

Microsoft & Red Hat Hybrid Cloud partnership: Infrastructure without Boundaries

Adir Ron
Open Source Lead
Microsoft

Microsoft & Red Hat partnership: Solving your Hybrid Cloud Enterprise Needs

Adir Ron
Open Source Lead
Microsoft



Microsoft

+



redhat®

Microsoft & Open Source ?



Microsoft + Open Source

“Azure Container Service is different and offers the broadest hint yet that Microsoft wants to build real products with open source, not merely leverage it where it's convenient”

InfoWorld Serdar Yegulalp

Microsoft: the Open Source Company

“This is not your dad's Microsoft”

ZDNet Steven J. Vaughan-Nichols

Redmond top man
Satya Nadella:
'Microsoft LOVES
Linux'



The Register

Neil McAllister



Source: [Tweet](#) by John Papa (Google Developer Expert, Microsoft Regional Director and MVP)

Dead and buried:
Microsoft's holy war on
open-source software

“Years ago, Microsoft's CEO described open source as a cancer. Times have changed. Just ask 22-year Redmond veteran and open-source proponent Mark Hill.”



Charles Cooper

Open Source Inv

the Momentum

Our Products



SQL Server on Linux



HD Insight managed service on Linux

REVIEW
A
n
Window
C:\us
root
Run Linux

Organizations with the most open source contributors

	Microsoft	16,419
	facebook	15,682
	docker	14,059
	angular	12,841
	google	12,140
	atom	9,698
	FortAwesome	9,617

60% of all images in Azure Marketplace are based on Linux/OSS

1 out of 3 VMs on Azure run Linux, and more than half of all new VMs run Linux

Our Partnerships



Surprise! Microsoft has the most Open Source contributors on GitHub



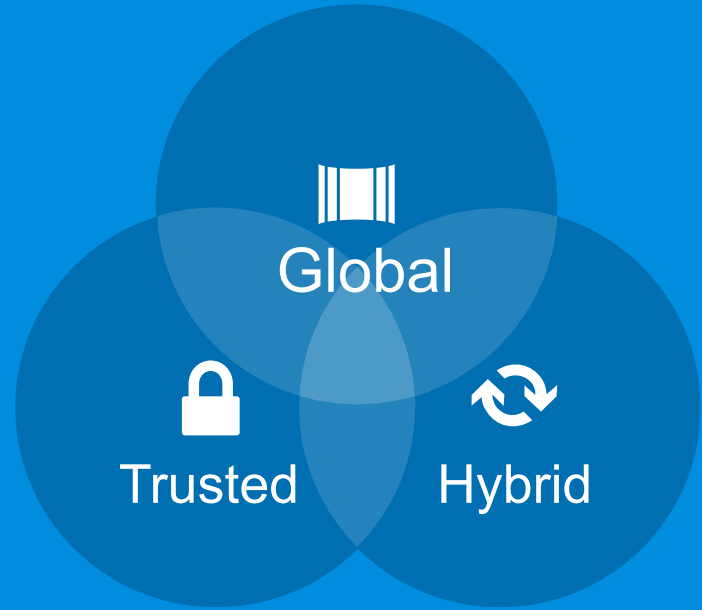
Eclipse Foundation

by Mehedi Hassan @mehedih_ Sep 14, 2016 at 21:11 GMT

Microsoft
Linux on Azure

Microsoft engineers

Microsoft Azure



600+

Services and features released in 12 months

Momentum

120,000

New Azure customer
subscriptions/month



100 Trillion

Objects in Azure Storage



>85%

of Fortune 500 use
Microsoft Cloud

1 in 3

Virtual Machines
run Linux



Connectivity

ExpressRoute Partners
on every continent
except Antarctica!



We've Been Busy: Open Source Partnerships in the Cloud



30% of VMs on Azure Run Linux Today! >50% of new VMs on Azure are Linux!

Global & Hyper Scale Cloud



36

Azure regions

2X the number of AWS regions

Recently launched:

