

Microsoft+

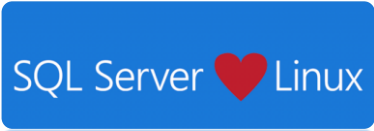
Empowering Your Digital Transformation Microsoft, Cloud and Open Source

Open Source Software 전략 총괄

한국마이크로소프트

최주열 이사

Microsoft + Open Source Momentum



SQL Server on Linux
(Preview today, GA in mid-2017)



Red Hat - Microsoft Partnership
(Nov 2015)



HD Insight PaaS on Linux GA (Sep 2015)



Microsoft joins Eclipse Foundation (Mar 2016).

Windows Subsystem for Linux

Run Linux on Windows natively
(March 2016)

```
C:\Users\markhill> bash
root@localhost: #
```

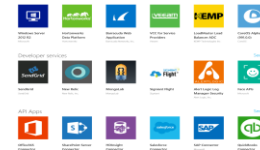
Microsoft
CERTIFIED
Solutions Associate
Linux® on Azure



In partnership with the Linux Foundation, Microsoft releases the Microsoft Certified Solutions Associate (MCSA) Linux on Azure certification.

Ross Gardler: President Apache Software Foundation
Wim Coekaerts: Oracle's Mr Linux

Azure Marketplace



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

1 out of 4 ~~3~~

1 out of 4 VMs on Azure runs Linux, and getting larger every day

- 28.9% of All VMs are Linux
- >50% of new VMs

493,141,677

?????? [Microsoft Open Source Hub](#)

Our Open Source Strategy

1. Meet where customers are
2. Deliver the most productive and trustworthy cloud services platform that enables developers using *any framework* on *any device* or *OS* to create and power the world's apps and services that run *anywhere*
3. Best cloud platform for partners to succeed

Any app, language, device or OS works with Azure

DevOps

 Nagios®

 VAGRANT

 Xamarin

 APACHE CORDOVA™

Management



 SCALR
CLOUD MANAGEMENT

Applications





App Frameworks
& Tools

Databases &
Middleware

 hadoop

 MySQL

 mongoDB



 Couchbase

Infrastructure

 redhat.



 suse

 bitnami

 ORACLE
LINUX

 FreeBSD

 docker



*One in Four VMs on Azure
Run Linux Today!
(>50% of new VMs)*

Microsoft-Red Hat Partnership



Cloud Innovation Presents Challenges

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

redhat Microsoft

Why the Partnership Now?

Because that's what our Customers want...

Support and service for hybrid clouds, spanning heterogeneous technologies and architectures	New generation of application development capabilities from Microsoft and Red Hat	Flexible, hybrid deployment and technology options	Portability and manageability	Confidence and choice in the enterprise cloud
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redhat Microsoft

1. Red Hat solutions available natively to Microsoft Azure customers

- Through Red Hat Cloud Access subscription mobility or
- Red Hat Enterprise Linux images On-Demand (pay-as-you-go) available in the Azure Marketplace
- Red Hat Enterprise Linux Virtual Machines, *and*
- Red Hat JBoss Enterprise Application Platform; Red Hat JBoss Web Server; Red Hat Gluster Storage; OpenShift (Red Hat PaaS)

2. Management tooling integration across hybrid cloud deployments

3. Microsoft Windows supported on Red Hat Enterprise Linux OpenStack Platform and Red Hat Enterprise Virtualization

4. Microsoft .NET integration and availability with Red Hat Enterprise Linux

5. Integrated enterprise-grade support: *Co-location of support teams (unique to MS)*

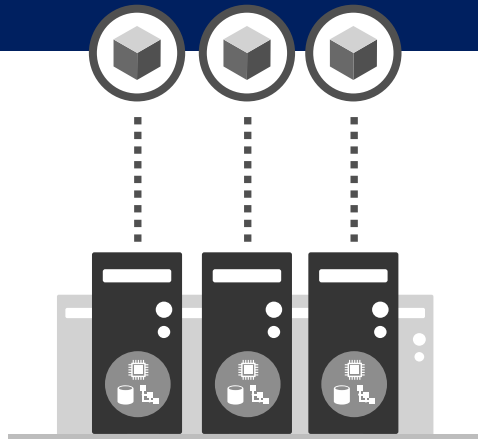
Cloud is a new way to think about your datacenter

