



Veeam Kasten

#1 Data Protection and Mobility for OpenShift and Kubernetes

Veeam's mission is: "To tackle Day 2 data protection challenges on behalf of enterprises so that they can confidently run their applications on Kubernetes"

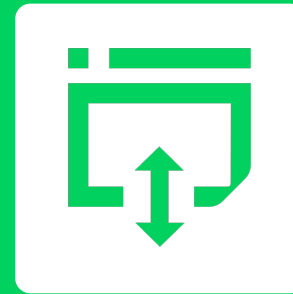
Veeam Kasten



Backup &
Restore



Disaster
Recover
y



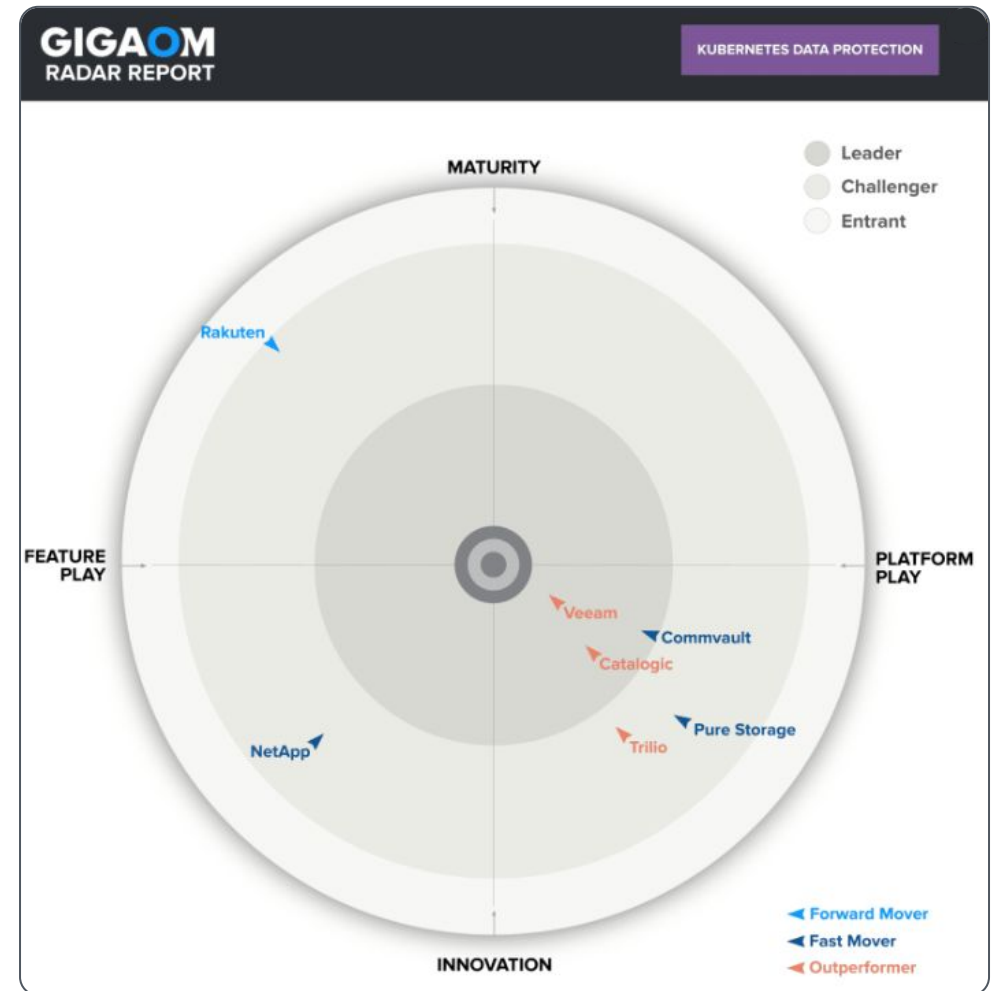
Application
Mobility



Ransomware
Protection

#1 Kubernetes Data Protection

Recognized by GigaOm as
4x Time Leader and Outperformer
Kubernetes Data Protection



GigaOm Radar for Kubernetes Data Protection 2024,
[<https://www.veeam.com/blog/k8s-data-protection-gigaom.html>]

