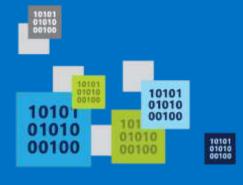
# Azure Discovery Day: PaaS

Teerachai Laothong & Sakul Jaruthanaset



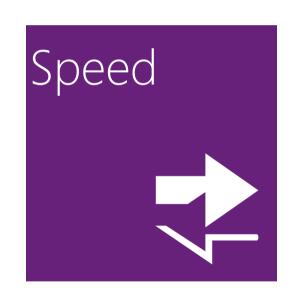


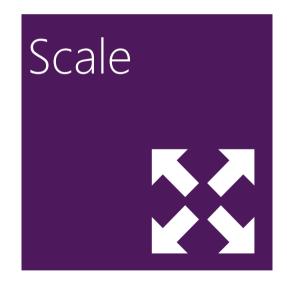
# Why the cloud?



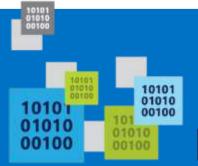
- Rapidly setup environments to drive business priorities
- Scale to meet peak demands
- Increase daily activities, efficiency and reduced cost.

# Why the cloud?











**SaaS Solutions** 

**Cloud Infrastructure** 

Higher-level services

DIFFERENTIATION
AGILITY
COST

#### Leading the journey to the Cloud



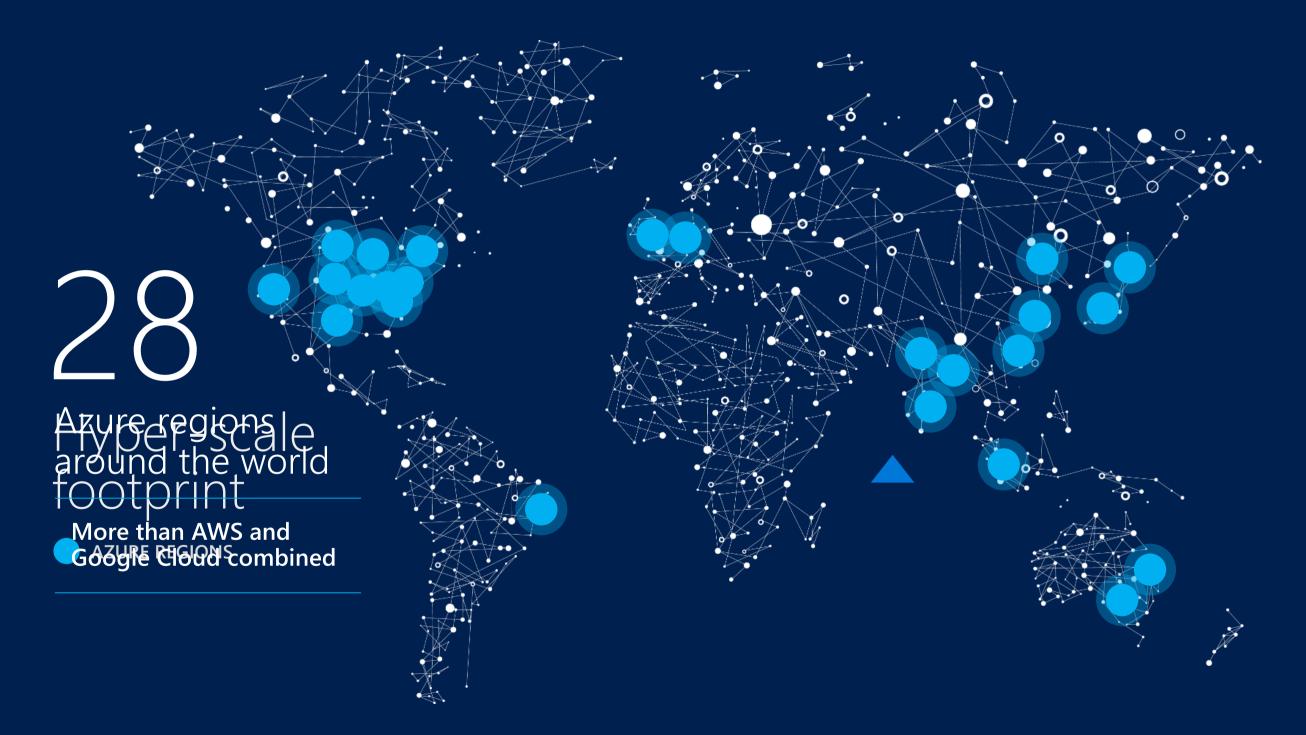
Microsoft Dynamics



Microsoft Enterprise Mobility Suite

## Leading the journey to the Cloud

SAAS SOLUTIONS	Office 365 Microsoft Dynamics Power BI	
ENTERPRISE MOBILITY	Microsoft Enterprise Mobility Suite	
Microsoft Azure		
DEVELOPER + APP PLATFORM	Visual Studio Family + Azure App Service	
DATA + ANALYTICS	Cortana Analytics Suite	
INTERNET OF THINGS	Azure IoT Suite	
CLOUD INFRASTRUCTURE	Azure + Azure Stack + Operations Management Suite	

