Microsoft

Red Hat and Microsoft Empowering Customers

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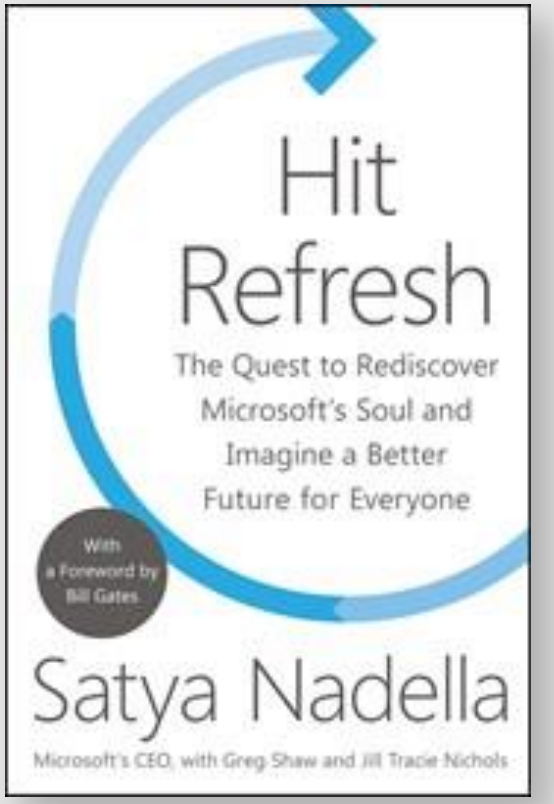


"And we're working with Red Hat, a Linux platform that competes with Windows, so that enterprises built on Red Hat can use our Azure cloud to scale up globally by taking advantage of investments we've made in local data centers around the world."

Satya Nadella

Chief Executive Officer
Microsoft

Hit Refresh: The Quest to Rediscover Microsoft's Soul and Imagine a Better Future for Everyone

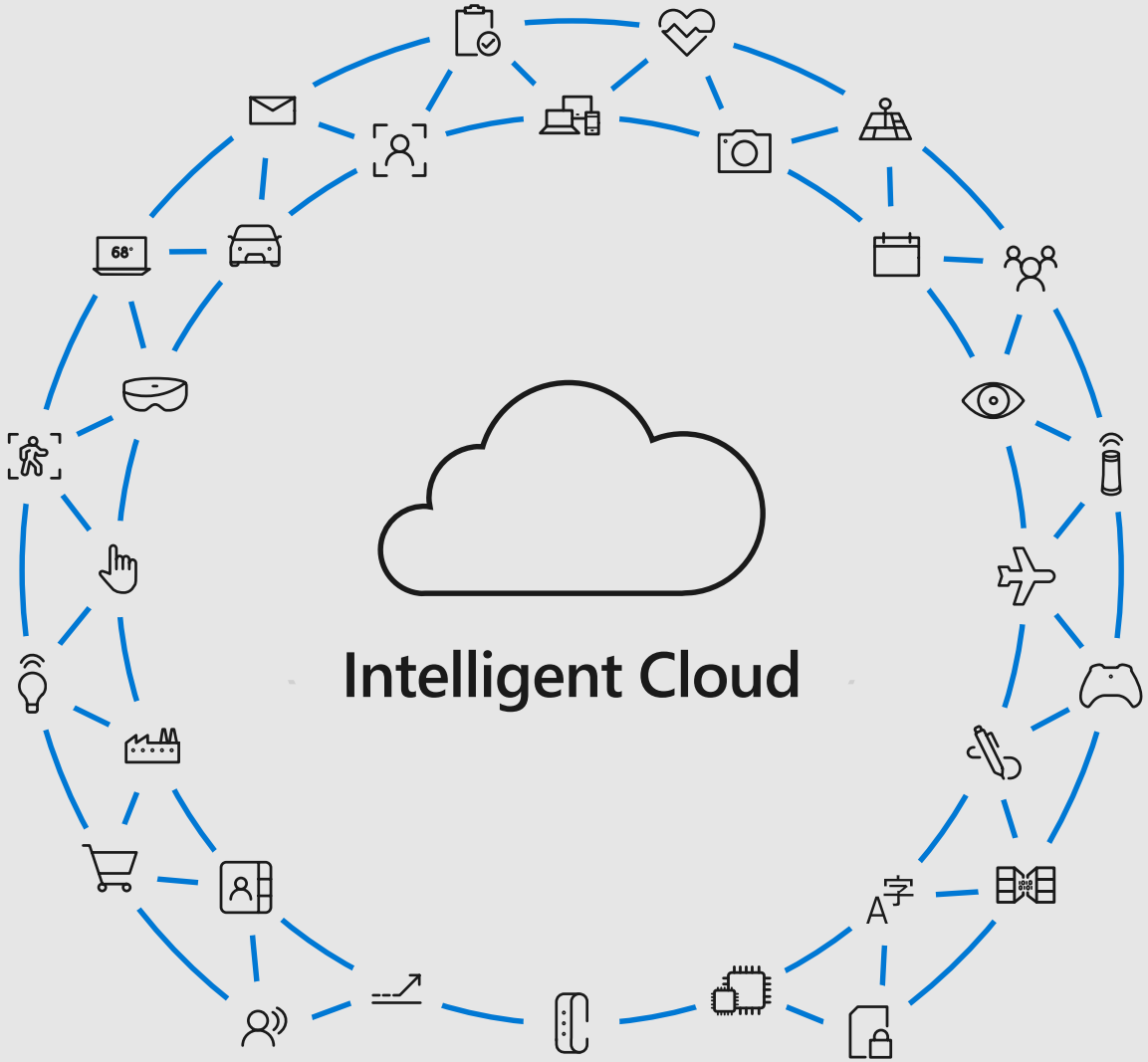
"By extending our partnership with Microsoft, we're able to offer the industry's most comprehensive Kubernetes platform on a leading public cloud, providing the ability for customers to more easily harness innovation across the hybrid cloud without sacrificing production stability."

