

Red Hat OpenShift Container Storage Update

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CNS (Container Native Storage)

is now

OCS (OpenShift Container Storage)





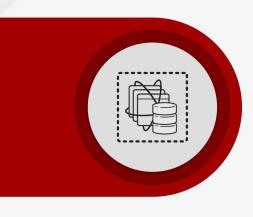
WHY ARE CONTAINERS SO NEEDY?

WHY DO CONTAINERS	HOW DO CONTAINERS	HOW IS CONTAINER
NEED STORAGE?	IMPACT STORAGE?	STORAGE DIFFERENT?
 When containers die, application data vanishes Applications need storage provisioned at runtime 	 Change how enterprises consume infrastructure Adapt to how we deploy applications Data, storage, and applications need to coexist 	 Needs to be natively delivered to the platform Cannot simply be a thin wrapper to extend legacy platforms Standalone storage is not integrated, container storage



WHAT IS OPENSHIFT CONTAINER STORAGE?

The de facto storage for Red Hat OpenShift Container Platform



Highly scalable, production-grade persistent storage

- For containerized applications in Red Hat® OpenShift
- Optimized as a storage backend for Red Hat OpenShift infrastructure
- Ideal for improve legacy storage

Built on battle-tested Red Hat Gluster Storage

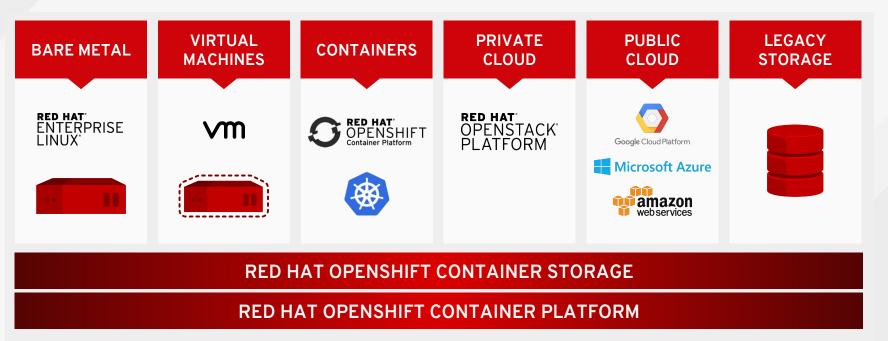
- Capable of supporting multipetabyte workloads
- Developed, maintained, and deployed in synch with Red Hat OpenShift releases
- Supported via a single contract with Red Hat OpenShift





Consistent & Multi-Cloud Persistent Storage Experience

Application Portability And Lower Costs





RHOCS: Benefits

Persistent Storage for OCP based on Glusterfs

- Integrated with OCP through storage provisioner and Heketi API
- Valid for all types of storage (RWO, RWX, ROX)
- 2 multi-cloud deployment modes with same set of features:
 - Converged mode (CNS): Gluster containerized on top of OCP
 - Independent mode (CRS): Gluster in baremetal/VMs outside
- Openshift-ansible deployment for both options
- High Availability, redundancy
- Dynamic Provisioning
- Compatible with / On top of any existing storage

(If well deployed, and well used becomes THE **INVISIBLE** STORAGE)



CONTAINER PLATFORM - COMPLETE FROM Red Hat



UNIFIED CLUSTER COMPLETE PLATFORM UNIFIED INTEGRATED & TESTED SINGLE VENDOR SINGLE POINT OF SUPPORT



INTRODUCING LATEST VERSIONS OF RHOCS 3.10 & 3.11

- <u>New name for Container Native Storage</u>!
- New Features in OpenShift Container Storage 3.10 (Sept'18):
 - Arbiter Volume Support
 - Improved Support for Block Storage
 - OpenShift Container Storage Heketi Topology & Configuration metrics available from OpenShift
- New Feature in OpenShift Container Storage 3.11 (Nov'18):
 - Online Expansion of Persistent Volumes from Admin console





CUSTOMER MOMENTUM WITH CONTAINER STORAGE FROM RED HAT

- More than 300 customers worldwide
- 100 new customers in the last quarter
- All sectors and verticals
- Any size of customer
- CNS Momentum PR:

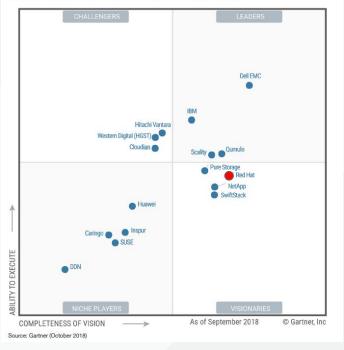
<u>https://www.redhat.com/en/about/press-releases/growing-number-orga</u> <u>nizations-around-world-choose-red-hat-container-native-storage-red-hat-</u> <u>openshift-container-platform</u>



Gartner Names Red Hat a Storage Visionary 2018 Three Years In a Row

Magic Quadrant

Figure 1. Magic Quadrant for Distributed File Systems and Object Storage



Red Hat Storage continues to lead competitors like NetApp and SuSe on both ability to execute and completeness of vision.

Red Hat Storage is second only to Dell/EMC on completeness of vision, and the only open source vendor listed as a visionary

Gartner on the Red Hat Storage Portfolio

- Versatile and tightly integrated with Red Hat Platforms and Kubernetes, in hyperconverged and disaggregated form factors
- Hardware independence and open-source model, full-stack infrastructure solutions
- Certified across a broad spectrum of server hardware, with reference architectures available from leading server OEMs



OpenShift Container Storage Sizing

Last September licencing has changed to core-pair, aligning with OpenShift. (1 RHOCS node = minimum 4 cores)

- Small size environments (<= 8 OCP workers)
 - 8 SKU OCS (4 nodes)
- Medium size environments (9 20 OCP workers)
 - 14 SKU OCS (4 nodes + 3 nodes)
- Large size environments (>= 20 OCP workers)
 - 24 SKUs * contact us
- Public Cloud environment Multi-AZ:
 - minimum 6 nodes with 4 cores all for infra+apps 12 SKU OCS
- Stretched Clusters environments:
 - minimum 6 nodes with 4 cores all for infra+apps (2 data nodes at each datacenter + 2 dedicated arbiter nodes) - 12 SKU OCS



OpenShift Container Storage Pricing

Storage						PRICING			
SKU INFORMATION		SYSTEM OPTIONS				EUR	1-YEAR PRICING		
SKU	SKU Description	# of Nodes	Support Type	CURRENCY	1-Year MSRP	3-Year MSRP	F3 SKU		
Red Hat OpenShift Container Storage									
RS00181	Red Hat OpenShift Container Storage, Premium (2 Core)	2 Core	Premium	EUR	2.000	5.400	RS00181F3		
RS00182	Red Hat OpenShift Container Storage, Standard (2 Core)	2 Core	Standard	EUR	1.440	3.888	RS00182F3		



RHOCS rocks!

https://www.redhat.com/en/about/videos/red-hat-openshift-container-storage



🧢 redhat.



THANK YOU



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