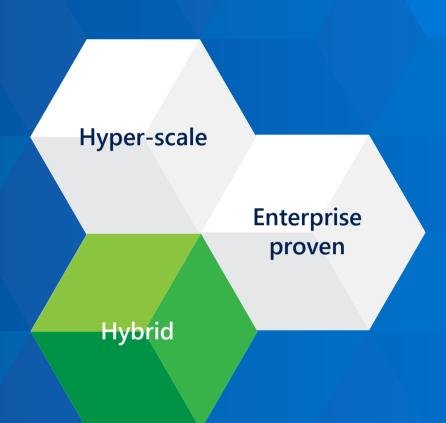


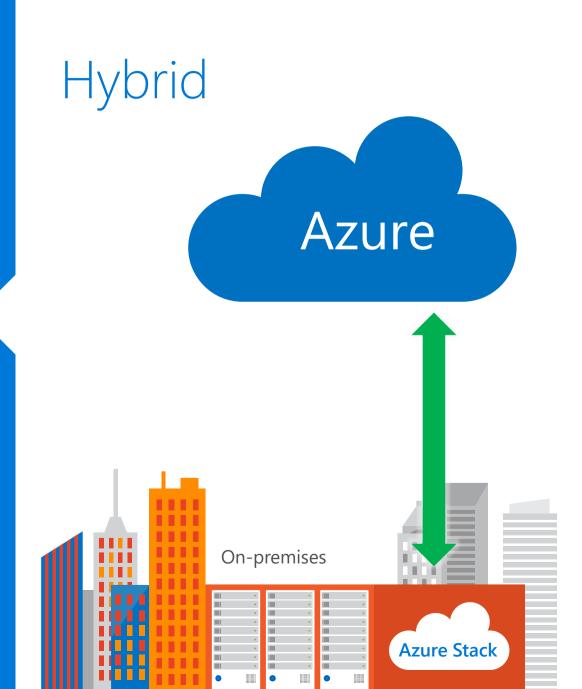
Hyper-scale

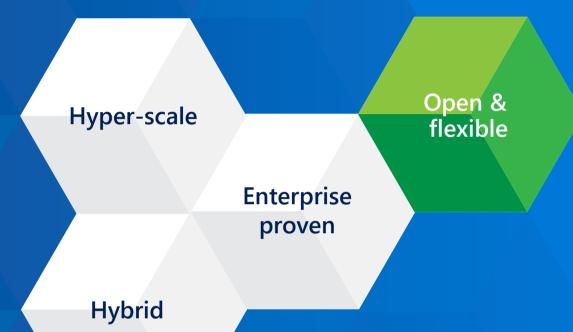
Enterprise proven

Hybrid

# Azure







#### Open + Flexible

Management









**Applications** 











**App Frameworks** 











**Databases & Middleware** 







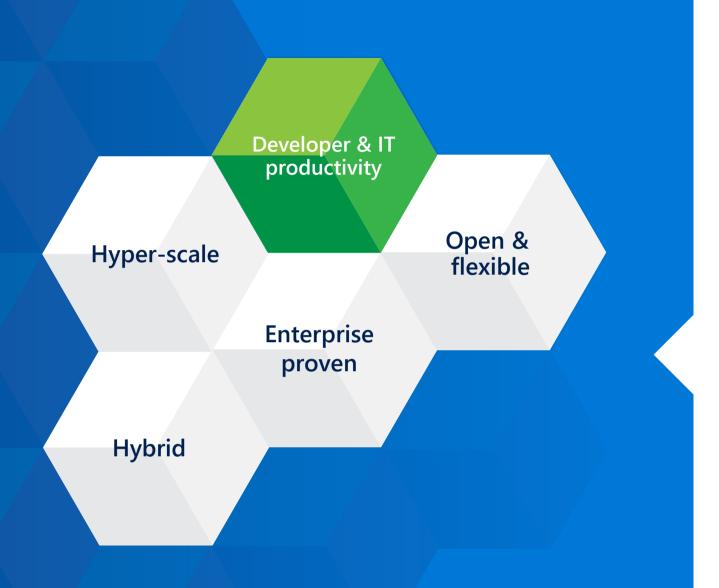


Infrastructure



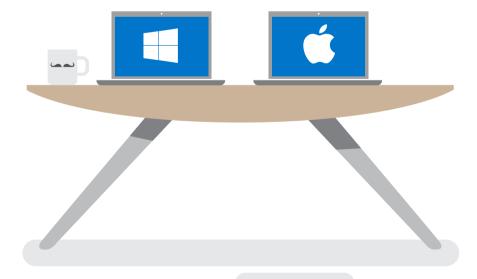


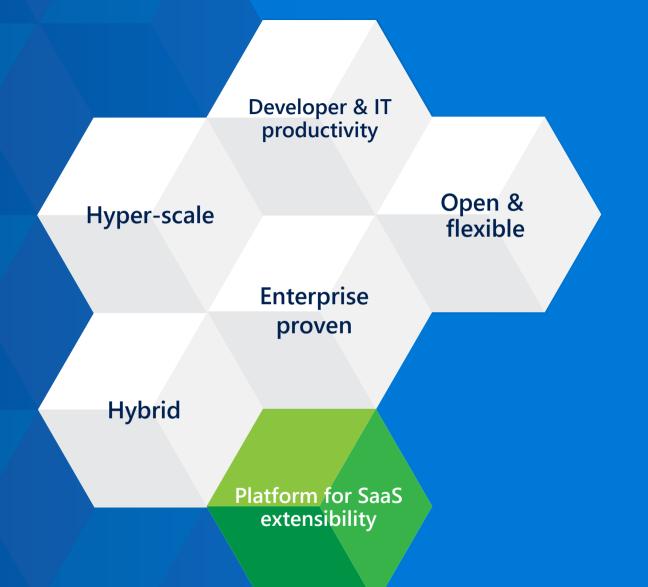




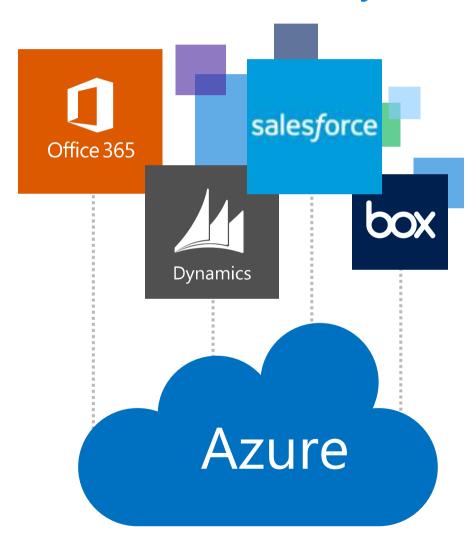
#### Dev + IT productivity

- **⋈** Visual Studio
- GitHub
- Eclipse
- Chef + Puppet
- **>** Powershell





#### SaaS extensibility



Developer & IT productivity

Open &

flexible

Hyper-scale

Enterprise proven

Hybrid Trustworthy

Platform for SaaS extensibility

#### Trustworthy

More compliance certifications than any other cloud



































SAFEHARBOR













>90,000

New Azure customer subscriptions/month

>1.5<sub>Million</sub>

SQL Databases running on Azure

>500 Million

Users in Azure Active Directory

## Azure momentum

1.5 Trillion

Messages per month processed by Azure IoT

777 Trillion

Storage Transactions per day

>40%

Revenue from Start-ups and ISVs

## >80%

of Fortune 500 use the Microsoft Cloud

























































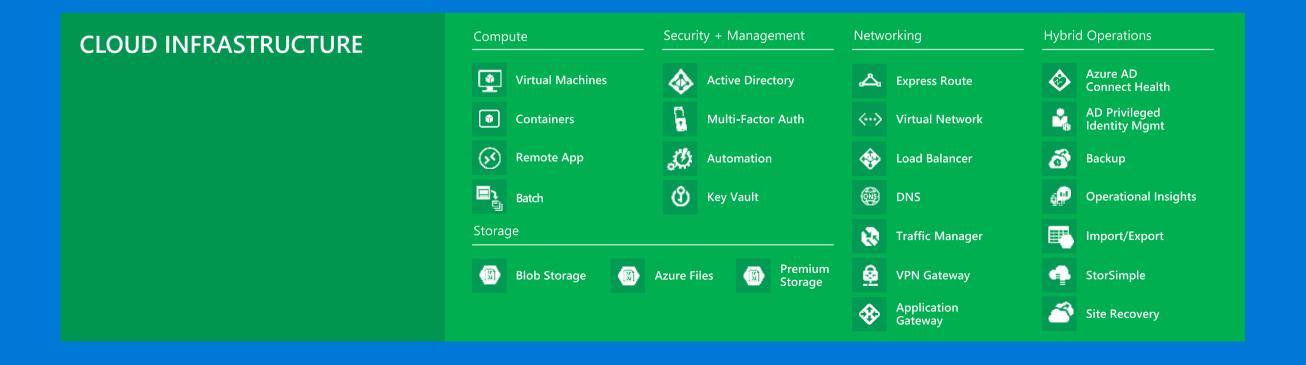




#### Leading the journey to the Cloud

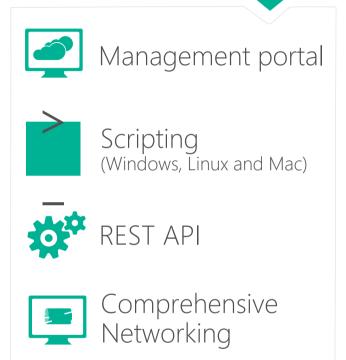
Microsoft Azure	
DEVELOPER + APP PLATFORM	Visual Studio Family + Azure App Service
DATA + ANALYTICS	Cortana Analytics Suite
INTERNET OF THINGS	Azure IoT Suite
CLOUD INFRASTRUCTURE	Azure + Azure Stack + Operations Management Suite

#### Microsoft Azure

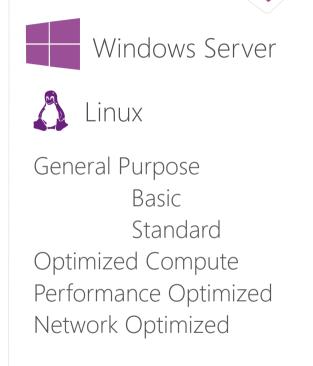


#### Microsoft Azure

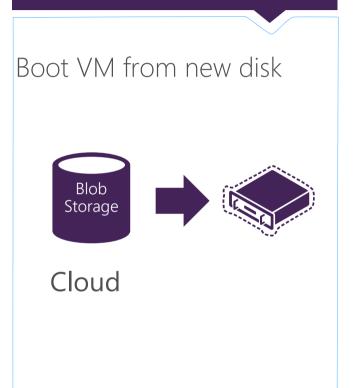
#### Getting started



#### Select image and VM size



## New disk persisted in storage

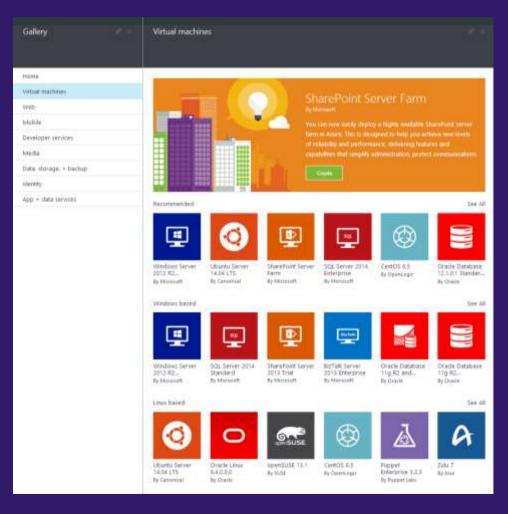




#### Virtual Machines



#### Microsoft Azure Certified





Barracuda Web Application By Barracuda



DreamFactory 1.6 By Bitnami



SAP HANA Developer Edition By SAP



Riverbed SteelHead CX 8.6 By Riverbed Techno...

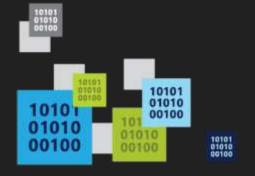


Oracle Database 12.1.0.1 Enterprise By Oracle



Zulu 7 By Azul

## Demo: Azure Portal



#### Great Infrastructure Enhancements







#### End to End Management

Integrated management portal Application Templates Lifecycle Management Role Based Access Control Billing API

#### Premium Storage

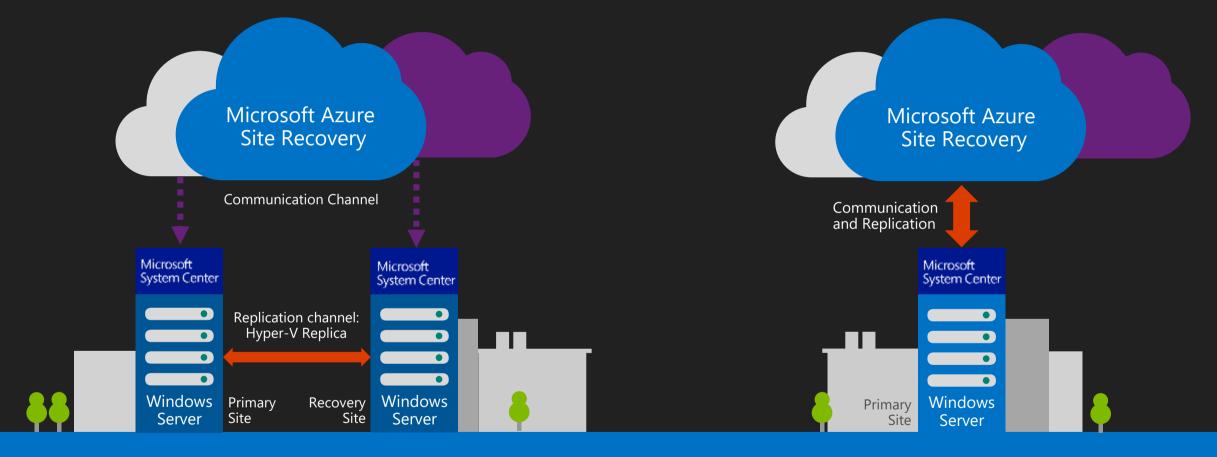
Up to 64 TB of storage per VM >80,000 IOPS per VM Less than 1ms read latency

