KASTEN
by Veeam

Kasten K10 V6.5
Cloud Native Security and Enterprise Scale Kubernetes

Kasten K10 provides Kubernetes native data protection. It enables seamless backup and restore, disaster recovery, and application mobility for Kubernetes applications at scale. With Kasten by Veeam, teams achieve radical resilience against ransomware attacks.

Enterprises remain committed to adapting to dynamic shifts in the security landscape, purposefully safeguarding Kubernetes applications and data. Fortunately, Kasten actively develops high-security, efficient solutions, tailored for various security challenges. Deploying Kasten K10 from the hardened container registry, Iron Bank, offered through Platform One, ensures a secure chain of ownership, vital for data protection in government and financial organizations.

In addition to data protection, customers can trust that Kasten by Veeam provides a scalable solution. Despite over 85% Kubernetes adoption across enterprises today*, the platform's true potential unfolds as organizations deploy applications at full scale. Kasten's relentless innovation solidifies its position as the #1 Kubernetes data protection solution for secure large-scale deployments.

•"Measuring the Current State and Momentum in the Enterprise Market for Kubernetes Protection", ESG 04/23

Why legacy backup fails Kubernetes workloads

- Volume backup does not fully protect cloud native applications and data

- Protecting cloud native workloads with traditional backup solutions increases management cost

- Traditional software tools lack visibility into Kubernetes applications and data

- Legacy backup solutions do not scale with your enterprise Kubernetes workloads

- Standard backup does not protect your Kubernetes applications / workloads against ransomware attacks

Kasten K10 Use Cases

Backup & Restore
Protect your cloud native Kubernetes and VM applications, while preserving your business-critical data

Disaster Recovery
Manage how backups are replicated off-site to meet business and regulatory requirements

Application Mobility
Move applications between clouds and on-premises for test/dev, load balancing, data management and upgrades

Ransomware Protection
Protect your Kubernetes platform during cyberattacks to preserve business continuity

Why Kasten K10: Kubernetes Native Data Protection

Kasten K10 is a Kubernetes native data protection platform that provides enterprise operations teams an easy to use, scalable and secure system for backup and restore, disaster recovery and application mobility of Kubernetes applications. With Kasten by Veeam, teams achieve radical resilience against ransomware attacks.

Application Centricity: Kasten K10 automatically scans the environment, discovering all applications and associated artifacts to protect, as well as any changes to the environment.

Ease of Use: An intuitive UI and feature-rich dashboard enables users to easily create and manage policies and perform self-service restores of applications and data.

Freedom of Choice: Kasten's ecosystem focus enables seamless support for storage and data services within and across clusters, regions and cloud, neatly abstracting infrastructure complexity.

Observability: Out of the box, cloud native monitoring, reporting and alerting, an intuitive UI, and a feature-rich dashboard that enables users to easily monitor, log and trace their applications.

Enhanced Extensibility: Kasten K10's Kubernetes native APIs enable easy integration with your preferred Kubernetes tools.

Security Everywhere: Kasten K10 provides comprehensive end-to-end security via enterprise-grade features including ransomware protection, Kubernetes native RBAC and always-on encryption.

Kasten K10 Unique Value

Data Security
Multi-layered security keeps your data always protected

Data Recovery
Recover exactly what, when, and where you need it

Data Freedom
Protect all your data anywhere, any way, with application mobility and zero lock-in

How Kasten K10 Works

Discover
Automated discovery of your Kubernetes application

Protect
Secure your Kubernetes application and data

Restore
Quickly and effectively restore your Kubernetes application and data

Quick to deploy and easy to use via a state-of-the-art management interface or a Cloud Native API. Enables DevOps team agility to identify and protect system applications.

Spotlight: New in Kasten K10 V6.5

Kasten K10 V6.5 delivers cloud native security at enterprise scale to seamlessly protect hundreds of Kubernetes clusters and applications. The cloud native ecosystem richness of Kasten K10 is strengthened so that Kubernetes teams can focus on application and service delivery to preserve business continuity. New features include:
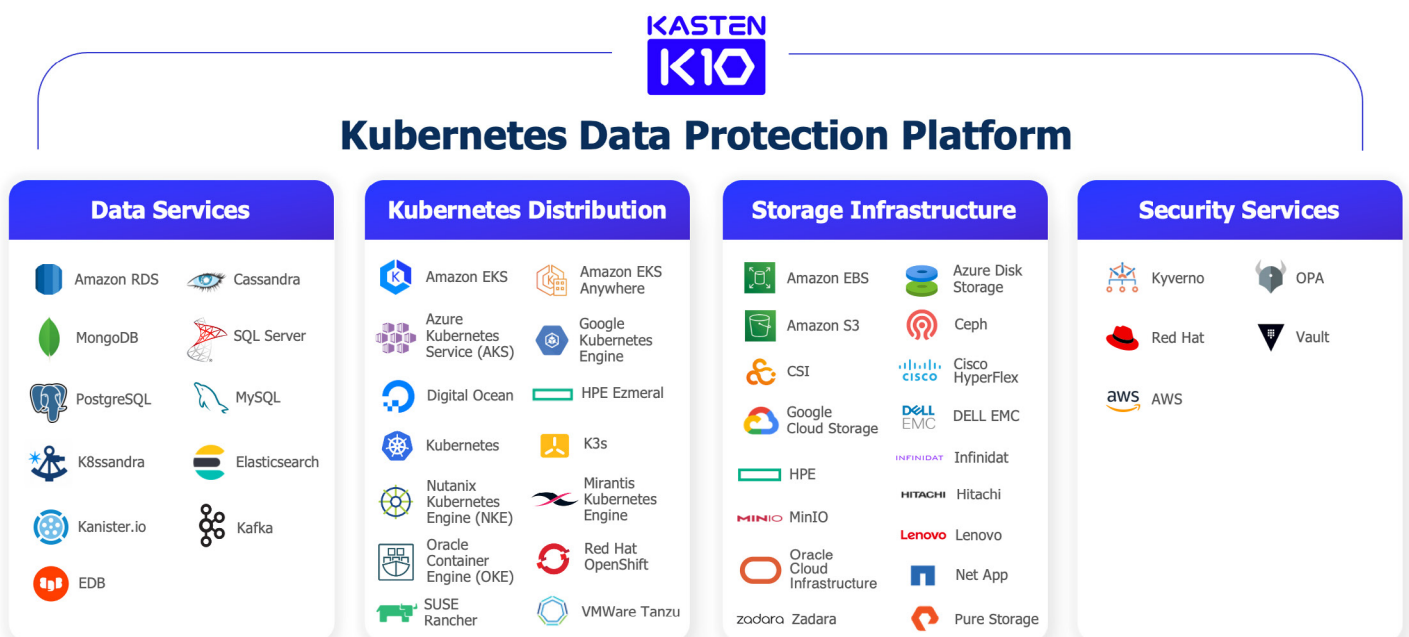
Cloud Native Security