Traditional model

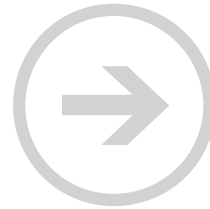
- Dedicated infrastructure for each application
- Purpose-built hardware
- Distinct infrastructure and operations teams
- Customized processes and configurations

Cloud model

- Loosely coupled apps and micro-services
- Industry-standard hardware
- Service-focused DevOps teams
- Standardized processes and configurations

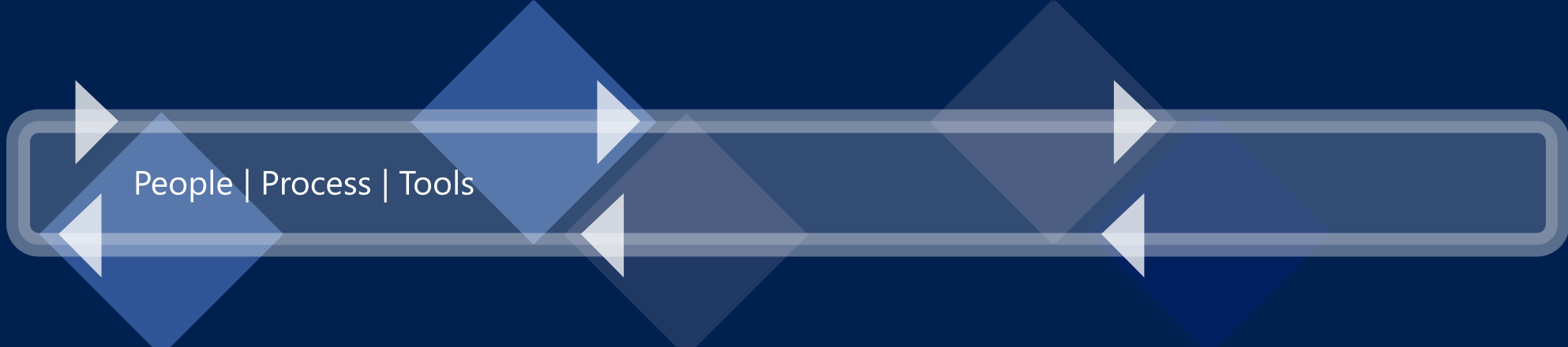


Servers



Services

Azure OSS Dev Ops Ecosystem

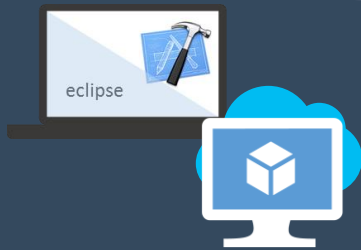


01

Workstations - On-Premises | Hybrid | Cloud

Develop

Developer Workstation



Team Collaboration