How Veeam Kasten Works



Discover

Automated discovery
of your Kubernetes application



Protect

Secure your Kubernetes
application and data



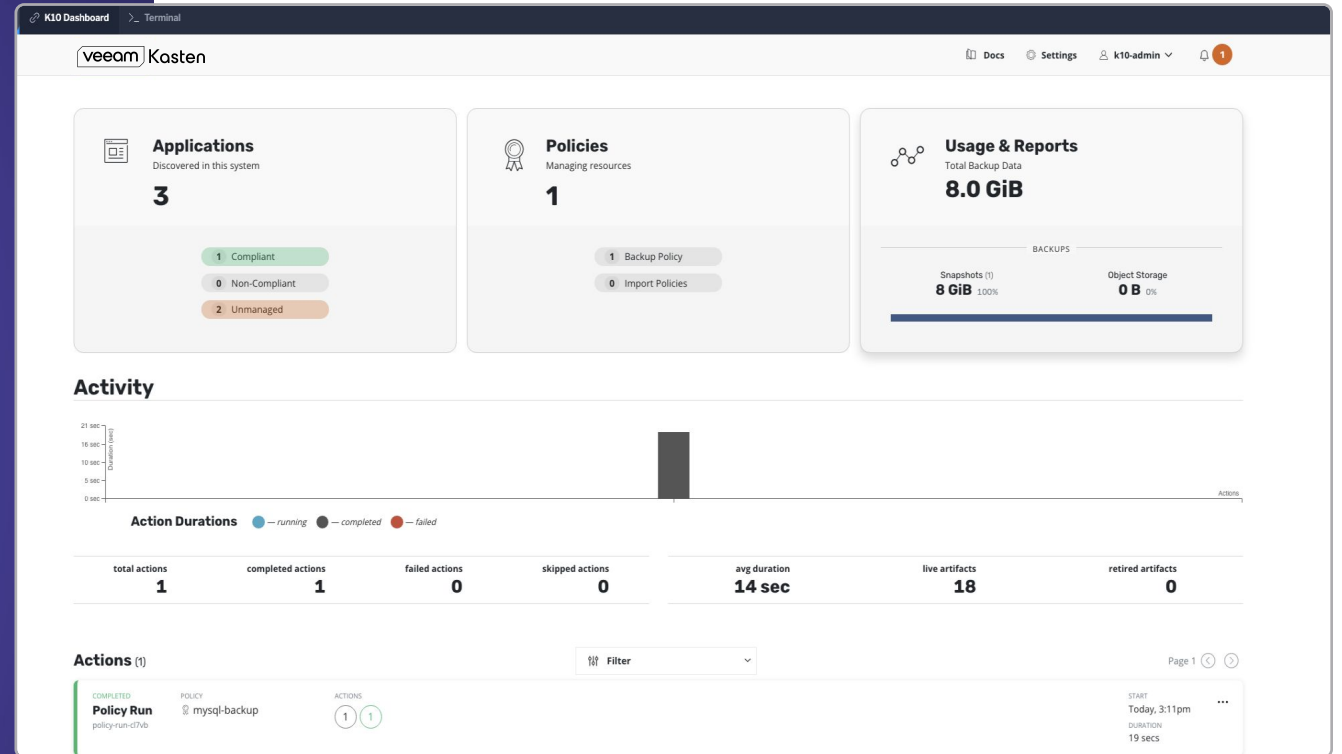
Restore Anywhere

Quickly and effectively **restore**
your Kubernetes application
and data anywhere

Discover

Capture your entire
Kubernetes application stack

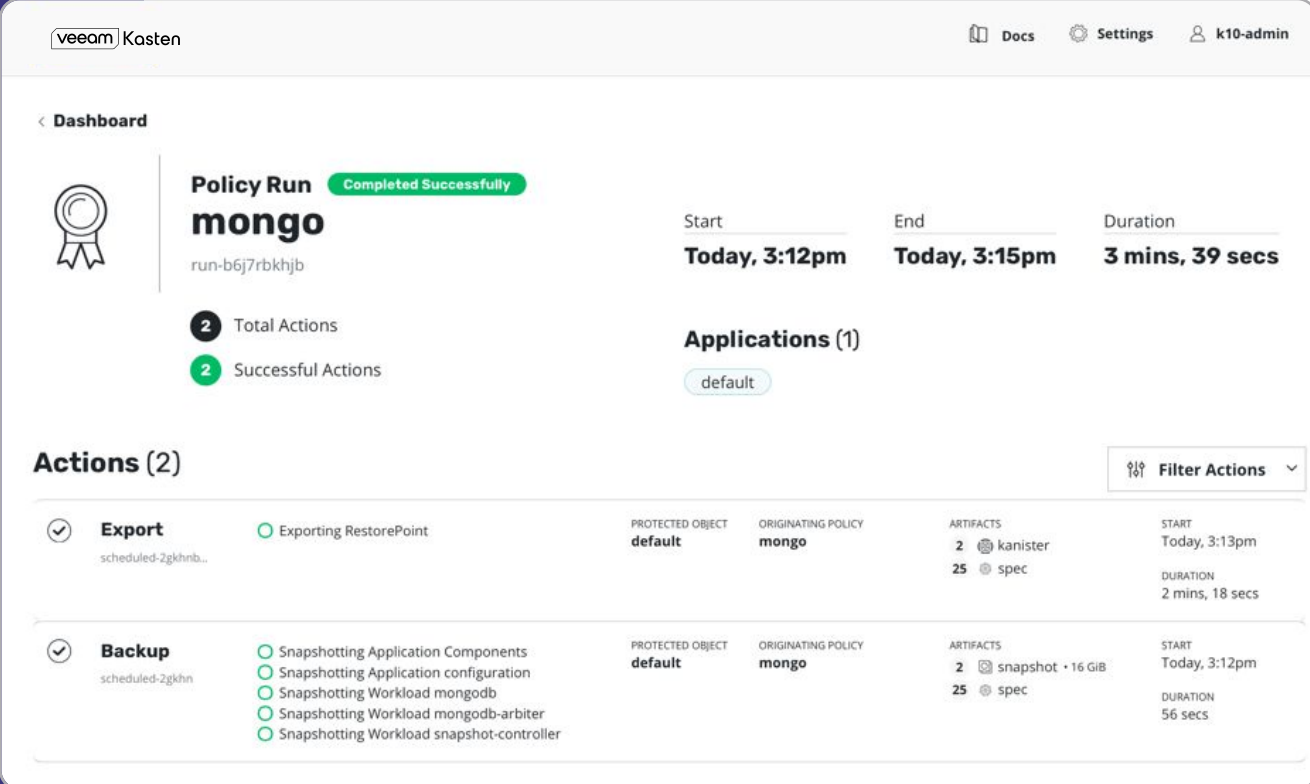
- Automatically discovers your Kubernetes applications and inventory all dependencies
- Includes resource definitions, configuration and underlying data
- Integrates with relational and NoSQL databases, all major Kubernetes distributions



