Data Protection & Mobility for Kubernetes Applications

Simplified Backup, disaster recovery, ransomware defense and migration for OpenShift

Red Hat Software Partner

KASTEN
by Veeam

Kasten by Veeam delivers reliable backup & disaster recovery, helps protect data from ransomware attacks and simplifies migration of Kubernetes applications across hybrid and cloud environments.

Seamlessly deploy, upgrade, and protect cloud-native applications.

Simplify the process of moving existing, stateful workloads between OpenShift clusters, across public clouds, or even migrating from other distributions onto OpenShift.

Enterprise Grade Data Protection for Enterprise Container Orchestration

Hybrid cloud platforms like Red Hat® OpenShift® are enhancing how organizations develop, deploy, manage, and protect containerized application data. As enterprises continue to adopt Kubernetes for business-critical operations, the need for reliable, cloud native protection for stateful applications and persistent data has become a requirement.

Yet according to a data protection report by ESG, 74% of organizations believe both legacy and containerized application data can be protected the same way. The truth is, Kubernetes is fundamentally different from earlier compute infrastructures. Systems used for data management and backup of traditional workloads lack the required elasticity, and don't employ modern, declarative API-based approaches to protect and recover the components & microservices of a Kubernetes application.

The Kasten K10 data management platform was purpose-built for Kubernetes and is a certified OpenShift Operator. With operational simplicity as a core tenet, Kasten K10 makes backup, disaster recovery, and application mobility simple on OpenShift. With an application-centric approach and deep integrations with relational and NoSQL databases, storage systems, and Kubernetes distributions, Kasten K10 delivers flexibility and freedom of choice across cloud & on prem infrastructures, virtual machines and container application stacks.

Simplified & Protected Kubernetes

The partnership between Red Hat & Kasten by Veeam allows you to seamlessly integrate data protection as part of application development and deployment on OpenShift. Build in the cloud, deploy on-prem, migrate applications across compute environments, and recover anywhere. Together with OpenShift, Kasten K10 simplifies how your organization can manage and protect Kubernetes application data and accelerate deployments from test/dev into hybrid and multi-cloud production environments.

Modern, Manageable & Protected Infrastructure
Unlike open source tools used for protecting Kubernetes apps, Kasten K10 delivers centralized multi-cluster management, enterprise security capabilities, and the ability to create application-consistent backups and export them to off-cluster storage.

Saved Time, Reduced Complexity & Ease of Use
When It comes to enterprise scale, it's difficult for organizations to sustain long-term investments in custom tools. Kasten K10 ensures your applications have a reliable Kubernetes-native backup in place, allowing your teams to accelerate innovation by reducing the work, time and required skills associated with roll-your-own data protection software.

Improved Operational Efficiency
OpenShift users need tools and applications that have been built specifically to make full use of Kubernetes native API's and components. Kasten K10 provides OpenShift administrators with a single pane of glass for managing Kubernetes clusters with intelligence and automation at all layers of the backup and recovery process.

**Enhanced Security Capabilities**
Kasten K10 on OpenShift ensures your container application data is securely backed up and can be restored reliably to eliminate data loss in the event of a disaster or malicious attack. Backup is the last line of defense for OpenShift application data, and Kasten provides air-gapped backup and extended threat detection through an integration with Red Hat Advanced Cluster security.

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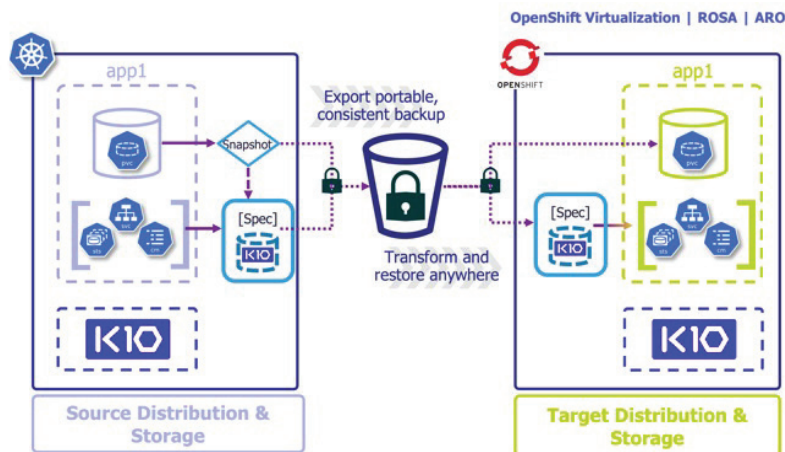
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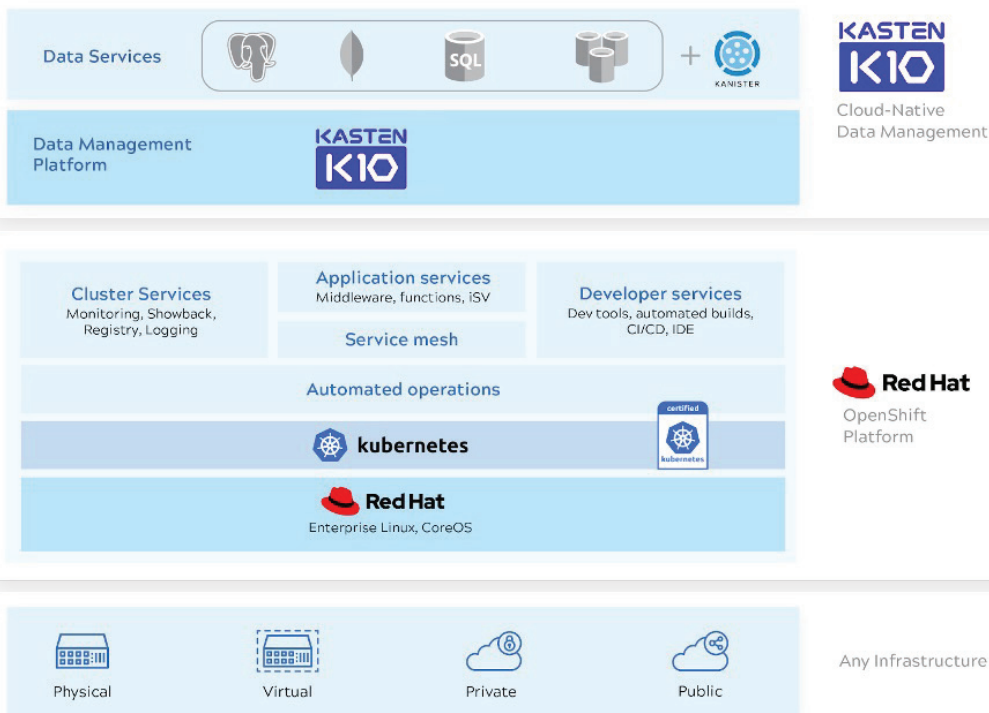
OpenShift Data Protection at Enterprise Scale

