

Business & Government are powered by the cloud

"Cloud is a given. CIOs no longer ask whether they should use cloud, but rather how."*

Improve efficiency

"Traditional on-premises data storage is **four times the cost** of cloud storage."**



Reduce costs and inefficiencies

Enable innovation

"55% of CIOs indicated they would source all their critical apps in the cloud by 2020."***



Increase revenue with existing assets

Transform your business

"Seventy percent of CIOs will embrace a cloud-first strategy by 2016."****



Create new business models

^{*&}quot;Cloud Evolves From Point Solution To Strategic Enabler Of The New Connected Economy," Forrester, Liz Herbert, January 2015

^{**}Forrester, 2014

^{***}Smith, David Mitchell et al. Predicts 2014: Cloud Computing Affects All Aspects of IT. Gartner, Inc. December 4, 2013.

^{****}IDC, CIO webinar, 2014

Is the Cloud really all about Cost Savings?

Cloud also brings...

- 1. New, emerging and disruptive service models
- 2. Global market expansion and reach
- 3. Business agility and accelerated innovation
- 4. Enhanced customer / citizen experience and satisfaction
- 5. Risk mitigation
- 6. Cost Reduction

New Business Models

- Mobile connected citizen digital services
- Wearables and medical devices connected to activity tracking and health services
- Vehicle and asset tracking
- Unlock insights

Tax Authority of Mexico

Tax authority improves interaction with taxpayers through cloud computing services

"We chose Microsoft Azure because it was the most suitable option and addressed nearly all of our methodology, research, and technology requirements."

Juan Manuel Galarza
Tax Authority of Mexico
General Administrator of Communications and Inform



- Ability to process higher volumes of information
- Increased tax collection
- More intelligent data management
- Positive impact on citizens
- Cost savings

"Since we started using Microsoft Azure services with the SAT, we have processed close to 4 billion documents with the peace of mind that Microsoft Azure helps keep the information secure, which is fundamental for the organization."

> Juan Manuel Galarza CIO SAT

Power decisions & apps with insights









Support business strategy with any data

Predict and respond proactively

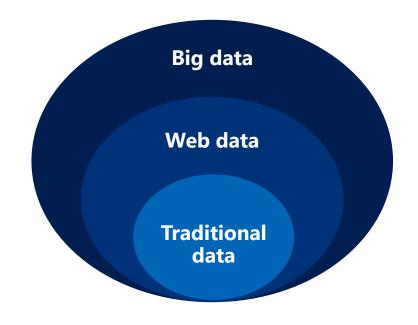
Learn and engage with artificial intelligence

Support business strategy with any data



Back-end power

Front-end insights





Predict and respond proactively



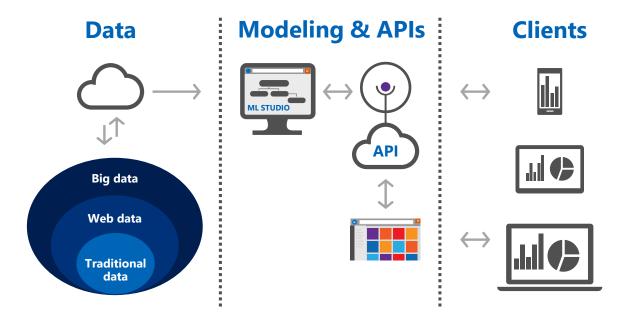
Azure machine learning templates

Demand forecasting

Predictive maintenance

Vehicle telemetry

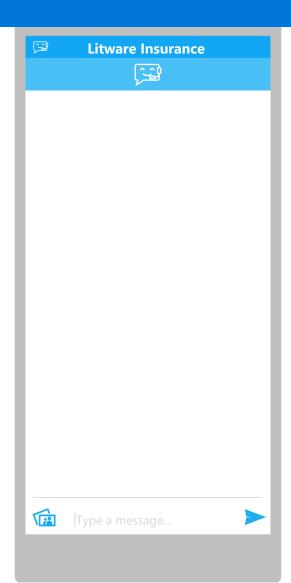
Azure machine learning service



Learn and engage with artificial intelligence



Data-Driven Intelligence



Interact in personal, natural ways

Smart Recommendations, personalization, immersive experiences

Infuse processes with intelligence

Dynamics CRM

Capitalize on hidden insights beyond your data

Advanced Analytics, Machine Learning,
Data Enrichment

Learn and engage with artificial intelligence



VISION

Computer Vision

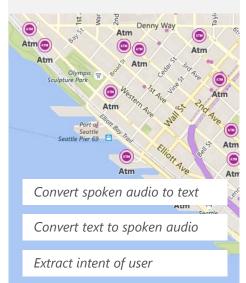
What is in the image?