#### Largest VMs in Public Cloud

Optimized for data workloads Up to 32 CPU cores, 450 GB RAM, 6.5 TB local SSD Latest generation Intel processor

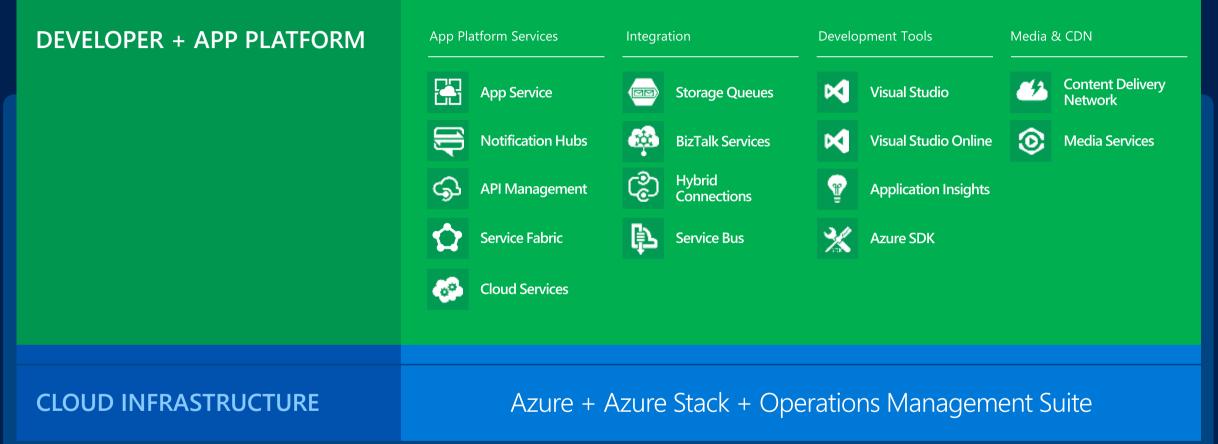


## Microsoft Azure Site Recovery Orchestrated disaster recovery to a second site or to Azure



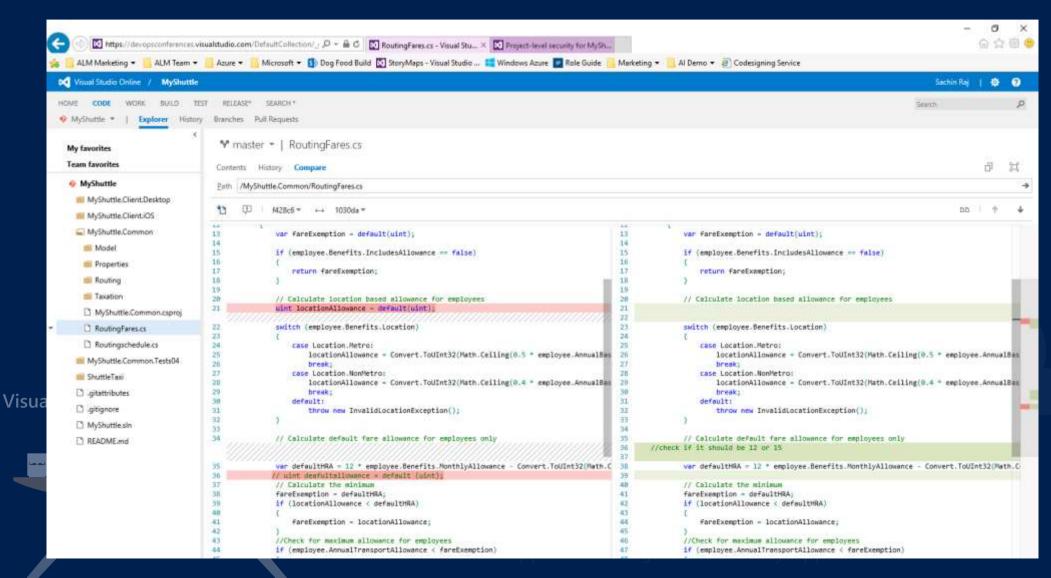
Automated VM protection and replication Remote health monitoring Customizable recovery plans No-impact recovery plan testing Orchestrated recovery when needed

#### Messes in the Cloud

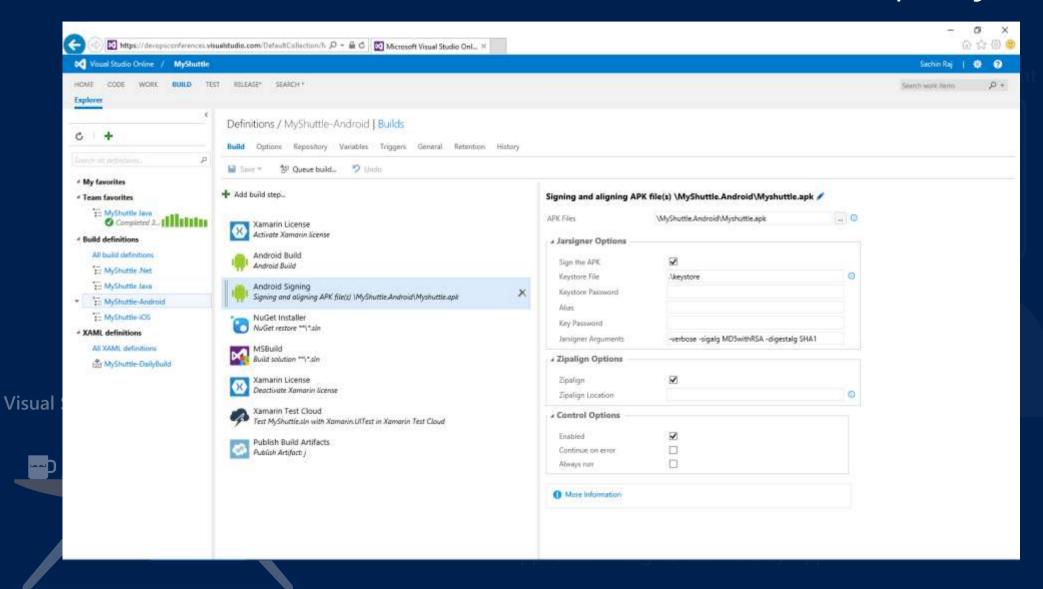


# Agility

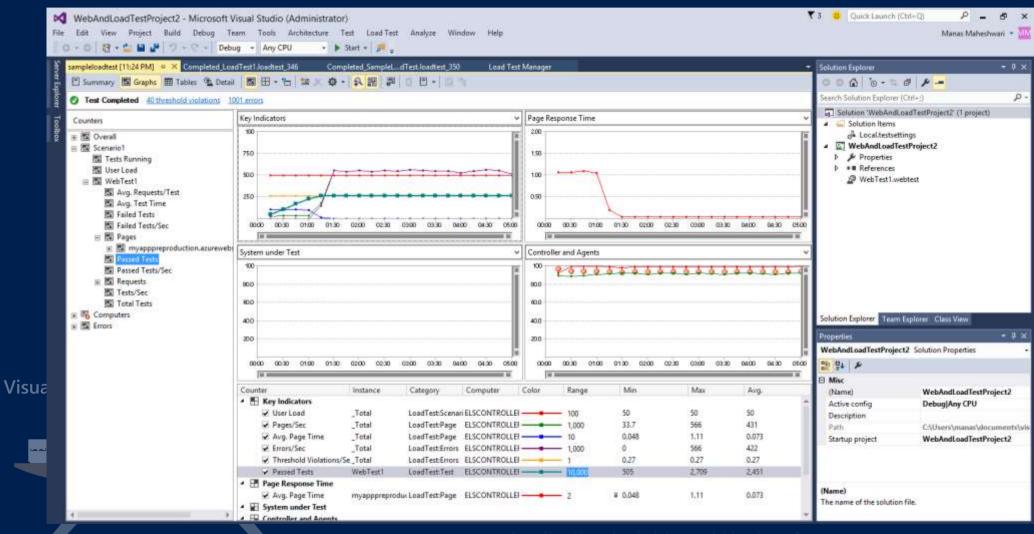
### Visual Studio Online: Code Repository



