

## Connect

## Kasten by Veeam

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

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Presales Manager, 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 cloud-native 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









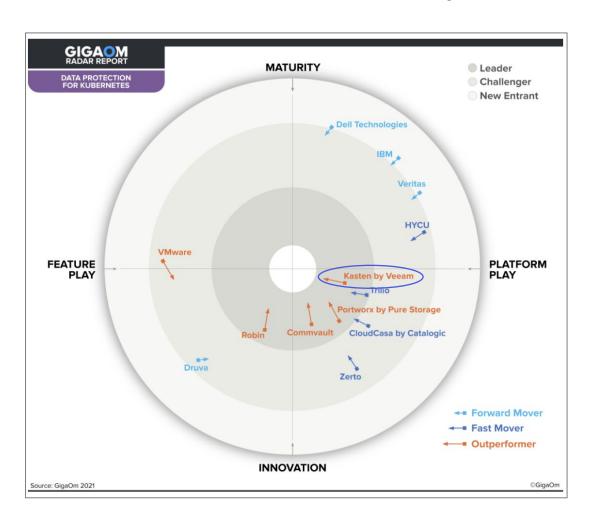












Kasten K10 is a Kubernetes-native, mature solution that's very suitable for self-hosted, self-managed use cases. It's architecture scales well and is especially well-suited for edge deployments.

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

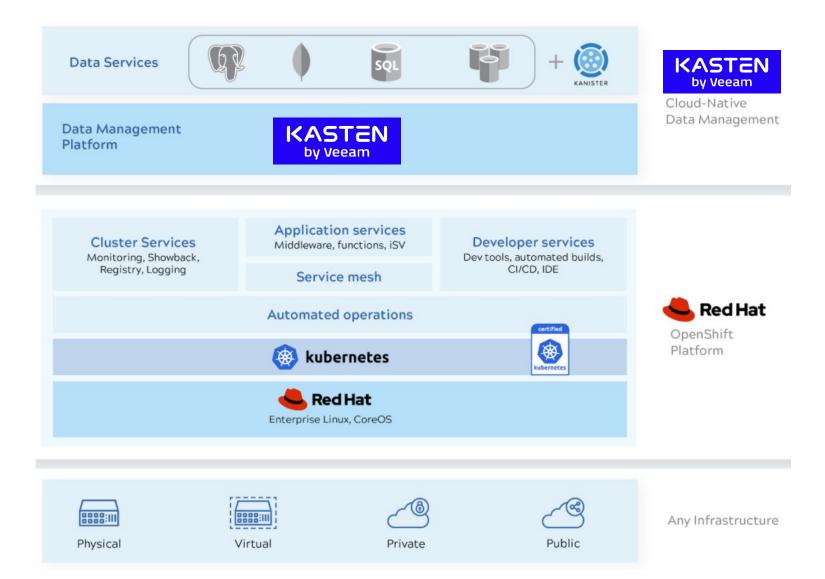
Avoid fragmentation and enable deployment flexibility