SPEECH

Speech-to-Text and Text-to-Speech Service

Give me directions to the closest ATM



LANGUAGE

Natural Language Processing

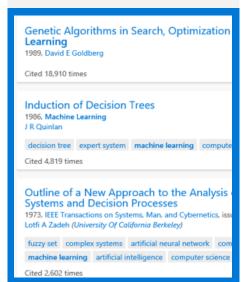
> Play today's Daily Show



KNOWLEDGE

Knowledge Exploration Service

Top publications in AI?



SEARCH

Bing Search

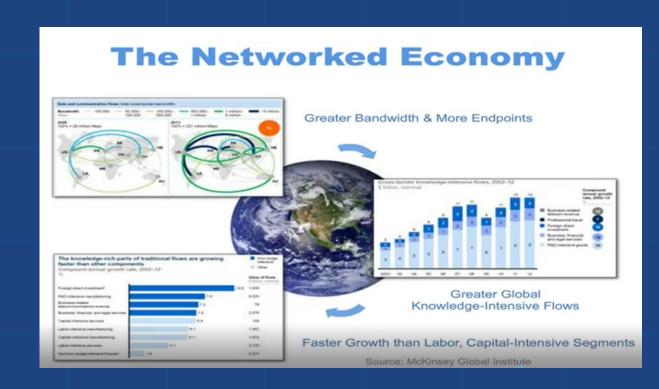
Search for 'cute kittens'



Global Expansion

According to the McKinsey Global Institute, global flows, i.e., international trade, now account for almost **a third of the global economy**, and "knowledge-intensive" flows, such as business communications and smart products, make up **over half of global flows** and are growing faster than capital-intensive or labor-intensive flows.

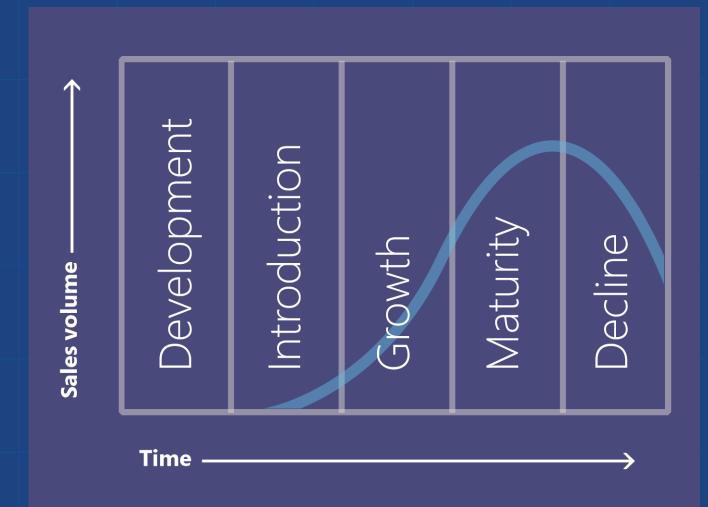
- Global collaboration
- Global commerce and services networks
- Reaching out to OFW and the diaspora where they are



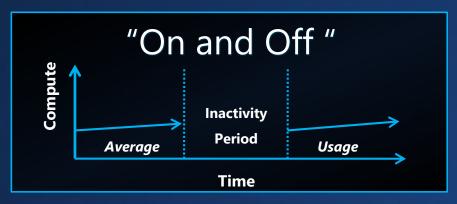


Business Agility

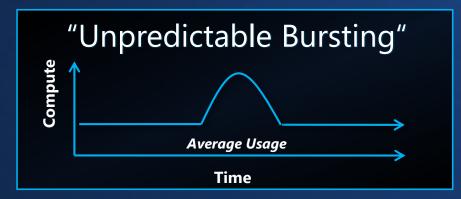
- Time to Market the interval between conception and product launch
- Time to Volume the interval between product launch and production at scale



What are today's Real World IT patterns?