#### Visual Studio Online: Build + Deploy

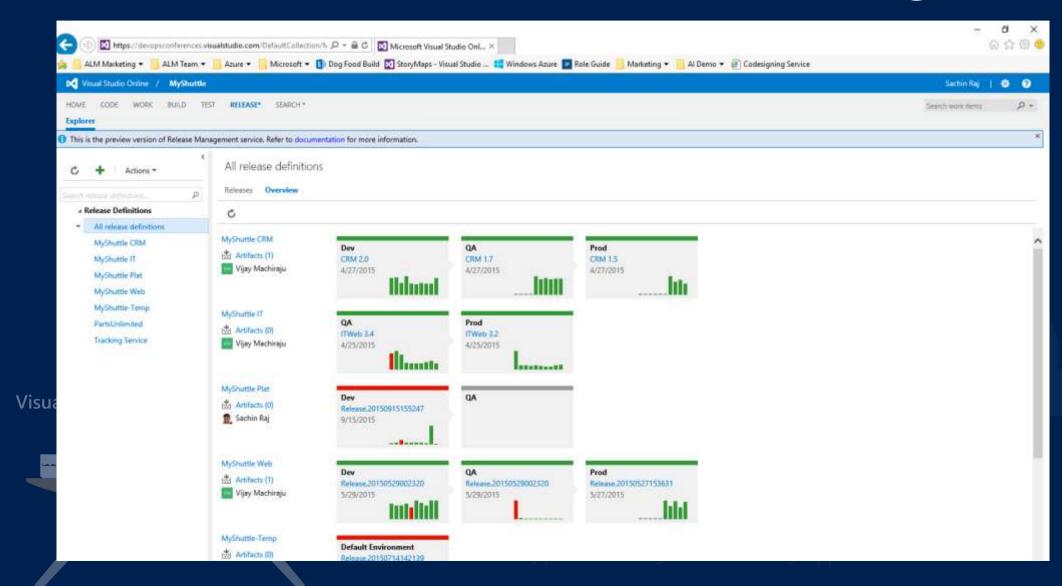


#### Visual Studio Online: Load Testing

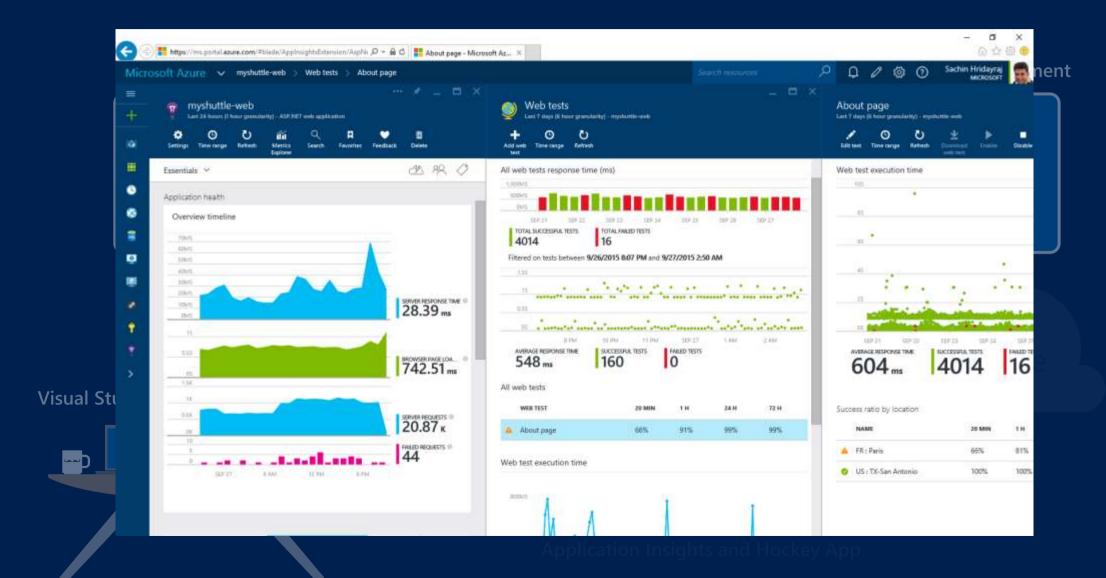


Application Insights and Hockey App

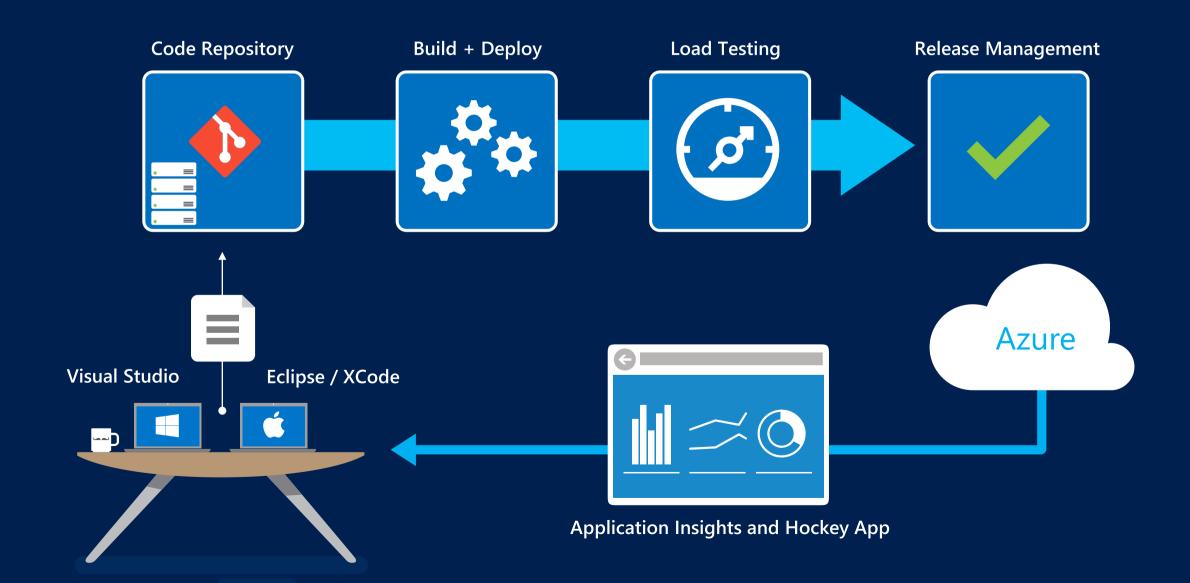
#### Visual Studio Online: Release Management



#### Visual Studio Online: Application Insights



### Visual Studio Online: DevOps



## Fastest way to build for the cloud



#### Host your applications on Azure





Infrastructure as a Service laaS

Platform as a Service PaaS



# Azure App Service Build and scale great cloud apps



.NET, Java, Node.js, PHP, Python Auto patching Auto scale

Integration with existing apps
Continuous deployment

1) Select your App Service









2) Select a template and create your web app

Change language: Default









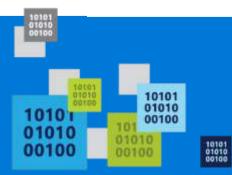




Free

No Signup or Account Required





#### Try App Service Today

#### Azure App Service Web Apps



Easily create and scale your new sites in seconds

Automatically scale your sites that scale with your business

Quickly improve performance and reduce latency with right resources

Built-in web jobs support

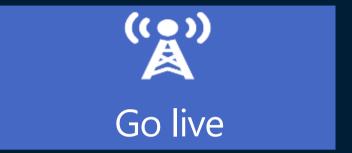


Leverage existing skills – Languages and databases you know

Start with open source apps and frameworks

Develop with VS and WebMatrix

Supports X-Plat development



Improve developer productivity through continuous automated deployment

Built-in monitoring of perf and usage data

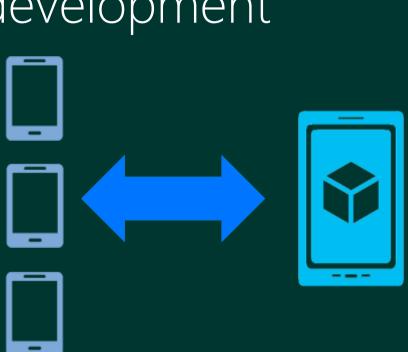
Built-in diagnostics to assist with debugging

Built for DevOps



## Azure App Service Mobile Apps

- Provides essential services to support client development
- Client Support
  - iOS
  - Android
  - HTML5/Web
  - Xamarin
  - Windows
  - Windows Phone
  - PhoneGap
  - Sencha





