



# Modernisez vos applications avec Openshift dans Azure

Pascal Saulière, Cloud Solution Architect  
Gabriel Bechara, Azure Presales Engineer

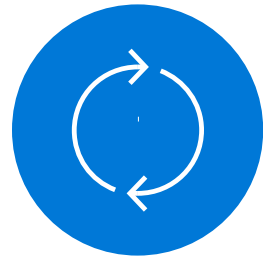


# OUR APPROACH TO OPEN SOURCE IN THE CLOUD



## ENABLE

An **open and flexible platform** that meets you where you are and adds value to your existing investments.



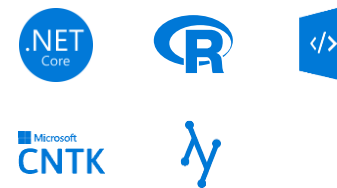
## INTEGRATE

Embrace leading ecosystems, increase agility and provide consistent **open source offerings**.



## RELEASE

Support a **strong ecosystem** to achieve more through Microsoft's own portfolio investments.



## CONTRIBUTE

**Extend the community**, reach out to more people, and partner for first-class experiences.



## OPEN SOURCE ECOSYSTEM





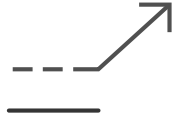
Microsoft



redhat®

Stronger Together

# Microsoft + Red Hat: Stronger together



Wide **availability** of Red Hat solutions whether PAYG or BYOS, across all Azure regions.

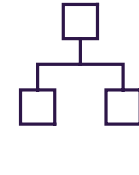
Microsoft Azure participation in Red Hat Certified Cloud & Service Provider Program (CCSP)



Developers can easily create and **deploy** apps with a .NET front-end on Windows and a MySQL database on Red Hat Enterprise Linux through Red Hat OpenShift Container Platform.



Secure, **manageable** and well-supported Red Hat solutions in the Microsoft cloud, including Red Hat Enterprise Linux, Red Hat OpenShift Container Platform, SQL, Red Hat Ansible Automation and Red Hat JBoss Middleware.



