



# Build hybrid/multicloud architecture using private connection to Oracle Cloud

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Architecture

Presented on: October 2, 2017

Our lack of flexibility is hurting us more than we know, and the pain is growing exponentially.

85019

CAT 165 2916

## Kodacolor II

**CAT 165** 

## Kodacolor II

CAT 165 291

#### Kodacolor COLOR NEGATIVE FILM

0.9/1983

35019

CAT



camera

KODAK INSTAMATIC X-15

C126-12

Kodacolor II



POSURES

26-12

acolor II COLOR PRINTS

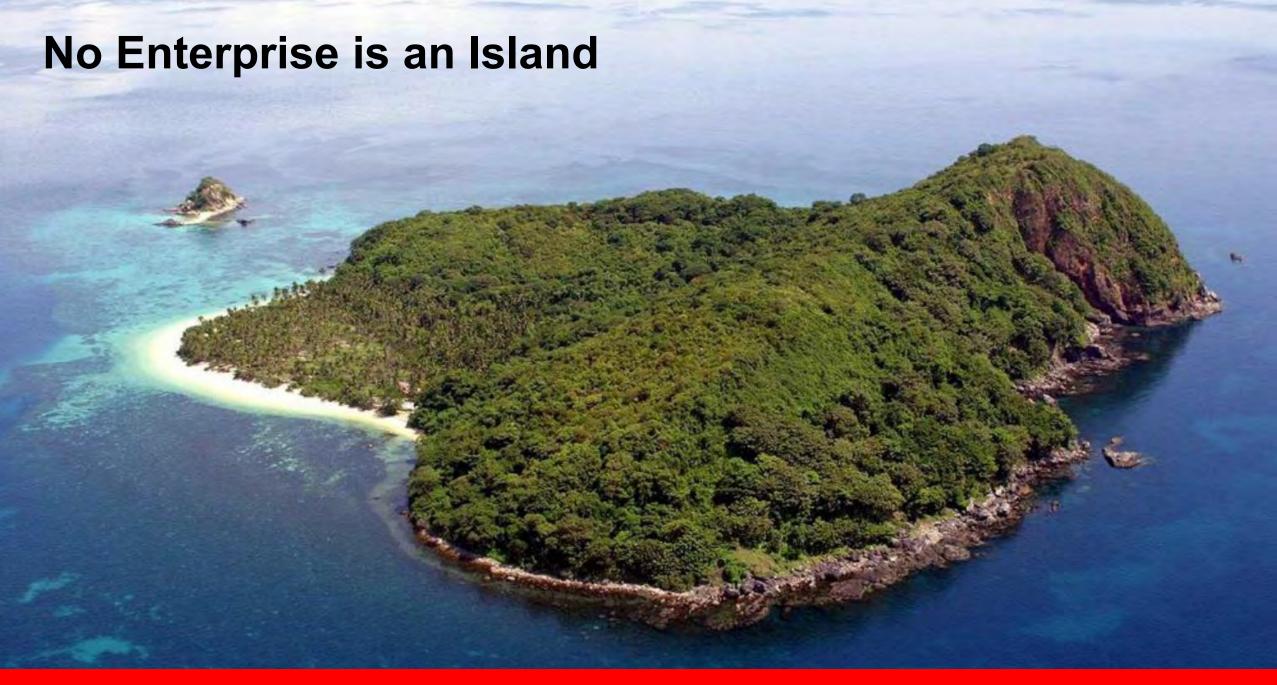
XPOSURES

26-12

color II COLOR PRINTS

POSURES 26-12

Stefan Powell - https://www.flickr.com/photos/duchamp/





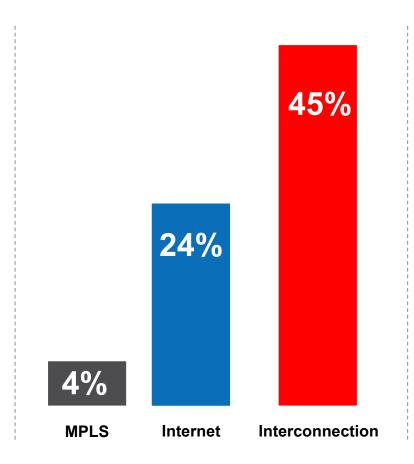
## By 2020, the Global Interconnection Index predicts Interconnection Bandwidth will outpace the growth of internet traffic by 2X and 6X the volume

INTERCONNECTION BANDWIDTH GROWTH...