02

Services - On-Premises | Hybrid | Cloud

Build & Test

Build/CI



Test



03

Environments - On-Premises | Hybrid | Cloud

Deploy

Configuration



Release



04

Monitoring - On-Premises | Hybrid | Cloud

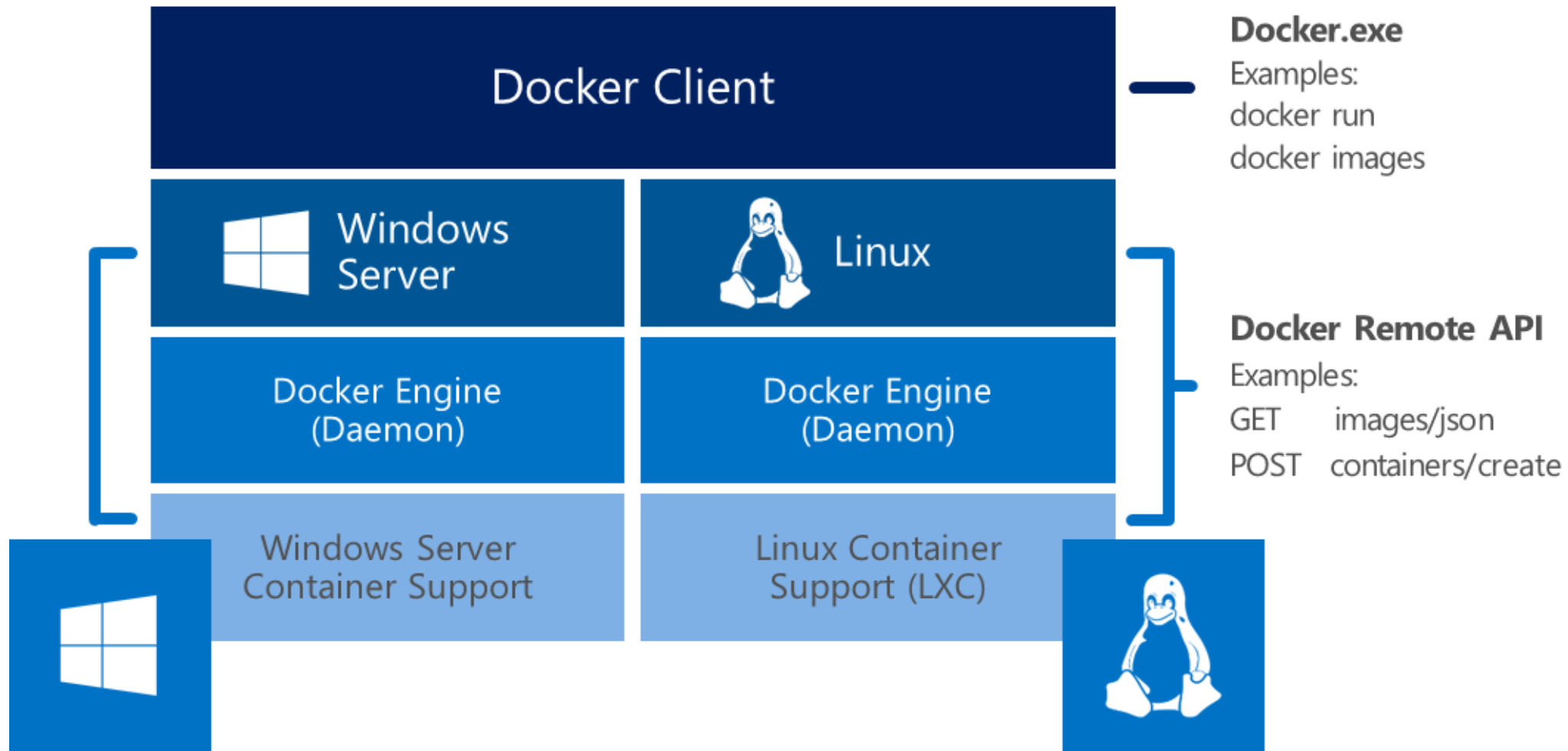
Monitor & Learn

Monitor



Docker Integration

Joint strategic investments to drive containers forward



Azure Container Service



- Streamlined provisioning of Apache Mesos Clusters
- Layered support of Swarm, Marathon, and Chronos
- Docker tooling and API support
- Integrated app management and scaling
- Linux and Windows Server containers
- Public and Private cloud

