

Kasten K10 Data Management Platform and Red Hat OpenShift Container Storage

Highlights

Deploy cloud-native Kubernetes backup and recovery with Kasten K10 and Red Hat OpenShift Container Storage.

Install and deploy easily with the Red Hat-certified K10 operator available in the Red Hat OpenShift OperatorHub.

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

Snapshot and clone persistent volumes and application metadata to one or more namespaces for backup or multiple Red Hat OpenShift clusters for backup or 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.



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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 move to deploy workloads in Kubernetes, backup and recovery for cloud-native applications has become a top requirement. Together, [Kasten K10 by Veeam](#) along with [Red Hat® OpenShift®](#) and [Red Hat OpenShift Container Storage](#) provide a robust solution that is easy to adopt, deploy, and operate.

Kasten K10 and Red Hat OpenShift Container Storage

Organizations need flexibility to choose their infrastructure environments—public, private, or on-premise, physical or virtual. 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 Container Storage, they can do both with seamless backup and disaster recovery support (Figure 1).

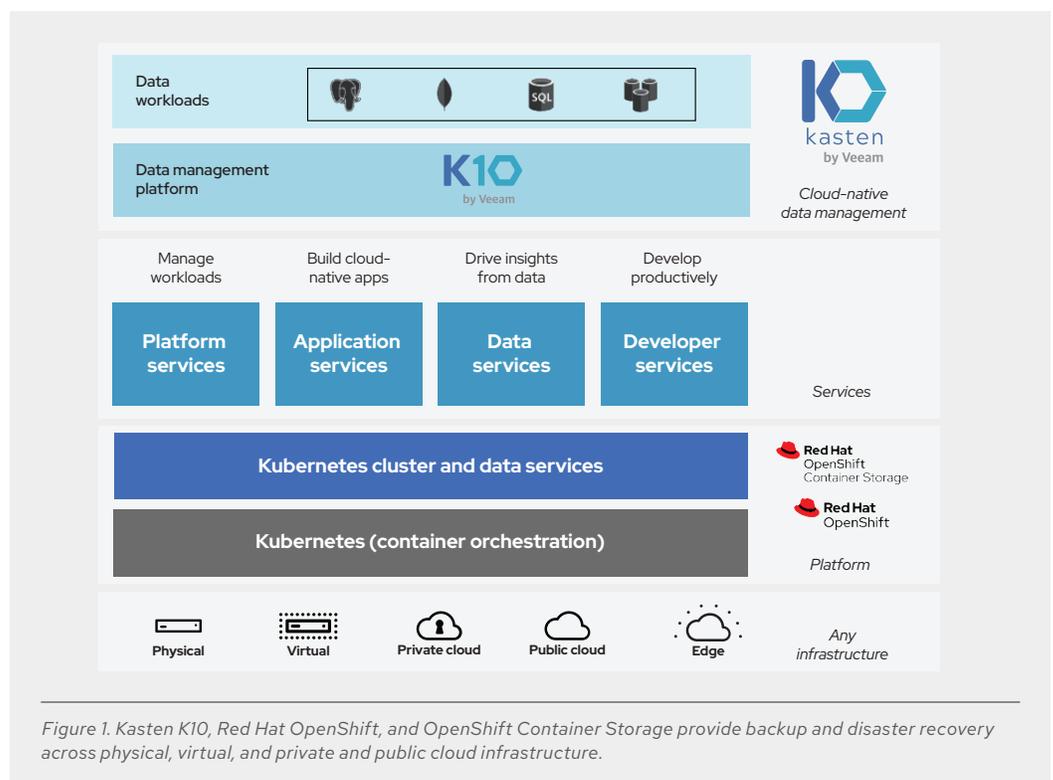


Figure 1. Kasten K10, Red Hat OpenShift, and OpenShift Container Storage provide backup and disaster recovery across physical, virtual, and private and public cloud infrastructure.

OpenShift Container Storage enables IT organizations to use their existing infrastructure to support Kubernetes applications.

About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.



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Tight integration with Red Hat OpenShift and OpenShift Container Storage

While Red Hat OpenShift provides resiliency and high availability, applications must also be regularly backed up to preserve the latest data and state. Backups done with automated policies allow you to rapidly recover from application misconfigurations or malicious attacks (e.g., 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 K10 into Red Hat OpenShift and OpenShift Container Storage. The collaboration is specifically intended to address DevOps compatibility, security, and application scale to handle the expectations of cloud-native environments. The joint collaboration provides benefits that include:

- ▶ **Easy installation with a certified operator.** After rigorous testing, the K10 operator is available on the Red Hat OpenShift OperatorHub, ensuring that it is ready for more secure 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) API available through OpenShift Container Storage to provide snapshots and clones of persistent volumes (PVs) and application metadata (e.g., 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 clouds. Kasten's K10 Data Management Platform coupled with OpenShift Container Storage 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 a wide choice of authentication tools. Policy-driven automation capabilities let you set up custom and default policies, helping to meet service-level agreements (SLAs) across potentially thousands of applications.

Conclusion

The combination of Kasten K10, Red Hat OpenShift, and Red Hat OpenShift Container Storage gives enterprises the confidence to run their applications at scale, with ongoing protection automated by policy. It is easy 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 easily recovered into another cluster, facilitating effective disaster recovery strategies.

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