



an OSC Technical Education Webinar

With Julian Zhu, OSC June 28th, 2016





### Presenters:

- Julian Zhu
  - Principal Consultant, OSC
- Garret Grajek, CISSP
  - CEO, OSC

- Special Thanks:
  - David Chou
  - Microsoft, Technical Director





### Agenda:

- Clouds Defined
- Azure IAAS, PAAS, SAAS
- Azure in Hybrid Environment
  - 1. Network & Security
  - 2. Services Integrated
  - 3. Big Data
- OSC Overview
- Q&A





Garret Grajek, OSC CEO – Identity/Security Specialist





### Trend - To the Cloud, And Azure

- Global cloud market expected...
  - to hit \$204B in 2016
- 63% of survey'd CIOs plan 11%+ increase \$ (21% over 30%)
  - in 2016 (<a href="http://bit.ly/1XYhf4S">http://bit.ly/1XYhf4S</a>)
- Microsoft and Microsoft Azure chosen as (JPMorgan survey)
  - CIO's Most Critical Technology vendor (3x over #2: AWS)
- Microsoft Leads in "Investigate First" for new Projects
  - 32% of respondents (HyTrust Survey)
- Microsoft Azure deemed the best cloud..
  - For Hybrid Integration





### What are the Main "Pushes" to the Cloud

- Dev/Test
  - Inexpensive development and test platform to "spin up" and shut down quicklyu
- Move Applications to Azure "Lift-and-Shift"
  - "ForkLift" approach
  - Lift the "VHD from local datacenter" and "Shift" (import) to Azure
- Extend the Datacenter
  - User Azure and Azure VMs as an extension of on-premise datacenter
  - Use Azure Virtual Network and Azure Service Bus for connectivity





### **Public Cloud**

- Implementation of cloud services on resources that are shared between many customers, managed off-premises
- Typically, cloud provider owns and controls the resources/assets, definition of services, costs and risks
  - Variations exist such as hosters and integrated cloud platforms
- Microsoft solutions
  - Office 365 (SaaS)
  - Dynamics CRM Online (SaaS)
  - Windows Intune (SaaS)
  - Windows Azure platform (PaaS)





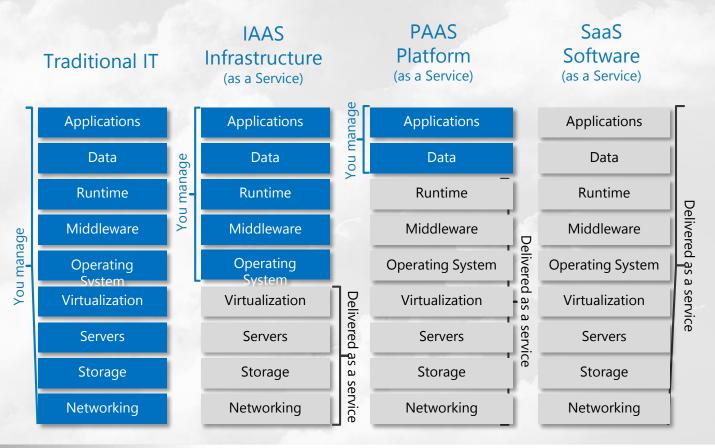
### **Private Cloud**

- Implementation of cloud services on resources that are dedicated to your organization, whether they exist onpremises or off-premises
- Typically, your organization owns and controls the resources/assets, definition of services, costs and risks
  - Variations exist such as hosted and virtual private clouds
- Microsoft solutions
  - ► Windows Server 2008 R2 Hyper-V, System Center (laaS)
  - Windows Azure Appliance (PaaS)



