

SOLUTION BRIEF

Backup and Recovery in Azure Kubernetes Service (AKS) with Kasten K10
Application-Centric, Cloud-Native Data Management

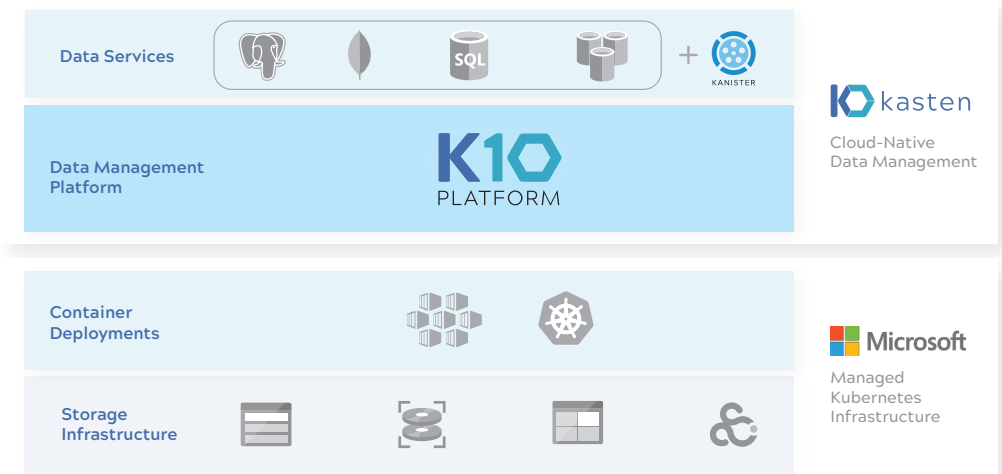
Kasten provides a solution that helps you seamlessly implement **backup and recovery, disaster recovery, and application mobility** for your cloud-native applications.

RISK: DATA LOSS IN CLOUD-NATIVE APPS

The rapid growth in cloud-native applications has exposed enterprises to malicious or accidental data loss. Existing data management solutions were not designed for cloud-native environments that bring different scheduling, visibility and resiliency behaviors when compared to traditional virtualization software. It is critical to implement day 2 data management services for cloud-native applications to protect against data loss.

Kasten provides a novel backup and recovery solution that keeps the application as the unit of atomicity while simplifying data management operations and maintaining consistency. Kasten K10, not only operates within the Azure Kubernetes Service (AKS) but can also migrate Kubernetes-based applications between AKS and on-prem environments.

