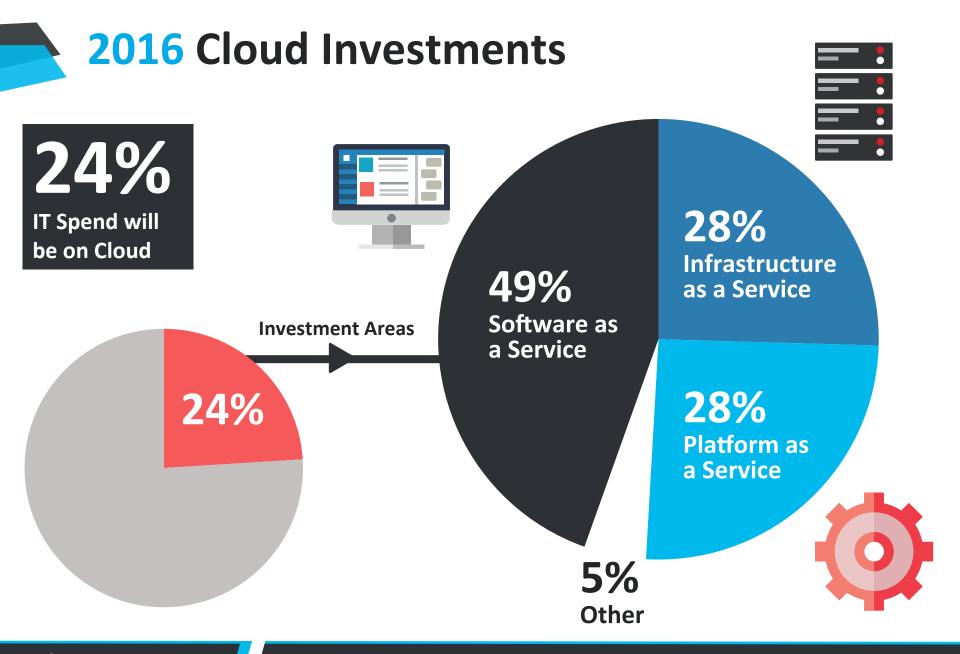
Today's Enterprise IT is divided into 2 different spheres of applications:

- 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



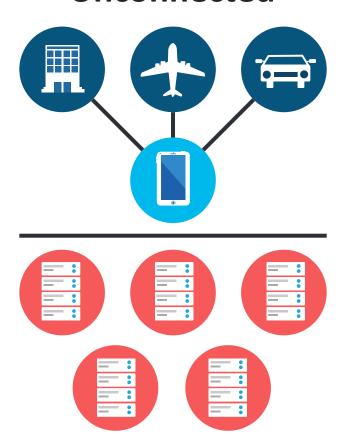
Security Factors



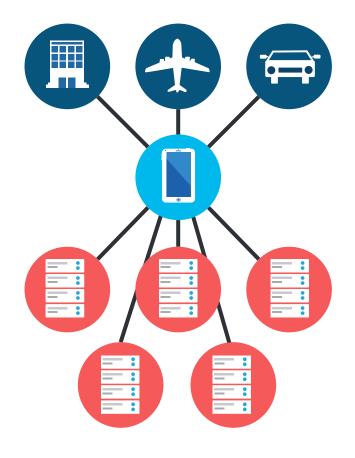


Not Connected = Not Engaging

Unconnected

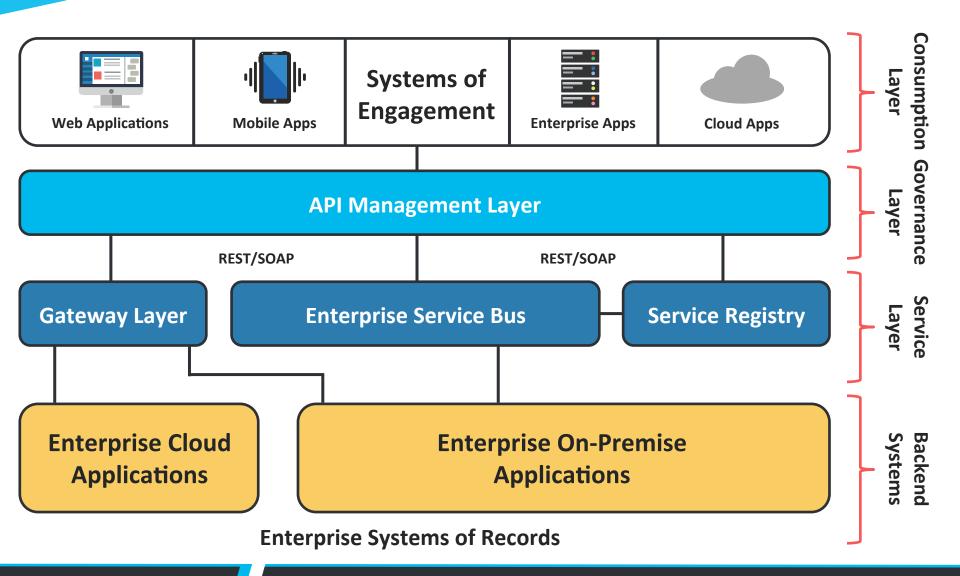


Connected





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