Write once, deploy any Microsoft Cloud

Virtual machines



Containers



Azure Service Fabric



 Windows Server



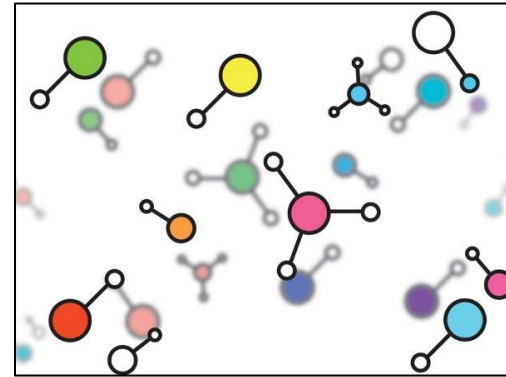
Linux

Azure Resource Manager

Microsoft Azure Stack

Microsoft Azure

Cloud is a New Way to Think About Your Datacenter



**Virtual
Machines**

Scale Sets

**Container
Service**

Service Fabric

**Windows and Linux
.Net, Java, Python, PHP, Ruby, GO,
NodeJS**

**Docker Swarm
Mesos, etc.,**

**Cloud Foundry,
Marathon, Deis,
OpenShift etc.**

Azure is open at every layer

System
Administrator

Azure Resource Manager

Developer

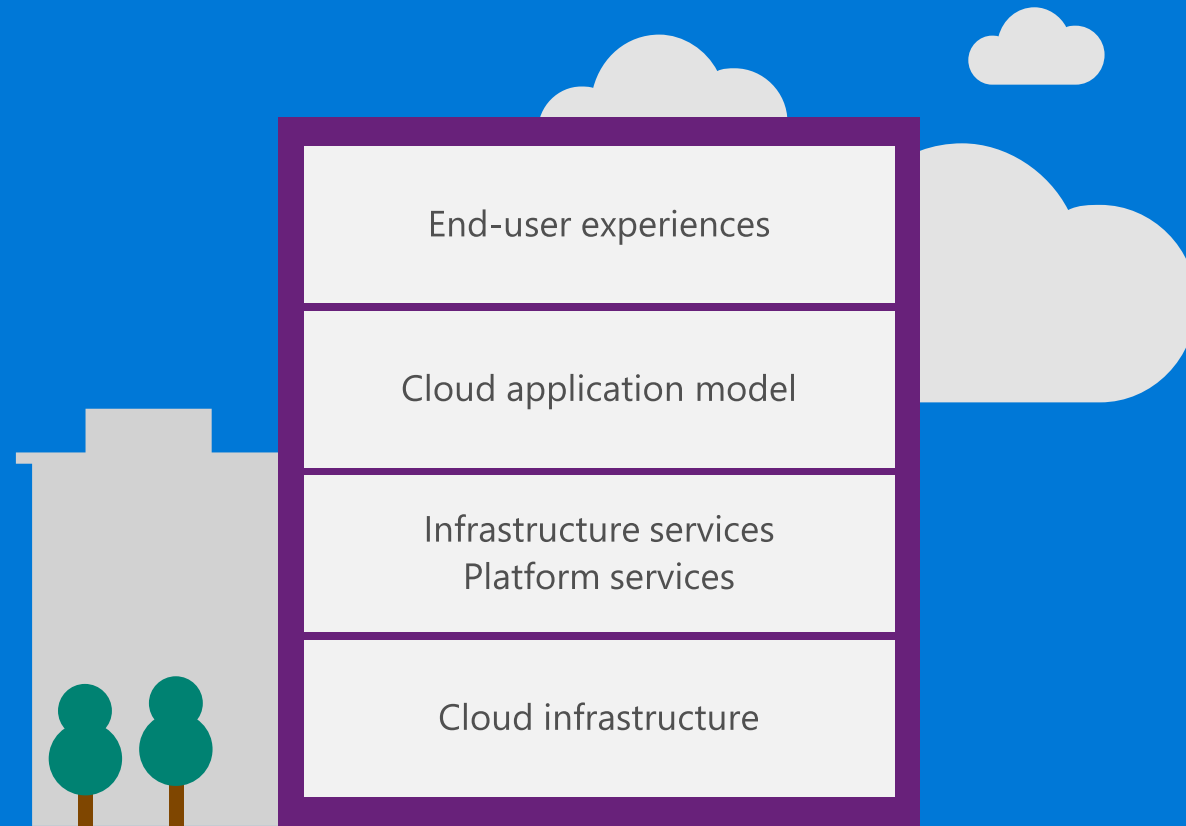


Azure Stack

**The Power of Azure
in Your Datacenter**

Microsoft Azure Stack is a new hybrid cloud platform product that enables organizations to deliver Azure services from their own datacenter thereby helping them achieve more.

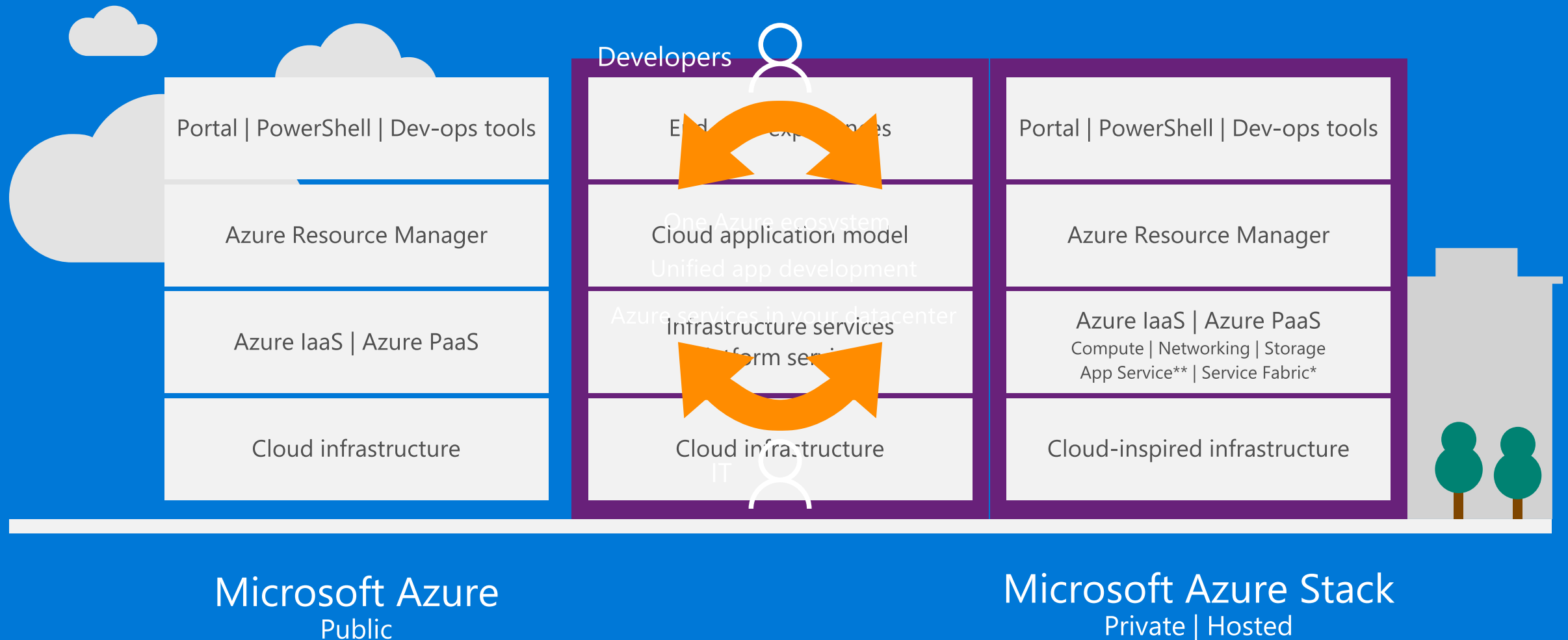
What does a hybrid cloud platform look like?