As adoption of Kubernetes expands, Red Hat and Kasten by Veeam are working together to make it easier to manage and protect your business-critical data.

Modern applications are composed of hundreds of discrete components with independent lifecycles only visible to Kubernetes, and only a native backup solution built to handle the number of components found in a large cluster will understand the relationships between applications, data, and their known Kubernetes state. Key capabilities of Kasten K10 on OpenShift include:

Auto Discovery of Container Applications

Because Kasten K10 is deployed as a Kubernetes-native application, it can seamlessly and dynamically interrogate Kubernetes namespaces or OpenShift Projects to discover newly deployed applications and even automatically protect them without having to configure additional policies or schedules. K10 allows you to restore the application components you want and where you want them, and applications can be cloned into a new or existing namespace.

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"As the number of containers running in production continues to increase, organizations need security and data protection capabilities that are able to scale with their deployments. Through our collaboration with Kasten by Veeam, we are providing customers with additional flexibility and choice in how they protect their Kubernetes workloads."

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Kirsten Newcomer
Director,
Cloud & DevSecOps Strategy,
Red Hat

Automated & Customizable Policies
Using configurable policies, Kasten K10 can automatically protect existing and newly provisioned workloads and export snapshot and backup data to an off-site location, such as Object or NFS File Storage. This enables organizations to embrace a mature backup and disaster recovery strategy. Kasten policies provide granular control over backup operations, such as frequency, retention, replication, and pre- and post-hook capabilities to ensure applications are protected in a crash-consistent manner. Operations teams can define multiple protection policy presets that specify parameters such as schedule, retention, location and infrastructure.

Simple Creation of Transform Sets
While OpenShift provides organizations with a common, easy-to-use control plane, the underlying infrastructure such as storage classes, ingress, and/or network routes can differ cluster-to-cluster or site-to-site. Kasten K10 allows administrators to create transform sets, where applications can be scaled up or down, spec data changed, or values updated during application migration or restoration.

Scalable Multi-Cluster Management
Kasten K10 can help you and your organization backup, recover, and move workloads among multiple K10 instances using a multi-cluster deployment. Administrators can define resources, such as Policies and Profiles within a single K10 web interface, and distribute them automatically to secondary instances, saving time, effort, and headache when managing workloads across multiple OpenShift or Kubernetes clusters.

Clean, Simple, and Easy to Use Interface
Red Hat OpenShift and Kasten K10 provide intuitive and powerful interfaces, allowing organizations to easily observe, manage, and configure their cloud-native applications and backup infrastructure through a few simple clicks. For every operation configured within K10, administrators and operators can view the equivalent Kubernetes-native YAML, making automation and integration a breeze. And because Kasten K10 can leverage OpenShift OAuth capabilities for access and identity management, users and administrators can ensure a consistent and secure experience across interfaces and clusters.

Get Started with Kasten K10 Today

- Access your free and fully featured edition of Kasten K10 for OpenShift

- Go directly to the Kasten K10 helm and operator install for OpenShift

- Learn more about Kasten K10 and OpenShift

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About Kasten by Veeam
Kasten K10, a Kubernetes data protection platform, provides teams with an easy-to-use, scalable and secure system for backup & restore, disaster recovery and application mobility.

About Red Hat
Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with award-winning support, training, and consulting services.

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1 888 REDHAT1	00800 7334 2835	+65 6490 4200	+54 11 4329 7300
www.redhat.com	europe@redhat.com	apac@redhat.com	info-latam@redhat.com