kasten by Veeam

aws

SOLUTION BRIEF

Kubernetes Application Backup and Mobility for AWS Bottlerocket

Application-Centric, Cloud-Native Data Management

Kasten K10 by Veeam data management platform helps you seamlessly implement backup and recovery, disaster recovery, and application mobility on Bottlerocket, an open-source OS for containers by Amazon Web Services (AWS).

KEY SOLUTION BENEFITS

APP-CENTRIC
Relational and NoSQL
Block, File, and Object
Multi-Layer Consistency

EASE-OF-USE
Software Only,
Simple Dashboard,
Policy-Based Workflows

SECURE
RBAC, Token Auth and
OpenID Connect (OIDC),
End-to-End Encryption

KUBERNETES-NATIVE
Built for Kubernetes,
On-Prem, Public,
and Hybrid Clouds

Kasten K10 is available on AWS Marketplace for a simple install and flexible billing options including free tiers and pay-as-you-go.

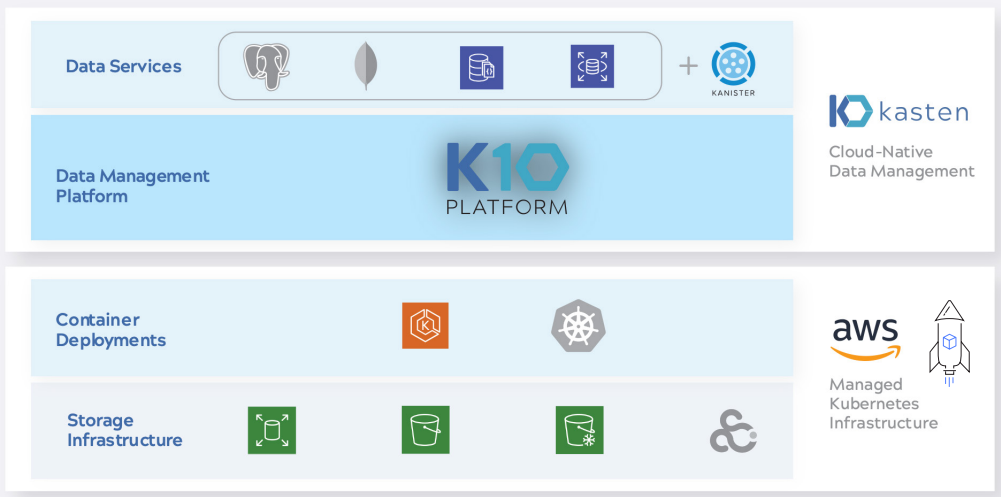
www.kasten.io/try-kasten-k10

KUBERNETES BACKUP ESSENTIAL FOR COMPLIANCE AND RISK MANAGEMENT

Cloud-native technologies like Kubernetes and operational practices including GitOps deliver significant benefits, such as feature velocity and productivity. However, backup remains a critical requirement, not only for regulatory and compliance reasons but also as the last line of defense against an increasingly hostile cyber environment. Existing data management solutions are not designed for cloud-native environments and don't provide sufficient visibility or resiliency. For reliable backup, recovery and mobility, a Kubernetes backup solution must be able to capture and restore the application's data in context with the application itself.

Kasten K10 data management platform is built natively for containers and enables enterprises to confidently run stateful applications on Kubernetes. It uses a unique application-centric approach to help operations teams with their backup/recovery, disaster recovery, and application mobility requirements, while maintaining the simplicity and portability that IT and Operations teams need to operate cloud-native applications. With Kasten K10, you can easily backup and restore entire applications, recover applications in another cluster, region or cloud, and move applications across unfederated clusters in a secure, scalable manner.

DATA MANAGEMENT WITH KASTEN AND AWS BOTTLEROCKET



Purpose-built for Kubernetes, Kasten K10 can be seamlessly deployed with Amazon EKS. The solution's application-centric approach and deep integrations with relational and NoSQL databases, storage systems and Kubernetes distributions provide backup/restore and mobility of your entire Kubernetes application with exceptional operational simplicity.

Kasten K10 runs on AWS and is integrated with several AWS services, including Amazon EBS, Amazon RDS, and IAM. The platform is extensible and pre-integrated with popular relational and NoSQL data services, enabling development and operations teams to create policy-based automation and achieve desired levels of consistency across their applications at scale. Enterprises can use Kasten K10 to perform critical functions such as application-centric backup and granular recoveries of their Kubernetes applications running on AWS with Amazon EKS, as well as other Kubernetes distributions such as Red Hat OpenShift.

BACKUP, RECOVERY, AND MOBILITY ON AWS BOTTLEROCKET

› **Minimize Risk by Reducing the Attack Surface.**
Bottlerocket reduces the software included in the OS, eliminating components that can be used in executing or escalating an attack, such as a shell, interpreters like Python and even SSH. Kasten K10's deep integration with AWS services such as Amazon EBS, Amazon RDS, AWS IAM as well as RBAC for secure operations and end-to-end encryption further enhances the security posture.

› **Accelerate Development with Application-Level Awareness.**
Kasten's data management solution works with an entire application, not just the infrastructure or storage layers. This allows your operations team to scale by ensuring business policy compliance at the application level, providing more power and control while accelerating development cycles.

› **Simplify Operations with Automated Workflows.**
Bottlerocket uses an image-based update system instead of package-by-package updates, to make the operating system more consistent and predictable. Kasten K10 provides policy-driven automation that includes forward-looking backup and disaster recovery policies, enabling automatic application protection upon introduction to the Kubernetes cluster.

› **Protect Applications without Developer Overhead.**
With Bottlerocket, developers can take existing containers and run them without modification. Kasten K10 automatically discovers all the application components running on your cluster -- including the state that spans across storage volumes, databases (NoSQL/Relational), and configuration data included in Kubernetes objects such as config maps and secrets -- without any development changes, providing seamless protection.

› **Enjoy Rapid Deployment and Ease of Use.**
Kasten K10 can be self-deployed within minutes on AWS Bottlerocket and on-premises Kubernetes installations, without professional services. It provides an easy-to-use interface and Kubernetes-integrated API, along with integrated monitoring and support for enterprise authentication and authorization schemes.

› **Enable Multiple Use Cases with Seamless Migration.**
The ability to move an application across clusters enables a variety of use cases including Disaster Recovery (DR), Test/Dev with realistic data sets and performance testing in isolated environments. Kasten K10 is built to support seamless application migration and mobility in a variety of different and overlapping contexts -- across namespaces, clusters, clouds, cloud accounts and regions.

Kasten by Veeam
Kasten is an independent Kubernetes Business Unit within Veeam, and the award-winning leader in Kubernetes Backup and Disaster Recovery. Kasten helps enterprises overcome Day 2 data management challenges to confidently run applications on Kubernetes. Kasten K10, a data management platform purpose-built for Kubernetes, provides enterprise operations teams an easy-to-use, scalable, and secure system for backup/restore, disaster recovery, and application mobility with unparalleled operational simplicity.

For more information, visit us at kasten.io or follow us on Twitter at @kastenhq.