

# Kasten K10 Data Management Platform and Red Hat OpenShift

## Highlights

Deploy cloud-native Kubernetes backup and recovery with Kasten K10 and Red Hat OpenShift Data Foundation.

Install and deploy with Red Hat-certified K10 Operator available with OperatorHub in Red Hat OpenShift.

Employ policy-driven backups to automate data protection and improve compliance and service-level agreements.

Snapshot and clone persistent volumes and application metadata to one or more namespaces for backup or multiple Red Hat OpenShift clusters for [backup and disaster recovery](#).

Give developers the tools they need to clone applications and data for testing, production, and quality assurance.

Backup and restore all the components of an application without time-consuming guesswork.

## Kubernetes-native backup

Digital transformation and application modernization efforts are accelerating, with a corresponding move to hybrid cloud environments and cloud-native development. As organizations deploy workloads in Kubernetes, backup and recovery for cloud-native applications have become a top requirement. Together, [Kasten K10 by Veeam](#) with [Red Hat® OpenShift®](#) and [Red Hat OpenShift Data Foundation](#) provide a robust, efficient solution to adopt, deploy, and operate.

## Kasten K10 with Red Hat OpenShift and OpenShift Data Foundation

Organizations need flexibility to choose their infrastructure environments in public and private cloud, physical and virtual deployments. They also need to be able to choose between self-managed or cloud vendor-managed Red Hat OpenShift deployments. With Kasten K10 data platform management, Red Hat OpenShift, and OpenShift Data Foundation, they can do both with backup and disaster recovery support (Figure 1).

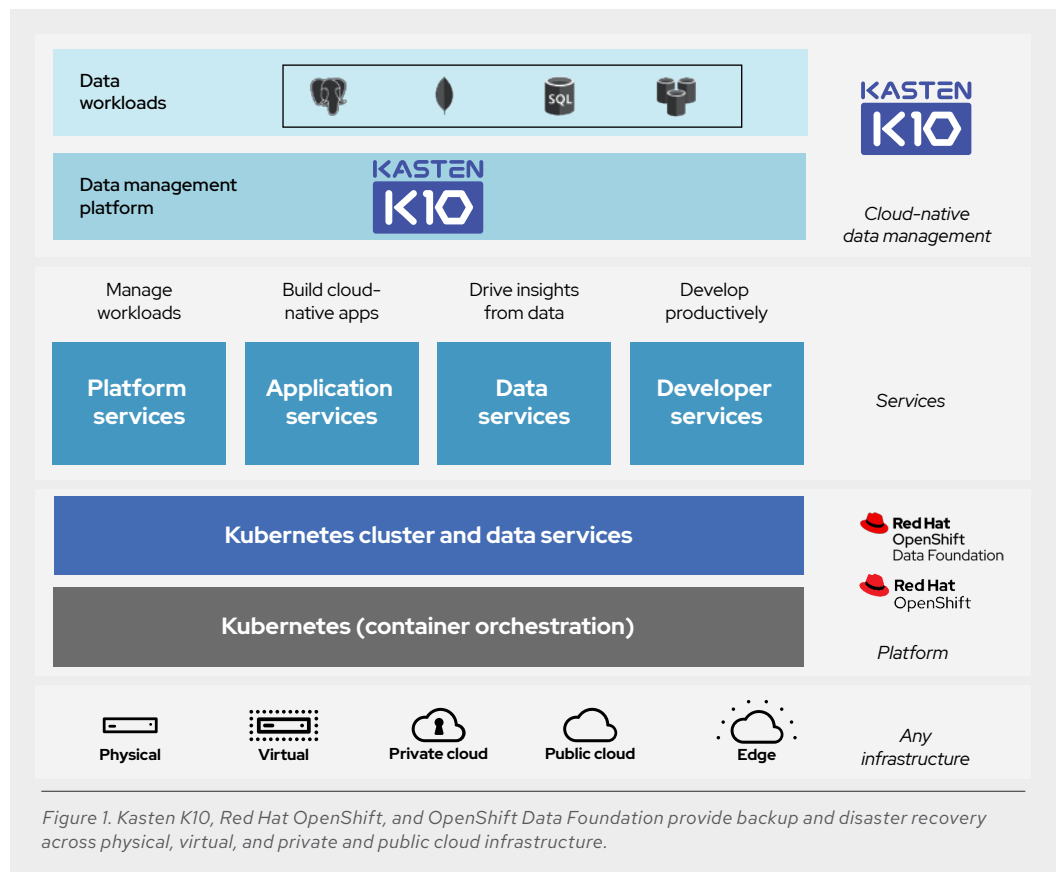


Figure 1. Kasten K10, Red Hat OpenShift, and OpenShift Data Foundation provide backup and disaster recovery across physical, virtual, and private and public cloud infrastructure.

