illiilli CISCO

# A Practical Approach to a Cloud Strategy in the Digital World

September 20, 2016

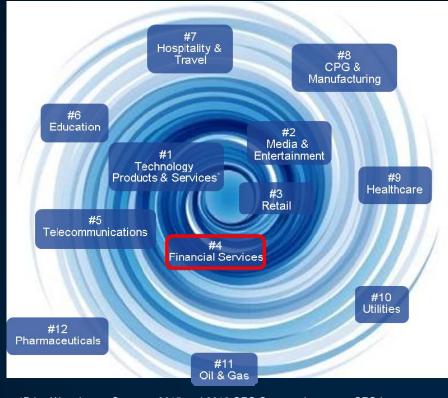
## Massive Change & Complexity in Financial Services

More change in next 5 years than past 50!\*

## **Market Disruptors!**

- In August 2015, there were 16 FinTech Unicorns with total valuation of \$45B\*\*
- According to IMD and Cisco research financial services is the 4<sup>th</sup> most likely industry to be disrupted
- Fifty-Six percent of capital markets organizations (56%) and asset managers (52%) see new market entrants as a threat\*

Technology leading the way...



\*Price Waterhouse Coopers, 2015 and 2016 CEO Surveys, Insurance CEO input \*\*FS unicorns and value source: CB Insights. Last updated August 10, 2015 277X

Data created by IoE devices vs end user

30M
New devices connected every week

180B
Mobile apps
downloaded
in 2015

78%
Workloads processed in Cloud DCs by 2018

**5TB+**of data per person by 2020

The Numbers are Huge and Growing Exponentially

# Msignifficta Dataline presente and Business Systems server Customer Digital Capabilities...



















**Gets Collected** 

## Today's Panel



Alex Revzin
Practice Lead
Digital Transformation Group
Cisco



Neal Secher
Managing Director
Client Technology Solutions
BNY Mellon



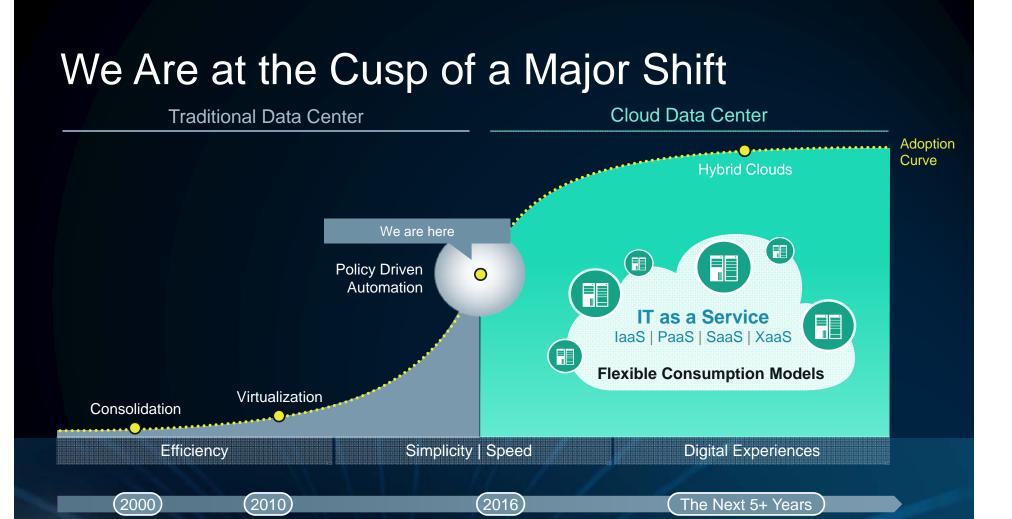
Jason Tavares
Executive Director
US Infra Engineering
Nomura Securities



