

Microsoft Azure The cloud platform built for education

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Private Cloud, Public Cloud, Hybrid Cloud



Microsoft's cloud environment





Microsoft Azure Public, Global, Shared Datacenters

Microsoft Azure Stack & Cloud Platform System

Summary of Major Vendor Emphasis Industry Services Delivered* Build Private Deliver validation Services Services laaS PaaS Amazon \bigcirc salesforce.com Google Microsoft IBM Ŏ Ŏ VMware 0 Õ \bigcirc Oracle SAP \cap HP Note: This is not an evaluation of capabilities, but rather of emphasis. 0 0 * The provider may offer public, community or Significant None virtual private services

"Microsoft's comprehensive hybrid story, which spans applications and platforms as well as infrastructure, is highly attractive to many companies, drawing them towards the cloud in general."

LYDIA LEONG, GARTNER

Microsoft Leads Everywhere...





Cloud Storage (June 2015) Amazon Web Services Microsoft Google As of June 2015 COMPLETENESS OF VISION

Enterprise App PaaS (Jan 2014)



X86 Server Virt (July 2015)

Private Offerings

- None -

- None

None

None

Gartner.

Packaged

Cloud

Enabling

Tech.

SaaS

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Operational DBMS Systems (Oct 2015)



Hyper scale Infrastructure is the enabler 28 Regions Worldwide, 22 ONLINE...huge capacity around the world...growing every year



Platform Services



in Public Preview

Azure Backup Generally Available

Azure API Management Premium simplifies high availability and massive scale for APIs

ExpressRoute for Office 365

Azure Active Directory Dynamic Membership For Groups

Automatic Password Change for Social Media Shared Accounts

Compute-Intensive A10 and A11 Virtual Machine Instances

Remote Desktop app for Windows Phone support for Gateway and Remote Resources

Informatica Cloud Agent availability in Linux and Windows Virtual Machines

Azure DocumentDB Hadoop Connector

Azure HDInsight support for more VM sizes

Enterprise-Grade Array-Based Replication and Disaster Recovery

500+

New releases in the last 12 months

Azure is an open cloud



Azure compliance audits and certifications



Getting started with Azure

Your IT Portfolio (\$\$, Resources, Effort)



1. Application Operations

- You have A LOT of this... 50-70% or more ???
- It's used 5-10% of the time
- Projects here are Low Risk, can have big ROI

2. Apps you Bought

- What can you STOP doing... use the SaaS model
- Microsoft (O365/Exchange/SharePoint, CRM, Visual Studio Online etc.)

3. Apps you would LIKE to build

- Use the Azure PaaS building blocks
- More Productive, Less Infrastructure Work

4. Existing Production Apps you Built

- Leave 80% of existing custom apps alone
- MOVE SMALL and high burst workloads













Move up the stack – to PaaS – as much a cultural shift as a technology shift

Azure handles resilience, servicing, management

Shift to Optimization from deployment/ops

Custom apps

50%

25% Custom apps 10%

In General – LEAVE THESE ALONE (for now)

Exceptions:

- 1. High Burst/HPC Expensive, Capacity Constrained Easily Virtualized Apps... HPC Pack, Azure Batch, HPC Hardware
- 2. Low Usage Apps move and optimize cost
- 3. EOL Hardware Reduce DC footprint -> Azure Virtual Machines

Cloud-enable apps

Run the applications you use on workstations and clusters today

Run at scale

Batch takes care of starting a pool of compute VMs for you when you're ready to run a job

Manage delivery

Manage who can access it, how many resources they can use, and ensure requirements such as encryption are met



Platform Services



Azure Education Scenarios

Test / Development

Virtuelle Umgebungen für Test-, Entwicklungs- und Unterrichtsszenarien

Mit Windows oder Linux

Auch von Zuhause



Einheitliche Umgebung

Schulanwendungen auf allen Geräten verfügbar

Einfache Skalierung

Identity (AAD, ADFS, MFA)

Nahtlose Benutzererfahrung zwischen onPrem und Cloud

Self-Service Password Reset

Single Sign On mit einer Vielzahl unterschiedlicher Dienste











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Getting Evidence

The best place for evidence: <u>https://microsoft.sharepoint.c</u> <u>om/teams/cloudosevidence/P</u> <u>ages/evidence-generator.aspx</u>

Cloud OS Evidence Generator

simple steps! This tool is designed to help you sort through hundreds of case studies and PowerPoint slides so you can create custom case study Select asset type PDF booklets or PowerPoint decks based on the most relevant and useful customer evidence. All assets are approved for external use and can help you accelerate revenue with prospective customers! (🌡) Personalize (F) Back to Cloud OS Evidence 🔛 Save & distribute Pick an asset type below to get started PDF Generator PPT Generator Create a PowerPoint Deck Let's Go! · Great for understanding the · Fast facts of each customer's whole customer story story Typically between two and four Each case study is pared down to the one slide highlighting the (⊥) My Saved Links (1) pages long best parts of the story

Cloud and Enterprise Products Included in the Generator

Windows Server

With Windows Server, Microsoft delivers a server platform built on our experience of building and operating many of the world's largest cloud-based services and data centers. Windows Server will help you cloud-optimize your IT so you can fully meet your organization's unique needs.

Windows Azure

Windows Azure is an open and flexible cloud platform that enables you to quickly build, deploy, and manage applications across a global network of Microsoft-managed data centers. You can build applications using any language, tool, or framework and integrate your public cloud applications with your existing IT environment.



Windows Intune combines both cloud and onpremises capabilities to fit your PC and mobile device management needs.

Create your own customized evidence assets in just a few