### Cloud Service Models

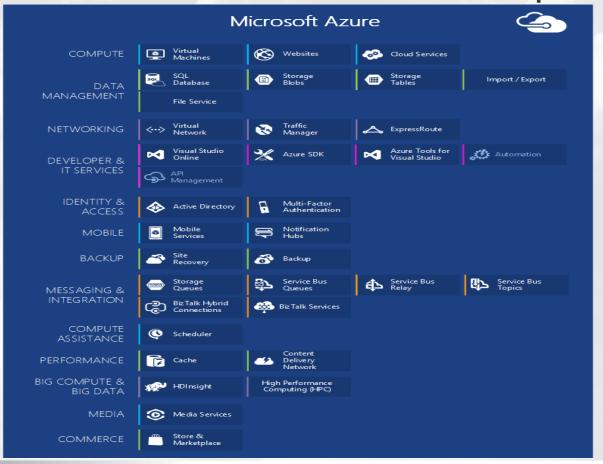






## Azure: IAAS and SaaS Component







## **Azure Active Directory**



Microsoft's "Identity Management as a Service (IDaaS)" for organizations.

Millions of independent identity systems controlled by enterprise and government "tenants."

Information is owned and used by the controlling organization—not by Microsoft.

Born-as-a-cloud directory for Office 365. Extended to manage across many clouds.

Evolved to manage an organization's relationships with its customers/citizens and partners (B2C and B2B).

86% of Fortune 500 companies use Microsoft Cloud (Azure, O365, CRM Online, and PowerBI)

Azure AD
Directories
> 7 M

More than

550 M

user accounts on Azure AD

1 trillion

Azure AD authentications since the release of the service

>35k third-party applications used with Azure AD each month >1.3 billion authentications every day on Azure AD

Every Office 365 and Microsoft Azure customer uses Azure Active Directory



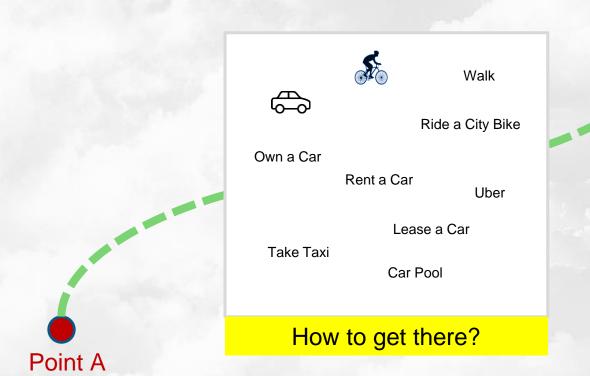


Julian Zhu, OSC Principal Consultant





### **A Simplified Business Scenario**



Point B





### **OSC 3-Level Architecture Approach**



# Enterprise Architecture

- Cloud Strategy
- Reference Architecture
- Infrastructure Roadmap
- Technology Standards