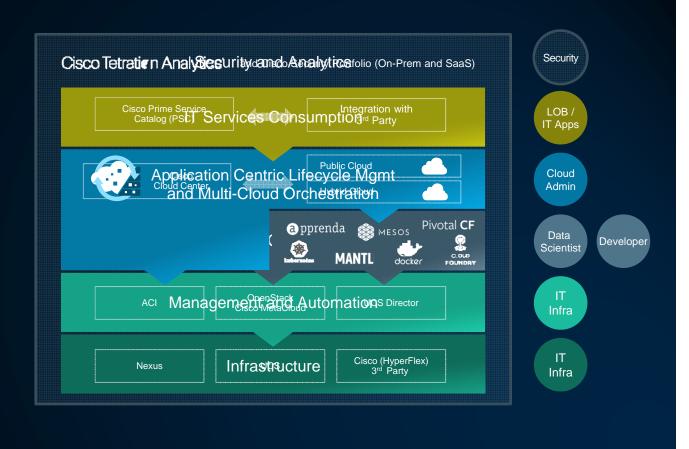
Bryson Hopkins
Director
Global Solutions Architect
Equinix



Dave Malik
Sr. Director
Advanced Services
Cisco



## Cisco On-Prem Stack for Secure Hybrid Cloud



## Pervasive Visibility and Analytics at Scale

'If you can't see it, you can't secure it'