Paul Cormier

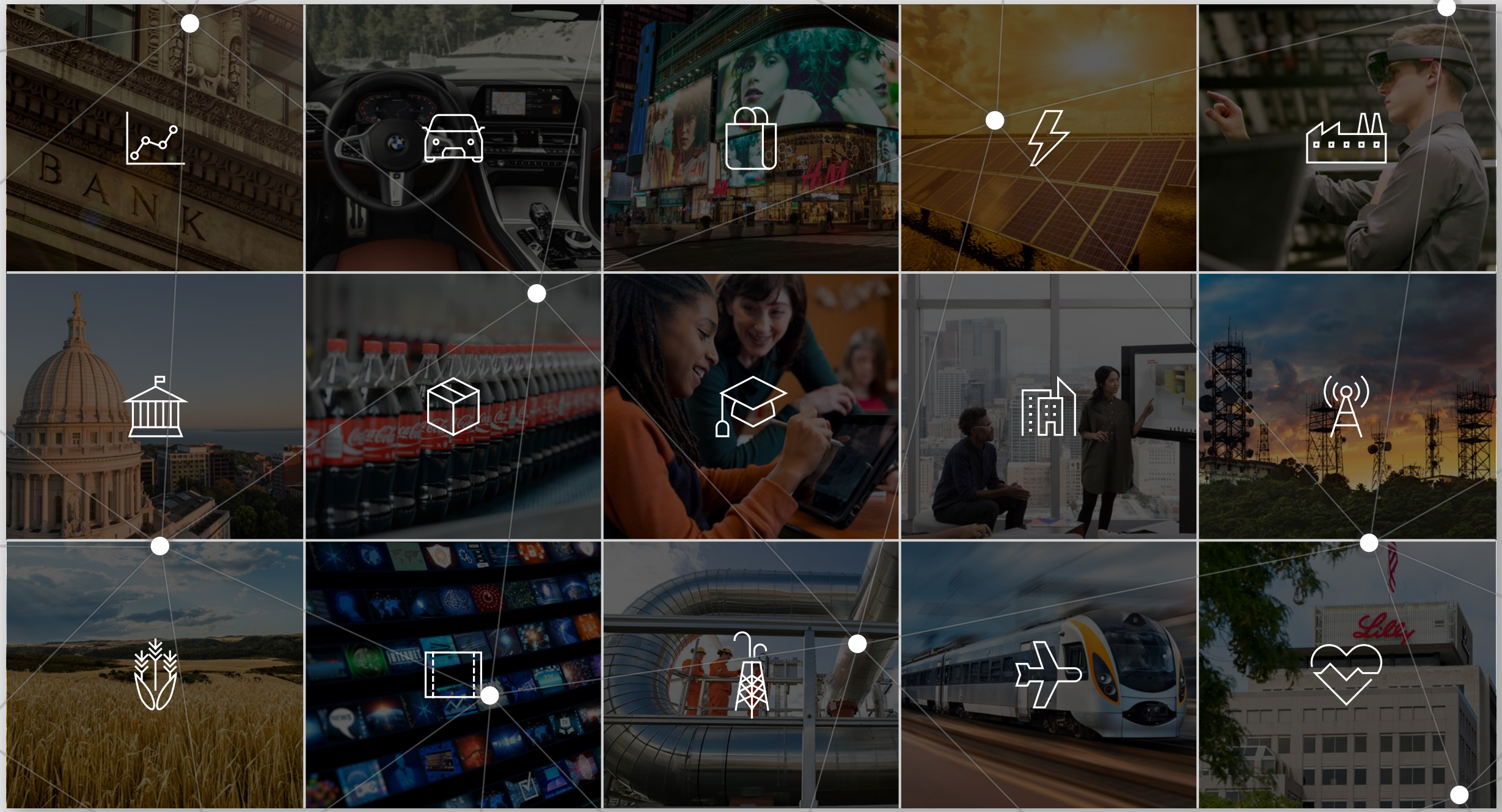
Executive Vice President and President
Products and Technologies
Red Hat