Supply chain application protection to deploy Kasten K10 from the preeminent security of Platform One Iron Bank container registry. Platform One serves the interests of federal, DoD, financial institutions, and high security global institutions.

Enterprise Scale

Multi-cluster management enhancement for service providers and large corporate groups to maintain and service numerous isolated entities. Accordingly, each separated client is consuming single or multi-cluster platform services.

Multi-application restore from most recent available backup or select a time range. Easily restore multiple applications concurrently. Optionally perform data-only restorations, and apply bulk transforms to adapt a restoration to a new environment.

Raw block backup and restore expands the data protection umbrella to workloads that require block-mode disks, often high-performance data services and OpenShift Virtualization VMs. Protect these workloads together with filesystem-mode data across an entire environment from a single pane of glass.

KASTEN K10

Kubernetes Data Protection Platform

Data Services

- Amazon RDS
- Cassandra
- MongoDB
- SQL Server
- PostgreSQL
- MySQL
- K8ssandra
- Elasticsearch
- Kanister.io
- Kafka
- EDB

Kubernetes Distribution

- Amazon EKS
- Amazon EKS Anywhere
- Azure Kubernetes Service (AKS)
- Google Kubernetes Engine
- Digital Ocean
- HPE Ezmeral
- Kubernetes
- K3s
- Nutanix Kubernetes Engine (NKE)
- Mirantis Kubernetes Engine
- Oracle Container Engine (OKE)
- Red Hat OpenShift
- SUSE Rancher
- VMWare Tanzu

Storage Infrastructure

- Amazon EBS
- Azure Disk Storage
- Amazon S3
- Ceph
- CSI
- Cisco HyperFlex
- Google Cloud Storage
- DELL EMC
- HPE
- Infinidat
- MinIO
- Hitachi
- Oracle Cloud Infrastructure
- Lenovo
- Zadara
- Net App
- Pure Storage

Security Services

- Kyverno
- OPA
- Red Hat
- Vault
- AWS

Kasten K10 is the leading integrated data protection platform for Kubernetes

Kasten K10 Top Features and Benefits

Category	Features	Benefits
Security Everywhere Don't be a victim -- treat data protection as a Day 0 operation	**Ransomware Protection** **Secure Access** **Security Ecosystem**	Granular RBAC controls deliver secure self-service across teams & personas and provide auditing to track changes to the environment. Secure operations are achieved with available integrations for industry-leading SIEMs, Policy-as-Code, & key management tools.
Reliable Backup and Fast Recovery 100% Kubernetes-native solution for protecting your cloud native apps	**Simple Recovery** **Intelligent Policies** **Extensible Blueprints**	Quickly recover complete applications or individual artifacts in-place, as a clone, or to another cluster. Support enterprise-scale operations with intelligent automation for job scheduling and workload identification. Enable customizable application consistency for your Kubernetes workloads.
Gain Application Freedom They are your applications, run them where you want	**Transforms** **Diverse Workloads** **Freedom of Choice**	Application mobility for hybrid/multi-cloud Kubernetes across different distributions, clouds and infrastructure. Accelerate application transformation by extending data protection support to workloads such as VMs on Kubernetes and cloud-hosted databases. Agnostic software solution with the industry's broadest ecosystem of supported distributions, infrastructure & applications.

Kasten by Veeam® is the leader in Kubernetes backup and disaster recovery. Its solution helps enterprises overcome Day 2 data protection challenges to confidently run applications on Kubernetes. Kasten K10, its data protection platform purpose-built for Kubernetes, provides enterprise operations teams an easy-to-use, scalable, and secure system for backup and restore, disaster recovery, and application mobility with unparalleled operational simplicity. With Kasten by Veeam, teams achieve radical resilience against ransomware attacks. For more information, visit **www.kasten.io** or follow **@KastenHQ** on X.

Resources