Collect All Data Everywhere in the Network

Fabric Wide Application Visibility

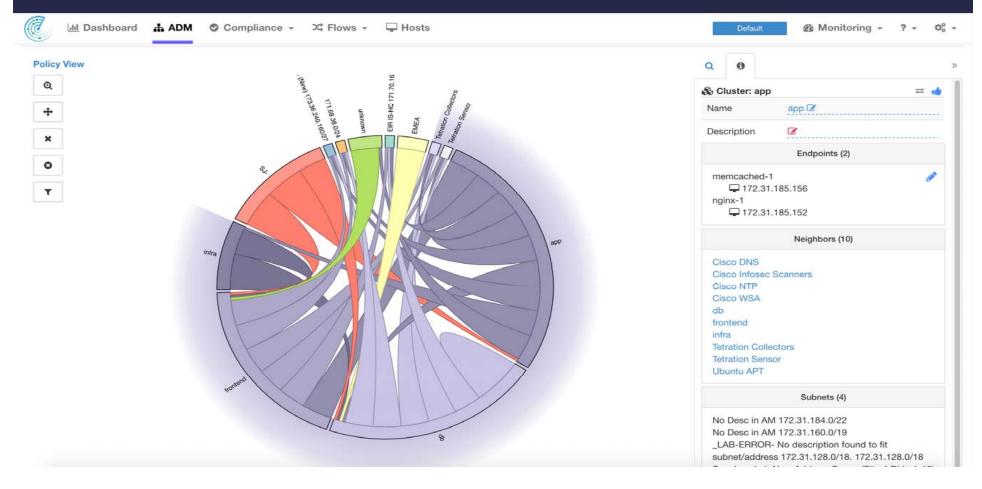
Single Source of Policy Truth

Network and Application Audit and Compliance

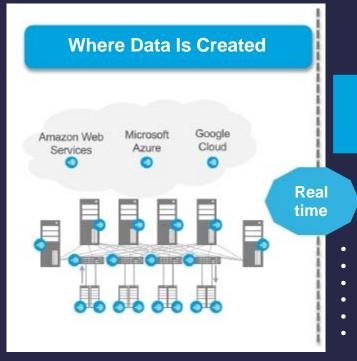
Fabric Wide Application DVR



# **Application Dependency Mappings**

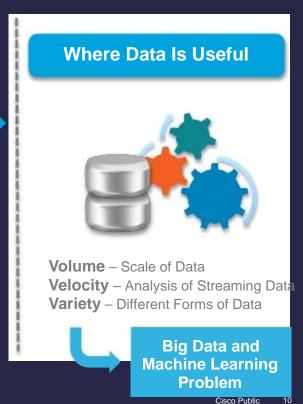


# Streaming Telemetry is a Game Changer Monitoring is becoming a big data problem!



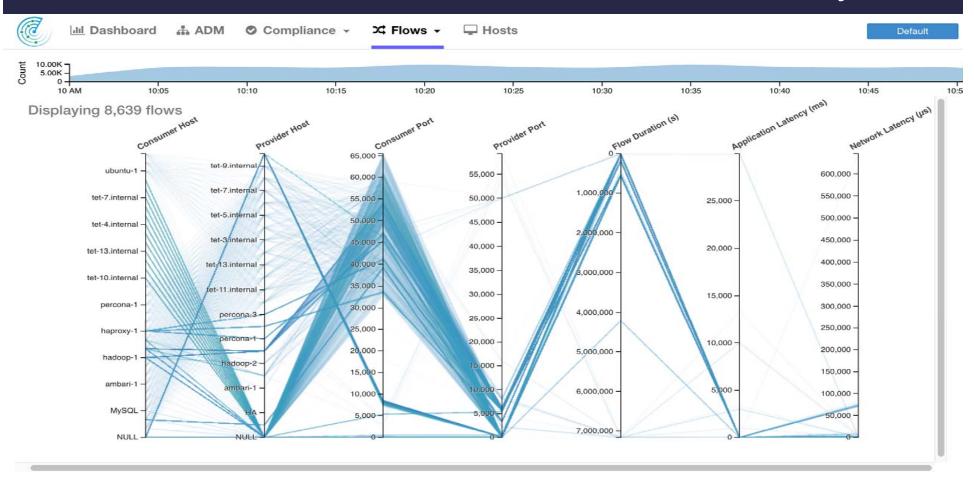
**Removing limitations and** complexity

- Streaming paradigm
- Densor Sensor framework
- Increased data granularity
- Correlate Telemetry to DATA plane info
- · Update on every event
- Multiple data source



© 2016 Cisco and/or its affiliates. All rights reserved

# Search BILLIONS of Flows Instantaneously

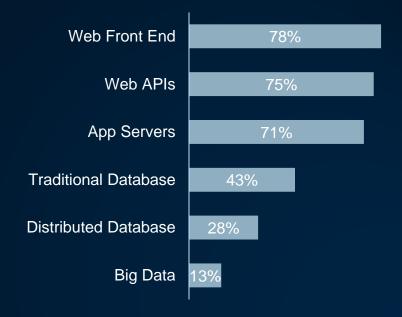


## Containers - Top Use Cases and Workloads

### **Container Use Cases**



### **Container Workloads**



## Five Crucial Questions to Ask Yourself



1 Visibility

Does your security infrastructure deliver your threat visibility into your entire network?



2 Intelligence



**3** Automation



4 Retrospection



5 Cloud

How effective is intelligence?

Do your security technologies talk to each other? When one product sees a threat, can it tell another to change the user's access?

Can you go back and change your position on a file that was initially deemed safe if it is later determined to be malicious?

Are all of your employees protected on and off premise?

## Security Solutions



#### **Cloud Service Router**

- Built in Security and Application Aware
- Highly secure VPN gateway
- Comprehensive WAN Functionality



#### **AMP**

- See a threat once, block it everywhere
- Most effective solution for known and emerging advanced threats



### **Next-Gen IPS (FirePower)**

- Real-time contextual awareness
- Full-stack visibility
- Intelligent security automation



#### **OpenDNS**

- Security from the cloud
- Blocks 95% of threats before they cause damage



### **Next-Gen Firewall (ASA>FTD)**

- Prioritizes threats
- Automates response
- Improved malware protection
- Fully integrated management

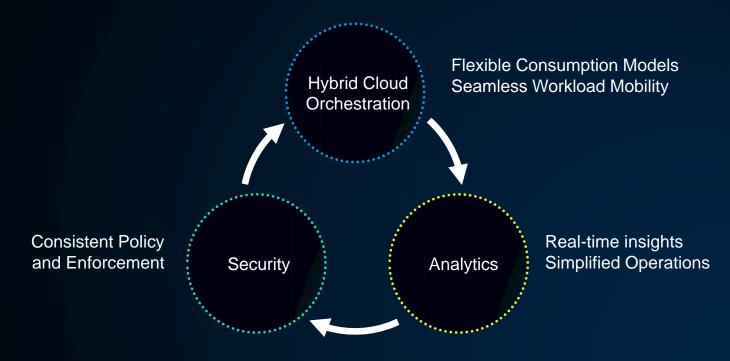


#### **Stealthwatch**

- Alerts attempted communication with an infected host
- Prevents infected host from communication within the network
- Uses Network as a Sensor to contain and minimize threats

# Lightning Round

# Feedback Loop Methodology





## Cisco @ HPC for Wall Street

See demos and connect with Cisco and our partners in the State Suite