Storage



**Authentication** 



Logic

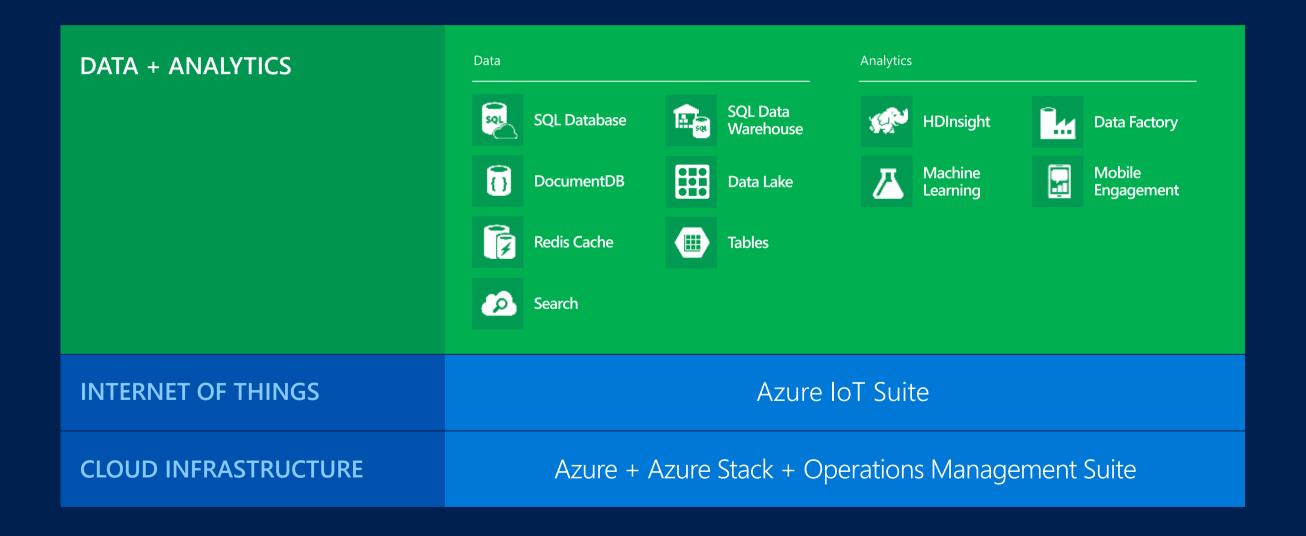


Push



Scheduler

















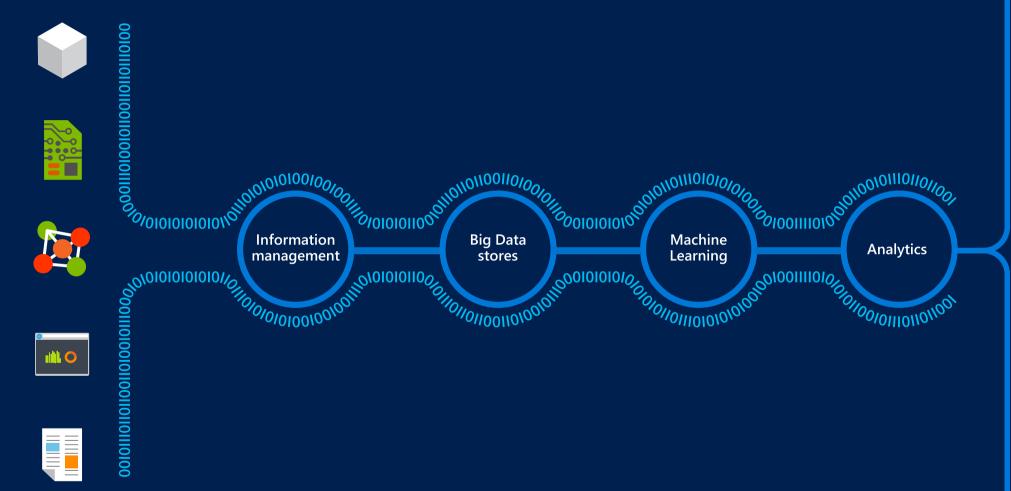












Power BI

**Machine Learning** 

**SQL Data Warehouse** 

**HDInsight** 

**Data Lake Analytics** 

**Data Lake Store** 

**Stream Analytics** 

**Data Factory** 

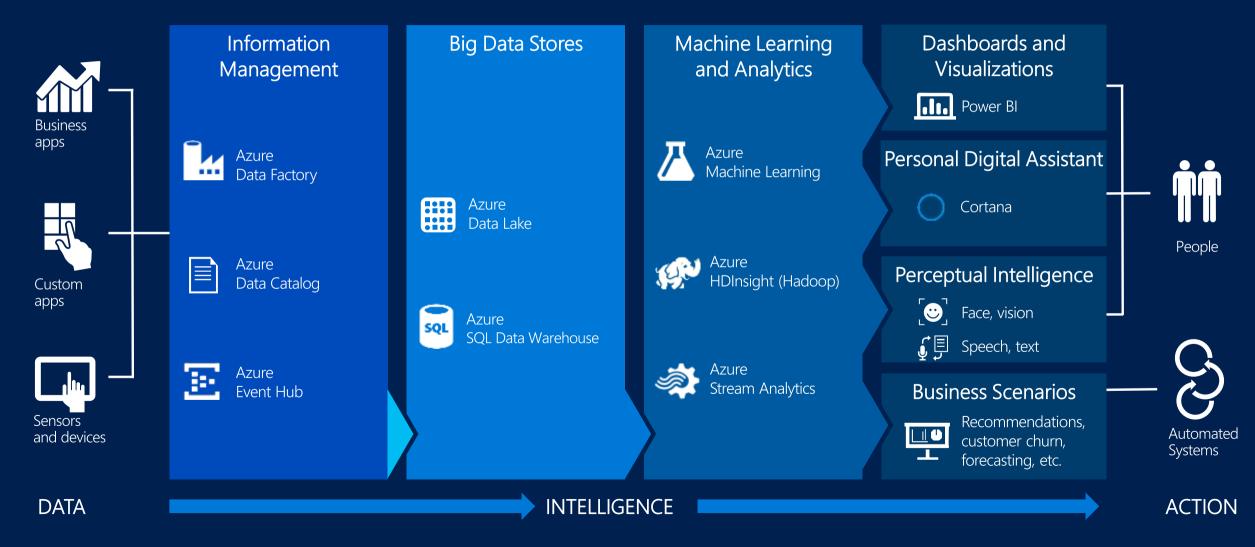
**Data Catalog** 

**Event Hubs** 

## Cortana Analytics Suite



# Cortana Analytics Suite Transform data into intelligent action





### SQL Data Warehouse

Aggregate + store petabytes of data Interactively query and visualize data Operationalize machine learning

# MongoDB, MySQL, Oracle, Cassandra, Neo4j and more



### Additional Database options in Azure

- Azure Table Service is a "Big Table" entity store.
- MongoDB is a document (JSON) store.
- Cassandra is a columnar store with excellent replication.
- HBase is a Big Data (Hadoop) store available in HDInsight.
- Oracle VMs are supported in Azure.
- MySQL is offered from the partner ClearDB.



SQL Database

SQL on laaS

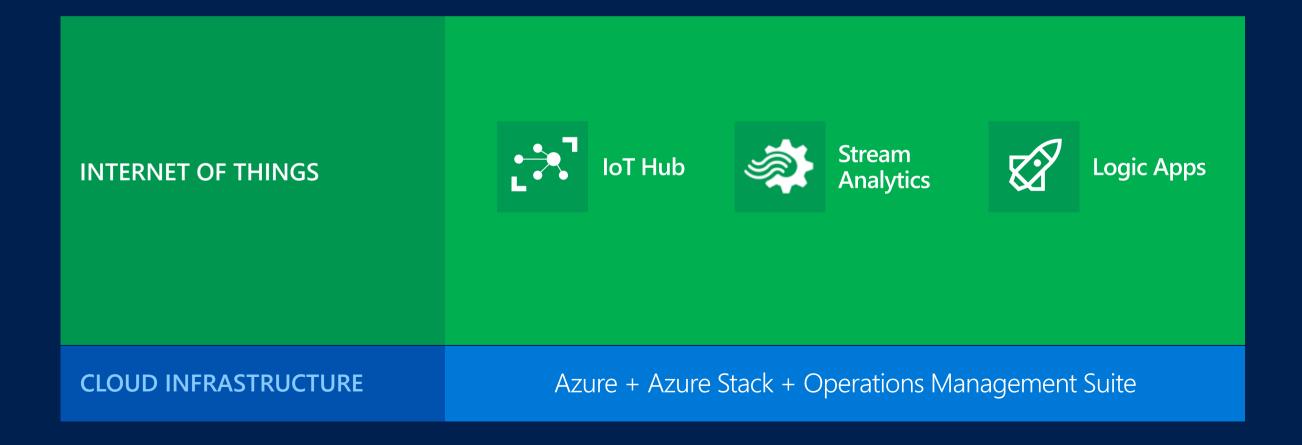
DocumentDB

Search

**HDInsight** 

MongoDB, MySQL, Oracle, Cassandra, Neo4j and more





# Now Available to Purchase Azure IoT Suite

Device Connectivity and Security

Data Ingestion and Command & Control

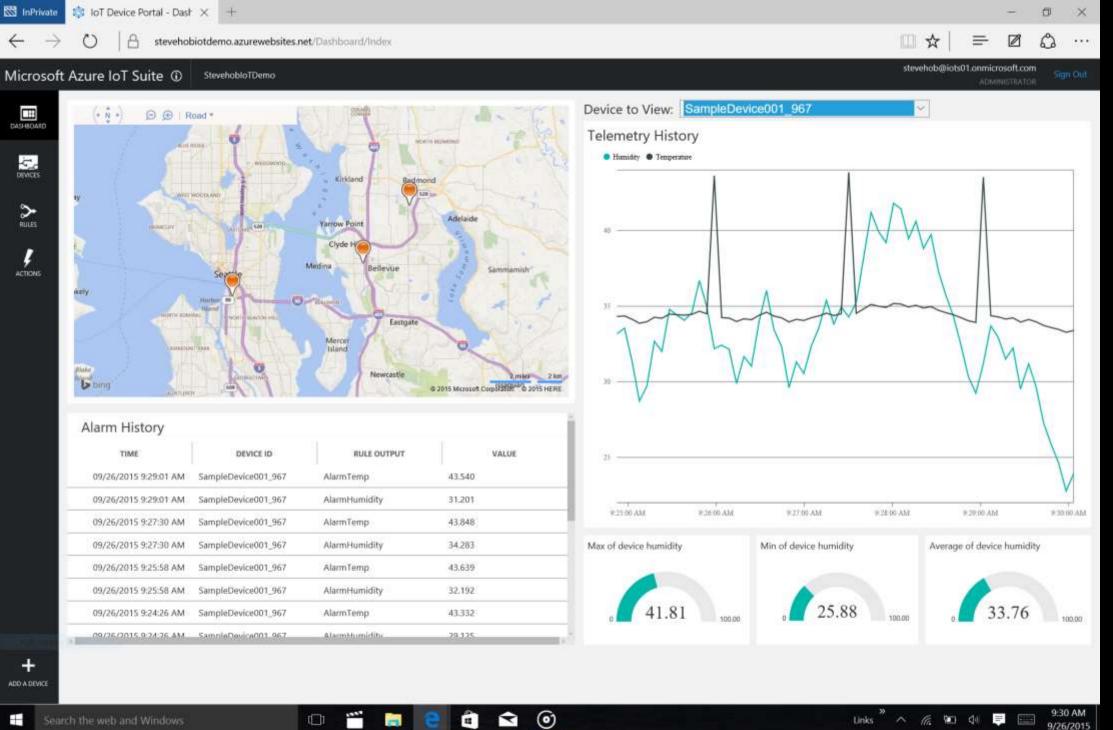
Stream Processing & Predictive Analytics

