

# Kasten K10 - #1 Backup for Kubernetes

## Kubernetes is becoming the leading enterprise application platform

Applications using micro-service based architectures and containers have quickly gained traction in the enterprise - an evolution from earlier monolithic models and virtualization. Innovators who make this transition choose Kubernetes as their container orchestrator. As such, Kubernetes is the fastest-growing infrastructure software.

Kubernetes provides high availability and scalability of application services, but these benefits do not extend to customer data. Data and application protection is a critical priority for Kubernetes workloads. Enterprises must extract data from the Kubernetes environment and store it securely while addressing “Day 2” production challenges.

## Kasten K10 enables Kubernetes native data management

Kasten K10 provides enterprise operations teams an easy-to-use, scalable, and secure system for backup/restore, disaster recovery and application mobility of Kubernetes applications.

## Use cases

### Backup & Recovery

Multi-tenancy, RBAC, Scale, Performance, Polyglot Persistence

### Disaster Recovery

Cross-AZ and Region, Multi & Hybrid Cloud, Storage Transforms

### Application Mobility

Cluster Upgrades, Application Transforms, Test/Dev Clusters

## Why Kasten K10: Kubernetes Native Advantages

**The Kubernetes platform** is fundamentally different from all earlier compute infrastructures. It uses its own placement policy to distribute application components. Containers can be dynamically rescheduled or scaled. New application components can be added or removed at any time.

**A data management solution** needs to understand this cloud native architectural pattern, be able to work with a lack of IP address stability and deal with continuous change.

**Kasten K10** was purpose-built for Kubernetes and provides enterprise operations teams an easy-to-use, scalable and secure system for backup/restore, disaster recovery and mobility of Kubernetes applications.

### Built for Kubernetes

Purpose-built for Kubernetes using cloud native architectural principles

### Ease of Use

State-of-the-art multi-cluster management interface; cloud native API, easy install, extensible

### End-to-End Security

Support for RBAC, OIDC, Token Auth, IAM, and industry-standard encryption as well as data immutability to defeat ransomware attacks and avoid accidental or malicious deletion

### Rich Ecosystem

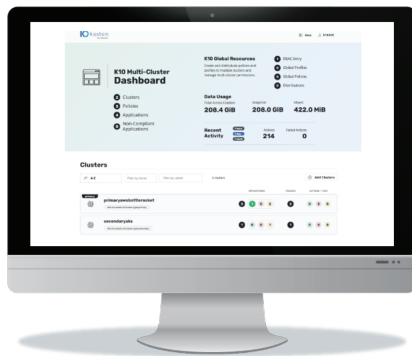
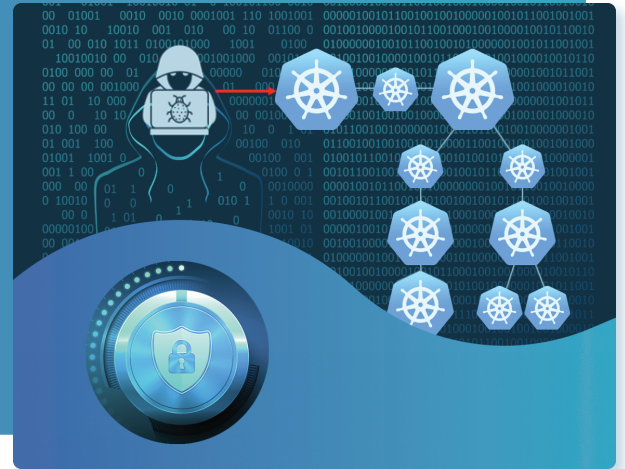
Extensive support across the entire application stack. Select the best tools or infrastructure

## New in Kasten K10 4.0

### Ransomware Protection

Kasten K10 v4.0 delivers the industry's first Kubernetes native ransomware protection capabilities, providing much-needed immutability against all ransomware attacks and accidental or malicious deletions of backups.

Further enterprise-grade security enhancements include fine-grained access control on the multi cluster manager that enables administrators to control which clusters a user and/or group can access/ manage.



### Ease of use enhancements

- Application scoped policies enabling non-administrators to create Kasten K10 policies in an application's namespace for protecting only that specific application
- Operations automation and efficiency enhancements that leverage intelligent policies, stackable K10 licensing and automatic sidecar injections
- Simplified backup and restore using CSI snapshots and small volume support

### Rich Ecosystem Support

- Expanded ecosystem integrations with support for HPE Ezmeral Container Platform, Nutanix Karbon, Red Hat Open- Shift, Microsoft Azure Stack and backup to NFS targets
- New data service blueprints - backup/restore of Kafka and Aurora environments
- Optimized data services for compression, deduplication and encryption of logical, incremental database backups

