Kasten K10 for Kubernetes

#1 Kubernetes Backup

Purpose-built for Kubernetes, Kasten K10 data management platform provides enterprise operations teams an easy-to-use, scalable and secure system for backup/restore, disaster recovery and application mobility of Kubernetes applications. Kasten K10’s application-centric approach and deep integrations with relational and NoSQL databases, Kubernetes distributions and clouds provide teams freedom of infrastructure choice and maximum operational simplicity.

**Challenge**
Easily backing up and efficiently protecting a growing number of cloud native applications.

**Backup and Restore**
Protect your cloud native applications and business-critical data by deploying a truly Kubernetes-native backup solution.

**Disaster Recovery**
Use automated policies to manage how backups are securely replicated off-site and will meet business and regulatory requirements.

**Application Mobility**
Move entire applications between clouds and on-premises for test/dev, load balancing and upgrades.

**Key capabilities**

**Built for Kubernetes**

- **Kubernetes-native**: Kasten K10 is purpose-built for Kubernetes and constructed with cloud native architectural principles.
- **Application-centric**: Captures the entire application stack by taking a consistent application-to-infrastructure view.
- **Full-spectrum consistency**: Enables you to choose consistency levels while protecting data and the use of eventually consistent databases

**Easy to Use**

- **Deployment and versatility**: Kasten K10 is quick to deploy and easy to use through a state-of-the-art management interface or a cloud native API. Kasten K10 has the versatility to easily accommodate complex applications.
- **Auto discovery**: Automatically scans the environment upon deployment and identifies all the applications that need protection.
- **Policy driven**: Supports automated protection policy to support service level agreements (SLAs) and compliance needs.

**Security Everywhere**

- **Authentication**: Out-of-the-box support for Kubernetes authentication classes
- **Authorization**: Kasten K10 supports and extends Kubernetes-native role-based access control (RBAC)
- **Encryption**: End-to-end encryption of applications, configurations, data and associated metadata artifacts both in flight and at rest.

**Rich Ecosystem**

- **Data services**: Supports all leading applications and data sources (e.g., Cassandra, MongoDB, Kafka, Amazon RDS, etc.)
- **Distributions**: Kubernetes distributions (e.g., Red Hat OpenShift, Amazon EKS, VMware Tanzu, Azure AKS, Google GKE, etc.)
- **Storage**: Cloud storage (e.g., AWS, Google, Azure) and on-premises (e.g., EMC, NetApp, etc.) including immutability for ransomware protection

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Kasten K10 is a Kubernetes-native, mature solution that's very suitable for self-hosted, self-managed use cases. Its architecture scales well and is especially well-suited for edge deployments. Its RBAC features and centrally managed policy model are well aligned with large enterprise and self-service requirements. Its 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, GigaIom, December 2021

“We chose Kasten K10 for our Kubernetes backup and recovery solution because of its extensibility, and cloud native architecture, and because it's purpose-built for Kubernetes. Out of all the solutions we evaluated, Kasten K10 fit best into our infrastructure.”

— Mark Lehmann, Director ARIS, Governance and Cloud, Software AG