...IS EXPECTED TO OUTPACE THE GROWTH OF INTERNET & MPLS TRAFFIC

5000 TBPS OF INTERCONNECTION BANDWIDTH IN ONE MINUTE COULD CONCURRENTLY PROCESS



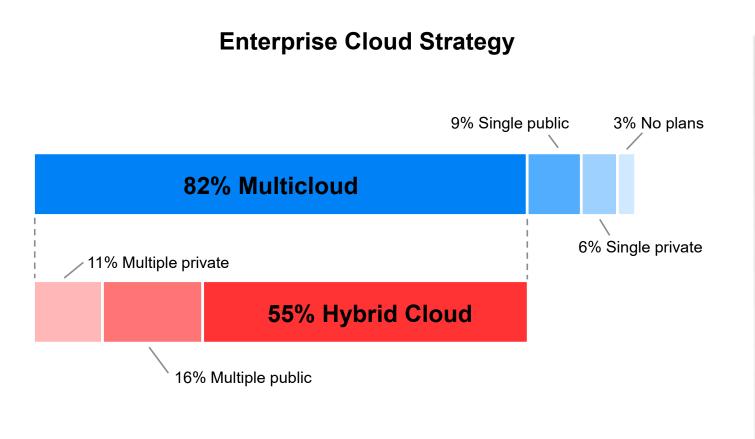


1.9B	PAYPAL TRANSACTIONS
4.5M	UBER DRIVER STREAMS
50B	IOT DEVICE STREAMS
18.8B	EMAILS WITH ATTACHMENTS
938K	CORPORATE TRAINING VIDEOS
837M	UCC CALLS
825M	DOCUMENT UPLOADS
35M	PRE-PRODUCTION 4K VIDEO STREAMS

Interconnection Bandwidth is defined as the total capacity provisioned to privately and directly exchange traffic with a diverse set of counterparties and providers at distributed IT exchange points

## **Enterprises Continue to Adopt Hybrid and Multicloud**

A majority of enterprises have hybrid and multicloud strategies already in place



#### **Hybrid Cloud**

 55% of enterprises have a hybrid cloud strategy

#### **Multicloud**

- 82% of enterprises have a multicloud strategy
- Cloud users leverage 6 clouds on average

Source: RightScale 2016 State of the Cloud Report

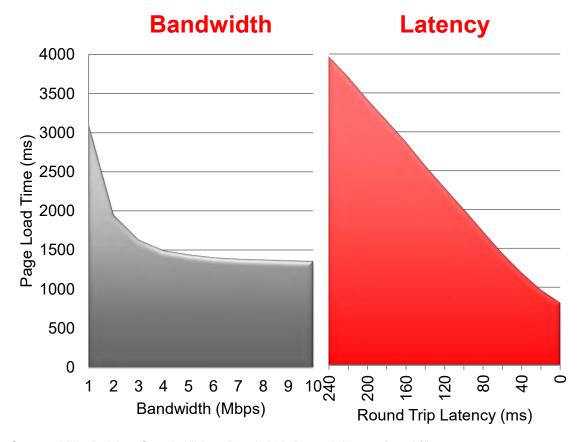


## **Proximity Matters**

### Distributed delivery improves performance

Globally distributed service delivery gets you closer to users





Source: Mike Belshe, Google, "More Bandwidth Doesn't Matter (much)"