Protect

Complete application protection

- Creates a copy of containers and specified data, and automatically updates the backup at a rate you decide
- Ensures comprehensive protection across multiple clusters and clouds
- Automated policies enable you to meet your backup SLAs



The screenshot displays the Veeam Protect interface for a user named 'k10-admin'. The main section shows a 'Policy Run' for 'mongo' (ID: run-b6j7rbkhjb) that has 'Completed Successfully'. The run started at 'Today, 3:12pm' and ended at 'Today, 3:15pm', with a duration of '3 mins, 39 secs'. Below this, there are two summary metrics: '2 Total Actions' and '2 Successful Actions'. A section titled 'Applications (1)' shows a 'default' application. The 'Actions (2)' section is a table with a 'Filter Actions' dropdown:

✓	Export	Exporting RestorePoint	PROTECTED OBJECT	ORIGINATING POLICY	ARTIFACTS	START
✓	scheduled-2gkhn...	Exporting RestorePoint	default	mongo	2 kanister 25 spec	Today, 3:13pm DURATION: 2 mins, 18 secs
✓	scheduled-2gkhn	Snapshotting Application Components Snapshotting Application configuration Snapshotting Workload mongod Snapshotting Workload mongodb-arbiter Snapshotting Workload snapshot-controller	default	mongo	2 snapshot • 16 GiB 25 spec	Today, 3:12pm DURATION: 56 secs



Restore Anywhere

Coordinated application recovery

- Restores the entire application and data across clusters, regions, and clouds
- Recover from user errors, infrastructure failure, disasters or malicious attacks
- Leverage blueprints to properly orchestrate the restore of your application and data

The screenshot shows the Veeam Kasten web interface for configuring a restore point for a MySQL application. The main panel on the left displays the 'Restore application mysql' page, which includes a 'Past day' section with a restore point for 'Today, 3:11pm' labeled 'mysql-backup'. The right panel, titled 'Restore Point', allows for configuration of the restore process. It includes an 'Application Name' field set to 'mysql', 'Optional Restore Settings' such as 'Pre and Post-Restore Action Hooks' (with options for Before, After - On Success, and After - On Failure), 'Data-Only Restore', 'Don't wait for workloads to be ready', 'Apply transforms to restored resources', and 'Overwrite existing'. The 'Artifacts' section shows a list of artifacts to be restored, including a snapshot of 1 volume. At the bottom, there are 'Restore' and 'Cancel' buttons.

NUMBER OF VOLUMES PVC	VOLUME ID	STORAGE CLASS NAME	SIZE
1	data-mysql-0	csi-hostpath-sc	8 GiB

We keep your business running



Data Security



Data Recovery



Data Freedom



Data Security

Why Veeam Kasten

Security Everywhere

Don't be a victim -- treat data protection as a Day 0 operation



Ransomware Protection

Backup immutability & always-on encryption keeps your data safe



Kubernetes-Native RBAC

Deliver secure self-service across teams & personas



Security Ecosystem

Integrate with industry-leading SIEM, Policy-as-Code, & KMS tools



Data Recovery

Why Veeam Kasten

Reliable Backup and Fast Recovery

100% Kubernetes-native solution for protecting your cloud native apps



Simple Recovery

Recover working applications in-place, cloning, or recovering to other clusters



Intelligent Policies

Support enterprise-scale operations with built-in automation



Application Consistency

Customizable application integration for every Kubernetes workload



Data Freedom

Why Veeam Kasten

Gain Application Freedom

They are your applications, run them where you want



Application Mobility

Enable hybrid/multi-cloud across different distributions, clouds, & infrastructure



VMs on K8s & Databases

Accelerate application transformation by supporting diverse workloads



Freedom of Choice

Agnostic with broadest ecosystem of supported distributions, infrastructure & apps