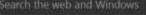
Workflow Automation

Dashboards and Visualization

Preconfigured Solutions

















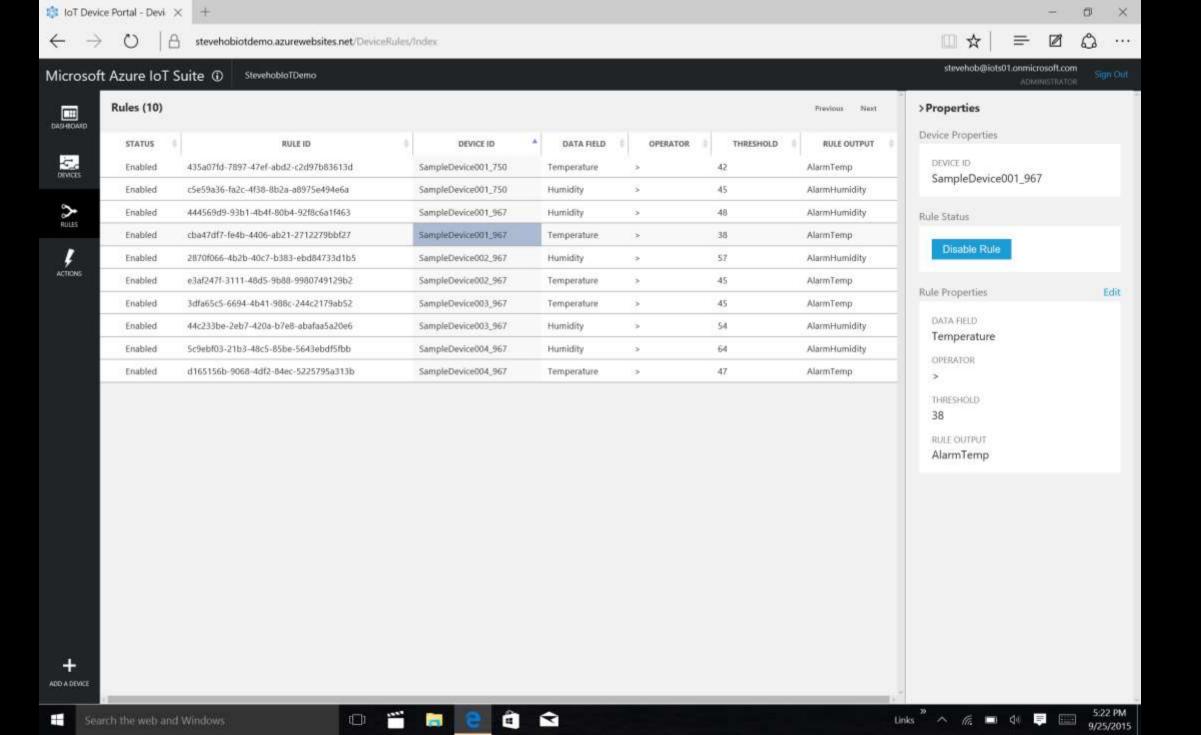












# Internet of Things





## Delivering secure apps

# Announcing Azure Security Center

Gain visibility and control

Integrated security, monitoring, policy management

Built in threat detections and alerts

Works with broad ecosystem of security solutions











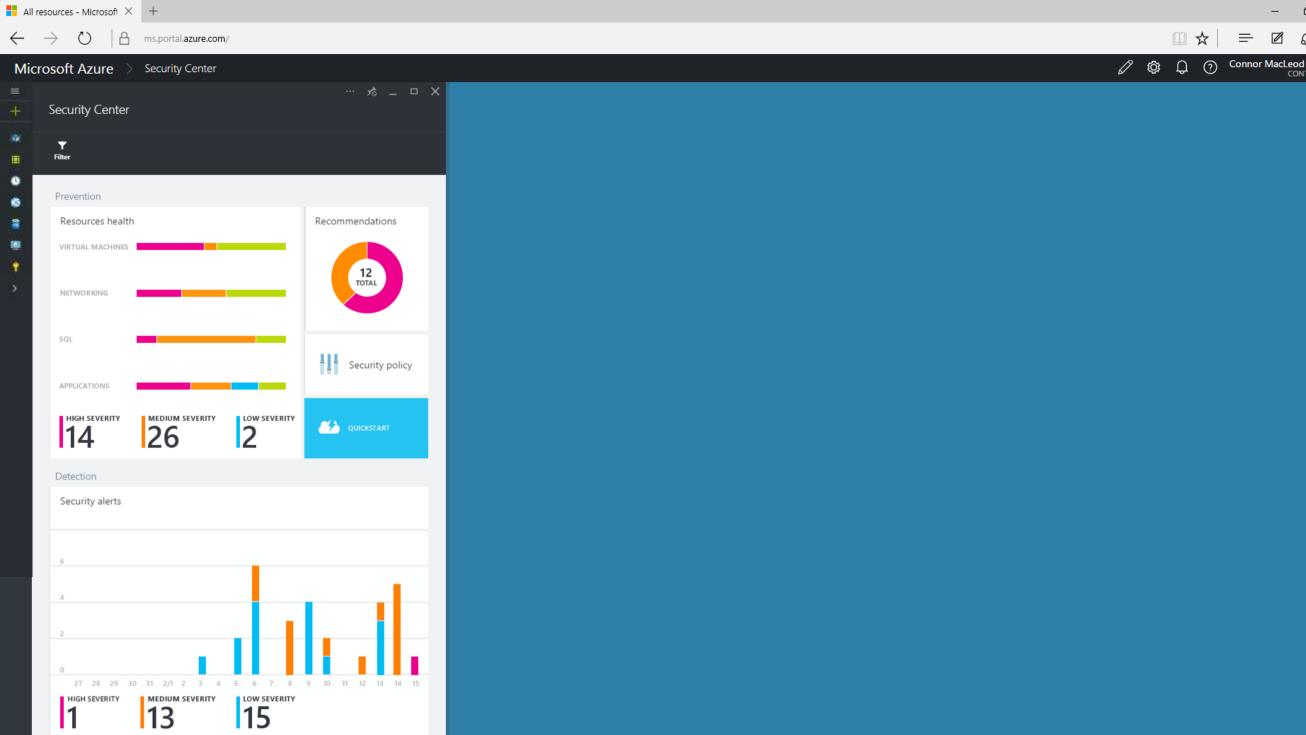


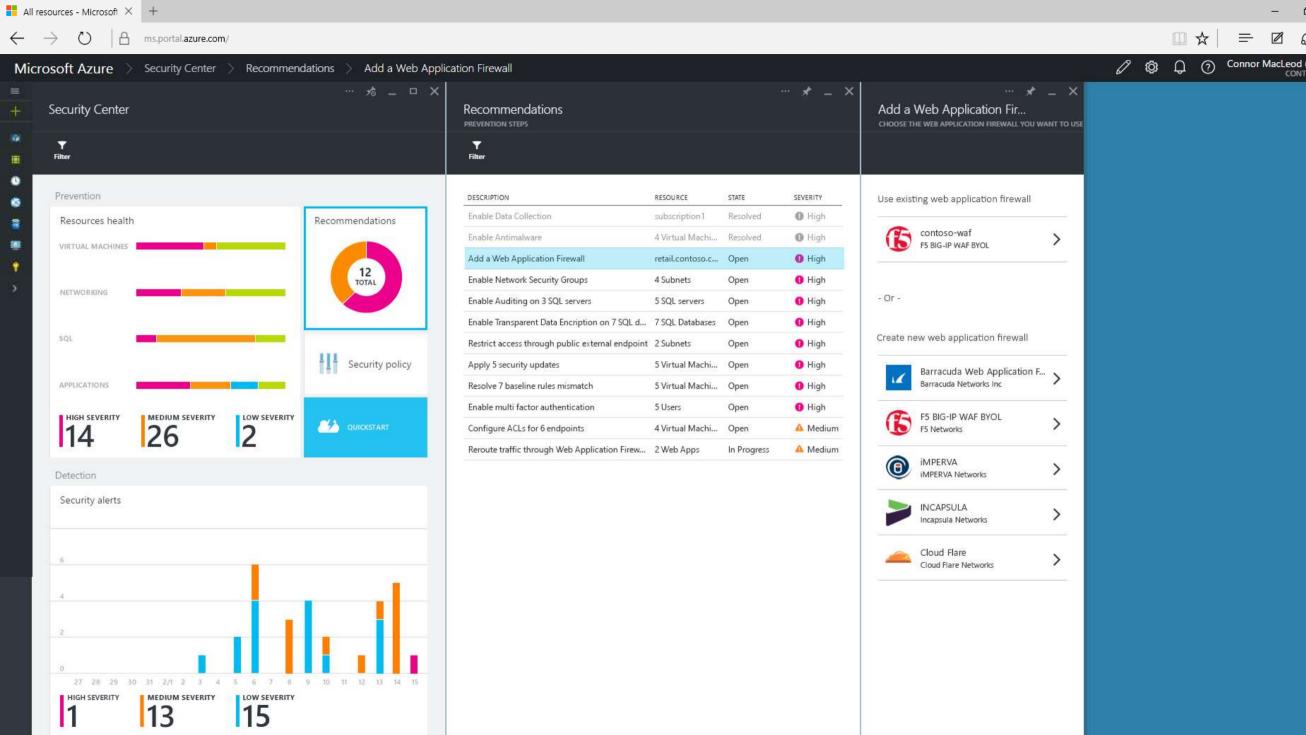


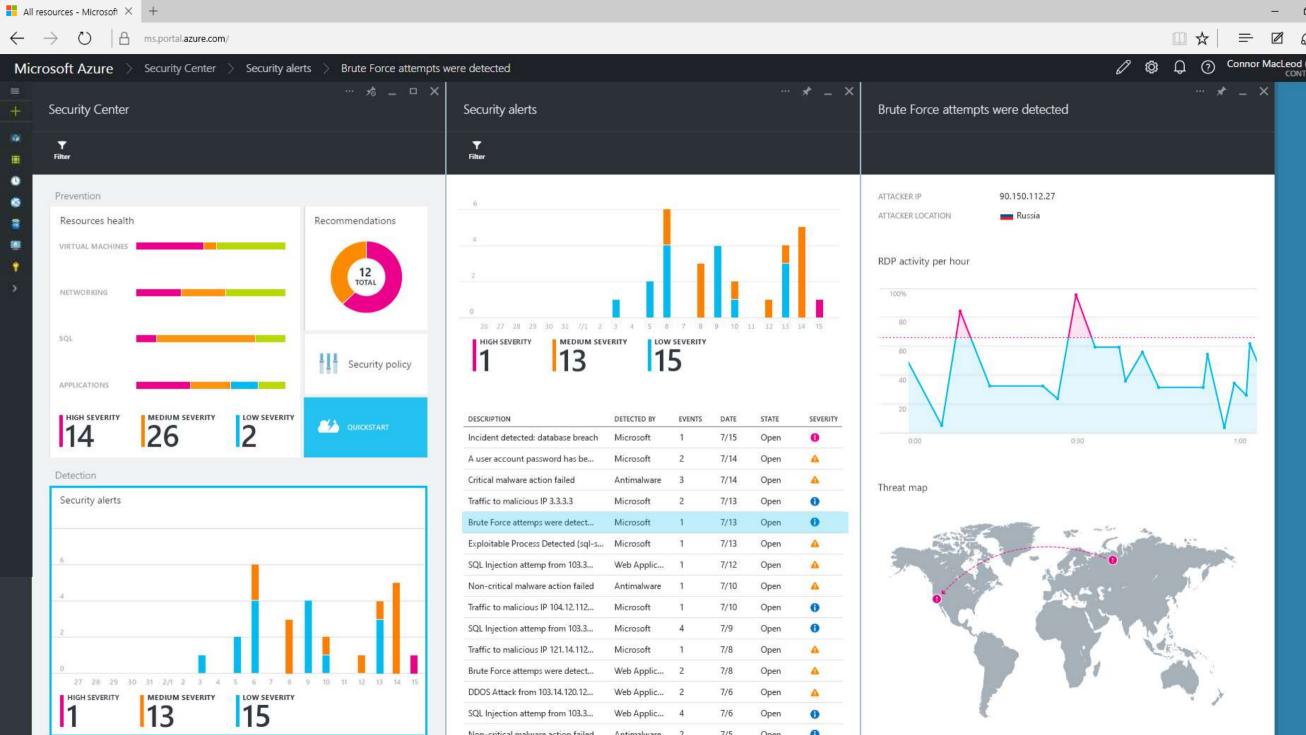






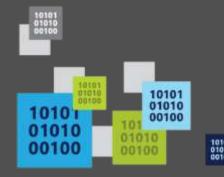