## Oracle Cloud Infrastructure FastConnect at Equinix



#### On-premises

- Database
- Fusion Middleware
- **Applications**

#### Cloud at customer

- Cloud Machine
- **Exadata Cloud Machine**

#### **Connectivity matters**

Interconnection drives performance



Application and data portability



#### Oracle Cloud Infrastructure

#### laaS

- **Elastic Compute**
- Storage

#### PaaS

- Database
- IoT
  - Java

#### SaaS\*

- **HCM**
- SCM
- **ERP**

10



per application per location basis by local Oracle sales team

Third-party

networks

Internet

- Big Data Cloud Machine

#### Equinix Interconnection Platform



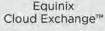
Oracle within

customer's cage

Cross Connect









FastConnect Locations

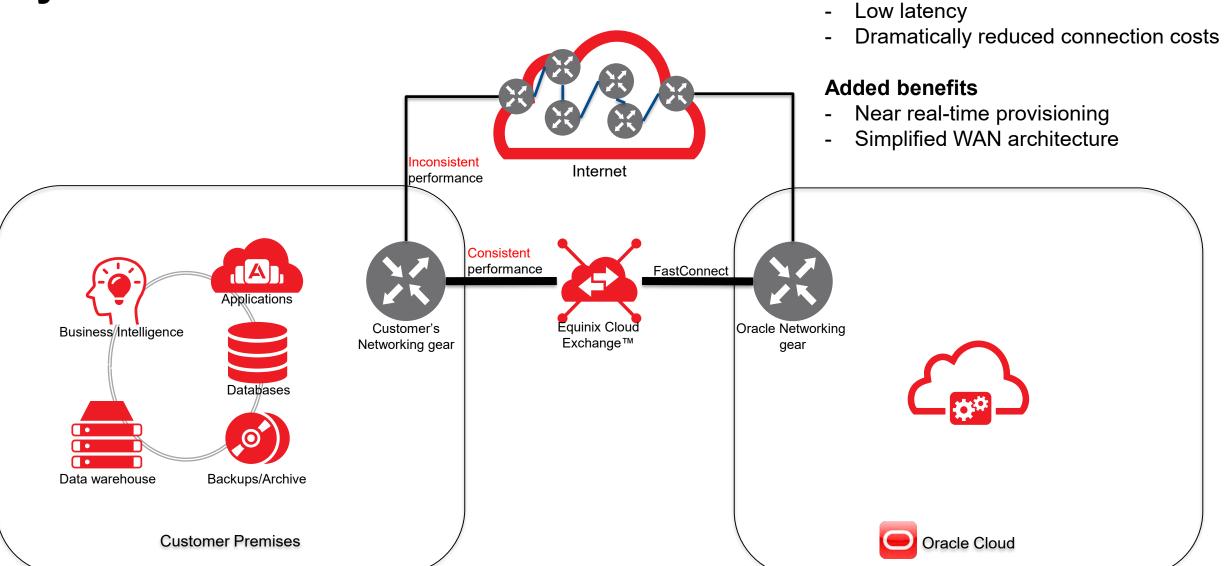