Paul Cormier leads Red Hat's technology and products organizations, including engineering, product management, and product marketing for Red Hat's technologies. He joined Red Hat in May 2001 as executive vice president, Engineering. Cormier's leadership and experience in enterprise technology has led to the introduction of Red Hat's acclaimed line of enterprise products, including Red Hat Enterprise Linux®. He has been instrumental in forging tight partnerships with many leading technology companies.

https://www.redhat.com/en/about/company/management/paul-cormier
https://www.redhat.com/en/about/press-releases/red-hat-and-microsoft-co-develop-first-red-hat-openshift-jointly-managed-service-public-cloud


68°
Intelligent Cloud
Intelligent Edge

Tech intensity

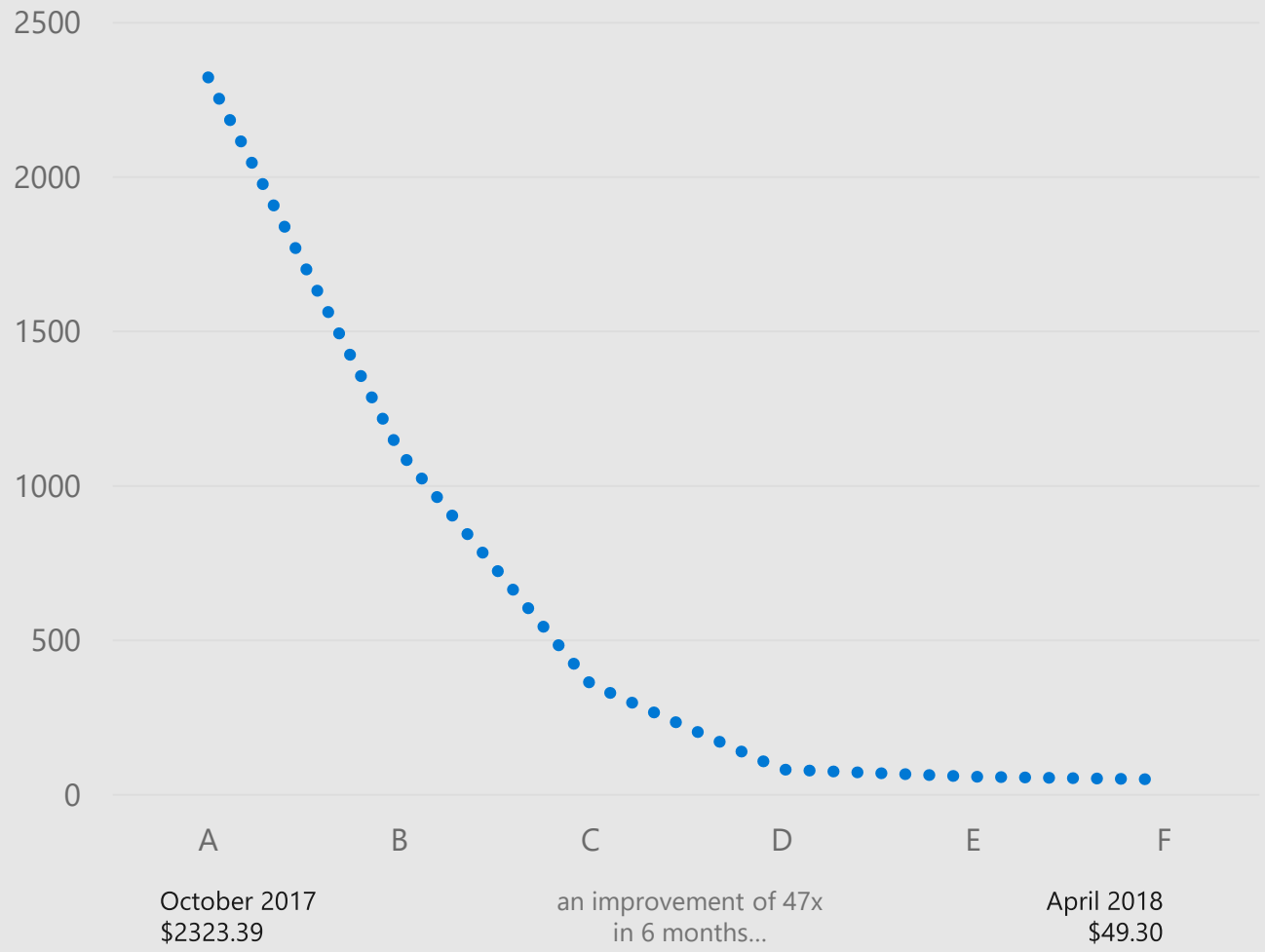

BANK
H&M
Coca-Cola
Lilly

Microsoft Airsim

Source: https://github.com/Microsoft/AirSim

AI training cost

Total cost of public cloud instances to train an image classification model to a top-5 validation accuracy of 93% or greater on ImageNet.



Source: Stanford DAWN Benchmark

Levels in autonomous vehicles.