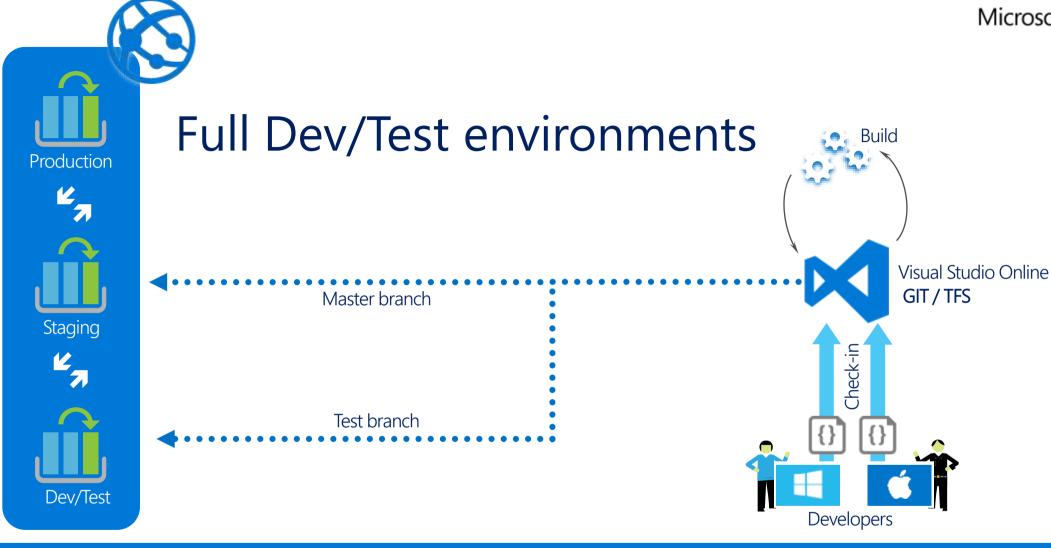


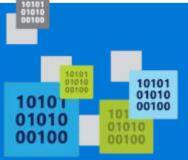




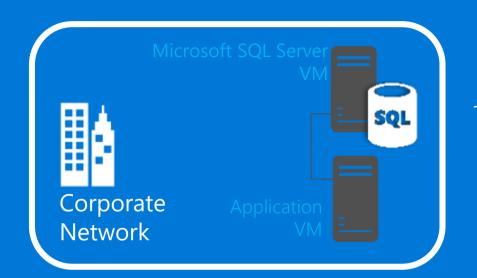




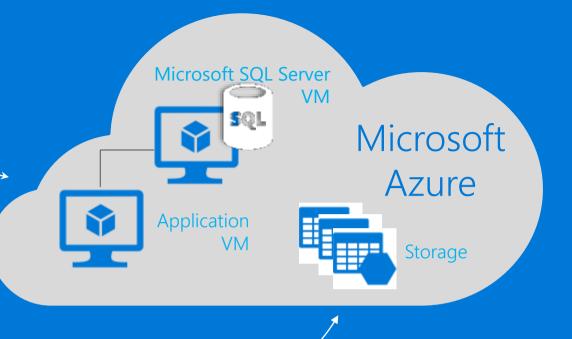








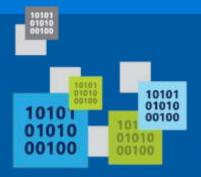
10101 01010 00100 **Lift and Shift** 

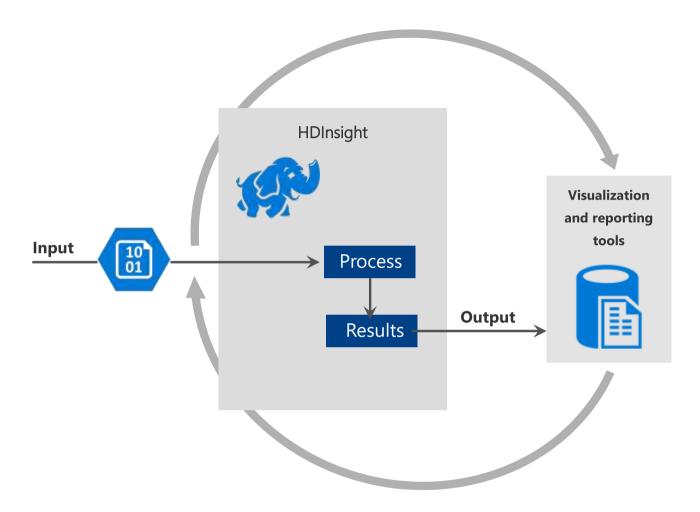




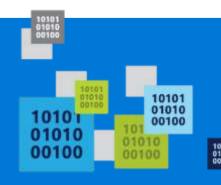
**Archive** 

key data inexpensively





Iterative exploration - Process key data into business intelligence using Hadoop





### Identity as a Service



SaaS ISV/CSV LOB apps apps Azure App Service and Non-

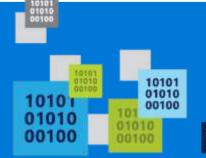
MS cloud-based apps