**Oracle Cloud** Infrastructure





**Equinix IBX® Data Center** 

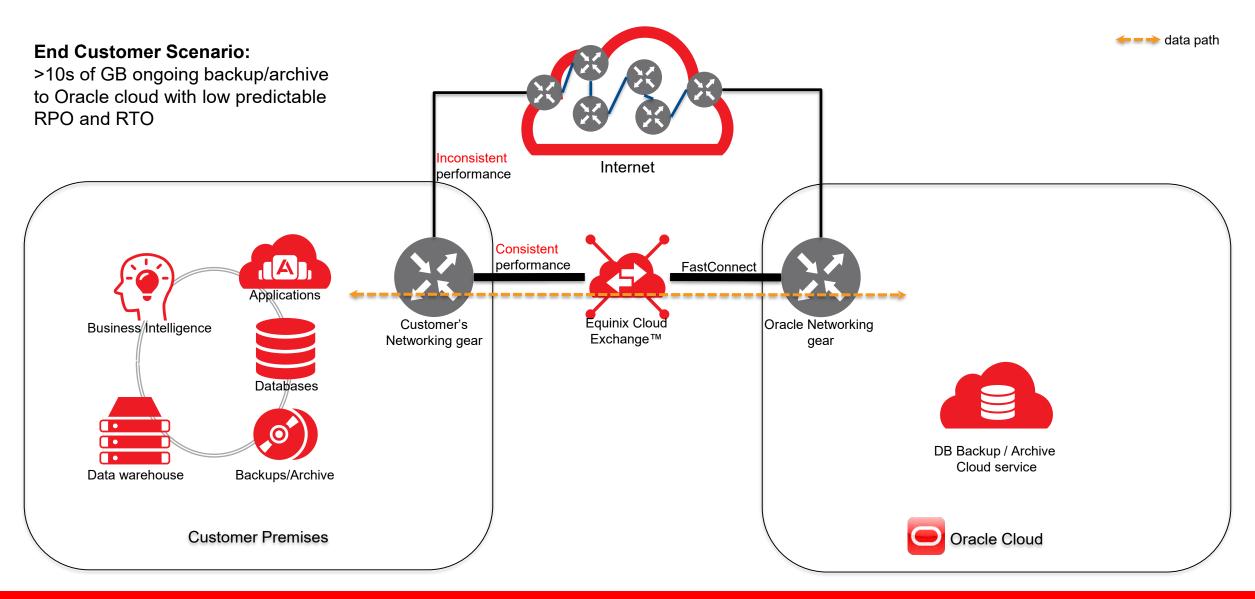
## **Hybrid Cloud Solutions**



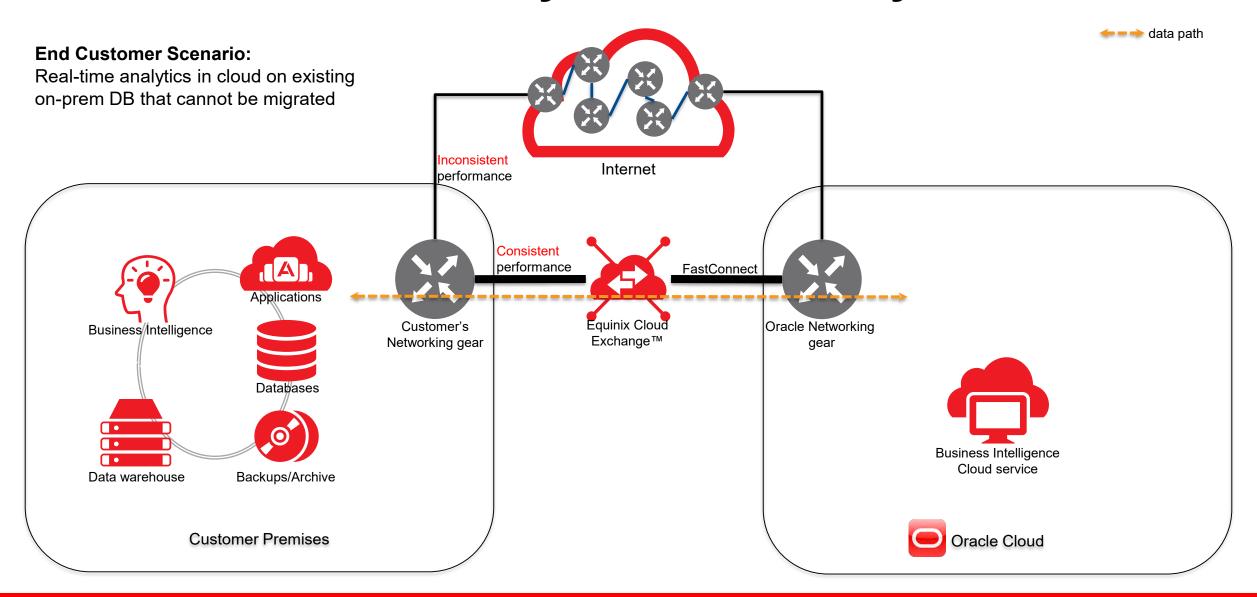
Bypass the public internet

High throughput

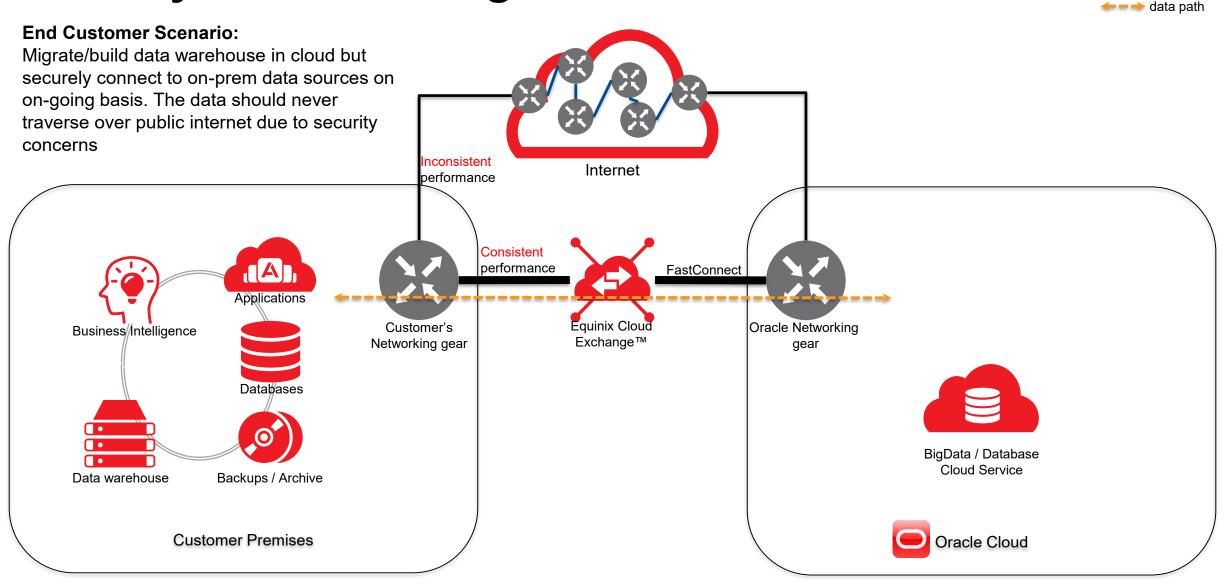
## High-throughput Use Case: DB Backup Cloud Service



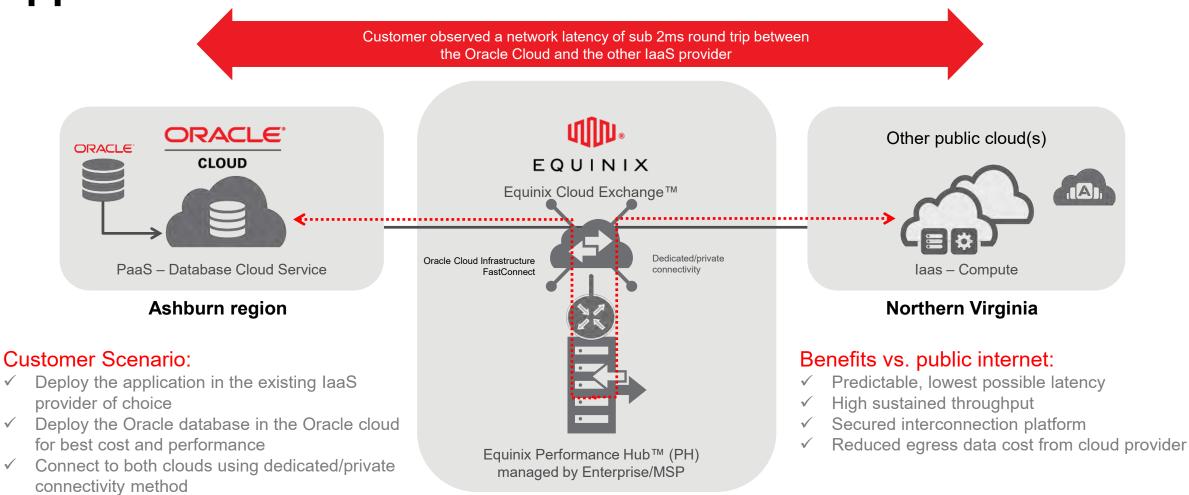
## Low Predictable Latency Real-time Analytics