Better Together: Kasten by Veeam + Red Hat



OpenShift Back Up & Disaster Recovery



OpenShift Mobility, Migration, Upgrades



OpenShift on AWS (ROSA), Azure (ARO), Hybrid-Cloud



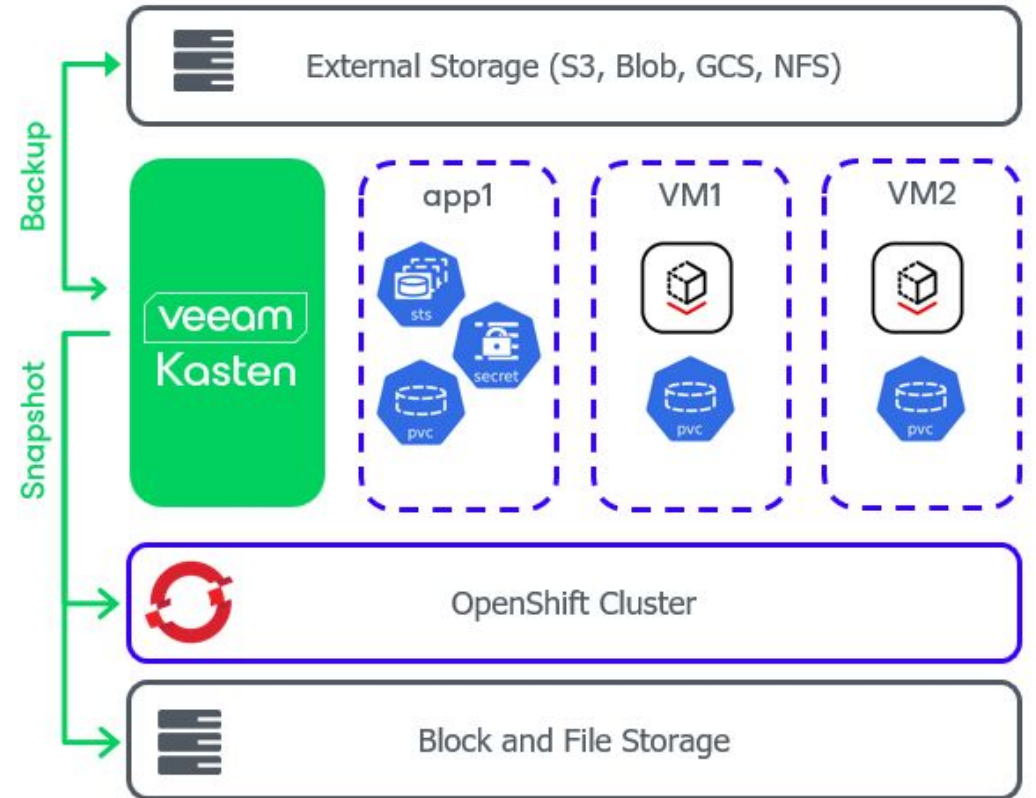
OpenShift Virtualization Integration



Application-Specific Data Management
Kasten Blueprints for Data Services



Platform Plus
OpenShift ACM, ACS & ODF Integrations



Reference Architecture

For Veeam Kasten and
OpenShift Virtualization

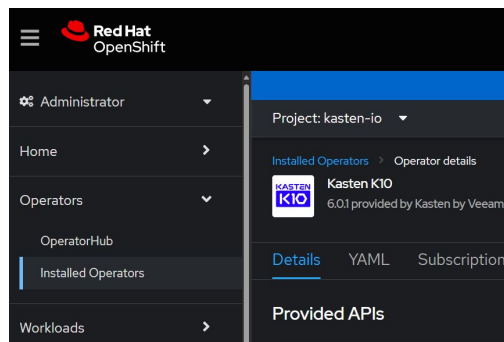


 [LINK](#)

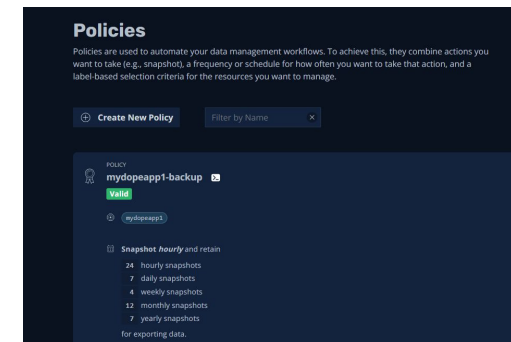


Useful Resources

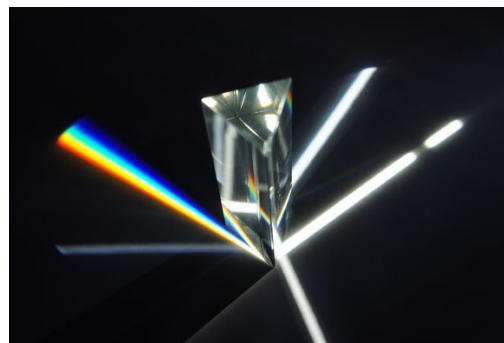
<https://veeamkasten.dev>



Veeam Kasten on OpenShift
Interactive Demo
([LINK](#))



Protecting OpenShift VMs
with Veeam Kasten
([LINK](#))



Migrating vSphere VMs to
Openshift Virtualization
([LINK](#))



Using OpenShift Monitoring
for Veeam Kasten
([LINK](#))

Veeam Kasten v7.0



Introducing Veeam Kasten V7.0

Continuous, fast paced innovation

Nov
2022

5.5

- Intelligent Job Staggering
- Backup Windows
- Policy Presets
- OpenShift Virtualization
- IPv6

Jun
2023

6.0

- VBR Integration
- Transform Library
- Blueprint Bindings
- Multi-cluster License Management

Nov
2023

6.5

- Multi-app Restore
- Iron Bank
- SBOMs
- Blockmode Datamover & EBS CBT
- Datadog SIEM

May 2024

7.0



Cyber Resilience



Enterprise Solutions



and more!