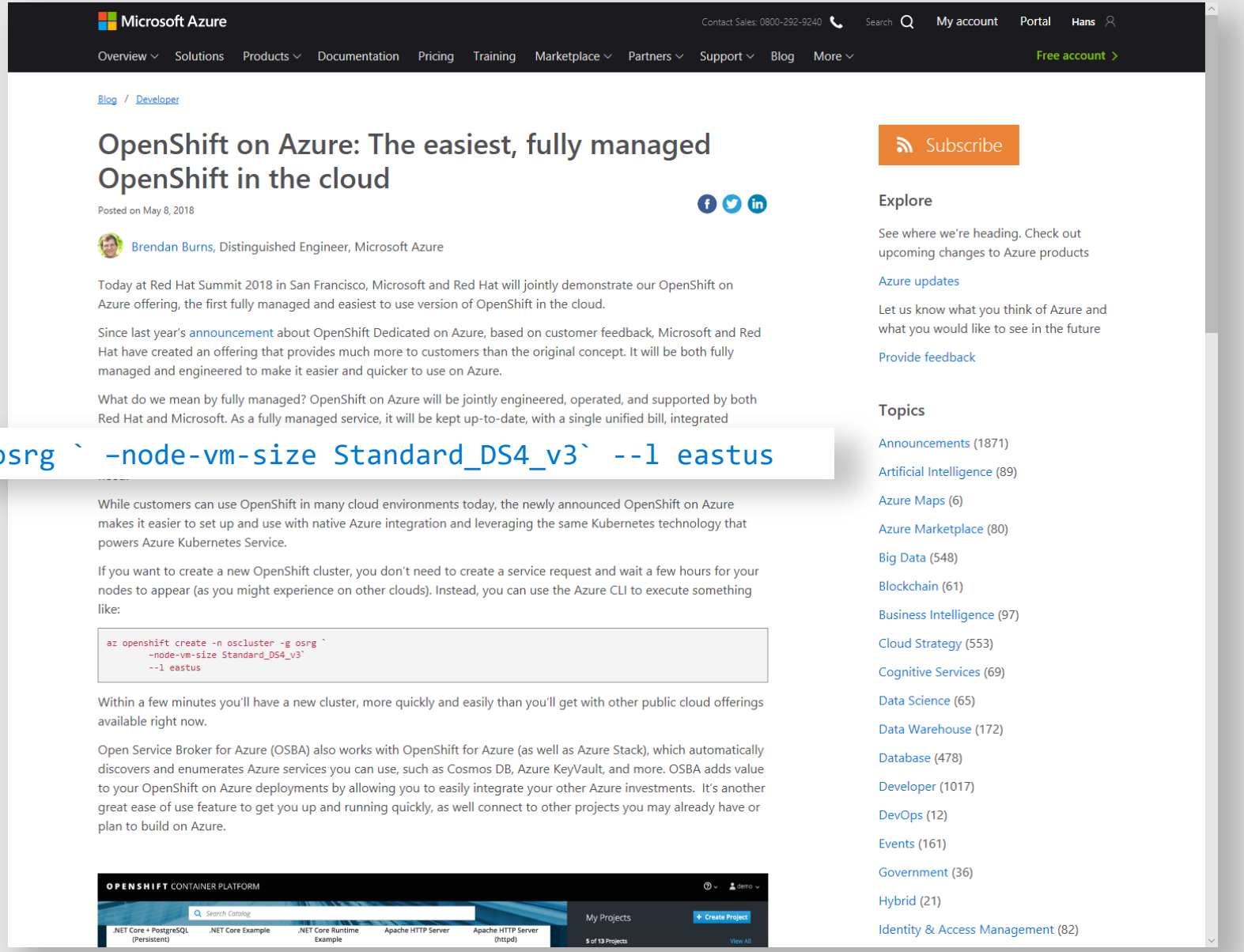
Automated driving system monitors the driving environment	Level 5: Full Automation	The full time performance by an automated driving system of all aspects of the dynamic driving task under all roadway and environmental conditions that can be managed by a human driver
	Level 4: High Automation	The driving mode-specific performance of an automated driving system of all aspects of the dynamic driving task, even if a human driver does not respond appropriately to a request to intervene.
	Level 3: Conditional Automation	The driving mode-specific performance by an automated driving system of all aspects of the dynamic driving task with the expectation that the human driver will respond appropriately to a request to intervene.
Human driver monitors the driving environment	Level 2: Partial Automation	The driving mode-specific execution by one or more driver assistance systems of both steering and acceleration/deceleration using information about the driving environment and with the expectation that the human driver perform all remaining aspects of the dynamic driving task.
	Level 1: Driver Assistance	The driving mode-specific execution by a driver assistance system of either steering or acceleration/deceleration using information about the driving environment and with the expectation that the human driver perform all remaining aspects of the dynamic driving task.
	Level 0: No Automation	The full time performance by an automated driving system of all aspects of the dynamic driving task under all roadway and environmental conditions that can be managed by a human driver

SAE International is a global association of more than 128,000 engineers and related technical experts in the aerospace, automotive and commercial-vehicle industries.
Source is available here: https://www.sae.org/standards/content/j3016_201401/

At Red Hat Summit 2018 in San Francisco, Microsoft and Red Hat jointly demonstrated our OpenShift on Azure offering, the first fully managed and easiest to use version of OpenShift in the cloud.

```
az openshift create -n oscluster -g osrg ` –node-vm-size Standard_DS4_v3` --l eastus
```

Within a few minutes you'll have a new cluster.