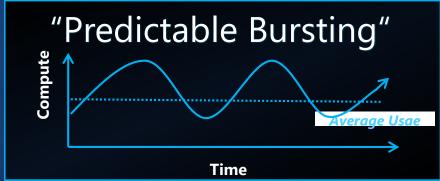
- On & off workloads (e.g. batch job)
- Over provisioned capacity is wasted
- Time to market can be cumbersome



- Unexpected/unplanned peak in demand
- Sudden spike impacts performance
- Can't over provision for extreme cases



- Successful services needs to grow/scale
- Keeping up w/ growth is big IT challenge
- Cannot provision hardware fast enough



- Services with micro seasonality trends
- Peaks due to periodic increased demand
- IT complexity and wasted capacity

Introducing Azure Cosmos DB

Globally-distributed, multi-mode, multi API, elastic, blazing-fast NoSQL with enterprise level SLAs











Enhanced User Experience

- Rich and responsive interactions
- User proximity
- Greater interactivity = greater usage, less frustration



Accelerate innovation with the cloud







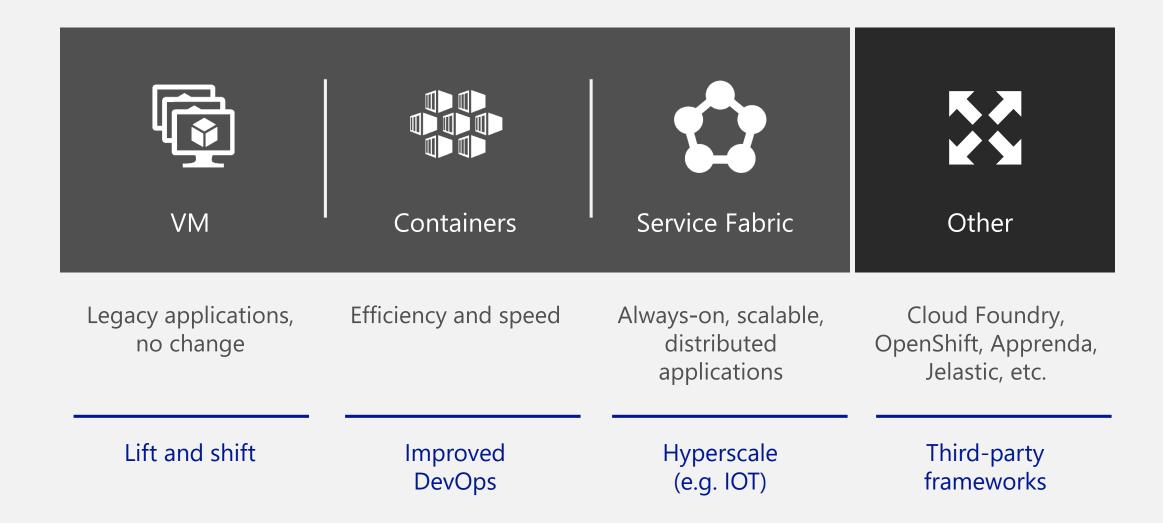


