

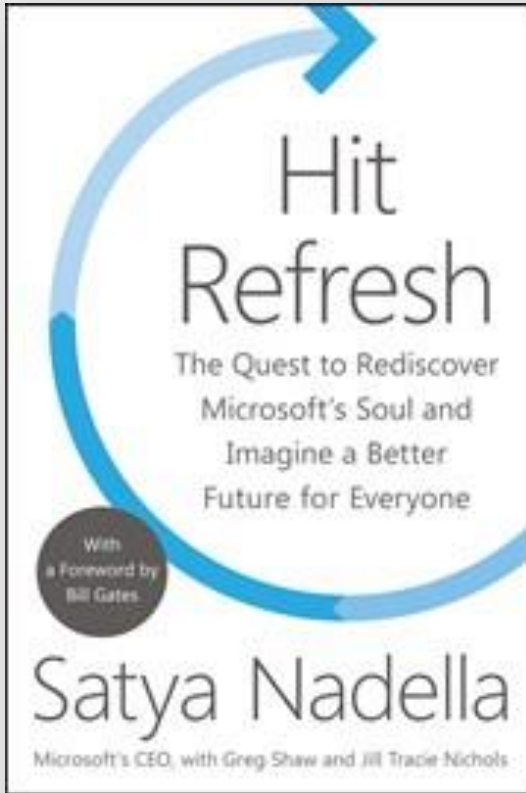


Red Hat and Microsoft Empowering Customers

Hans Bos

National Technology Officer
@hansbos
hans.bos@microsoft.com





“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



“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

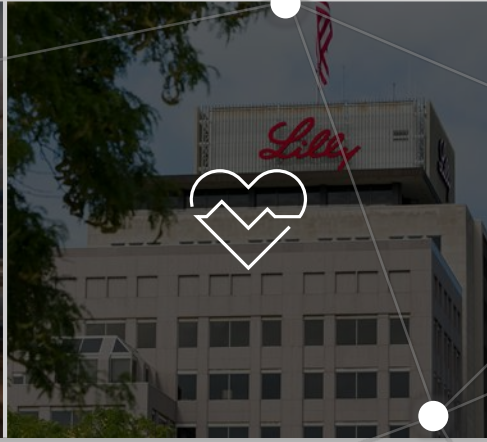
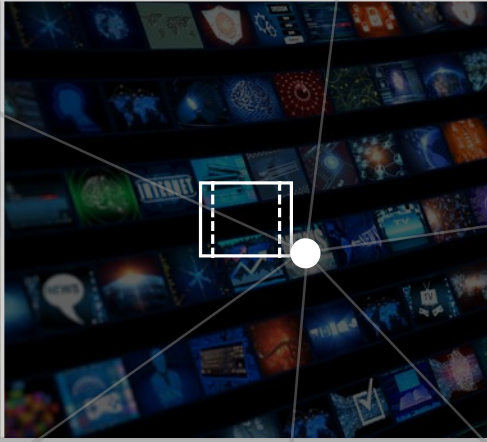
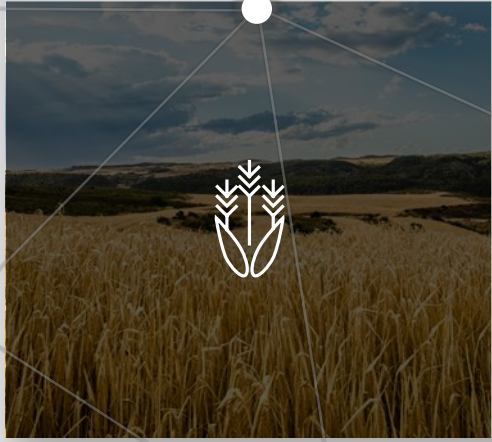
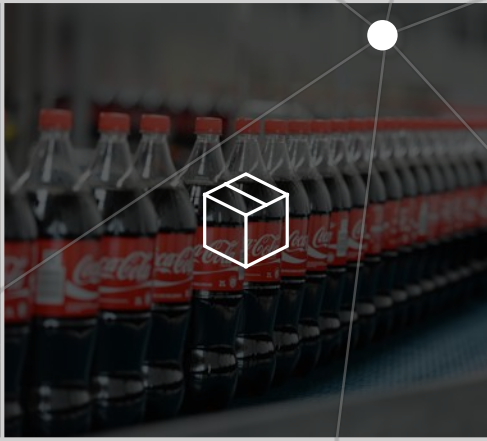
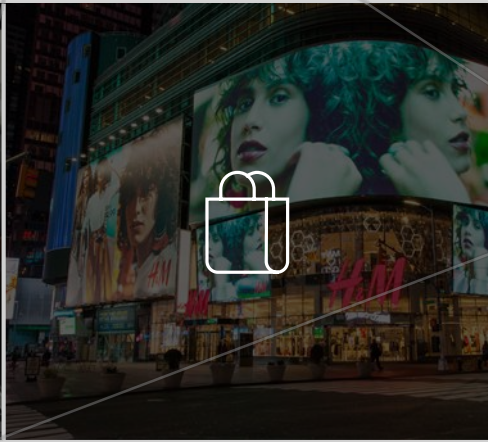
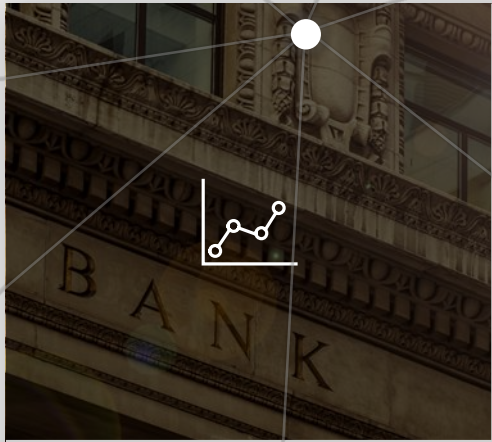
Paul Cormier leads Red Hat's technology and products organizations, including engineering, product management, and product marketing for Red Hat's technologies. He joined Red Hat in May 2001 as executive vice president, Engineering. Cormier's leadership and experience in enterprise technology has led 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>