Microsoft Azure

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Blog / Developer

OpenShift on Azure: The easiest, fully managed OpenShift in the cloud

Posted on May 8, 2018

Brendan Burns, Distinguished Engineer, Microsoft Azure

Today at Red Hat Summit 2018 in San Francisco, Microsoft and Red Hat will jointly demonstrate our OpenShift on Azure offering, the first fully managed and easiest to use version of OpenShift in the cloud.

Since last year's announcement about OpenShift Dedicated on Azure, based on customer feedback, Microsoft and Red Hat have created an offering that provides much more to customers than the original concept. It will be both fully managed and engineered to make it easier and quicker to use on Azure.

What do we mean by fully managed? OpenShift on Azure will be jointly engineered, operated, and supported by both Red Hat and Microsoft. As a fully managed service, it will be kept up-to-date, with a single unified bill, integrated

While customers can use OpenShift in many cloud environments today, the newly announced OpenShift on Azure makes it easier to set up and use with native Azure integration and leveraging the same Kubernetes technology that powers Azure Kubernetes Service.

If you want to create a new OpenShift cluster, you don't need to create a service request and wait a few hours for your nodes to appear (as you might experience on other clouds). Instead, you can use the Azure CLI to execute something like:

```
az openshift create -n oscluster -g osrg `
       –node-vm-size Standard_DS4_v3`
       --l eastus
```

Within a few minutes you'll have a new cluster, more quickly and easily than you'll get with other public cloud offerings available right now.

Open Service Broker for Azure (OSBA) also works with OpenShift for Azure (as well as Azure Stack), which automatically discovers and enumerates Azure services you can use, such as Cosmos DB, Azure KeyVault, and more. OSBA adds value to your OpenShift on Azure deployments by allowing you to easily integrate your other Azure investments. It's another great ease of use feature to get you up and running quickly, as well connect to other projects you may already have or plan to build on Azure.

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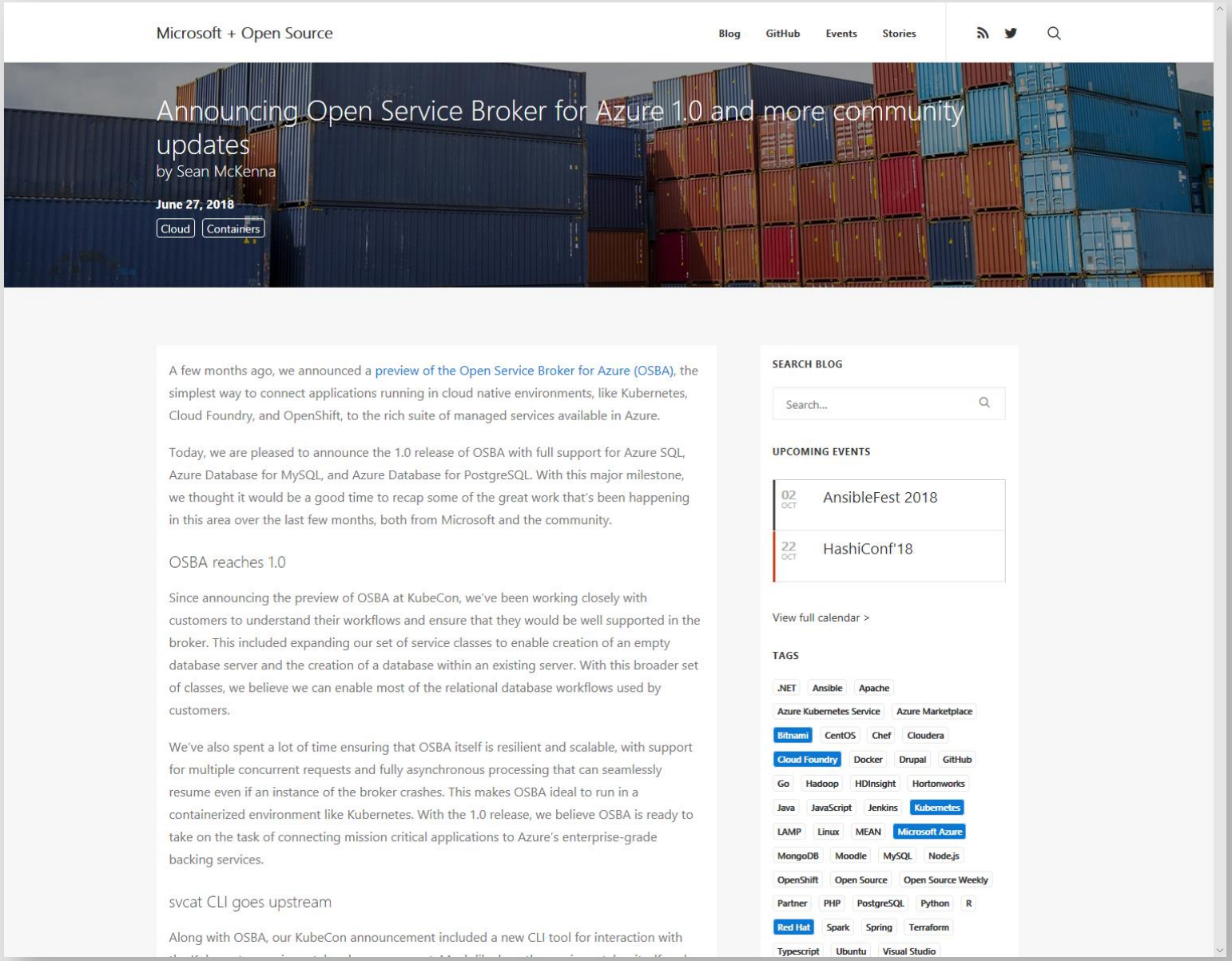
Source: https://azure.microsoft.com/en-us/blog/openshift-on-azure-the-easiest-fully-managed-openshift-in-the-cloud/