Build apps faster and easier Manage applications proactively

Deliver native mobile apps seamlessly

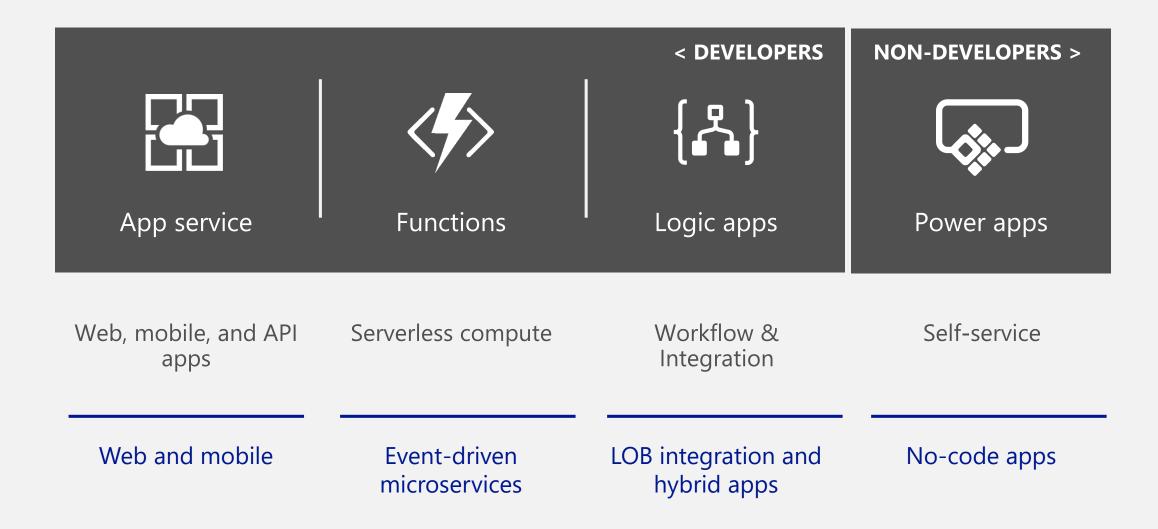
Build apps faster and easier - IAAS





Build apps faster and easier - PAAS

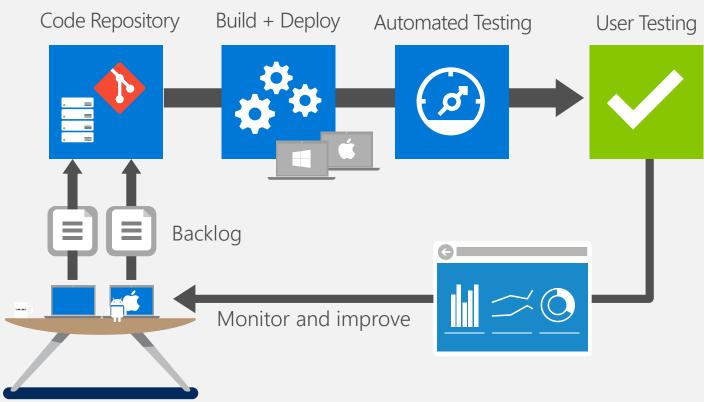




Deliver native mobile apps seamlessly







Mobile Back-end Services

Cloud and Offline Data

User Authentication

Push Notifications

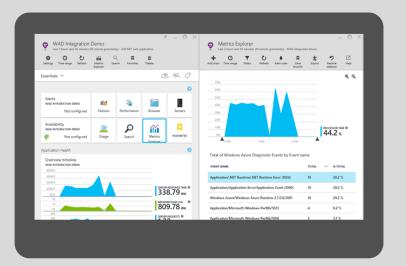
Manage applications proactively



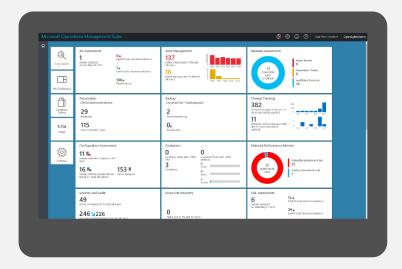
Azure Portal



Application Insights

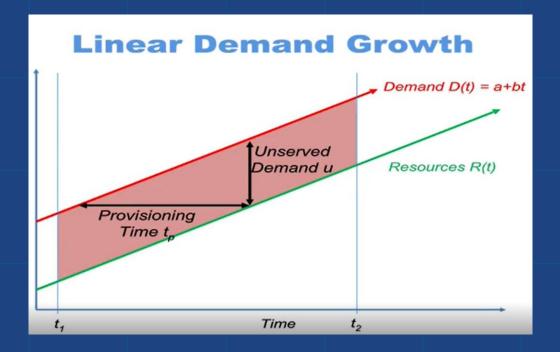


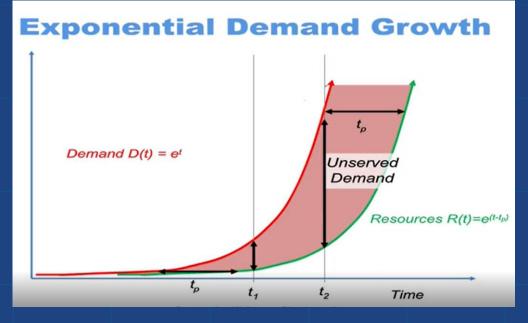
Operations Management Suite



Risk Mitigation

- Load uncertainty and variability
- Downtime natural or human caused
- Poor user experiences
- Economic loss due to excess capital costs
- Technology Obsolescence





