Leading Financial Services Provider Uses Kasten K10 for Backup and Disaster Recovery

K10 PLATFORM

Amazon EKS

ENVIRONMENT

- Elastic Kubernetes Service (EKS)
- Elastic Block Store (EBS)
- Simple Storage Service (S3)
- MongoDB/PostgreSQL
- Prometheus

CHALLENGES

- Teams new to Kubernetes
- VM-based solutions inadequate
- Strict compliance requirements for production Kubernetes deployments

SOLUTION

- Simple and easy-to-use software-only solution
- Flexible, policy-based, granular data protection
- Secure, including support for AWS IAM Roles

RESULTS

- Shorter time to production
- Future-proofed data protection architecture easily able to handle new workloads

ABOUT THE CUSTOMER

The customer, one of the world's largest companies, operates at a global scale and helps millions of customers with financing, leasing, payment protection, and insurance offerings.

To help take its IT agility and efficiency to the next level, the customer is adopting Kubernetes to power its next-generation IT architecture. They have chosen to use Amazon Web Services as their cloud platform and are using multiple services including Elastic Kubernetes Service (EKS), Elastic Block Storage (EBS), and Simple Storage Service (S3). From a data services perspective, their applications are based on MongoDB and PostgreSQL, and monitoring is provided via Prometheus.

CRITICAL NEED TO PROVIDE DATA MANAGEMENT FOR KUBERNETES

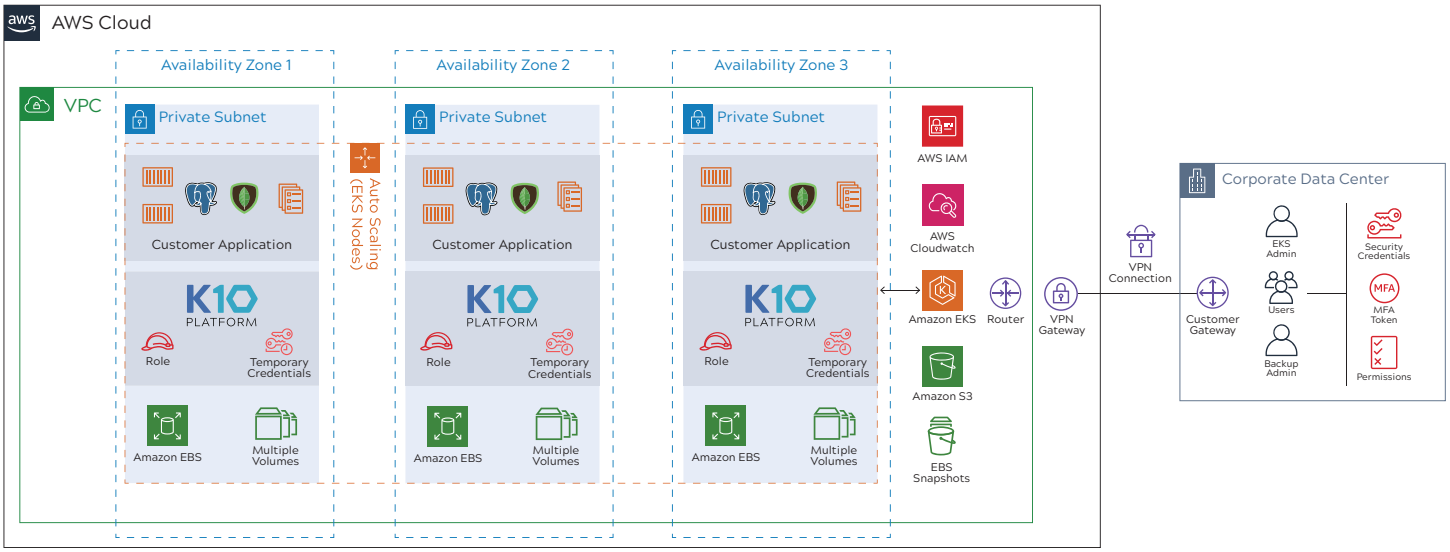
The IT operations team responsible was new to Kubernetes. They had tried various other approaches, including legacy backup software, to address their backup and disaster recovery concerns and had found them wanting. The team members spanned multiple groups and included Kubernetes administrators, backup administrators, database administrators, application owners, and security teams. In addition to time to production, security was a key consideration with support needed not just for AWS IAM, but also for RBAC and AWS IAM Roles.

The team required a reliable and flexible platform to deliver various data protection use cases including backup & restore, disaster recovery (including cross-region DR), point in time recovery, partial application recovery, and file-level recovery. They also required the ability to retain data beyond the time limits supported by the cloud provider.

CLOUD-NATIVE DATA MANAGEMENT WITH KASTEN

In comparing Kasten K10 with VM-based solutions and options based on a software-defined storage approach, the IT operations team preferred K10 both from a functional capability and an operational simplicity perspective. They found its application-centric approach and strong alignment with Kubernetes extremely compelling. K10's ease of deployment and use resulted in the team achieving their data protection objectives within days.

K10's extensive security capabilities including support for RBAC, IAM roles, air-gapped environments, and end-to-end encryption were key differentiators that helped address security and compliance requirements for production Kubernetes use.



AWS DEPLOYMENT ARCHITECTURE WITH KASTEN K10

KEY BENEFITS

- **Ability to Work with Dynamic Applications Without Developer Overhead:** Without requiring any developer changes, K10 auto-discovers applications, adapts to changes, and dynamically maps policies to the current state of the application.
- **Easy to Deploy and Use Software-Only Platform:** The K10 data management platform can be deployed within minutes. It is easy to use via a state-of-the-art management interface or via a cloud-native API.
- **Policy-Based Backup Workflows:** K10 manages backups at scale through automation and dynamic policies. This avoids the need for custom scripting and allows operations teams to easily create both broad and custom policies for data management compliance.
- **Future-Proofed Data Protection:** K10 can support not only the currently deployed data services but can also easily be extended to address ones that will likely be deployed by the developers in the future.
- **Improved Time to Market:** K10's powerful workflows, low management overhead, advanced web-based user interface, and centralized monitoring support significantly reduced time spent on data management tasks and managing storage infrastructure.
- **Secured Data:** K10 provides support for various enterprise security needs including AWS IAM (including IAM Roles), RBAC, air-gapped environments, and end-to-end encryption.
- **Multi-Layer Data Capture:** The ability of K10 to capture the entire application stack by taking a consistent application-to-infrastructure view solves a critical need for compliance and restore testing. This includes the ability to take application-consistent snapshots, logical dumps, and more complex application-level capture mechanisms.

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About Kasten
Kasten is tackling Day 2 data management challenges to help enterprises 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 mobility with unparalleled operational simplicity.