The 1.0 Release of the Open Service Broker for Azure (OSBA).

https://github.com/azure/open-service-broker-azure

Open Service Broker for Azure is the open source, Open Service Broker-compatible API server that automatically discovers and enumerates Azure services you can use, such as Cosmos DB, Azure KeyVault, and more. OSBA provisions managed services in the Microsoft Azure public cloud.

The simplest way to connect applications running in cloud native environments, like Kubernetes, Cloud Foundry, and OpenShift, to the rich suite of managed services available in Azure.



Source: https://open.microsoft.com/2018/06/27/announcing-open-service-broker-for-azure-1-0-kubernetes/

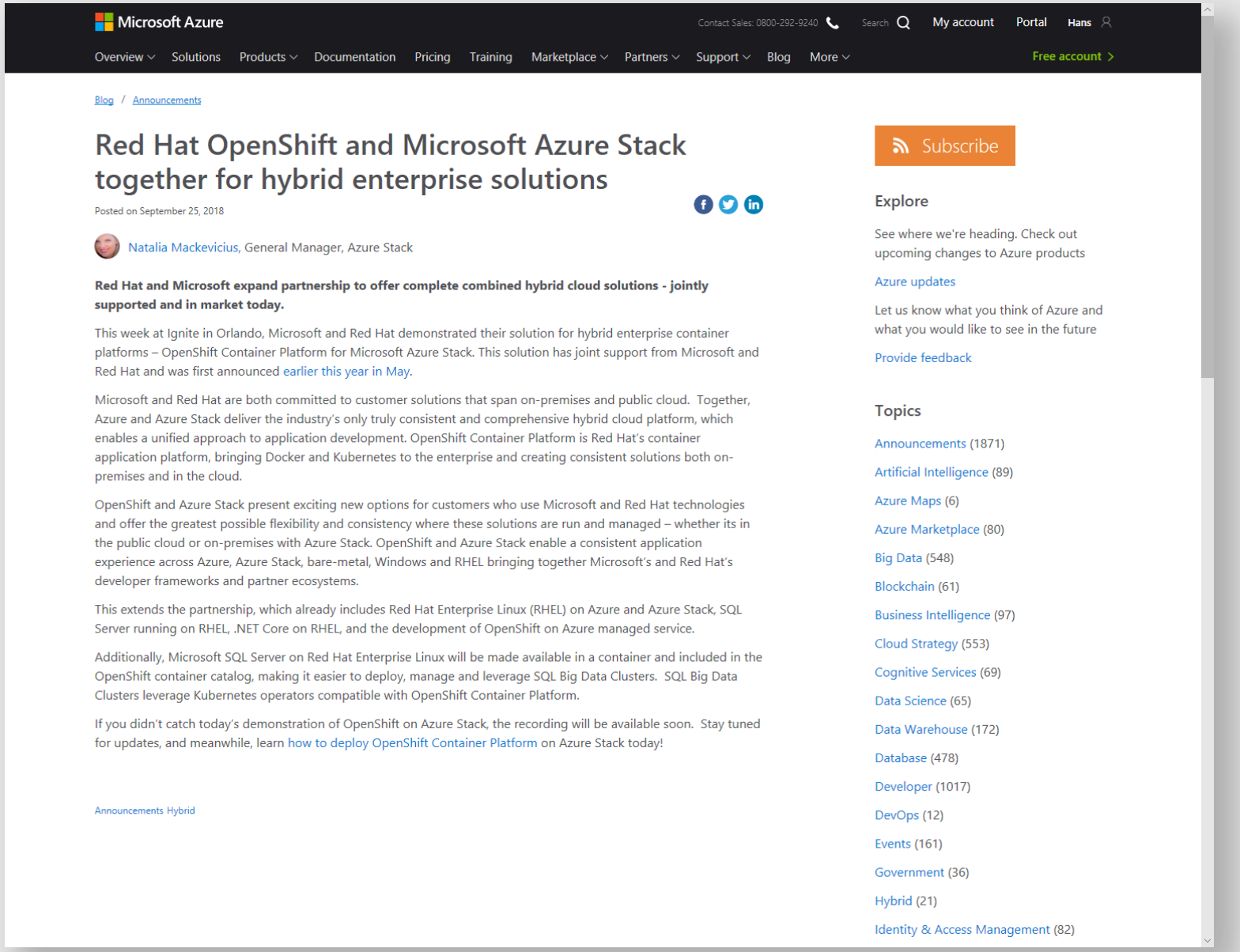
Learn how to deploy OpenShift Container Platform on Azure Stack:

aka.ms/OpenShift

Microsoft and Red Hat are both committed to customer solutions that span on-premises and public cloud.

Together, Azure and Azure Stack deliver the industry's only truly consistent and comprehensive hybrid cloud platform, which enables a unified approach to application development.

OpenShift Container Platform is Red Hat's container application platform, bringing Docker and Kubernetes to the enterprise and creating consistent solutions both on-premises and in the cloud.



Source: https://azure.microsoft.com/en-us/blog/red-hat-openshift-and-microsoft-azure-stack-together-for-hybrid-enterprise-solutions/

Red Hat Enterprise Linux in Azure

- Cost savings and operational efficiency gained form using consistent / standard OS platforms across your hybrid infrastructures.
- Integrated support for RHEL in the Azure Marketplace.
- Red Hat subscription flexibility / portability.

Red Hat OpenShift Container Platform in Azure

- Easily build, deploy, and manage modern container-based apps on OpenShift in Azure.
- Technology that enables digital transformation and application modernization.
- Consistent application platform for hybrid cloud infrastructures.

SQL Server on Red Hat Enterprise Linux

- Industry-leading, most secure data platform on a leading OS & a leading cloud platform.
- Optimize with a modern data platform.

Red Hat Enterprise Linux for SAP Solutions in Azure

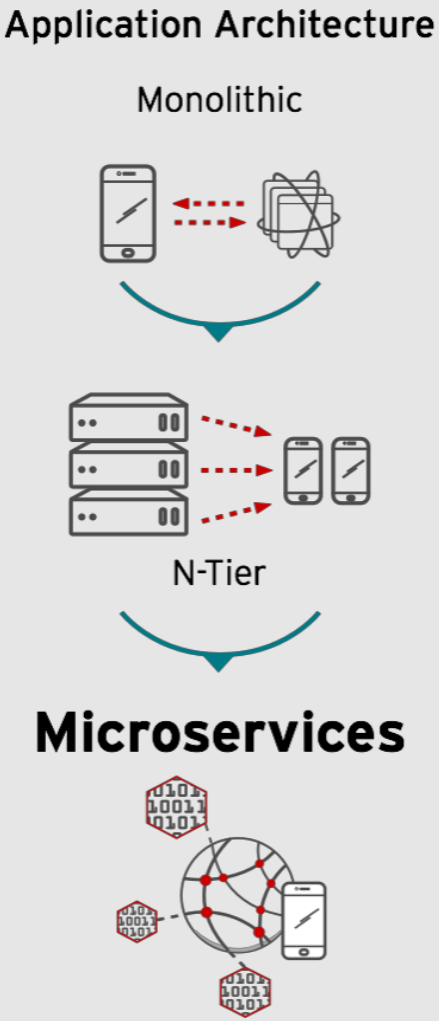
- Most powerful and scalable cloud for SAP HANA.
- Deep partnership between SAP, Microsoft & Red Hat.
- First-class hybrid support experience for Red Hat on Azure.
- Integrated management portal experience.