Protect your business









Detect and mitigate threats

Achieve global scale, in local regions

The most trusted and compliant cloud

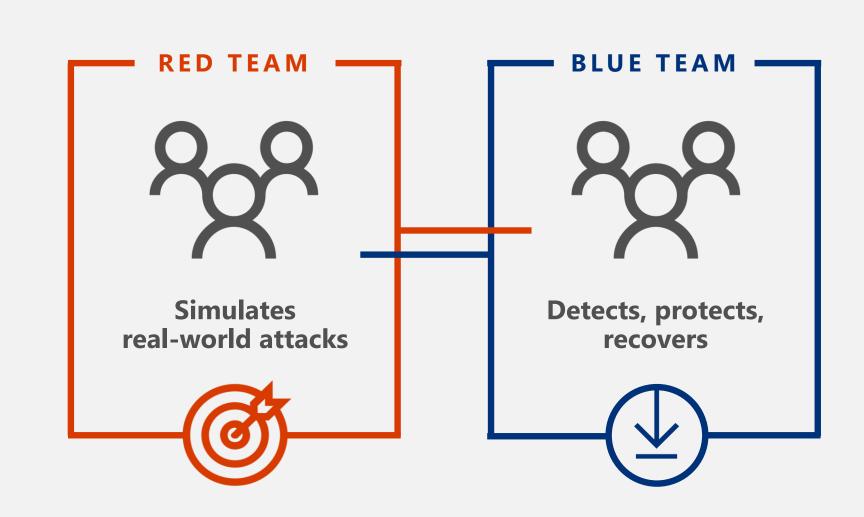
Detect and mitigate threats



Assume Breach

Identify Attacks

Restore Environment



Detect and mitigate threats

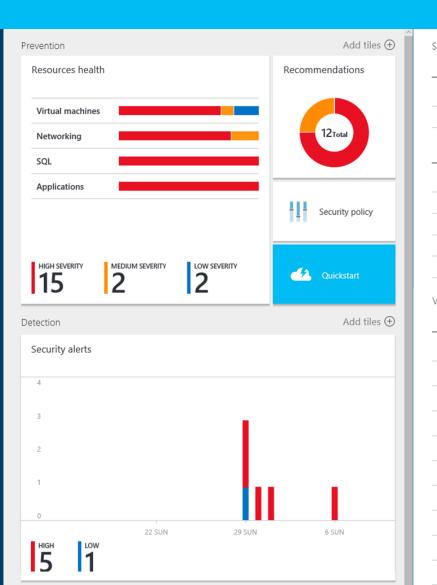
•

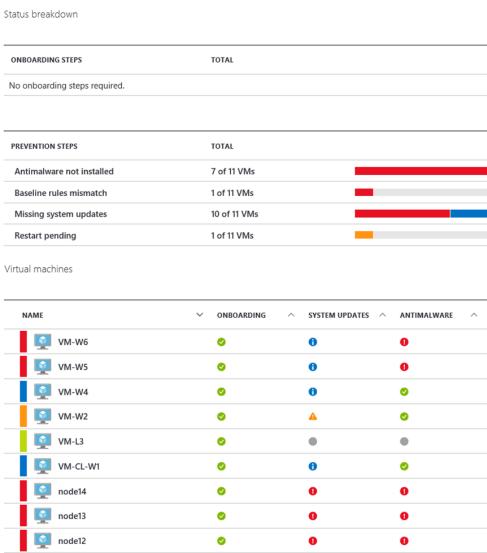




Detect

Respond





The most trusted and compliant cloud























ISO 27001

ISO 27018

ISO 27017

ISO 22301

SOC₁ Type 2

SOC 2 Type 2

SOC 3

CSA STAR Self-Assessment

CSA STAR Certification

CSA STAR Attestation











DoD DISA SRG Level 2



DoD DISA SRG Level 4



SP 800-171



FIPS 140-2



Section **508 VPAT**



ITAR



CJIS

IRS 1075

劉IRS















FISC

Japan













FERPA



PCI DSS Level 1





FACT UK

Shared

Assessments

HIPAA / **HITECH Act**

HITRUST

GxP 21 CFR Part 11 MARS-E

IG Toolkit UK





FFIEC

































Argentina

UK Model Clauses G-Cloud China DJCP

China **GB 18030**

China **TRUCS** Singapore **MTCS**

Australia IRAP/CCSL Zealand

New GCIO

Japan My Number Act

ENISA IAF

Japan CS Mark Gold Spain

ENS

Spain **DPA**

India MeitY Canada **Privacy** Laws

Privacy Germany IT Shield Grundschutz workbook

Trusted Cloud Principles

A set of foundational beliefs that guide the way we do business in the cloud.

Security



Privacy & Control



Compliance



Transparency



Strong security
protects data and
safeguards from hackers
and unauthorized access
by using state-of-theindustry technology,
processes, and
certifications.

Customers control their data, as well as permissions. They can always access their data, take it with them when they terminate an agreement, and delete it upon request.

Customers can store and manage their data
in compliance with their
obligations, applicable
laws, regulations, and
key international
standards.

Customers know what is happening with their data. Microsoft explains in clear, plain language how the cloud provider uses, manages, and secures data.