**Integrated** enterprise-grade support spanning hybrid cloud, including co-located support resources.

Demo

Azure Portal and Red Hat Solutions

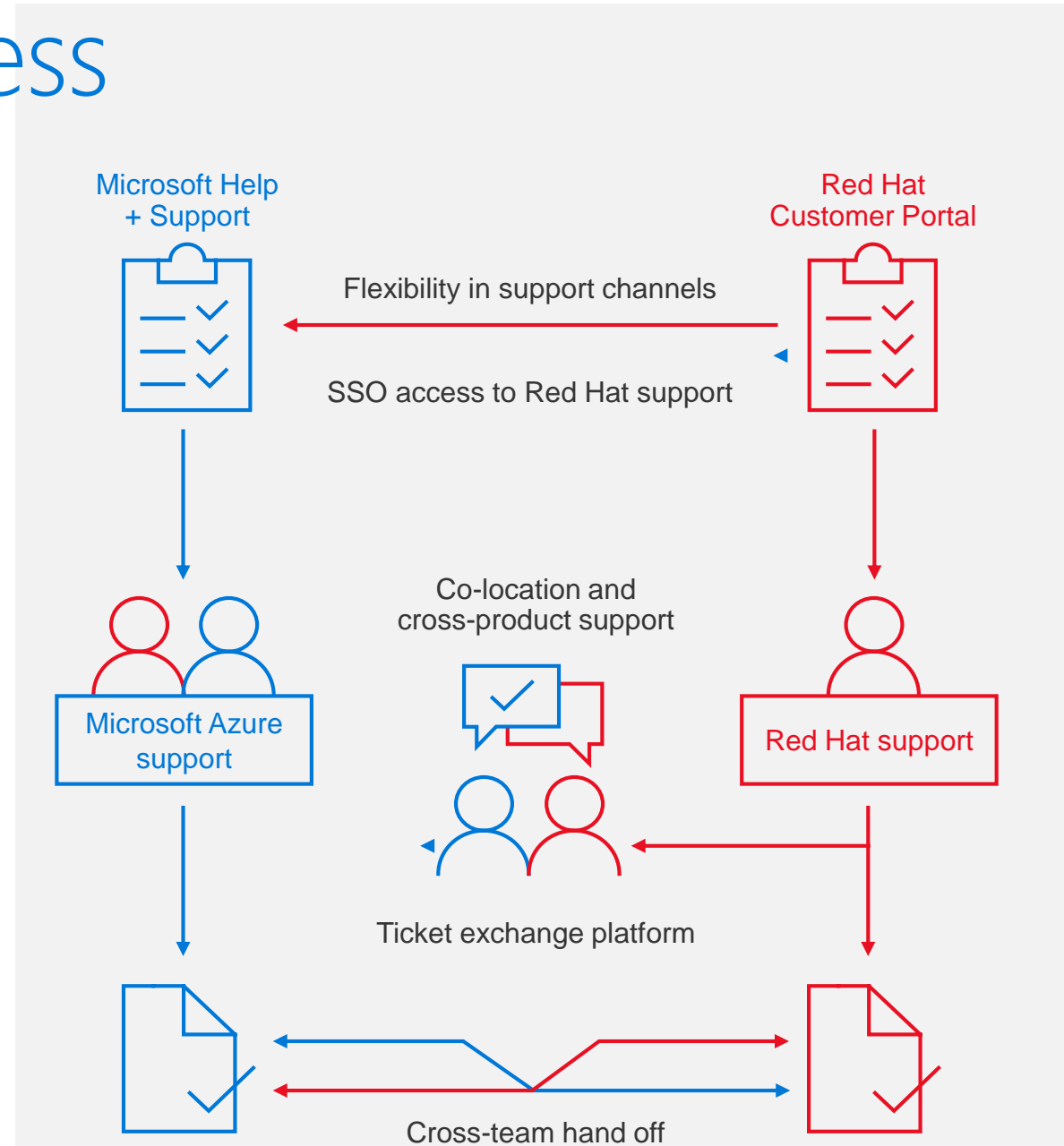
# Integrated support process

**In-portal** customer experience for PAYG deployments

**Co-located support** with Red Hat on-site team

**ISO 27001** compliant B2B communication channel

Integrated support is available 24x7 for **Cloud Access (BYOS)** as well as **On-Demand (PAYG)** deployments



# OpenShift Container Platform on Azure

Fully supported and certified by Red Hat

[https://access.redhat.com/documentation/en-us/reference\\_architectures/2018/html-single/deploying\\_and\\_managing](https://access.redhat.com/documentation/en-us/reference_architectures/2018/html-single/deploying_and_managing)

<https://aka.ms/azsopenshiftcp>

## How does this work technically? (ref arch)

- Customer uses ARM templates to deploy Azure compute, network, storage
- Recommended deployment is 1x bastion, 3x master, 3x infra, 3x app nodes
- The ARM template kicks off the standard openshift-ansible playbooks from the Bastion, and then it's a normal OpenShift Cluster

