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Nutanix

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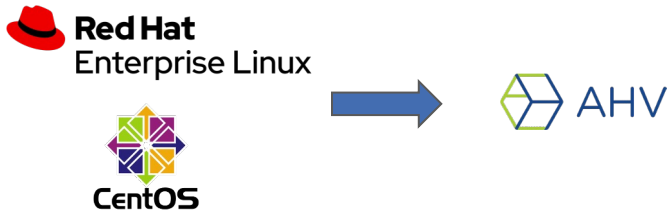
# Red Hat & Nutanix In Action

## AHV Expansion for RHEL




Grow your consumption.
The RHEL sub for Data Centers allows customers to run unlimited RHEL on supported hypervisors, which now that Nutanix is supported, our customers can benefit from.

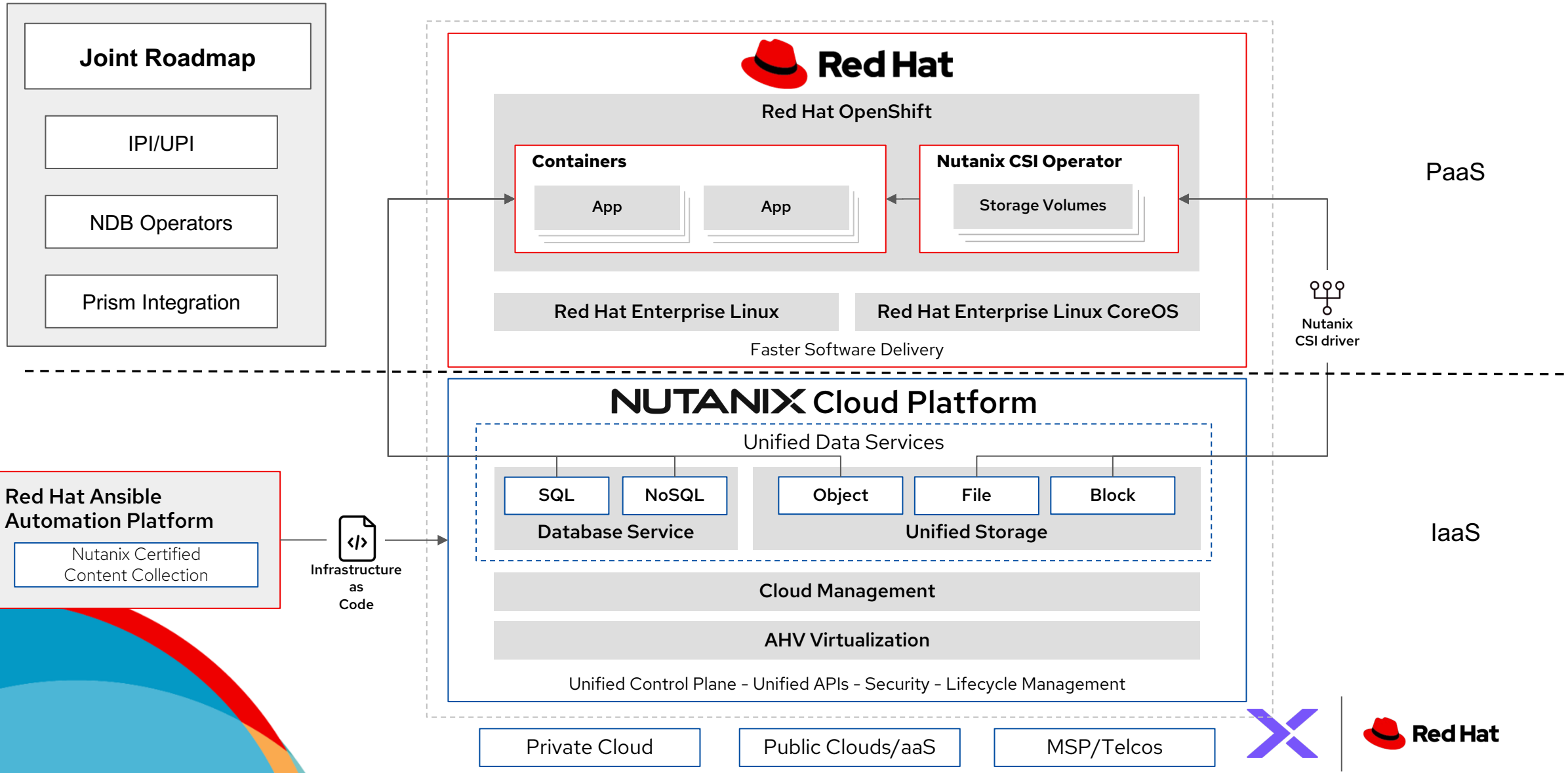
## Data Services on OCP

Nutanix has implemented a CSI Driver seamlessly connecting to Red Hat OpenShift providing Container Ready Persistent Storage for Cloud Native Workloads on flexible, elastic infrastructure.