# Solution Architecture

- IT Infrastructure
- Security/Network
- Services & Data Integration

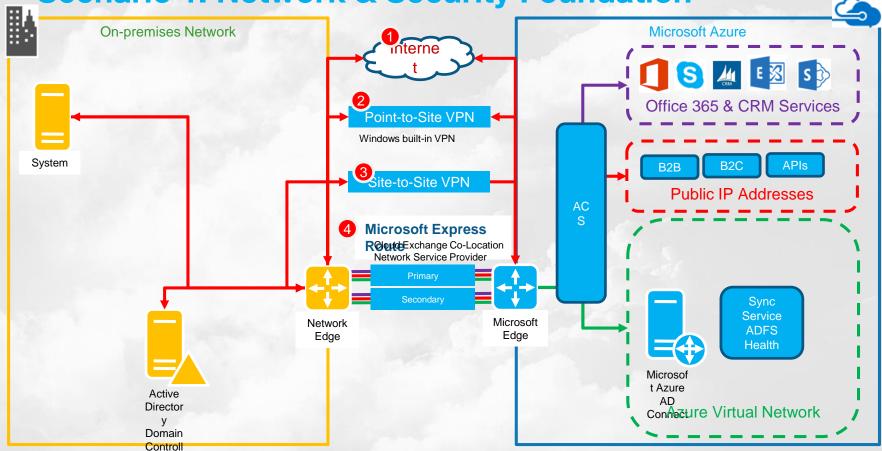
# Application Architecture

- Security Frameworks
- Data Sync Frameworks
- Application Frameworks





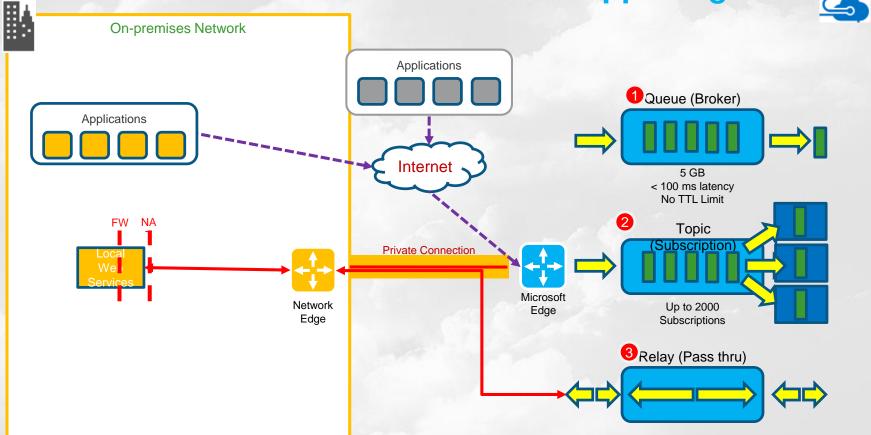
**Scenario 1. Network & Security Foundation** 





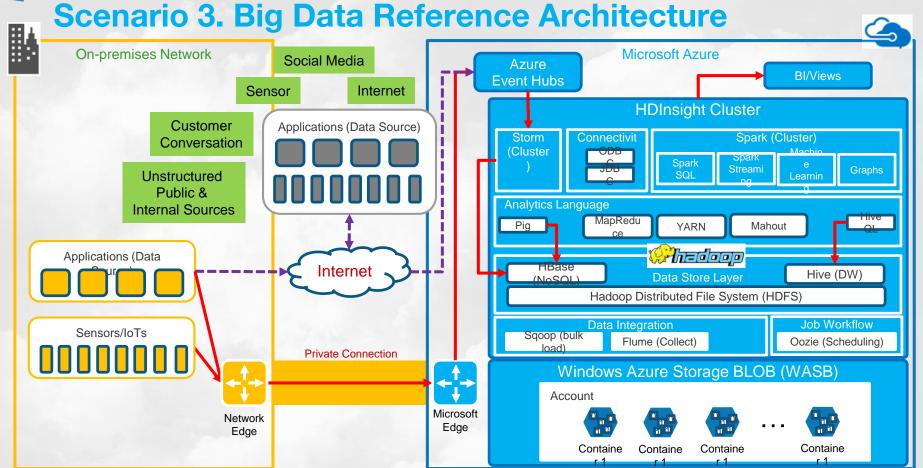


# Scenario 2. Services Foundation for App Integration













# OSC Technologies Overview

Garret Grajek, CISSP CEO

**OSC Technologies** 



### **OSC Overview**



### **OSC Technologies, LLC:**

- Full service advanced IT consulting firm:
  - Project Design, Project Scoping, Architecture
  - Development, Deployment, Testing

#### Staff:

- Over 15 Microsoft certifications
- 10 patents, 3 PhDs, multiple Masters
- 100s of years in cumulative project experience
- On-Shore and
- Off-shore engineers



## OSC - Full Cloud/Application Consultants



### **Full Service Team:**

- Architects, Project Management, Coders, Implementers, Maintenance Programmers
- .NET and Java
- Front End Specialist
- Both:
  - Existing Projects
  - Prototypes
- Webservices/APIs:
  - REST APIs
  - SAML, WS-\*, SCEP, etc.





1

#### Additional Information

https://msdn.microsoft.com/en-us/library/hh871440.aspx
Building Hybrid Applications in the Cloud on Microsoft Azure

2

#### Connect with OSC

Schedule a personalized project scoping w/ OSC <a href="http://www.oscgc.com/contact-us/">http://www.oscgc.com/contact-us/</a>



Have OSC Deploy a App utilizing Azure AD Mobile, Web, Cloud





# Thank You!



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