Tech intensity



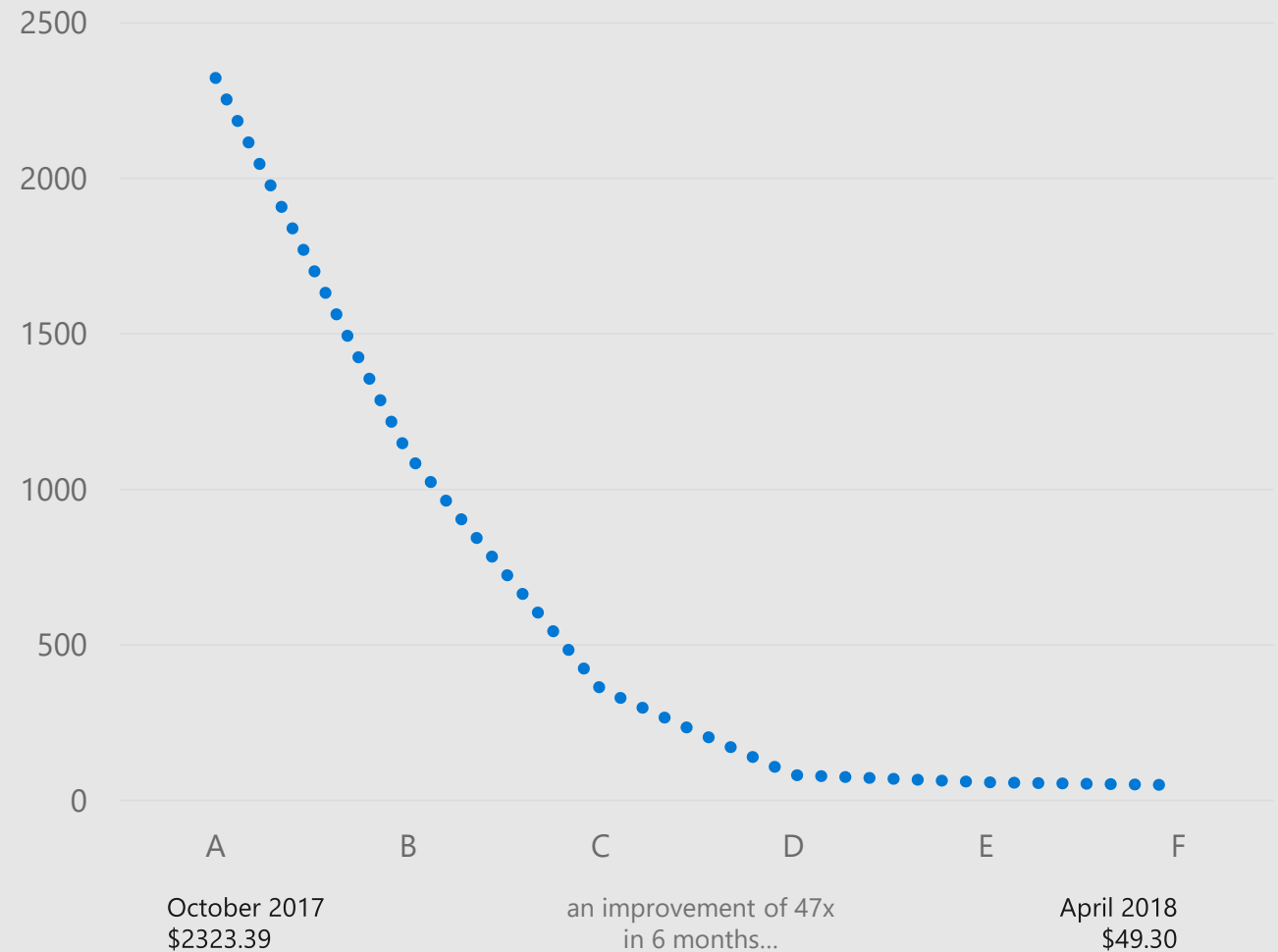


Microsoft Airsim



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.



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

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.

The screenshot shows a Microsoft Azure blog post. The header includes the Microsoft Azure logo, contact information, and navigation links. The main content features the article title, author information (Brendan Burns), and several paragraphs of text. A code block contains the command: `az openshift create -n oscluster -g osrg ` -node-vm-size Standard_DS4_v3` --l eastus`. Below the code, there is a section titled 'OPENSIFT CONTAINER PLATFORM' with a search bar and a list of project examples.

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.

OPENSIFT CONTAINER PLATFORM

Search Catalog

My Projects 5 of 13 Projects

+. Create Project

View All

My Projects

View All

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Azure updates

Let us know what you think of Azure and what you would like to see in the future

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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.

Microsoft + Open Source

Blog GitHub Events Stories

Announcing Open Service Broker for Azure 1.0 and more community updates
by Sean McKenna
June 27, 2018
Cloud Containers

A few months ago, we announced a [preview of the Open Service Broker for Azure \(OSBA\)](#), 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.

Today, we are pleased to announce the 1.0 release of OSBA with full support for Azure SQL, Azure Database for MySQL, and Azure Database for PostgreSQL. With this major milestone, we thought it would be a good time to recap some of the great work that's been happening in this area over the last few months, both from Microsoft and the community.

