

# Red Hat OpenShift on Azure

OpenShift is Red Hat's container application platform that allows developers to quickly develop, build, deploy, and manage containerized services and applications in a cloud environment.

## About OpenShift

Built with proven open source technologies from established communities. Red Hat OpenShift is built around a core of application containers powered by Docker, with orchestration and management provided by Kubernetes, on a foundation of Red Hat Enterprise Linux.

<b>Application portability</b>	Docker provides the abstraction for packaging and creating Linux-based, lightweight containers. Any application created on OpenShift can easily run anywhere that supports Docker.
<b>Orchestration and management</b>	Kubernetes provides the cluster management and orchestrates Docker containers on multiple hosts.
<b>Automation</b>	OpenShift automates source code management, application builds, deployments, scaling, health management and more.
<b>Collaboration</b>	OpenShift adds team and user tracking for large developer organizations. Developers can easily add or remove team members to a project.

## Managed OpenShift on Azure

### Operations and SLA

- With an Adfinis SyGroup managed OpenShift platform, you don't need to care about your workloads so you can focus on the development of your apps.
- Your OpenShift is dedicated and will only contain your users, applications, and services and is not shared with anyone else.
- We take care of the lifecycle management and coordinate platform upgrades closely with you
- Our operations team will manage infrastructure, configuration, maintenance and security around the clock (24/7).

### Master/Infrastructure Nodes Cloud Management

- Optionally CloudForms can be used for cloud management (ChargeBack, Federation, Dashboards, Self Service)
- Extend your corporate network into the cloud, connect to local services in your datacenter, or use an existing user authentication system.

### Application Nodes Sizing and Scalling

- OpenShift platforms starting from 3 nodes in one region to many nodes in multiple regions.
- By using Ansible configuration management, environments can also be redeployed in new regions or even on Azure Stack (based on availability)
- Host in all regions supported by Azure, also multiple regions are possible
- We can deploy the openshift cluster on your Azure subscription or provide one for you.

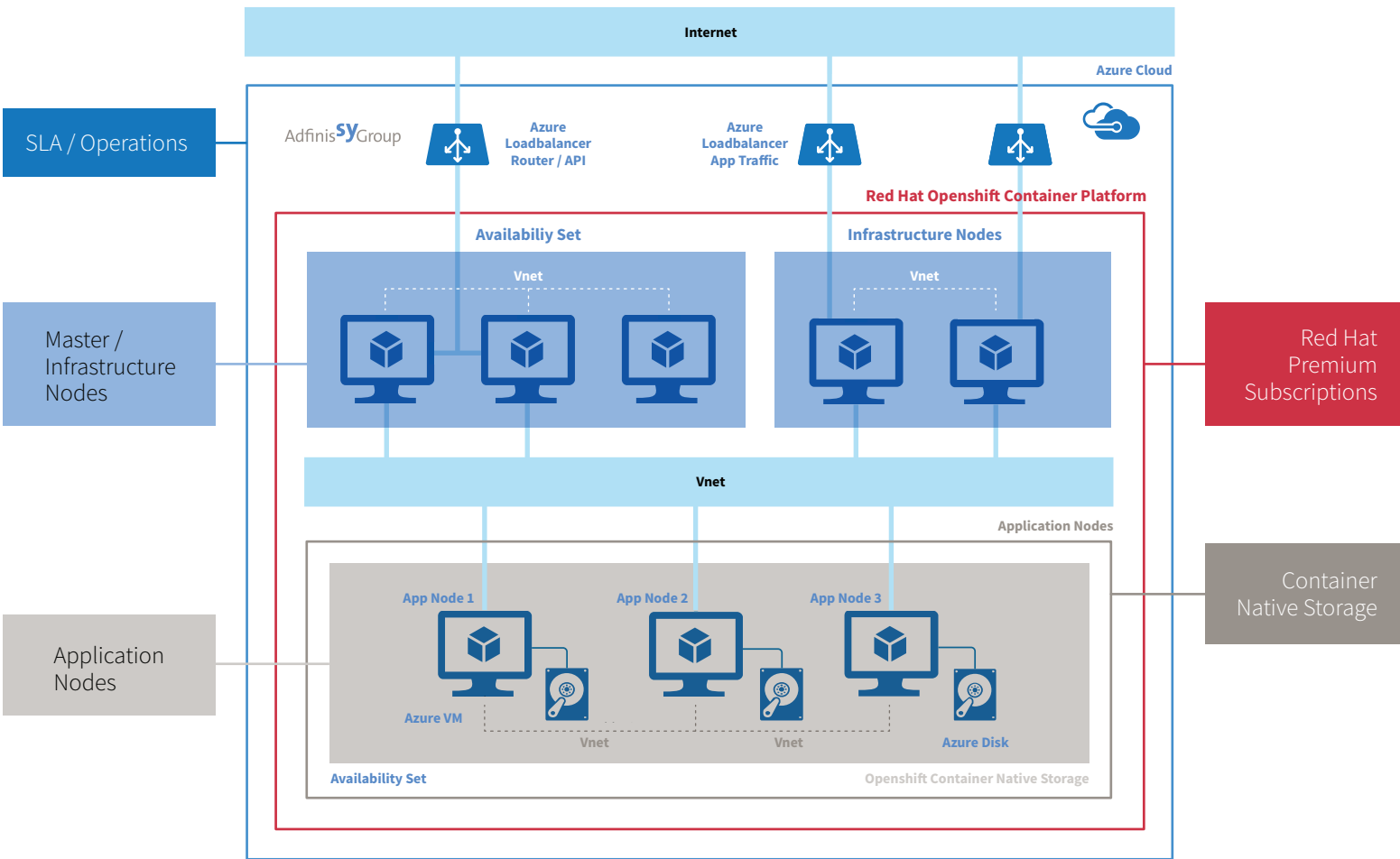
### Container Native Storage Storage

- By using Container Native Storage (or Container Ready Storage) with Red Hat Gluster Storage, we achieve the best persistent storage integration possible.

## Example: OpenShift HA Cluster (single region)

Managed OpenShift on Azure by Adfinis SyGroup provides your organization with an entire OpenShift cluster setup based on your requirements, if needed also securely connected to your internal network.

Additional application nodes, persistent storage, and network I/O can be added to expand the resources available in your cluster at any time.



OpenShift HA Cluster (single region), up to 500 containers

## Additional Solutions/Services

### OSS Database

- PostgreSQL or PostgresPURE
- MariaDB
- MongoDB

### Support for

- Build pipelines
- CI/CD
- MicroService Architectures
- Other linux based services

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