

Connect

Kasten by Veeam

Backup, DR e migrazione multi-cloud per **Red Hat OpenShift**

Roberto Dellavedova

Enterprise System Engineer Italy Veeam Software





Best of Breed Technology Alliance



Data protection and backup is a necessity for managing Kubernetes at scale across the hybrid cloud. We are pleased to collaborate with **Kasten by Veeam** so organizations across the globe can use Kasten K1O data management platform with **Red Hat Openshift** to rollout, upgrade and protect their cloudnative applications.

Joe Fernandez

VP and GM, Core Cloud Platforms at RedHat





Kasten by Veeam: our Mission

Kasten's **Mission** is tackling Day 2 data management challenges to help enterprises confidently run applications on **Kubernetes.**



Backup & Restore



Disaster Recovery



Application Mobility



Kasten by Veeam: industry recognition









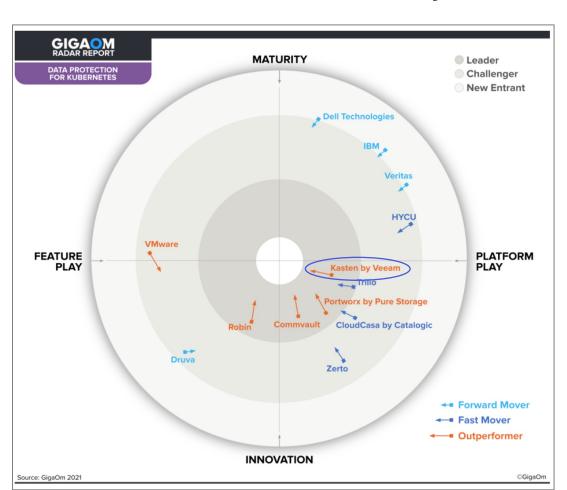












Kasten K10 is a Kubernetes-native, mature solution that's very suitable for self-hosted, self-managed use cases. It's architecture scales well and is especially well-suited for edge deployments.

It's RBAC features and centrally managed policy model are well aligned with large enterprise and self-service requirements.

It's application-aware data management framework, Kanister, is promising and quickly maturing. It has good support for on-premises repositories.

> Enrico Signoretti Senior Data Storage Analyst, GigaOm December 2021



Kubernetes Data Protection - Key customer asks



Kubernetes native

Automation and workflows in Kubernetes native environments



Multi-layered consistency

Consistent data and application resources capture



Freedom of choice

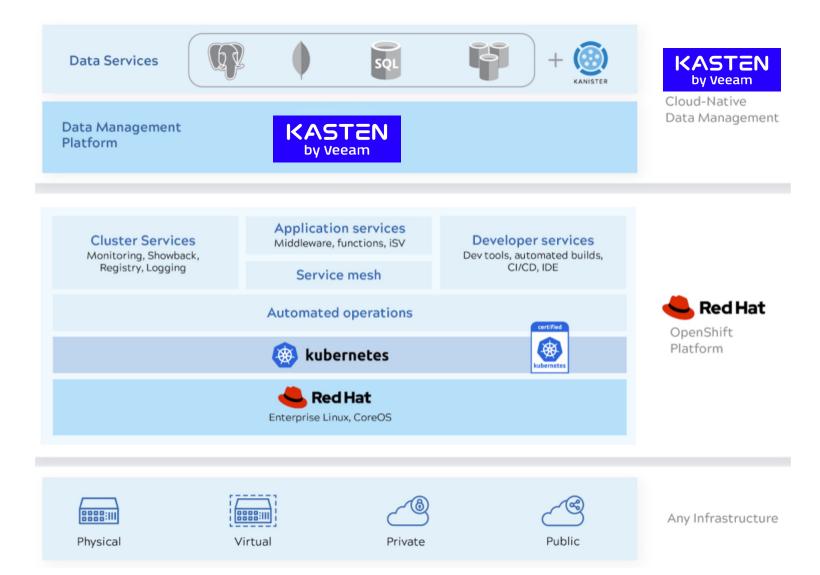
Avoid fragmentation and enable deployment flexibility