US Regions: West US 2 and West Central added to the US Region

Germany: Public Preview in progress, launched in Sep CY16

United Kingdom: launched in Sep CY16

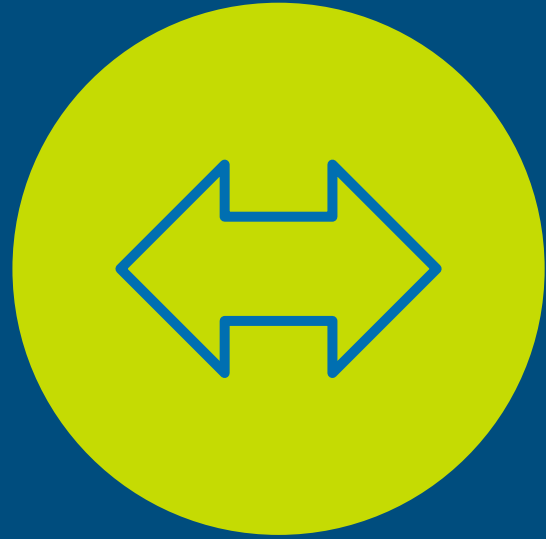
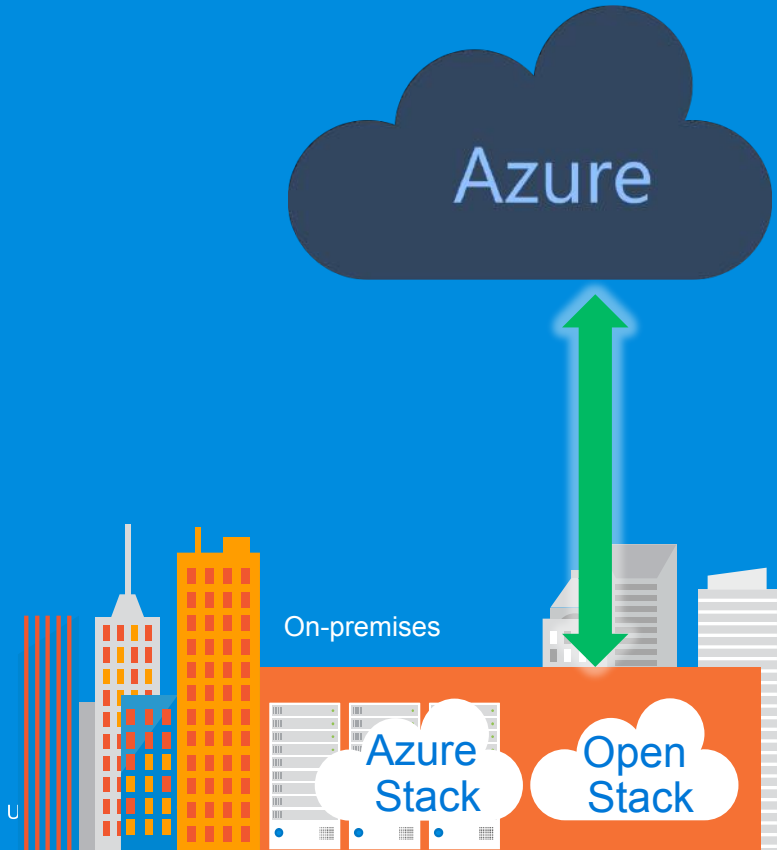
Newly Announced:

France: France Central and France South

Korea: Korea Central and Korea South

DoD east and central

Hybrid Cloud



The Microsoft Trusted Cloud

Azure has the largest compliance portfolio in the industry

INDUSTRY

 ISO 27001	 SOC 1 Type 2	 SOC 2 Type 2
 SOC 3	 PCI DSS Level 1	 ISO 27018
 Content Delivery and Security Assoc.	 ISA/IEC 27017	 Cloud Controls Matrix v3.0.1
 MPAA	 Shared Assessments	

UNITED STATES

 FedRAMP JAB P-ATO	 HIPAA /HITECH	 FIPS 140-2
 21 CFR Part 11	 FERPA	 DISA Level 2 (DIACAP)
 CJIS	 IRS 1075	 ITAR-ready
 Section 508 VPATs	 FISMA	 NIST 800-171
 MARS-E	 GxP	 DIACAP












REGIONAL

 Argentine Data Protection Act 25.326	 European Union Model Clauses	 United Kingdom G-Cloud	 Canadian Privacy Laws
 China GB 18030	 China TRUCS	 Singapore MTCS Level 3	 Australian Signals Directorate
 New Zealand GCIO	 Japan Financial Services	 ENISA IAF	 Cloud Security Mark Gold
 Spain ENS	 FACT	 EU-US Privacy Shield	 NZCC Framework
 China Multi Layer Protection Scheme	 Japan My Number Act		

Azure compliance

Azure has the largest compliance portfolio in the industry

INDUSTRY

 ISO 27001	 SOC 1 Type 2	 SOC 2 Type 2
 SOC 3	 PCI DSS Level 1	 ISO 27018
 Content Delivery and Security Assoc.	 ISO/IEC 27017	 Cloud Controls Matrix v3.0.1
 MPAA	 Shared Assessments	

UNITED STATES

RECENTLY ANNOUNCED



ISO/IEC
22301:2012



Privacy Shield
Framework

EU-US
Privacy Shield



Germany
IT-Grundschutz
Workbook

REGIONAL

 GOV.UK United Kingdom G-Cloud	 Canadian Privacy Laws		
 Singapore MTCS Level 3	 Australian Signals Directorate		
 ENISA IAF	 Cloud Security Mark Gold		
 Spain ENS	 FACT	 EU-US Privacy Shield	 NZCC Framework
 China Multi Layer Protection Scheme	 Japan My Number Act		