Industry Validation



Gartner Magic Quadrants

- Microsoft is a leader in all 6 Gartner Magic Quadrants on cloud technology
- Microsoft is a leader across laaS, PaaS, Private and Public Cloud technology



Magic Quadrant for Cloud Infrastructure as a Service Worldwide (May 2015)



Magic Quadrant for Public Cloud Storage Services (June 2015)



Magic Quadrant for Enterprise Application Platform as a Service (March 2015)



Magic Quadrant for Business Intelligence and Analytics Platforms (Feb 2015)



Magic Quadrant for X86 Server Virtualization Infrastructure (July 2015)

LEADER



Magic Quadrant for Operational Database Management Systems (Oct 2015)



*Gartner does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.

Momentum

194 billion

External Requests made to Azure App Service

340 billion

Azure SQL query requests processed/day

750 million

Azure Active Directory users

188 billion

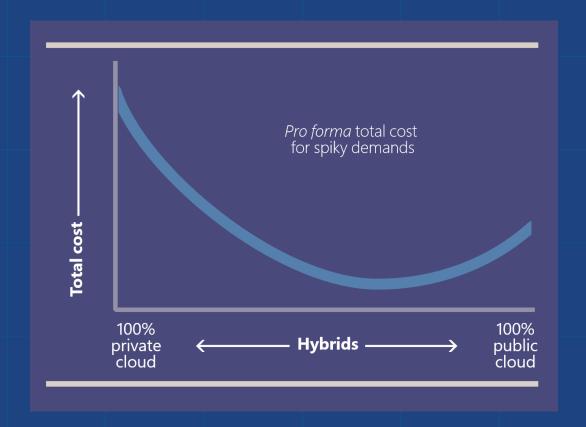
Hits to websites run on Azure Web App Service

>90%
of Fortune 500 use
Microsoft Cloud

Cost Reduction

All other things being equal...

- Use Cloud IF it costs less than internal IT while ensuring required SLAs
- But if demand is "spikier" than cloud is "costly"... then cloud will cost less
- Rent? Or Buy?



Build freely, deploy consistently









Build and run open source solutions

Consistent identity, apps, data & management

Deploy the cloud on-premises

Build and run open source solutions



Applications









DevOps











Frameworks













Databases & middleware













Containers











Infrastructure













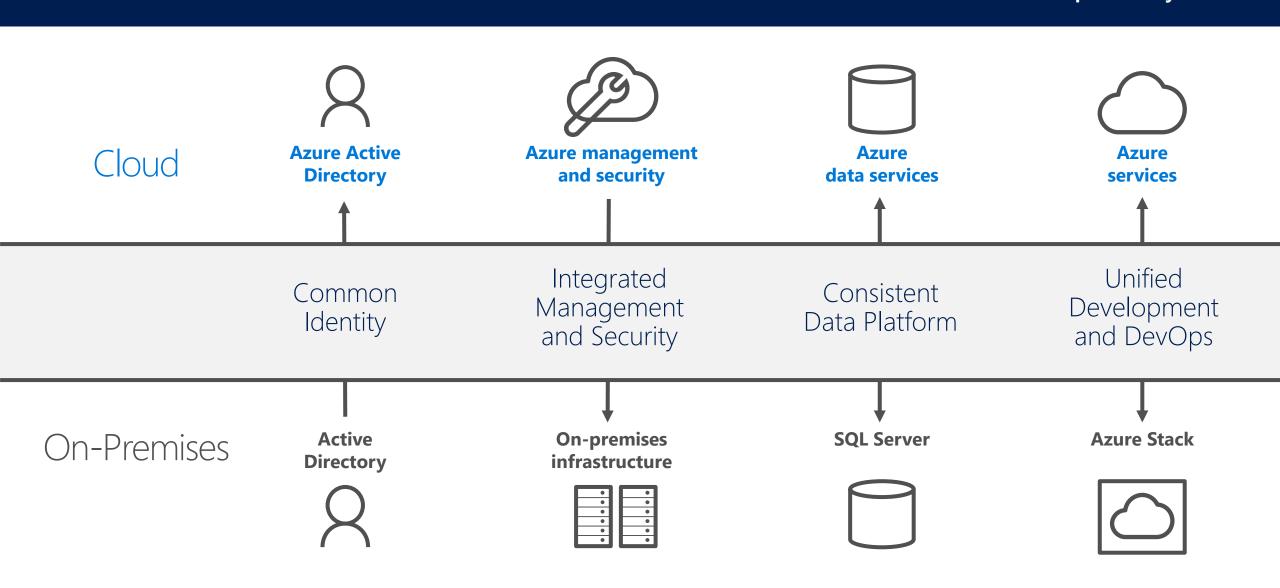




Consistent identity, apps, data & management



Open and Hybrid



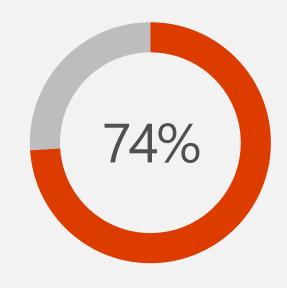
Hybrid cloud is a reality today

"35% of organizations in Asia Pacific cited having an integrated hybrid Cloud solution"³