OSBA reaches 1.0

Since announcing the preview of OSBA at KubeCon, we've been working closely with customers to understand their workflows and ensure that they would be well supported in the broker. This included expanding our set of service classes to enable creation of an empty database server and the creation of a database within an existing server. With this broader set of classes, we believe we can enable most of the relational database workflows used by customers.

We've also spent a lot of time ensuring that OSBA itself is resilient and scalable, with support for multiple concurrent requests and fully asynchronous processing that can seamlessly resume even if an instance of the broker crashes. This makes OSBA ideal to run in a containerized environment like Kubernetes. With the 1.0 release, we believe OSBA is ready to take on the task of connecting mission critical applications to Azure's enterprise-grade backing services.

svcat CLI goes upstream

Along with OSBA, our KubeCon announcement included a new CLI tool for interaction with

SEARCH BLOG

SEARCH...

UPCOMING EVENTS

- 02 OCT AnsibleFest 2018
- 22 OCT HashiConf '18

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- Cloud Foundry Docker Drupal GitHub
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- LAMP Linux MEAN Microsoft Azure
- MongoDB Moodle MySQL Nodejs
- OpenShift Open Source Open Source Weekly
- Partner PHP PostgreSQL Python R
- Red Hat Spark Spring Terraform
- Typescript Ubuntu Visual Studio

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.