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



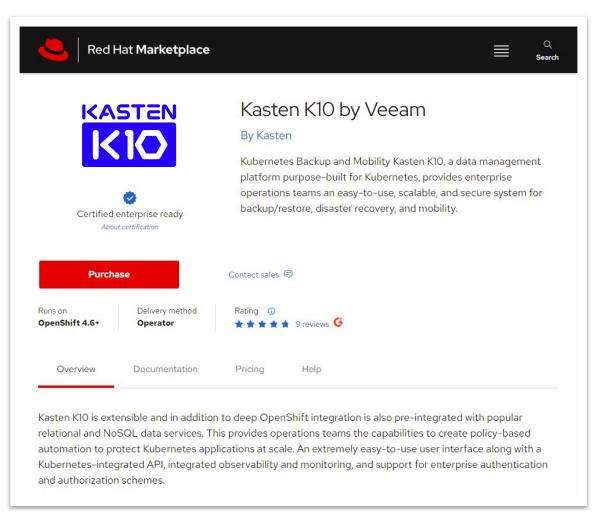








## Kasten on Red Hat Marketplace

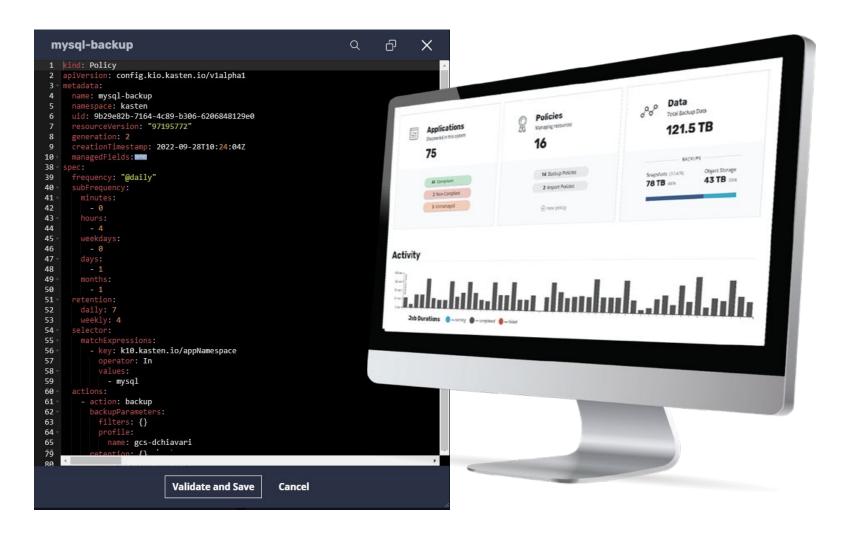


- Backup and DR for OpenShift
- Flexible purchase options
- Level III certified operator with full lifecycle capabilities (backup, failure recovery / DR)





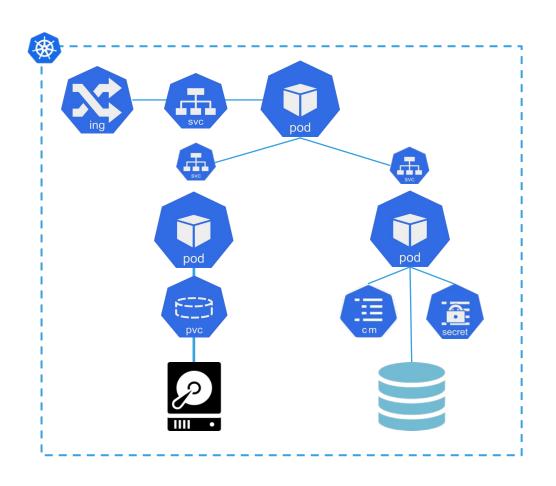
## Kubernetes-native, policy-based protection