Kasten V7.0

What's New



Cyber Resilience

Public Sector

- FIPS 140-3 Compliance

Ransomware Protection

- Azure Blob
- Block-mode backups

SIEM Integrations

- Azure Sentinel

Deployment

- Secure authentication
- Helm chart signing



Enterprise Solutions

Cloud Native and VMs

- OpenShift Advanced Cluster Management integration
- OpenShift container image protection
- Efficient K8s VM backups

Cloud Transactability

- Azure Marketplace

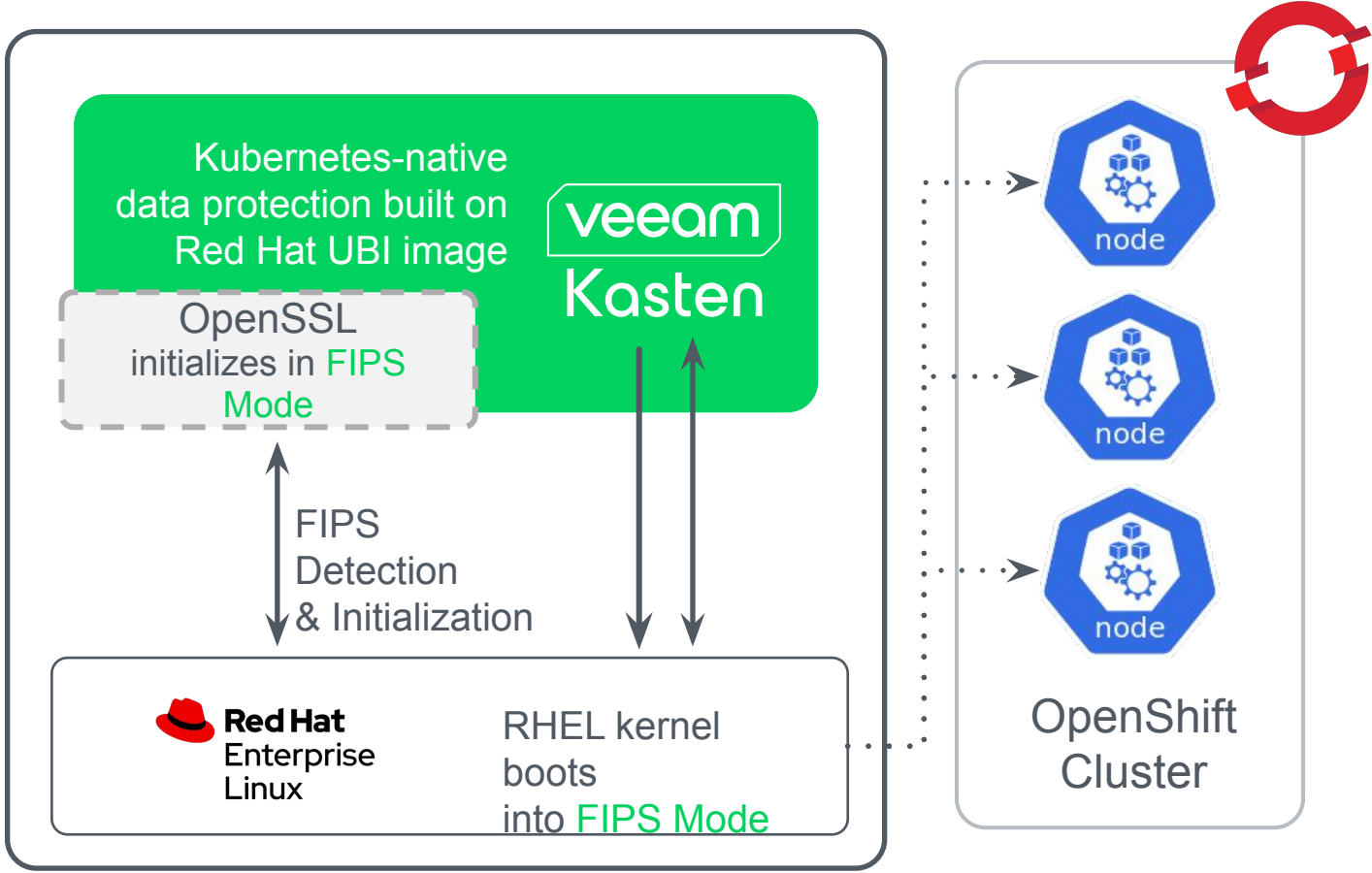
Recovery Focused

- Kasten-DR
- VBR Instant Recovery
- In-place volume cloning

Industry's first Kubernetes-native data protection supporting FIPS-enabled clusters