The screenshot shows a Microsoft Azure blog post. The header includes the Microsoft Azure logo, contact information (0800-292-9240), a search bar, and user account information (My account, Portal, Hans). The main navigation bar lists various categories like Overview, Solutions, Products, Documentation, Pricing, Training, Marketplace, Partners, Support, Blog, and More. The article title is "Red Hat OpenShift and Microsoft Azure Stack together for hybrid enterprise solutions", posted on September 25, 2018, by Natalia Mackevicius, General Manager, Azure Stack. The article text discusses the partnership between Microsoft and Red Hat to offer a complete hybrid cloud solution. It mentions that this solution was first announced in May and provides a unified approach to application development. The article also notes that this extends the partnership, which already includes Red Hat Enterprise Linux (RHEL) on Azure and Azure Stack, SQL Server running on RHEL, .NET Core on RHEL, and the development of OpenShift on Azure managed service. Additionally, Microsoft SQL Server on Red Hat Enterprise Linux will be made available in a container and included in the OpenShift container catalog. The article concludes by mentioning that the recording of the demonstration will be available soon and provides a link to learn how to deploy OpenShift Container Platform on Azure Stack today. On the right side of the page, there is a "Subscribe" button and a "Topics" section listing various categories with their respective counts.

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Blog / Announcements

Red Hat OpenShift and Microsoft Azure Stack together for hybrid enterprise solutions

Posted on September 25, 2018

Natalia Mackevicius, General Manager, Azure Stack

Red Hat and Microsoft expand partnership to offer complete combined hybrid cloud solutions - jointly supported and in market today.

This week at Ignite in Orlando, Microsoft and Red Hat demonstrated their solution for hybrid enterprise container platforms – OpenShift Container Platform for Microsoft Azure Stack. This solution has joint support from Microsoft and Red Hat and was first announced [earlier this year in May](#).

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.

OpenShift and Azure Stack present exciting new options for customers who use Microsoft and Red Hat technologies and offer the greatest possible flexibility and consistency where these solutions are run and managed – whether its in the public cloud or on-premises with Azure Stack. OpenShift and Azure Stack enable a consistent application experience across Azure, Azure Stack, bare-metal, Windows and RHEL bringing together Microsoft's and Red Hat's developer frameworks and partner ecosystems.

This extends the partnership, which already includes Red Hat Enterprise Linux (RHEL) on Azure and Azure Stack, SQL Server running on RHEL, .NET Core on RHEL, and the development of OpenShift on Azure managed service.

Additionally, Microsoft SQL Server on Red Hat Enterprise Linux will be made available in a container and included in the OpenShift container catalog, making it easier to deploy, manage and leverage SQL Big Data Clusters. SQL Big Data Clusters leverage Kubernetes operators compatible with OpenShift Container Platform.

If you didn't catch today's demonstration of OpenShift on Azure Stack, the recording will be available soon. Stay tuned for updates, and meanwhile, learn [how to deploy OpenShift Container Platform](#) on Azure Stack today!

Announcements Hybrid

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Red Hat Enterprise Linux in Azure

- Cost savings and operational efficiency gained from 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

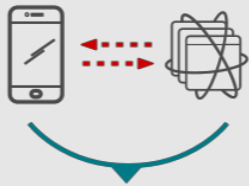
Hybrid Cloud Storage

Hybrid Cloud Management

Applications

Application Architecture

Monolithic



N-Tier

Microservices

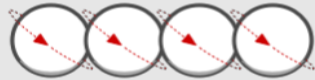


- Shift from monolithic applications to microservices
- Independently deployable and updatable, limited dependencies
- Optimized for agility & accelerated time to market
- Standardize and optimize with containers