DevOps speed & scale
Shift-left environments
and secure self-service



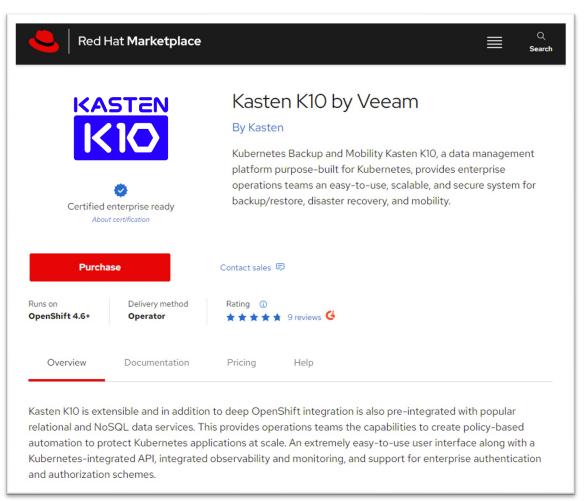








Kasten on Red Hat Marketplace

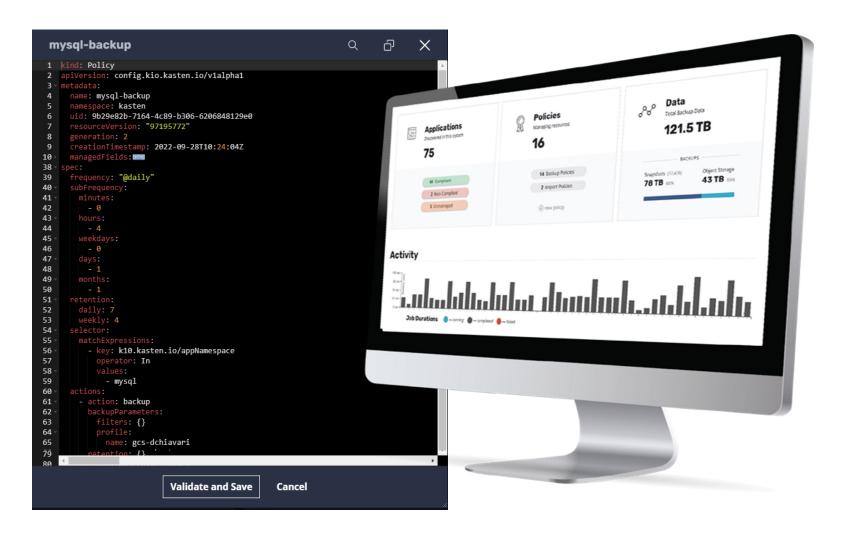


- Backup and DR for OpenShift
- Flexible purchase options
- Level III certified operator with full lifecycle capabilities (backup, failure recovery / DR)





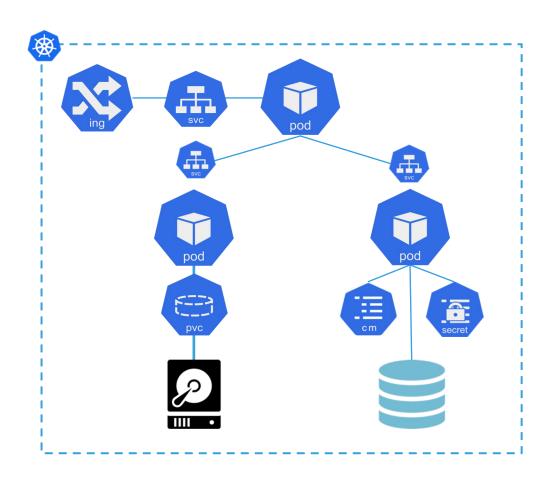
Kubernetes-native, policy-based protection