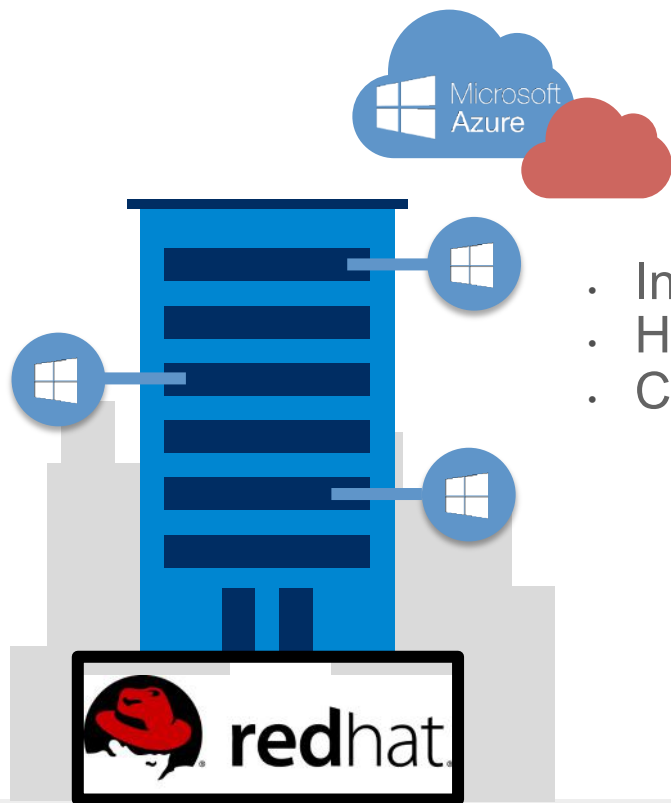
Microsoft

+



redhat®

Cloud Innovation Presents Challenges



- Integration with existing IT investments
- Heterogeneous, complex landscape
- Changing application architectures

Red Hat and Microsoft Strategic Partnership: The “Enterprise Ready” **unique** offering

Red Hat and Microsoft have created an **industry-changing integrated engineering and support** model for customers using Red Hat solutions in Azure.

- **Red Hat participation** in Azure forums
- Red Hat & Microsoft **security response team** collaboration
- Support staff from Red Hat & Microsoft **co-located** in Redmond
- **Integrated** ticketing systems
- Red Hat Technical Account Management & Microsoft Premier Services



Red Hat customers needs for Hybrid cloud

Hybrid and
Heterogeneous
Clouds

Various
Application
Development
Environments

Flexible
Deployment
Options

Portability and
manageability

Confidence
with an
enterprise
cloud

Red Hat and Microsoft Strategic Partnership: Our **unique** “Enterprise Ready” offering

Red Hat products in on-premise environments and Microsoft Azure

Microsoft .NET and SQL Server for Red Hat Enterprise Linux

Microsoft Azure Integration on OpenStack

Management tooling with Red Hat CloudForms

Microsoft partnership in the Red Hat Certified Cloud and Service Provider program (CCSP)

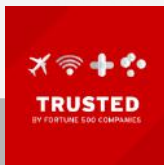
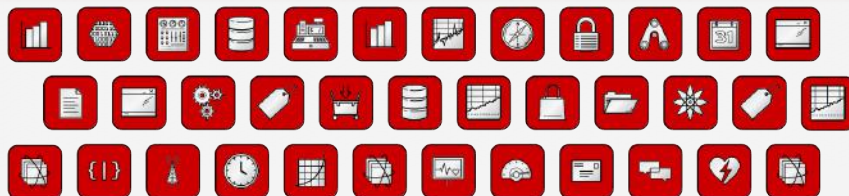
Enterprise Operating System



Red Hat Enterprise Linux is a trusted, open source operating system that enterprise customers across the globe rely on to run their business-critical workloads.



- Subscription flexibility with Red Hat Cloud Access
- Marketplace Images on-demand
- Foundation for next-gen architectures



RED HAT[®]
ENTERPRISE LINUX[™]

Hybrid Application Framework



OpenShift by Red Hat and **Red Hat JBoss Middleware** enable developers to build, integrate, and deploy cloud-native applications and open Red Hat's award-winning application middleware, development & deployment solutions in Azure.



- Built on an Enterprise Grade Platform
- Comprehensive suite of application services
- Natively integrated Docker containers



**OPENSIFT
ENTERPRISE**
by Red Hat™

**RED HAT™ JBOSS™
MIDDLEWARE**

Hybrid Storage



Red Hat Gluster Storage is a reliable and cost-effective, storage solution that's engineered for Hybrid Cloud environments to deliver rich functionality without rigid hardware dependencies.