DATA MANAGEMENT WITH KASTEN AND AZURE



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



CLOUD-NATIVE

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

KASTEN K10: A CLOUD-NATIVE DATA MANAGEMENT PLATFORM

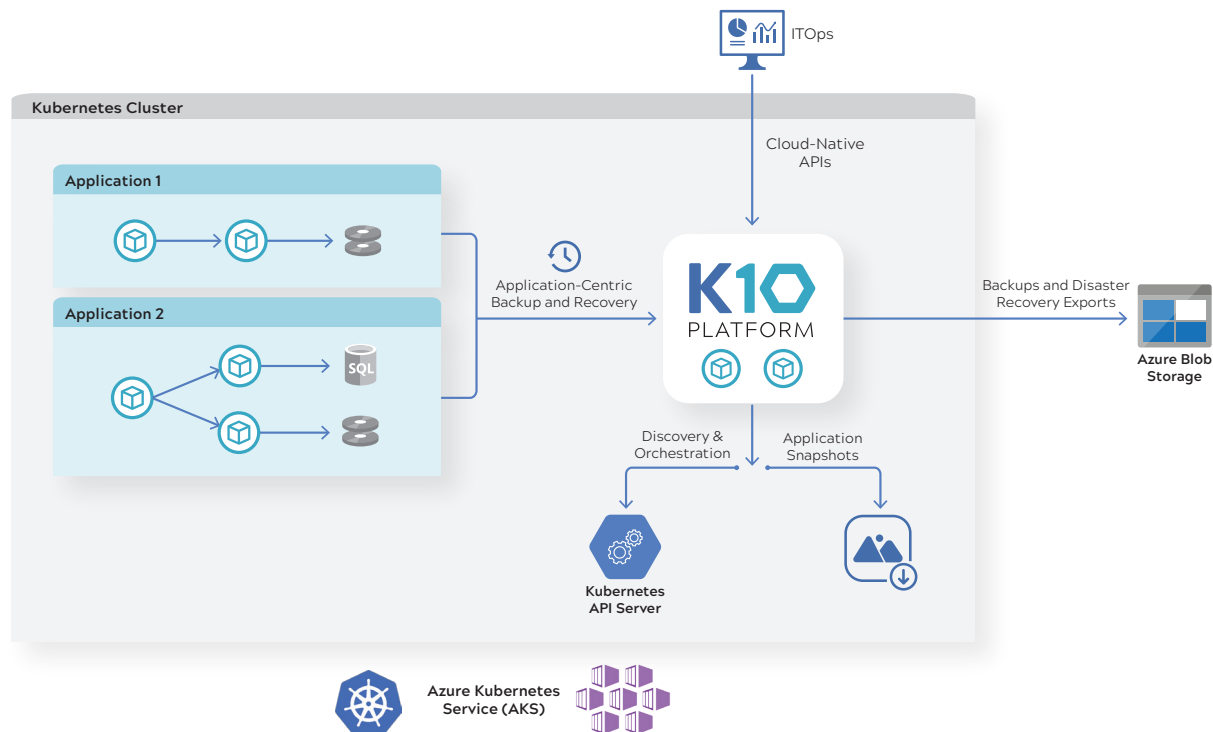
K10, Kasten's data management platform, is built natively for containers and enables enterprises to confidently run stateful applications on Kubernetes. K10 uses a unique application-centric approach to help operations teams with their backup/recovery, disaster recovery, and application mobility requirements. Kasten's application-centric approach maintains the simplicity and portability that IT and Operations team need to operate cloud-native applications that, under the hood, use multiple data services and are instantiated across multiple clusters, regions or clouds.

K10 is extensible and is also pre-integrated with popular relational and NoSQL data services. This provides the development and operations teams the capabilities to create policy-based automation to achieve their desired consistency levels across their applications at scale. An extremely easy-to-use user interface along with a Kubernetes-integrated API, integrated observability and monitoring, and support for enterprise authentication and authorization schemes such as OIDC and RBAC allows for frictionless operations.

GET STARTED

Use K10 today
<https://kasten.io/product/>

Request a K10 demo:
<https://kasten.io/demorequest/>



BACKUP AND RECOVERY WITH KASTEN K10 ON AZURE

SOLUTION HIGHLIGHTS

- Protect Applications without Developer Overhead:** Without requiring any developer or CI/CD pipeline changes, K10 auto-discovers applications, adapts to changes, and dynamically maps policies to the current state of the application running on AKS clusters.
- Easy-to-Deploy Software-Only Platform:** The software-only K10 data management platform can be self-deployed within minutes on Azure and on-premises Kubernetes installations. It also requires no training or professional services.
- Reliable Policy-Based Backup Workflows:** K10 manages backups at scale through automation and dynamic policies. This avoids the need for custom scripting and allows you to easily create broad policies for data management compliance.
- Native Azure Storage integration:** Azure's storage solutions provide secure, fast, and scalable persistence for a wide range of workloads. Kasten K10's direct Azure Storage integration preserves these benefits without paying the penalty of additional abstractions such as overlay storage systems.
- Improved Time to Market:** Azure's global footprint and managed disks coupled with Kasten K10's powerful workflows and centralized management significantly reduce time spent on data management tasks and managing storage infrastructure.
- Seamless Operations** K10 enables Disaster Recovery workflows across Azure including cross-region application migration. On-premises Kubernetes clusters are also supported with seamless data conversion between infrastructure formats when needed.



289 S. San Antonio Road
Suite 204
Los Altos, CA 94022
United States

+1 (415) 851-1767
info@kasten.io
www.kasten.io

Kasten is on a mission to dramatically simplify the operational management of stateful cloud-native applications. Our K10 data management platform, natively built to run on Kubernetes in all public, private, and hybrid cloud environments, uses a powerful application-centric approach that abstracts away infrastructure complexity and improves application and system resiliency while also dramatically improving operations efficiency.

For more information, visit us at [kasten.io](https://www.kasten.io) or follow us on Twitter at @kastenhq.