Kasten with FIPS 140-3

FIPS Compliant with OpenShift



Dashboard Auth via OpenShift

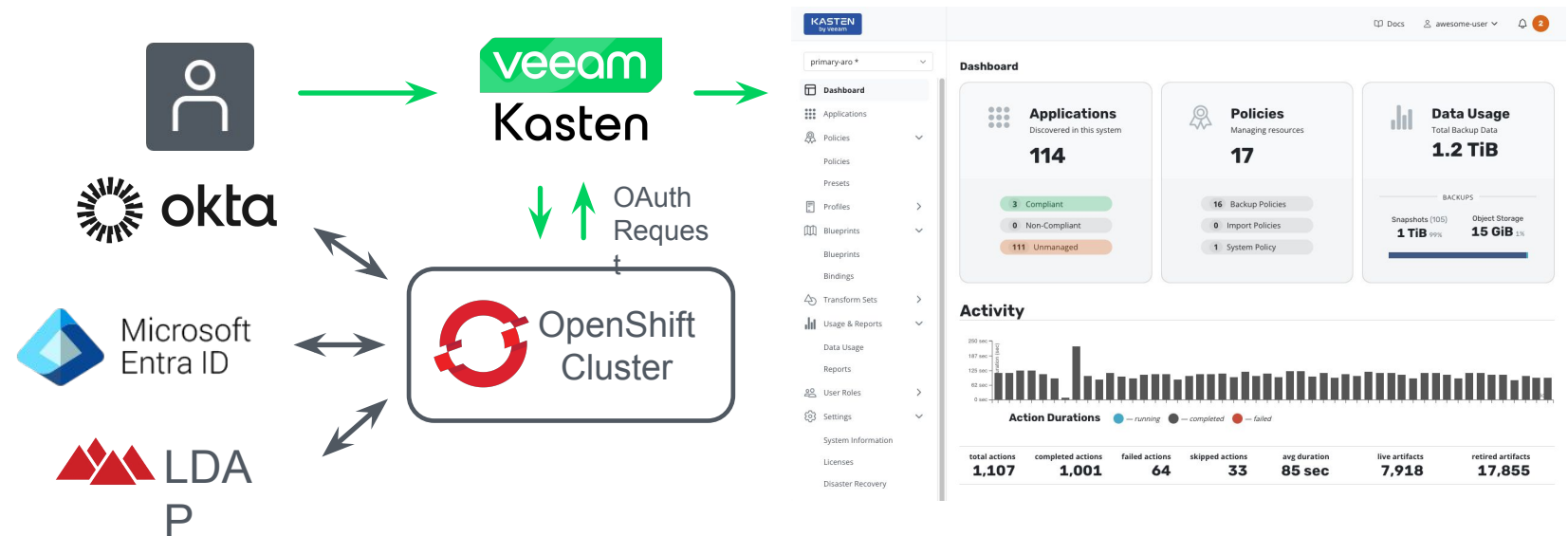
Simplified OAuth configuration

What is it?

- Provides multi-user authentication to Kasten Dashboard for secure self-service
- Supports multiple backend IDPs
- User ID consistency simplifies RBAC enforcement

What's new? *Better living through automation!*

- Automatic service account & token creation
- Automatic cert bundle creation
- GitOps-friendly secrets for advanced configurations

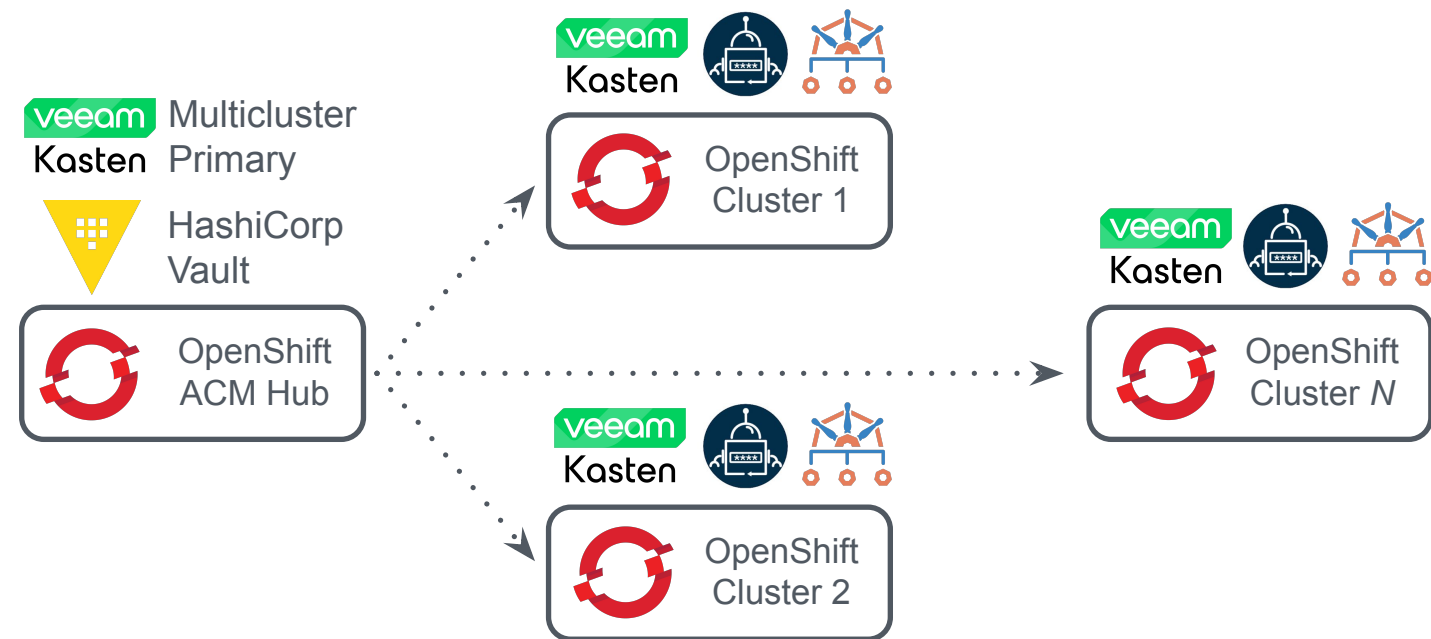


Advanced Cluster Manager Solution Guide

Scalability via OpenShift Platform Plus tools

What's new?