Process

Development Process

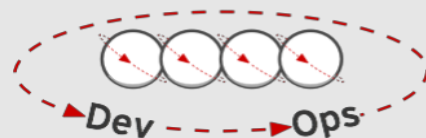
Waterfall



Agile



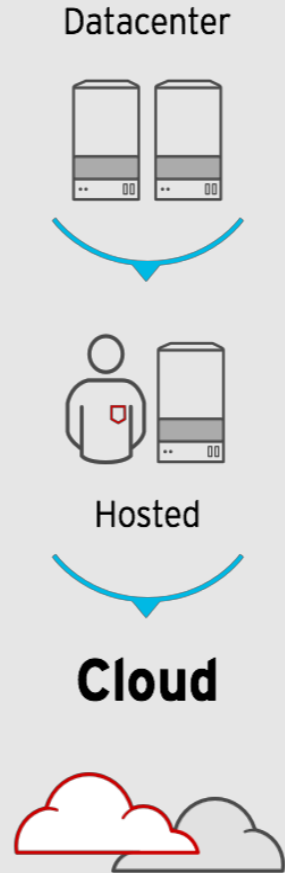
DevOps



- 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

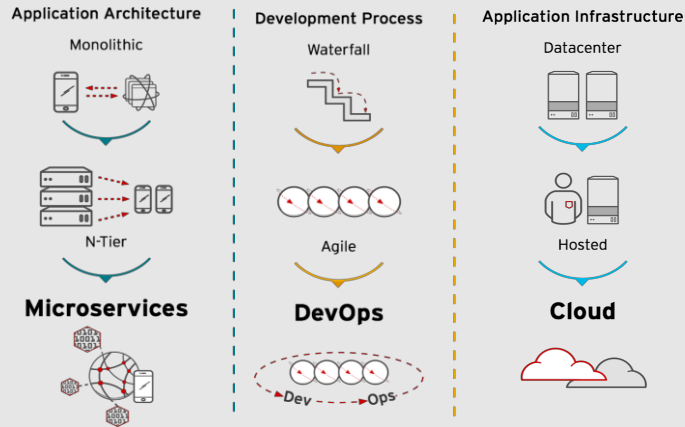
Infrastructure

Application Infrastructure

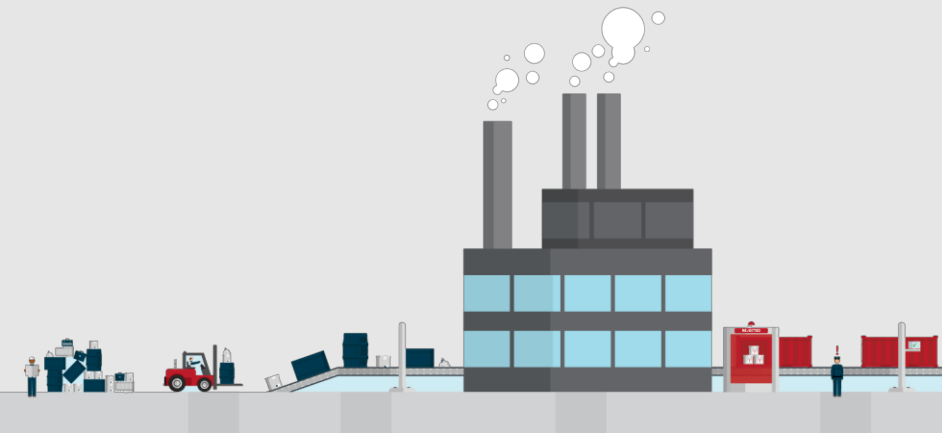


- Shift from virtualization to scale-out hybrid cloud infrastructures
- Enable enterprise adoption of public cloud
- Hybrid cloud deployments span private & public clouds
- Choice and flexibility for enterprise workloads

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

The screenshot shows the Microsoft Azure website's landing page for Red Hat solutions. The page features a dark blue header with the Microsoft Azure logo and navigation links. The main content area is dark blue with a large white heading and a green 'Start gratis' button. A large image of the Red Hat logo is positioned to the right of the text. Below the main content, there is a white section displaying logos of various partners and integrators. At the bottom, a dark blue footer contains a call to action and a small video thumbnail.

Microsoft Azure Neem contact op met Verkoop: 0800-292-9240 Search Mijn account Portal Hans

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Red Hat-oplossingen op Azure

Versnel uw innovaties en digitale transformatie

Met Red Hat-oplossingen op Azure implementeert u snel een veilige, betrouwbare en flexibele hybride cloudomgeving; de juiste opensource-architectuur in de cloud en vertrouwd door 90 procent van de Fortune 500-bedrijven.

[Start gratis >](#)



SCSK **pacifico seguros** **Savoir-faire LINUX** **T...Systems...** **ERTU** **LINKBYNET**

THROWBACK **FUJITSU**

Meer opties voor hybride, systeemeigen cloudtoepassingen

The Azure webinar series