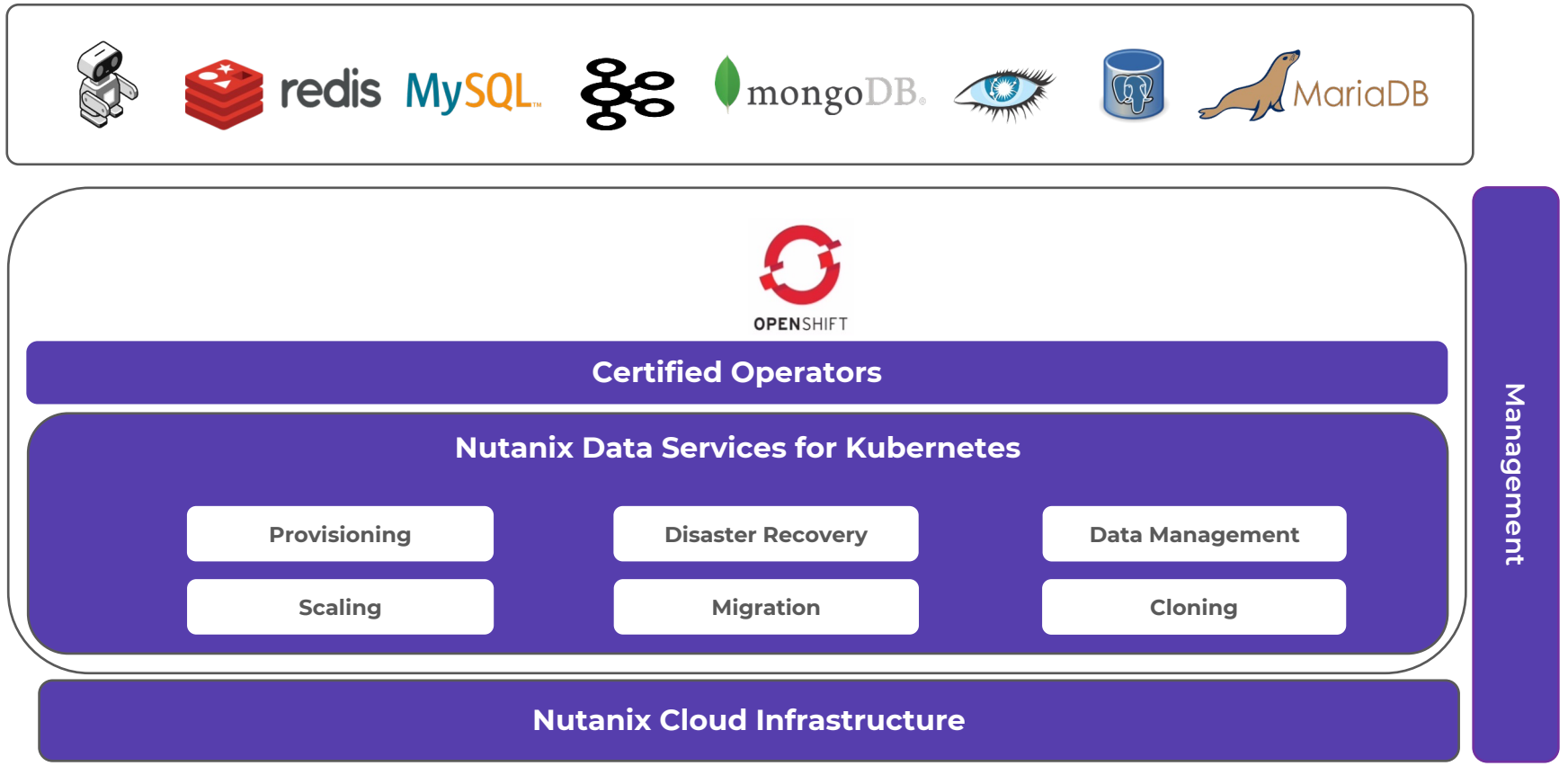
## DBaaS - NDB & OCP

Nutanix's ERA DBaaS offering alongside OCP on Nutanix, customers can run production database workloads and their associated containers safely and securely with low operational overhead. A new era for databases.