- Quick start guide for configuring scalable deployment & data protection guardrail management
- Leverages full value of OpenShift stack by using Advanced Cluster Manager to automatically deploy and configure Kasten across large environments
- Example ACM integration with Kyverno to audit and enforce immutable backups
- Example secure configuration of Kasten auth and multicluster via External Secrets Operator and Vault

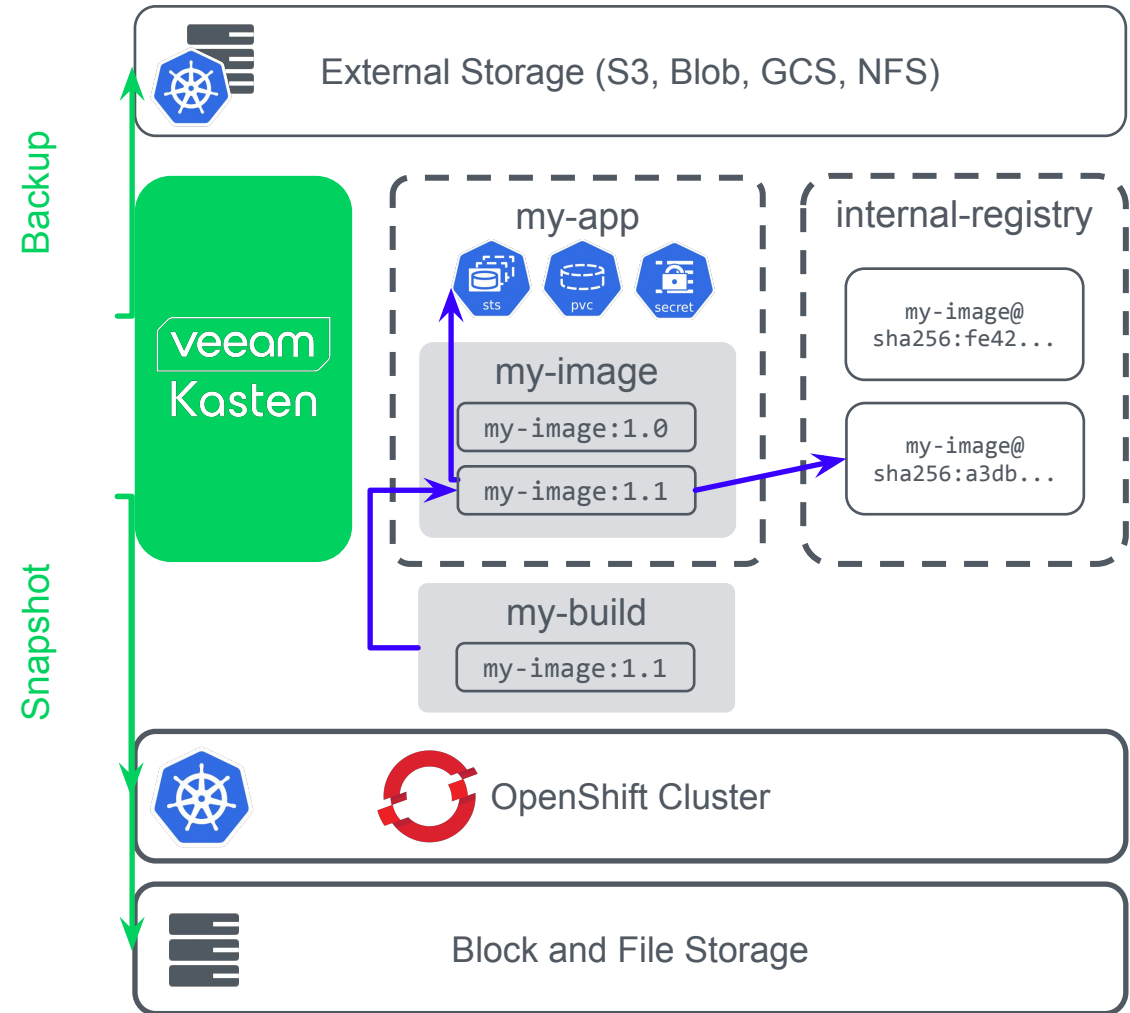


ImageStream Protection

Immutable container image backup

What is it?

- Native support for protecting & restoring container images managed by ImageStreams using OpenShift internal registry
- Uses standard Kasten Location Profiles – no dependency on separate registry
- Restores exact container builds to local registry in event of cluster loss