## How Kasten K10 by Veeam works



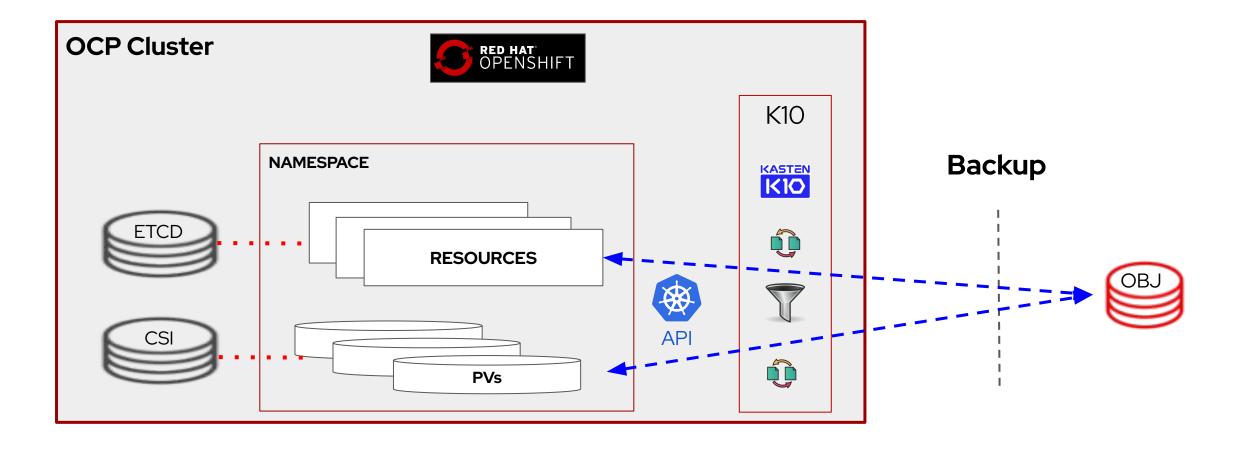
## Applications as the Operational Unit

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





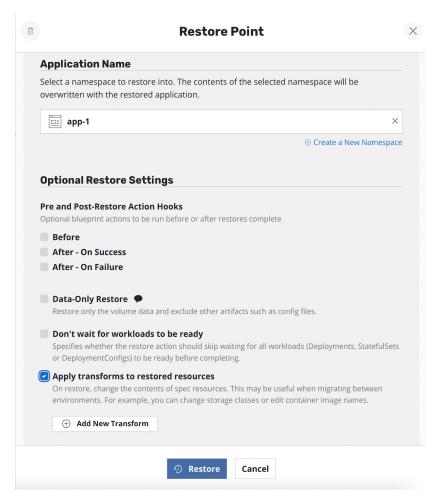
## How Kasten K10 by Veeam works







## Application Transforms – Kasten K10 by Veeam

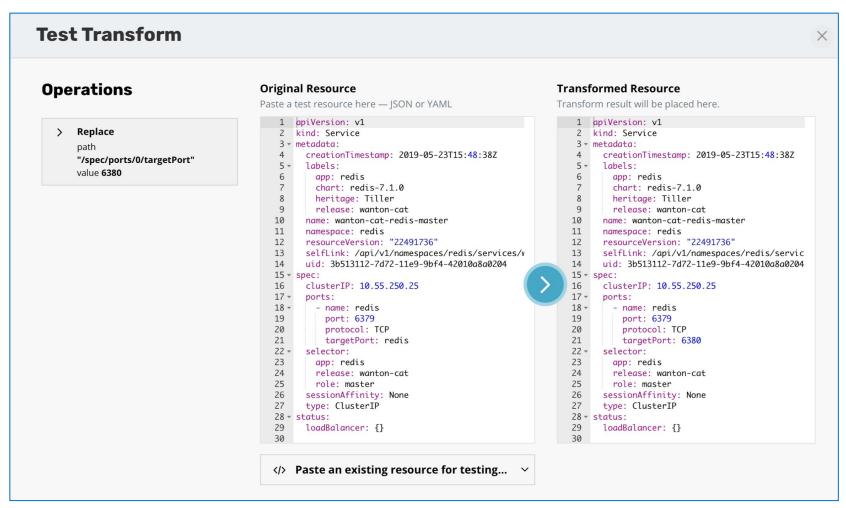


Resource	Transform Examples
Ingress	Change FQDNs
Service Account	Merge image pull Secrets
Storage	Change StorageClass
Registry	Transform registry URLs for applications
StatefulSets	Transform DNS names, e.g., workload URLs
Secrets	Filter by label, e.g., Remove TLS secret for auto-regeneration
OpenShift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



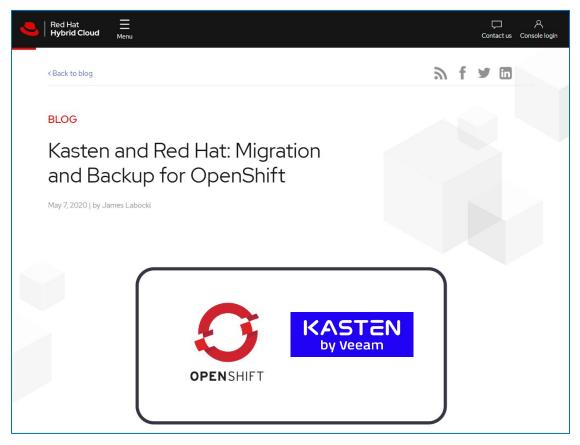
#### Ease of Use

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

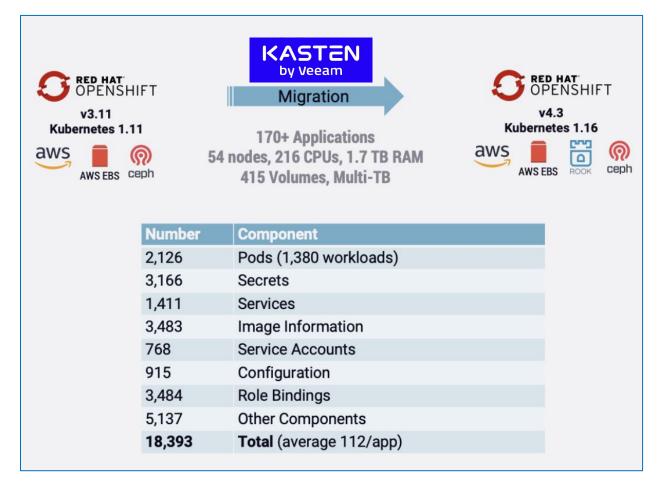




## Use case: OpenShift Migration (v3.11 $\square$ v4.3)



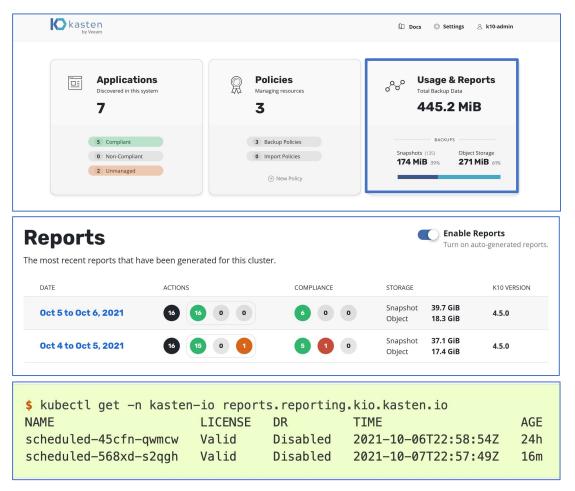
https://cloud.redhat.com/blog/kasten-and-red-hat-migration-and-backup-for-openshift







## 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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