## **Security Use Case: Big Data/DBCS**



# Multicloud Case Study: Database in Oracle® Public Cloud; Application in Another Public Cloud

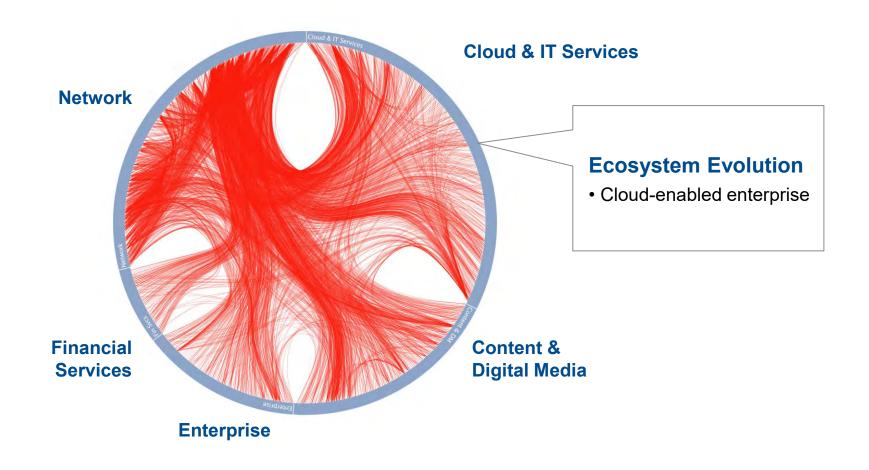


**Equinix Washington, D.C. Campus** 

## **Ecosystems: Silicon Valley**

Rich, cross-vertical connectivity: network, content, financial, cloud and enterprise

#### Silicon Valley 2010 - Current



## **Hybrid Cloud Models**

Combination of select services leads to hybrid cloud deployment using Equinix Interconnection Platform



Lift & shift



DB upgrades













Big data





**Customer Cage in Equinix** 

**Equinix Interconnection Platform** 

Oracle Services accessed via Oracle® FastConnect



**Enterprise Management** 



Cloud at customer

Database		Oracle® (
Fusion Middleware		Exadata
Oracle Applications		Big Data
Engineered Systems		
Exadata Database Machine		
Big Data Machine		



Oracle® Cloud Machine
Exadata Cloud Machine
Big Data Cloud Machine











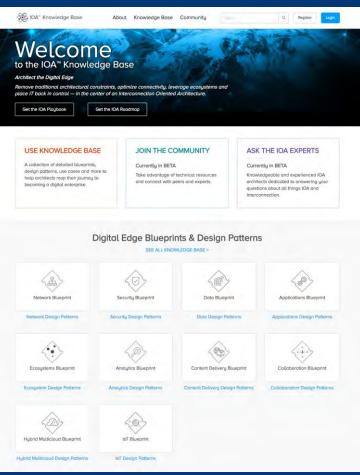
## Oracle® Public Cloud

laaS	PaaS	SaaS	
Compute—Elastic Compute	Data—Database	ERP	
Compute—Container Service	Data—DB backup	Human Capital Management	
Compute—Ravello	Big Data/BD preparation	Data	
Compute—Dedicated	Management Cloud	Analytics	
Compute—Engineered System	Golden Gate	Customer Experience	
Storage—NVMe	IoT	Industry Solutions	
Storage—Object	API Platform	Supply Chain	
Storage—Archive	Business Intelligence	EPM	
Cloud Loud Balancing	Mobile	Social	