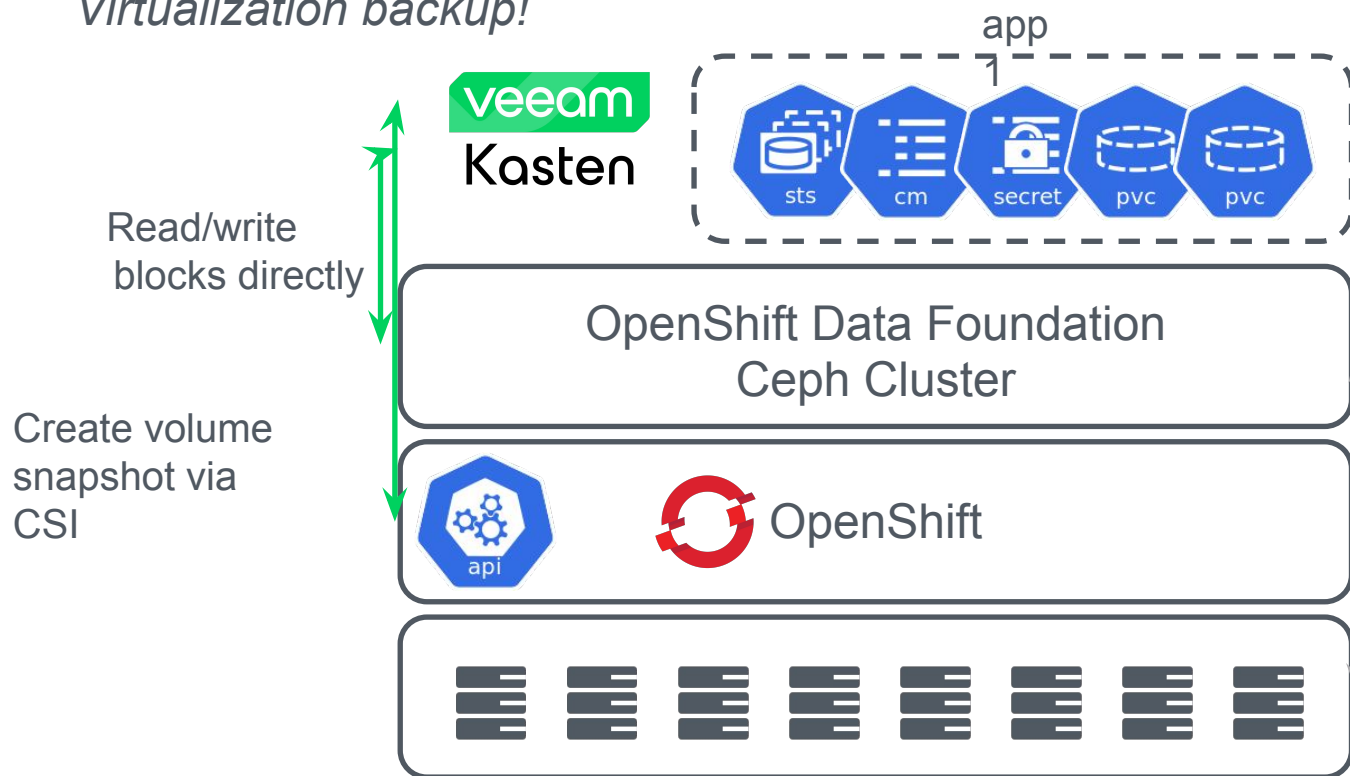
CephRBD Integration

OpenShift Enhancements

Direct API integration between Kasten and CephRBD volume manager for blockmode exports & restores

Why does it matter?

- Reduces in-cluster attack surface for datamover operations
- Improves export and restore performance
- Provides incremental backups vs full export – *useful for OpenShift Virtualization backup!*



Additional Recovery Enhancements

New in 7.0



In-place Volume Cloning

Restores timestamp-appended PVC “copies” from backup

- Non-disruptive to running workload
- Preserves namespace boundaries
- Useful for extracting individual files



Kasten-DR

Protects local Kasten configuration/catalog

- Incremental backups with improved export performance
- Adds Restore workflow via Dashboard UI
- Protects additional Kasten resources



VBR Instant Recovery

Manage Instant Recovery within Kasten Dashboard

- Automatic migration of PVCs to primary storage
- On-going migration status
- Automatic clean up in VBR console following migration

Veeam Kasten v7.5

Sneak peek

Preview

Veeam Kasten v7.5

What's coming?

Performance improvements

Management of large scale applications with millions of files / items

ISO/IEC 21007 Compliance

FIPS 140-3 with Veeam Kasten Multi-Cluster

Azure Managed Identity for OpenShift ARO

OpenShift Security Enhancements

Integration with new annotation-based controls in OpenShift Security Context Constraints cannot (intentionally or not) be applied to other workloads

Google Cloud Storage Immutability

Where to find more information



Veeam Kasten Backup for Kubernetes

By Kasten

Kubernetes Backup and Mobility Kasten, a data management platform purpose-built for Kubernetes, provides enterprise operations teams an easy-to-use, scalable, and secure system for backup/restore, disaster recovery, and mobility.

Runs on
OpenShift 4.6 - 4.18

Delivery method
Operator

[Purchase](#)

[Contact sales](#)



The screenshot shows the OperatorHub interface. On the left is a navigation menu with categories like Administrator, Home, Operators, Workloads, Networking, Storage, Builds, Observe, and Compute. The main content area shows a search for 'kasten' with three results:

- Kasten K10 (Enterprise - PAYGO)**: provided by Kasten by Veeam, kasten.io
- Kasten K10 (Enterprise - Term)**: provided by Kasten by Veeam, kasten.io
- Kasten K10 (Free)**: provided by Kasten by Veeam, kasten.io

Each result includes a description: 'K10 data management platform for OpenShift, The Market Leader for Kubernetes Backup and DR...'.



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