Hybrid Application Framework

Hybrid Cloud Storage

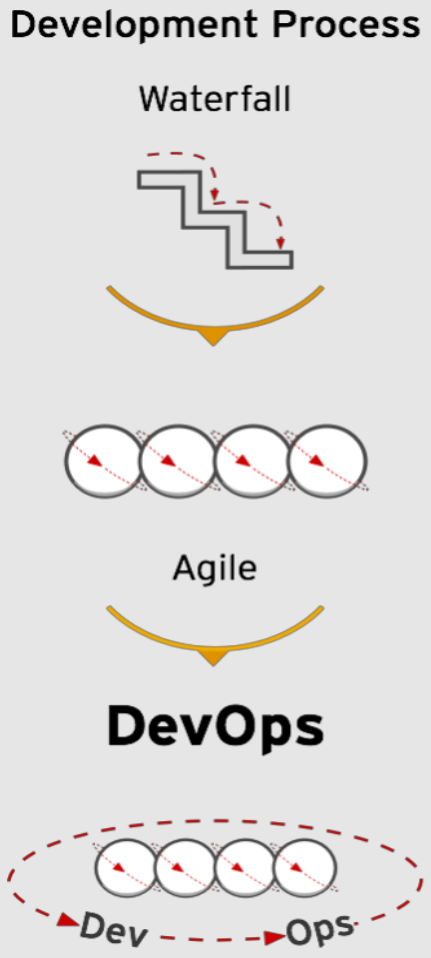
Hybrid Cloud Management

Applications



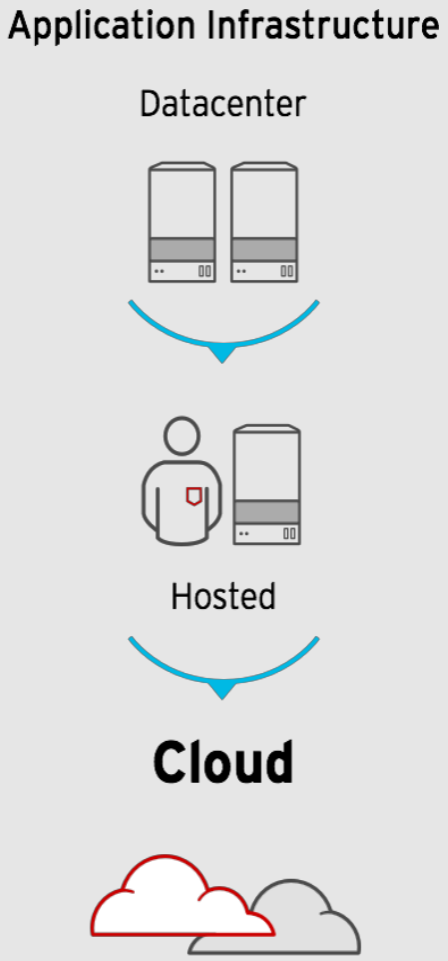
- Shift from monolithic applications to microservices
- Independently deployable and updatable, limited dependencies
- Optimized for agility & accelerated time to market
- Standardize and optimize with containers

Process



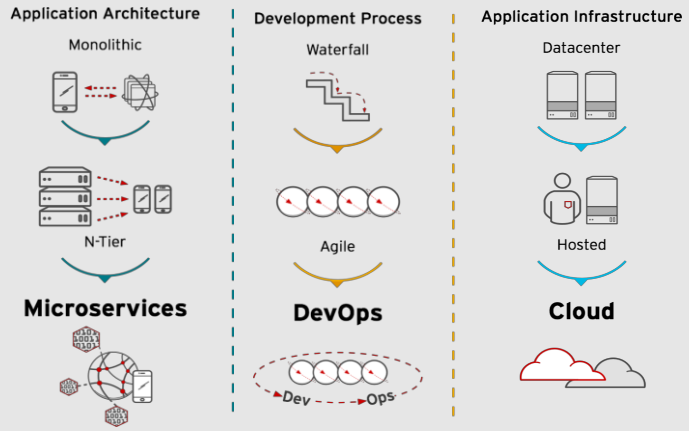
- Shift to more agile development and deployment processes
- Increased collaboration between Development & Operations
- Move from Continuous Integration to Continuous Deployment
- Optimized processes for hybrid cloud environments

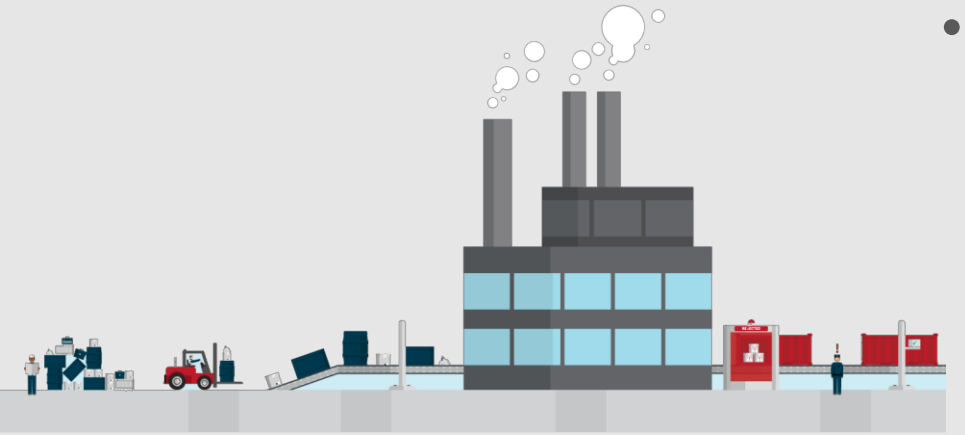
Infrastructure



- Shift from virtualization to scale-out hybrid cloud infrastructures
- Enable enterprise adoption of public cloud
- Hybrid cloud deployments span private & public clouds
- Choice and flexibility for enterprise workloads

OpenShift and Containers can help





- Enable faster and more consistent deployments from Dev to Prod
- Support Agile development processes and modern application architectures
- Bridge Dev and Ops
- Provide consistency across hybrid infrastructures
- Accelerate innovation and service delivery

Azure.com/redhat