## Tight integration with Red Hat OpenShift and OpenShift Data Foundation

While Red Hat OpenShift provides resiliency and high availability, regularly backing up applications can preserve the latest data and state. Backups done with automated policies allow you to rapidly recover from application misconfigurations or malicious attacks, such as ransomware. Backing up applications periodically in a different fault domain provides a necessary layer of protection and facilitates rapid disaster recovery.

Kasten and Red Hat have [worked closely](#) to integrate Kasten K10 into Red Hat OpenShift and OpenShift Data Foundation. The collaboration addresses DevOps compatibility, security, and application scale to handle the expectations of cloud-native environments. Together, Kasten and Red Hat provide benefits that include:

- ▶ **Efficient installation with a certified operator.** After rigorous testing, the [Kasten K10 Operator](#) is available on OperatorHub in Red Hat OpenShift, ensuring it is ready for more protected deployment in enterprise settings. This level of integration allows Red Hat to provide support for the entire container-based environment.
- ▶ **Deep integration for resilience and durability.** Kasten K10 uses the container storage interface (CSI) and application programming interface (API) available through OpenShift Data Foundation to provide snapshots and clones of persistent volumes (PVs) and application metadata, such as namespaces and secrets. Applications can be restored to a running application namespace while also being restored to a different namespace (or Red Hat OpenShift cluster) for test and quality assurance purposes.
- ▶ **Diverse workloads and freedom of choice.** With Kasten K10, you can choose from a wide selection of infrastructure providers with a consistent Red Hat OpenShift platform and experience across both private on-premise datacenters and public cloud environments. Kasten K10 Data Management Platform with OpenShift Data Foundation allows global application portability and protection policies without application or code changes.
- ▶ **Security and automation at scale.** Kasten K10 provides a production-ready data management solution that integrates into customer environments with many authentication tools. Policy-driven automation capabilities let you set up custom and default policies, helping meet service-level agreements (SLAs) across potentially thousands of applications.
- ▶ **Available on Red Hat Marketplace.** Kasten K10 is available to try, purchase, and deploy from [Red Hat Marketplace](#) allowing convenient and consolidated license management across multicluster environments and any cloud environment.

## A robust solution for enterprises

The combination of Kasten K10, Red Hat OpenShift, and OpenShift Data Foundation gives enterprises the confidence to run their applications at scale, with ongoing protection automated by policy. It is straightforward to reset an application to a known state with granular control of backup and restore capabilities for the entire application stack. Kubernetes applications can be recovered into another cluster, facilitating effective disaster recovery strategies.

## About Kasten by Veeam

Kasten by Veeam® is the leader in Kubernetes backup. Kasten K10 is a Cloud Native data management platform for Day 2 operations. It provides enterprise DevOps teams with backup and restore, disaster recovery and application mobility for Kubernetes applications. Kasten K10 features operational simplicity and integrates with relational and NoSQL databases, all major Kubernetes distributions, and runs in any cloud to maximize freedom of choice. Our customers are confident that their Kubernetes applications and data are protected and always available with the most easy-to-use, reliable and powerful Cloud Native data management platform in the industry. For more information, visit [www.kasten.io](http://www.kasten.io) or follow [@kastenhq](https://twitter.com/kastenhq) on Twitter.



## 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.

**f** facebook.com/redhatinc  
**t** @RedHat  
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**North America**  
1 888 REDHAT1  
[www.redhat.com](http://www.redhat.com)

**Europe, Middle East,  
and Africa**  
00800 7334 2835  
[europa@redhat.com](mailto:europa@redhat.com)

**Asia Pacific**  
+65 6490 4200  
[apac@redhat.com](mailto:apac@redhat.com)

**Latin America**  
+54 11 4329 7300  
[info-latam@redhat.com](mailto:info-latam@redhat.com)