# Red Hat & Nutanix Architecture



# Best Platform for K8s Based Apps

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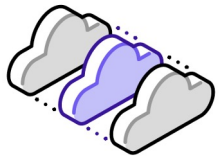
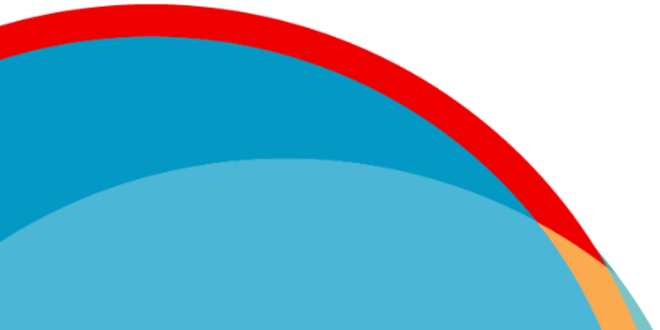
# Top reasons why use Kubernetes

**Easy to deploy, run and scale**



**Interoperability with any cloud**

**Compliant and certified operators**



# Gaps in existing Kubernetes solutions

- Lack of support for persistent data services for stateful applications
- Lack of app-centric data management for the entire application lifecycle
- Lack of tools and services for two key personas IT admins and DevOps

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# Containerized apps highlight 2 personas

**IT Administrator**

Monitoring and Metrics

Policy Enforcement

**Increased Infrastructure Complexity**

**DevOps Engineer**

Self-service tools

Support for complex stateful applications

**Increased Time to Market**

**Decreased Revenue**

# Nutanix Data Services for Kubernetes

## Simplified Kubernetes Framework for Containerized Applications

Protect Applications and Data

Accelerate application delivery

Invisible infrastructure management

Self-service application specific requirements

Automated infrastructure with monitoring for optimal operations

Standardize governance & compliance policies

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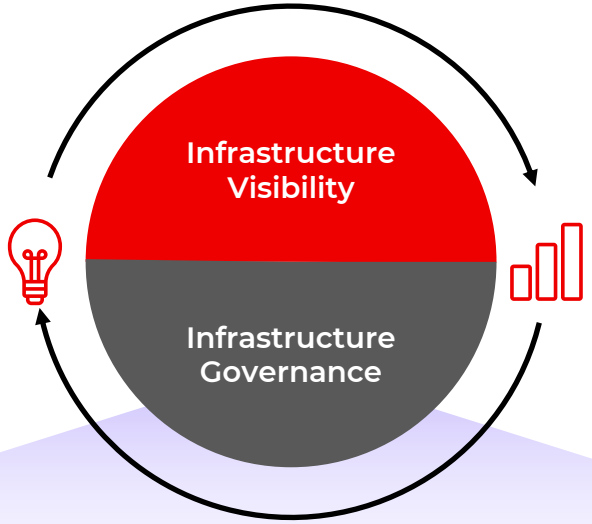
# NDK for IT Administrators

Monitor resource usage and manage infrastructure cost-effectively




Specify storage and governance policies to adhere to compliance regulations

- Certified enterprise ready operators for OpenShift
- Easy install, upgrades and full lifecycle support
- Prism Central integration for monitoring
- Choice of infrastructure with support for any cloud

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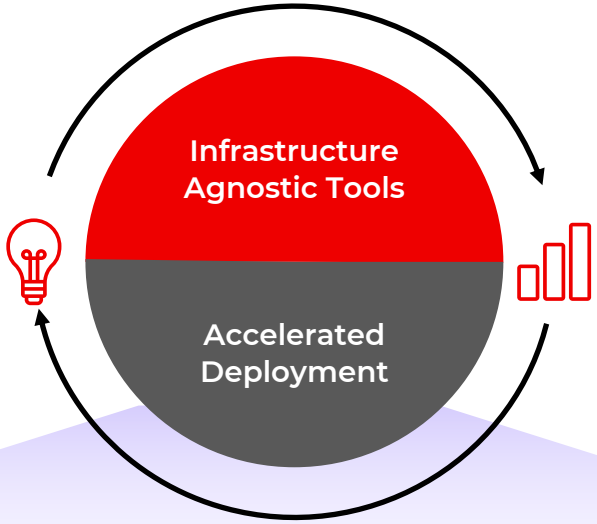
# NDK for DevOps