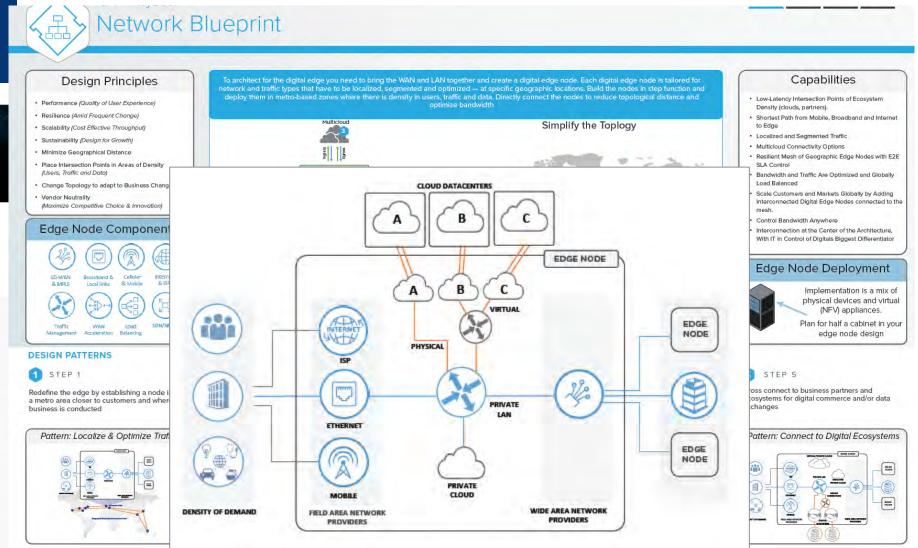
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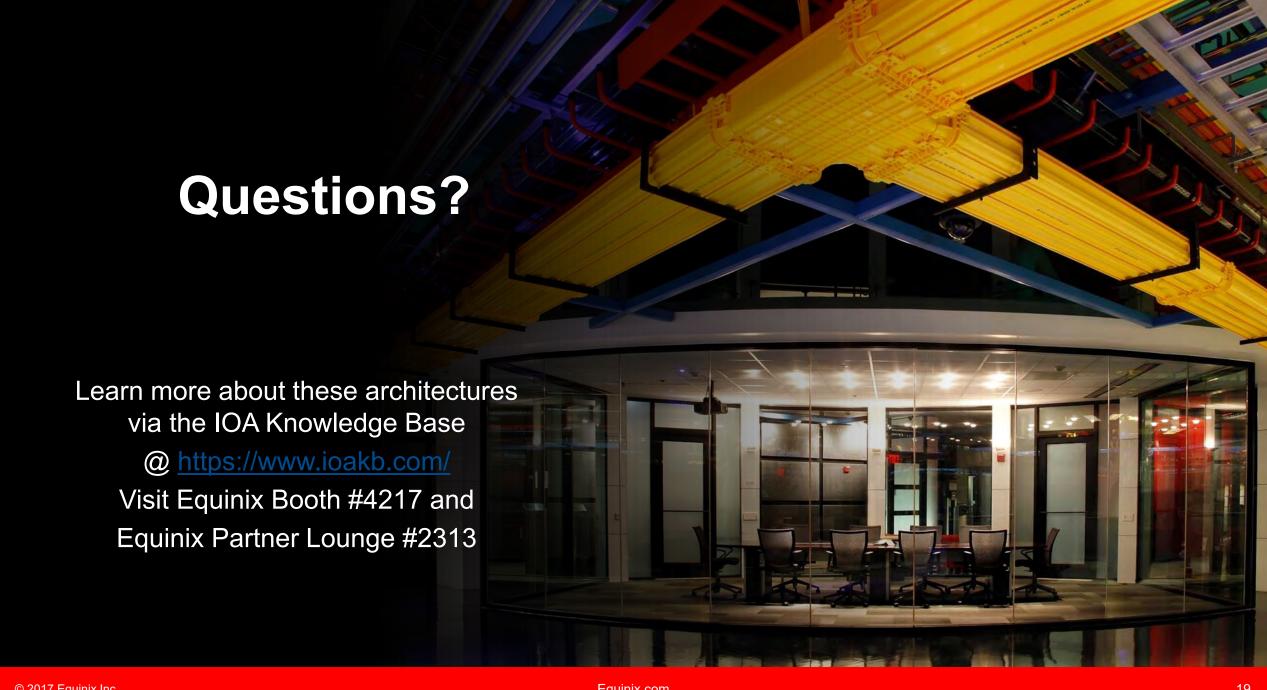
### IOA™ Knowledge Base & Community

**IOAKB.COM** 



# Designs & best practices available as blueprints and steps in the IOA Knowledge Base







WHERE OPPORTUNITY CONNECTS

## **Cloud Exchange Locations**

Available in 20+ top metros globally