How Kasten K10 by Veeam works



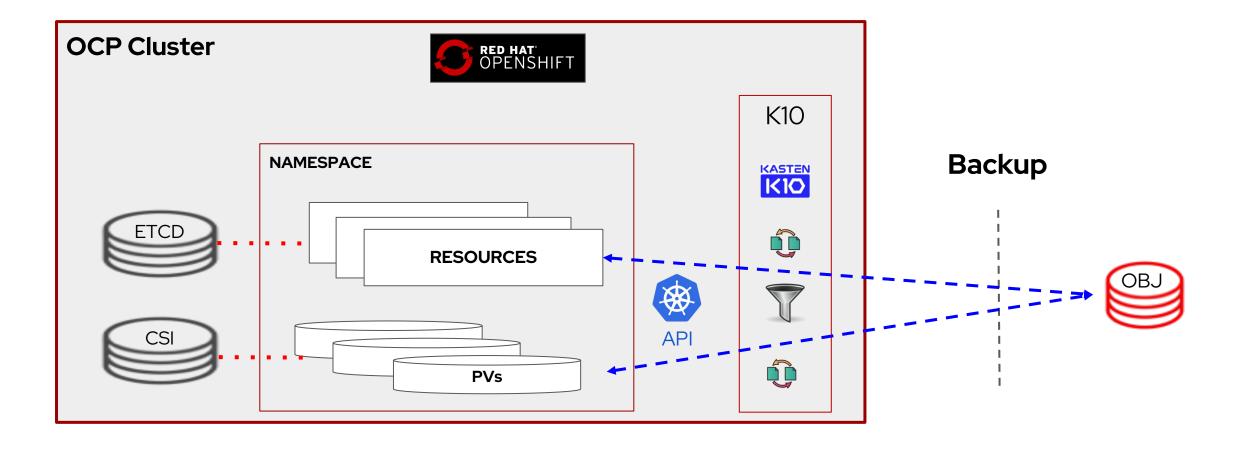
Applications as the Operational Unit

- Perform complete application capture
- Abstract underlying infrastructure
- Perform coordinated operations





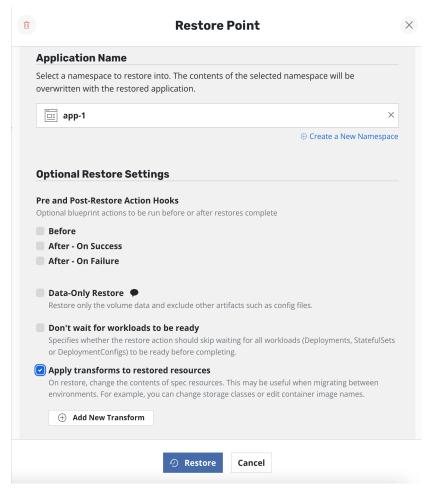
How Kasten K10 by Veeam works







Application Transforms – Kasten K10 by Veeam

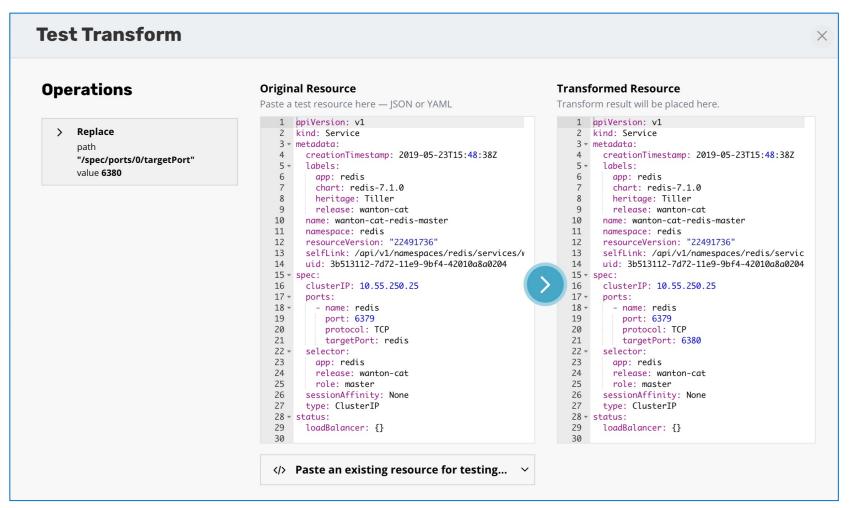


Resource	Transform Examples
Ingress	Change FQDNs
Service Account	Merge image pull Secrets
Storage	Change StorageClass
Registry	Transform registry URLs for applications
StatefulSets	Transform DNS names, e.g., workload URLs
Secrets	Filter by label, e.g., Remove TLS secret for auto-regeneration
OpenShift	Internal updates, e.g., OCP ImageStream tags





Application Transforms – Kasten K10 by Veeam







Kasten K10 by Veeam – Main features



Built for Kubernetes

Purpose-built for Kubernetes using cloud native architectural principles



Security Everywhere

Support for RBAC, OIDC, Token Auth, IAM and industry-standard encryption



Rich Ecosystem

Extensive support across the entire stack: select the best tools or infrastructure