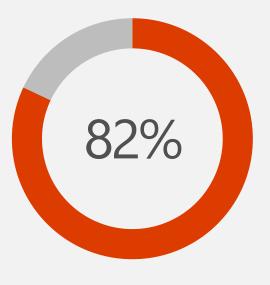
Workload requirements



- **✓** Regulation
- **✓** Data sensitivity
- Customization
- **✓** Latency
- ✓ Legacy support

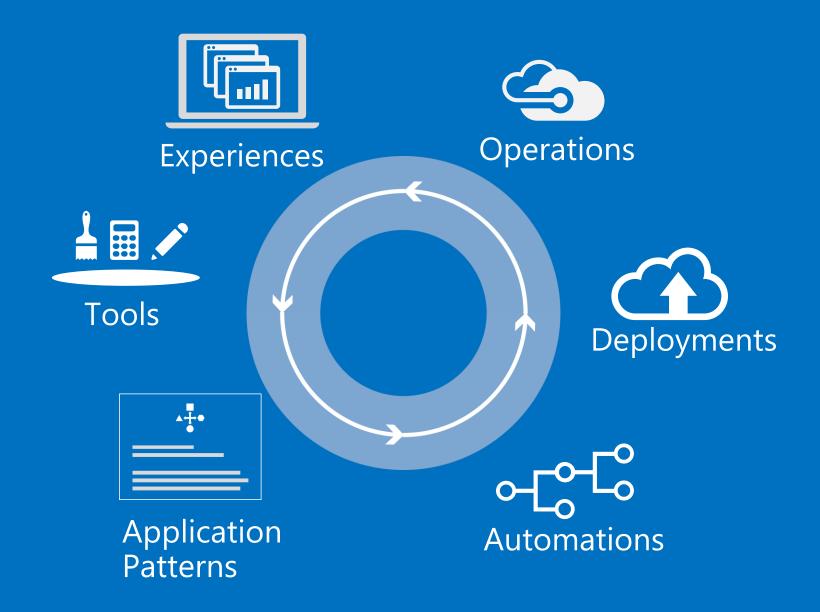


Enterprises believe a hybrid cloud will enable business growth¹



Enterprises have a hybrid cloud strategy²

Consistency across clouds is key



Microsoft's comprehensive hybrid capability

	HYBRID STORAGE	StorSimple + Azure Storage
	HYBRID BACKUP + DR	Azure Backup + Azure Site Recovery
	HYBRID DATABASE	SQL Server 2016 Stretch DB + Azure SQL DB
	HYBRID APP INTEGRATION	Azure Service Bus + BizTalk Services
ofo	HYBRID IDENTITY	Azure Active Directory + Active Directory
	HYBRID CLOUD MANAGEMENT	Operations Management Suite + System Center
00	HYBRID NETWORKING	VPN + ExpressRoute
	HYBRID PLATFORM	Azure Stack + Azure

Deploy the cloud on-premises





Portal | PowerShell | Dev-ops tools

Azure Resource Manager

Azure IaaS | Azure PaaS

Cloud infrastructure

One Azure ecosystem

Unified app development

Azure services in your datacenter

Portal | PowerShell | Dev-ops tools

Azure Resource Manager

Azure IaaS | Azure PaaS Compute | Networking | Storage App Service | Service Fabric