**Office 365** 

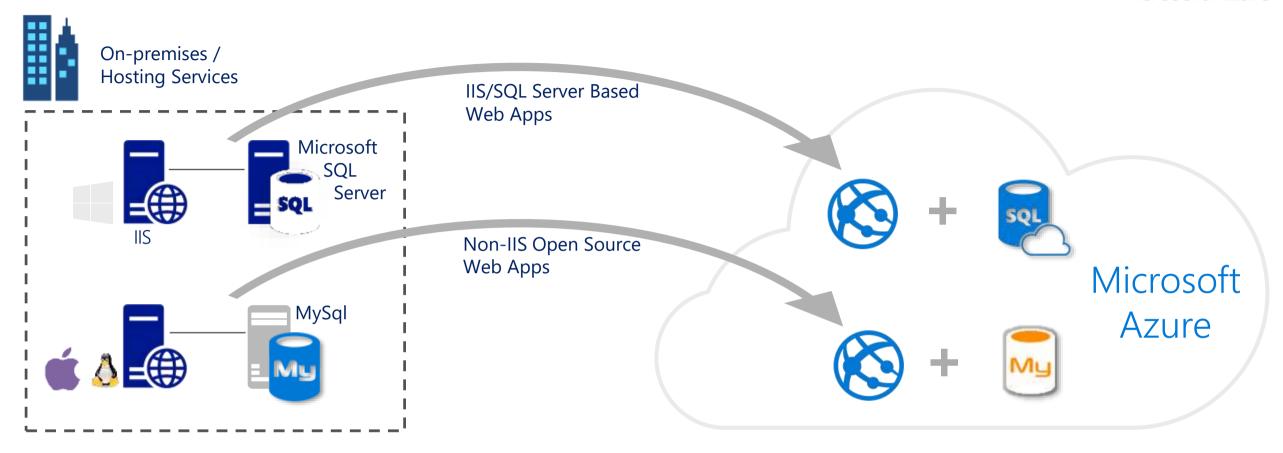
consolidate identities



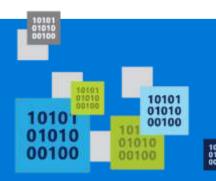
PCs and devices



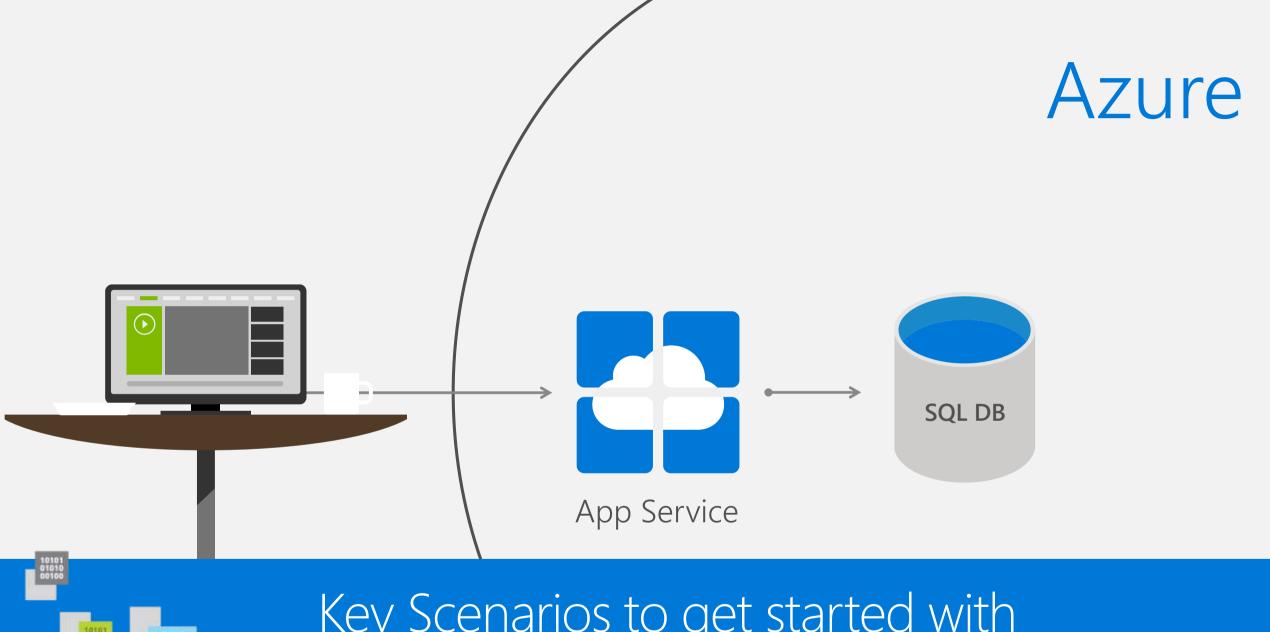




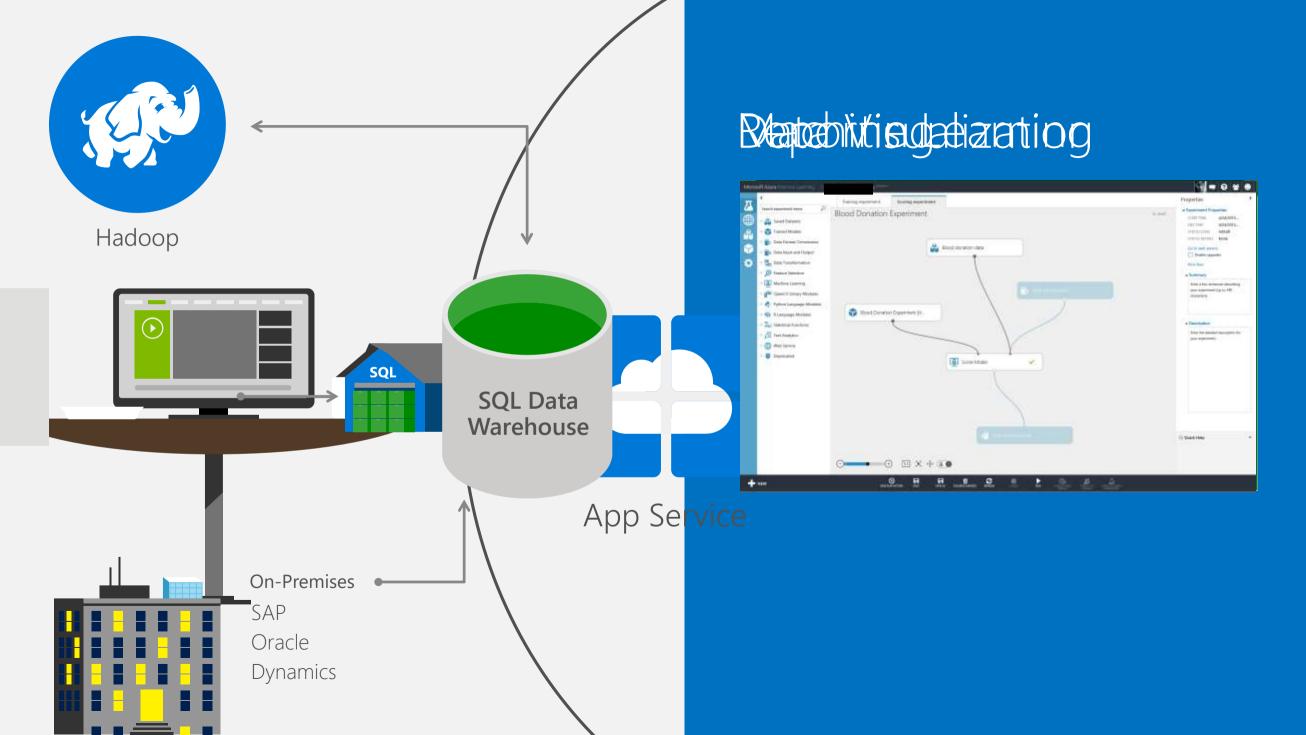
Web Apps - Take your web apps to the cloud using inexpensive App Service Web Apps

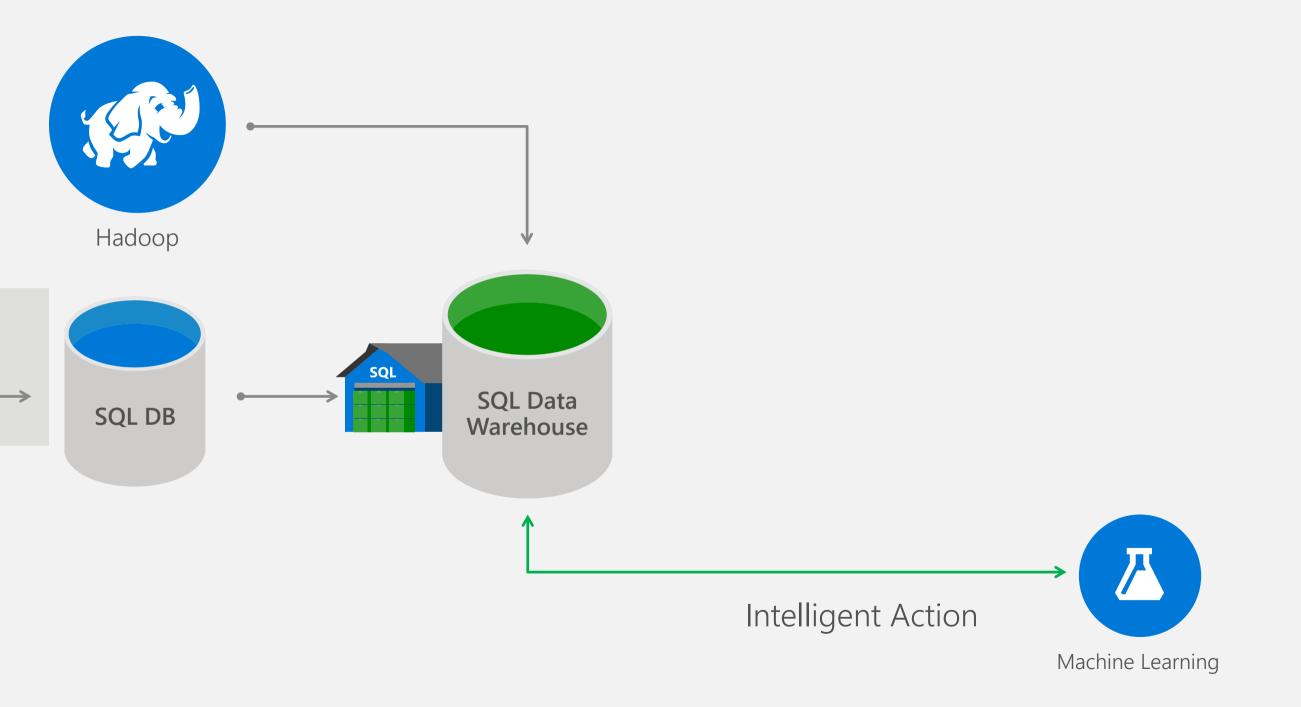












### Activate your MSDN Benefits...







3 VMs for 16 hrs a day

**80** VMs for **20** hour load test

Up to 100 web sites + DB

\$150 per Month

33% off Dev/Test VMs

25% off Other Dev/Test

89 Countries

# Get started today at http://azure.microsoft.com

## The Cloud is changing the world