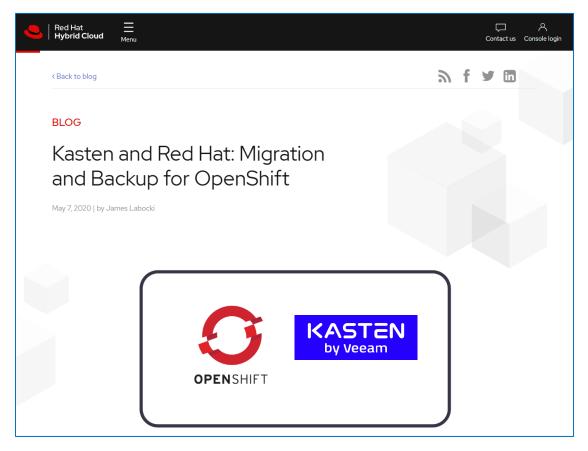
Ease of Use

State-of-the-art multi-cluster UI; cloud native architecture and API, easy install, extensible

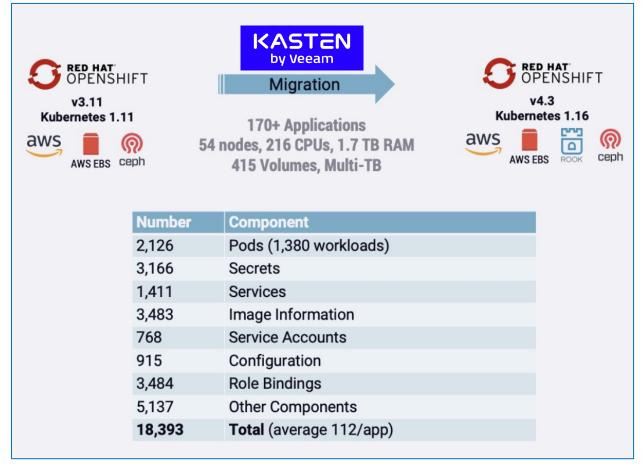




Use case: OpenShift Migration (v3.11 \rightarrow v4.3)



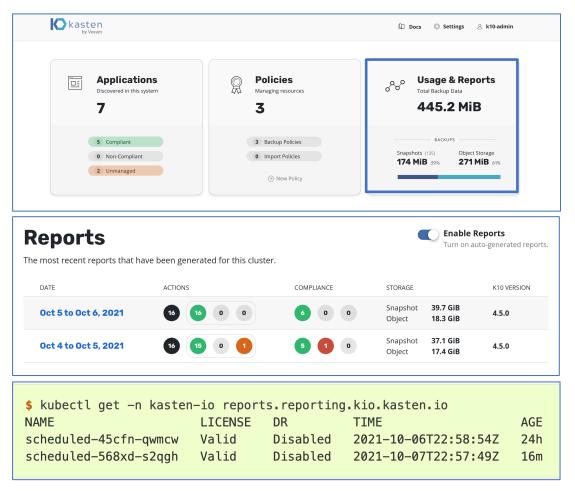
https://cloud.redhat.com/blog/kasten-and-red-hat-migration-and-backup-for-openshift

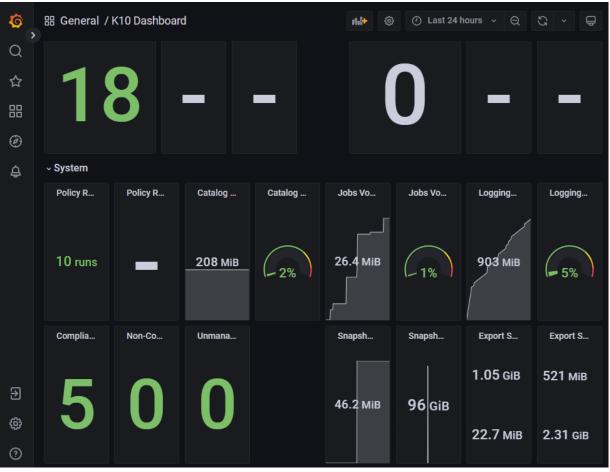






Integrated reporting & visibility









Kasten K10 by Veeam **v5** – What's new?



Platform Hardening & Ease of Use

- KMS integration for encryption keys management
- Kubernetes native RBAC objects (Roles and Bindings) exposed in UI dashboard



Data Protection Policy Guardrails

- Plugging vulnerabilities by identifying (and fixing) misconfigurations
- Enforceable Policy standards (e.g., RPO, retention, immutability)



Ransomware Attack Detection

- Early detection of potential / impending attack
- AWS S3 or S3-compatible storage supporting S3 Object Lock



Veeam Hardened Linux Repository with immutability

- Comprehensive, end-to-end ransomware protection, from Performance Tier to Capacity Tier
- Next step in VBR data path integration







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