App-centric self-service tools for snapshot, disaster recovery, copy data management




Application lifecycle management without involving IT administration

Support for topology aware storage provisioning with Nutanix CSI drivers

Integrated solution with AHV and AOS core services

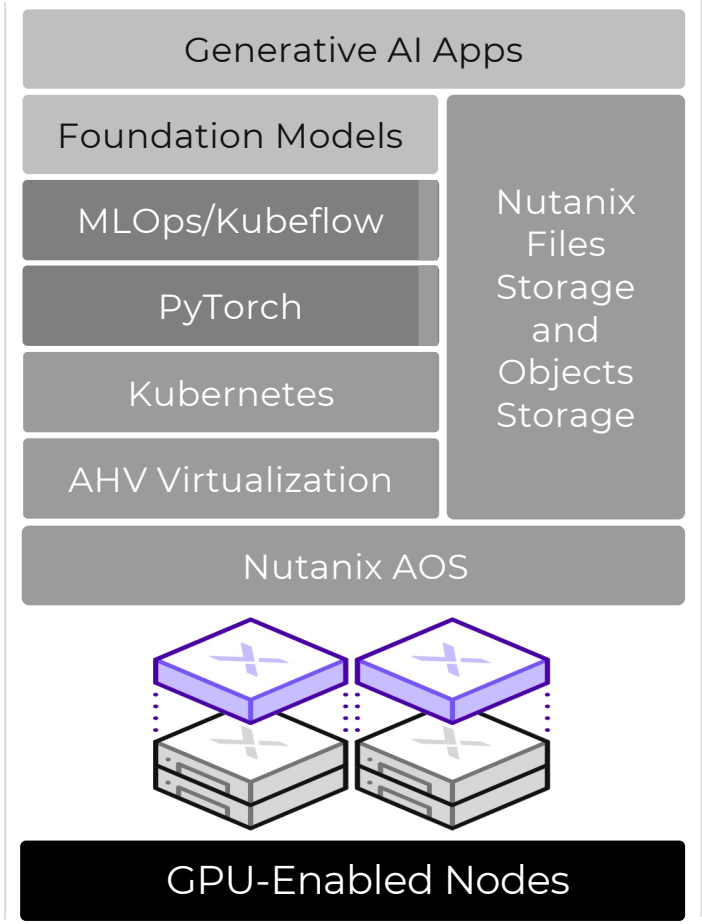
Support for stateless and stateful K8s applications

Automated LCM support with zero or near zero RTO and RPO

# Nutanix GPT-in-a-Box

**AI-ready platform and services to help organizations size and configure infrastructure suitable to deploy a curated set of LLMs using the leading open-source AI and MLOps frameworks on the Nutanix Cloud Platform.**

- Opinionated AI Stack
- GPU-Enabled Nutanix Cloud Platform with NCI, AHV, Kubernetes and Files or Objects storage
- License: NCI ULT, and NUS Pro for 10TB Objects, Files
- Services: Design Workshop, Stack Deployment
- PyTorch (AI framework) & Kubeflow (MLOps)
- BYO GPT: Llama2, Falcon, MPT
- Ideal starting point to explore AI capabilities



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# Q&A?

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# Thank you

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# Titolo

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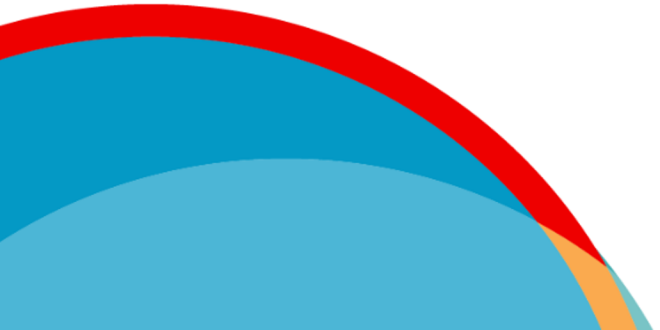
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