Private | Hosted | Public

Microsoft's hybrid cloud platform

Power of Azure in your datacenter

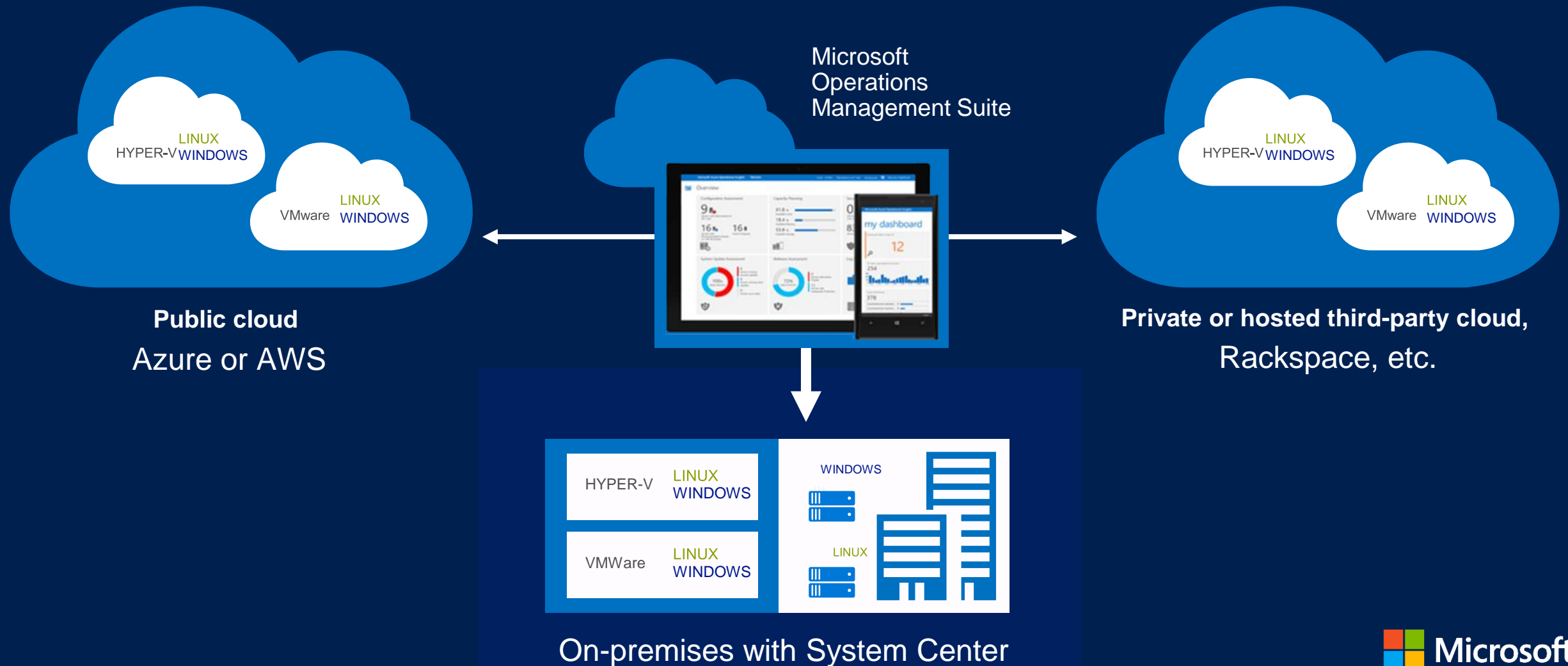


TP1 = Technical Preview 1

** - Only Web Apps is in TP1, * - not in TP1

Microsoft hybrid IT management

Simplified guest and workload management, both on-premises and in the cloud



One Azure ecosystem

Jump-start your Azure Stack efforts with the rich Azure ecosystem

Azure Resource Manager templates

Windows Server and Linux VM images

Third-party services and extensions

GitHub to store and share above application components