# OpenShift Container Platform Integration points



**Azure Load Balancer**  
Ingress Traffic



**Azure Active Directory**  
User Authentication



**RED HAT®**  
**OPENSHIFT**  
Container Platform



**Azure Virtual Machines**  
(10x in the Reference Architecture)



**Azure Storage Account**  
VM storage, registry and persistent Container Storage

**Registry storage**  
No native provider (use VHDs)



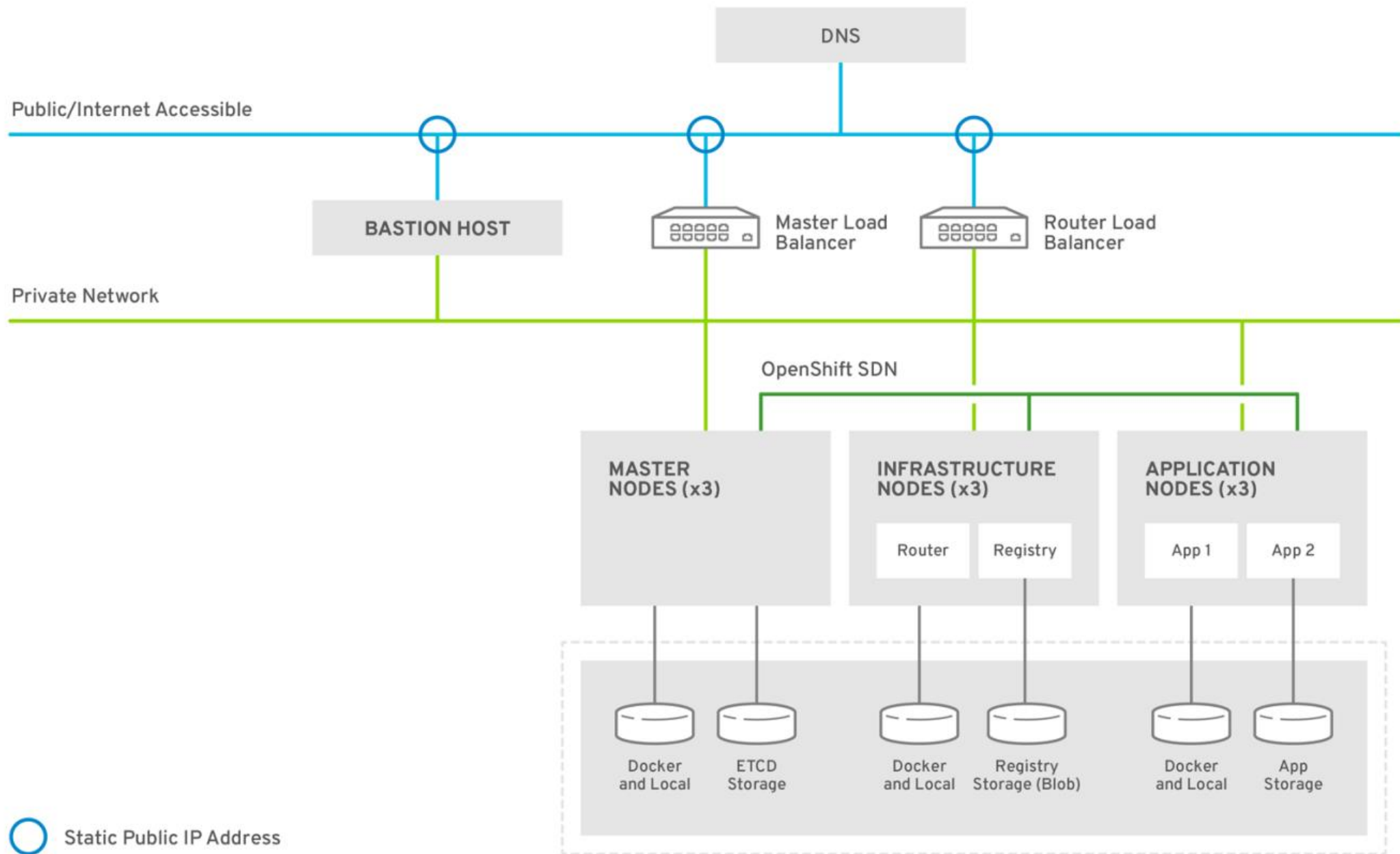
**Azure DNS**  
External DNS



**Azure Logging,  
Metrics, etc**

**Ext Services**  
Service Broker





○ Static Public IP Address

# Demo

## OpenShift deployment on Azure

# Extending OpenShift Apps using Cloud Services



Demo

Deploy an application using Azures Services

# Latest Announcement @Red Hat Summit

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 engine that powers Azure Kubernetes Service, making it easier to scale clusters.

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.

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

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## Azure regions



○ Available region  
○ Announced region

**2 Mil**  
intra-datacenter fiber

**72+**  
Tb per second

**100+**  
datacenters

**2 Mil**  
of x86 servers

Thank you

Questions ?