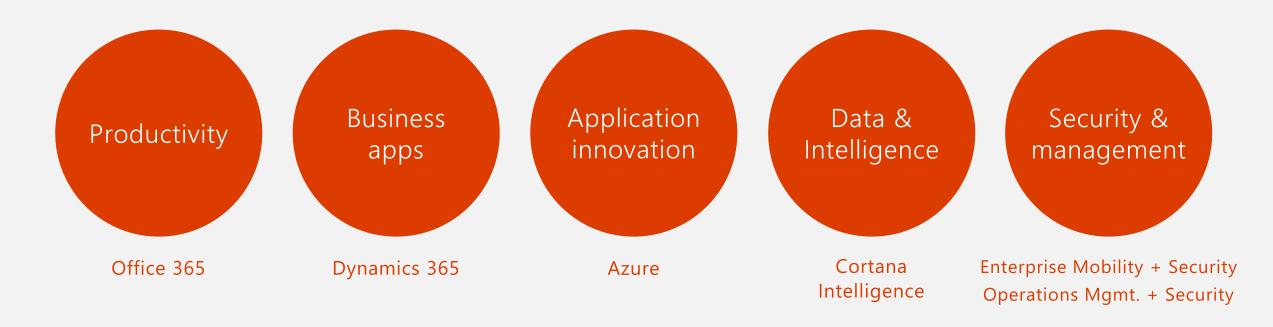
Cloud-inspired infrastructure



Microsoft Azure

Microsoft Azure Stack PRIVATE | HOSTED

The Microsoft Enterprise Cloud



"Microsoft is growing its cloud revenue faster than Amazon" AWS revenue grew about 69% whilst Microsoft Azure revenue grew by 127%

- Business Insider 2016

120K+

New Microsoft Azure customer subscriptions/month

5M+

Organizations using Azure Active Directory

1.4M +

SQL databases running on Microsoft Azure

85%

of Fortune 500 use the Microsoft Cloud







Security Center





Azure Active Directory





Multi-Factor







Key Vault



Marketplace



VM Image Gallery & VM Depot

Platform Services

Media & CDN







Integration



API Management











Developer Services

Visual Studio

VS Team Services

Application Insights



Container Service







Compute Services

RemoteApp



 \equiv

Dev/Test Lab

Application Platform



احا





Mobile Apps





Intelligence

Data



Cognitive Services Set Framework



Analytics & IoT











Azure Site Recovery

Import/Export

Operational Analytics

Hybrid

Cloud

AD Privileged Identity
Management

Backup

Azure AD Health Monitoring



Infrastructure Services

Compute





≡I.









 \equiv

Storage















Networking



 \equiv



 \equiv



Datacenter Infrastructure (32 Regions, 24 Online)

Think of Azure services as a Lego set





SOLUTIONS

Solution providers have built solutions using Lego bricks



Azure Solutions and Use Cases

















Microservice applications

Business intelligence

Big data and analytics

Data warehouse









Business SaaS apps

Backup and archive

Development and test

Disaster recovery









Hybrid integration

SAP on Azure

SharePoint on Azure

Dynamics on Azure







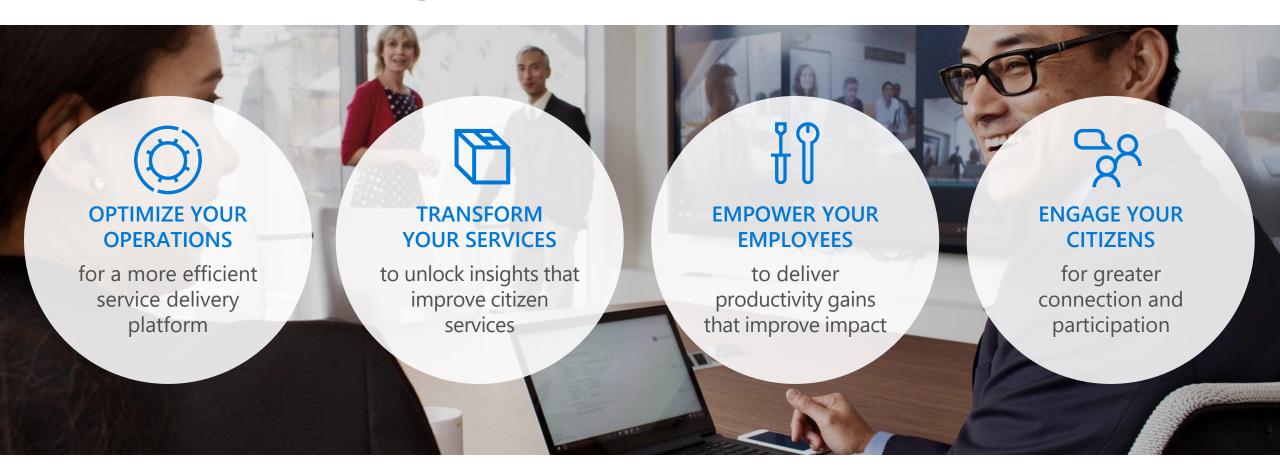




High performance computing



Digital transformation is essential to advance the mission of government



Thank You!

Herns A. Hermida
Cloud and Enterprise Business Lead
Microsoft Philippines
hhermida@microsoft.com