- Scale-out & Scale-up cloud storage
- Rich Media & Archival
- File sync & share



RED HAT®
GLUSTER STORAGE

Hybrid Cloud Management



Red Hat CloudForms is a cloud management platform that offers the control and automation capabilities IT staff need to effectively manage increasingly complex hybrid infrastructures.



- Hybrid Cloud Management Platform
- Intelligent Cloud Brokering
- System Center Integration



UNIFIED MANAGEMENT
AND OPERATIONS



COMPLETE LIFE-CYCLE
MANAGEMENT



VISIBILITY AND
ANALYTICS



COMPLIANCE
AND GOVERNANCE



INTEGRATION AND
COMPOSABILITY

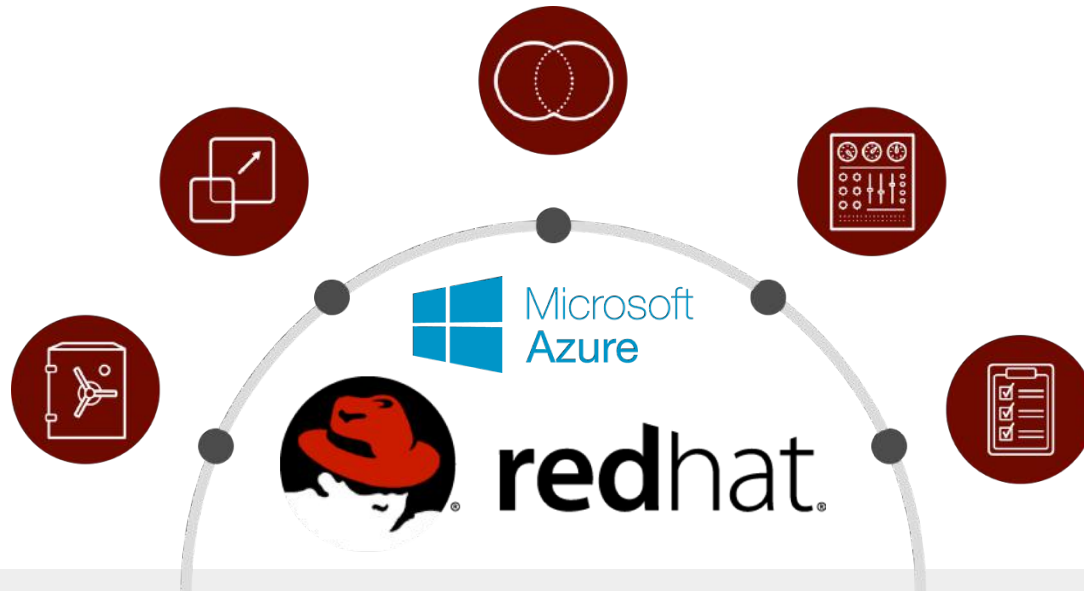
RED HAT
CLOUDFORMS

Infrastructure Without Boundaries:

Microsoft & Red Hat's mission statement



Empower modern IT infrastructures with the **flexibility** to respond to rapidly changing business demands and technology landscapes, while at the same time must be **secure, reliable**, and **manageable** enough to support mission-critical workloads.



Calls to Action

1

Schedule a deep dive meeting at the Microsoft Technology Centers. Connect with your Microsoft account manager and/or Red Hat account manager.

2

Engage to have an Azure Assessment conducted. Ask your Microsoft account team or partner about scheduling an Assessment for Red Hat.

3

Sign-up for Azure trial and test it! (Free Azure Passes in our booth!)

4

Attend the following events:

- Red Hat on Azure webinar on Microsoft's "Open Source Mondays" – 12.12
- Red Hat & Microsoft Round Table in Red Hat Israel

Where to get more information?

From Red Hat:

- Partnership Overview: <http://www.redhat.com/en/partners/strategic-alliance/microsoft>
- Cloud Access: <http://www.redhat.com/en/technologies/cloud-computing/cloud-access>
- Customer Portal: <http://access.redhat.com/ecosystem/partners/ccsp/microsoft-azure>
- How to configure CloudForms for Azure: <http://red.ht/1RMFSf6>

From Microsoft:

- Azure + Red Hat Overview: <https://azure.microsoft.com/campaigns/redhat>
- Red Hat Enterprise Linux now available in the Azure Marketplace: <https://azure.microsoft.com/en-us/blog/more-open-source-innovation-azure/>
- Azure Open Source Hub: azure.com/opensource
- Azure Free Trial: <https://azure.microsoft.com/trial/free-trial-open-source/>

For additional questions and for more information send e-mail to opensource@microsoft.com



Openness Blog
Read about the latest developments and momentum

<http://openness.microsoft.com/blog>



Microsoft Openness
Learn more about our commitment to embracing Open Source

<http://www.microsoft.com/Openness>

Thank you.





redhat.®