



Transform, Migrate, and Secure Applications on Red Hat OpenShift on AWS (ROSA)

Easy to implement backup and DR with app mobility and ransomware protection from Kasten by Veeam

Red Hat Software Partner



Kasten by Veeam delivers reliable backup & recovery for Kubernetes application data, while simplifying the transformation and migration of workloads to an agile ROSA environment.

- ▶ Solidify your last line defense against ransomware with immutable backups and recovery orchestration.
- ▶ Employ policy-driven backups to automate data protection and improve compliance and service-level agreements.
- ▶ Recover from disasters or attacks with near-zero RTO through granular restores and fast failovers across regions, clouds, and infrastructure types.
- ▶ Reduce the challenges associated with modernizing applications and moving to ROSA by leveraging Kasten transform sets and migration capabilities.
- ▶ Give developers the tools they need to clone applications and data for dev/test, production, and quality assurance.



Red Hat

Technology Partner



Red Hat



Certified Technology

All the Benefits of OpenShift on AWS Public Cloud

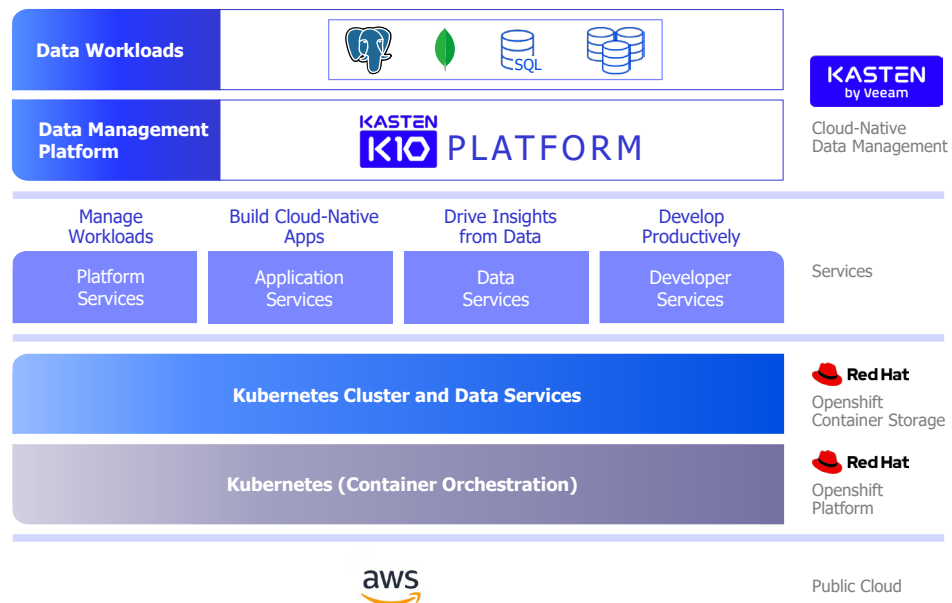
To help alleviate the complexities of digital transformation, AWS and Red Hat have partnered to offer [Red Hat OpenShift Service on AWS \(ROSA\)](#), a managed service that allows organizations to build, deploy, and manage Kubernetes applications on a turnkey cloud platform quickly and easily.

With fully integrated tools, consistent interfaces, and APIs, ROSA reduces friction between development, deployment, and operations while accelerating the time to market by helping teams focus on building apps rather than building and maintaining their own application platforms.

Data Protection & Migration Made Easy with Kasten by Veeam

While ROSA provides a platform that helps deliver production-ready Kubernetes in the public cloud, key challenges remain around transforming legacy applications, securely migrating container data, and having reliable backup and DR policies in place across clusters to protect Kubernetes data. Kasten by Veeam simplifies all of that and more.

Kasten’s application-centric approach and deep integrations with both Red Hat and AWS allows you to seamlessly incorporate data protection as part of development, deployment, and application migration from the data center to the cloud and back. The following Kasten benefits help strengthen the management and protection of ROSA workloads:



- ▶ **Control & Mobility for Kubernetes Apps:** Enable migration across different infrastructures and move entire applications between Kubernetes clusters and regions through seamless data conversion and reliable, automated workflows.
- ▶ **Comprehensive Backup & Restore:** Automatically capture and protect your entire application stack, including resource definitions, configuration, and underlying data to easily restore to a good known state.
- ▶ **Reliable Recovery from Attacks or Outages:** On-demand disaster recovery and policy-driven automation help you manage how immutable backups are securely replicated to off-site storage while enabling near-zero RTO for Kubernetes workloads.
- ▶ **Easy to Implement and Use:** Kasten can be quickly and easily installed through the [AWS Marketplace](#) or Red Hat Operator Hub, delivering an intuitive UI and built in automation that makes managing application backup and recovery attainable for anyone in your IT organization.
- ▶ **Needs-Based Consumption Licensing:** With a pay for usage model that allows for billing per hour, per Worker Node, you can perfectly align your ROSA consumption with K10 usage—and even use your existing AWS credits.

Red Hat Software Partner



"Of all the enterprise solutions we considered, Kasten by Veeam was the most capable. Of all the offerings on the market today, it's the most stable, simple to use and reliable option. Kasten includes many features out of the box that we would have had to build ourselves, if we had chosen another option."

Johan Jansson
Scrum Master & Service
Owner, Zenseact

Native Protection for Enterprise Kubernetes

Containerized applications are abstracted from infrastructure, and with the right implementations and tools they can be transferred among and across platforms and infrastructure types. While the process of migrating legacy applications to the cloud may seem overwhelming, Kasten by Veeam simplifies the process of transforming, migrating and reliably protecting applications across any Kubernetes environment. As a Kubernetes native application itself, Kasten by Veeam is quick to deploy and easy to use via a state-of-the-art management interface or a Cloud Native API, with the versatility to accommodate complex applications easily.

Simplified & Automated Data Protection

- ▶ **Auto-discovery:** Automatically scans the environment upon deployment and identifies all applications requiring protection.
- ▶ **Policy-driven:** Supports automated enforcement of protection policies to support SLAs and compliance needs.
- ▶ **Extensible:** Uses blueprints from open source Kanister framework to add support for new or custom applications and ensure application-consistent backups.
- ▶ **Minimized Footprint:** Dynamically spins up replicas as needed to perform operations and spins down once completed, saving cost and compute resources.

Heightened Security & Ransomware Protection

- ▶ Use the Kasten OpenShift Authentication (OAuth) integration or MFA (Multi Factor Authentication) with the OIDC connector to unify and secure access to the Kasten platform.
- ▶ Granular Role Based Access Control (RBAC) delivers freedom of choice for application owners to decide where apps should be deployed while aligning to the principle of least privilege (PoLP).
- ▶ Leverage Kasten AWS Secret Manager integration to manage encryption keys during a Kasten export to Amazon S3.
- ▶ Use the Amazon S3 immutability function to secure and protect application backups against Ransomware attacks.
- ▶ Integration with Amazon GuardDuty enables early threat detection through wholistic monitoring and correlation of all relevant events across your environment.

Transformation & Mobility for the Cloud

Kasten can automatically modify the configuration or an application's settings to align with its target destination and support application migration and mobility across different and overlapping scenarios.

- ▶ **Namespace:** The entire application stack can be migrated across different namespaces in the same cluster for restoring applications.
- ▶ **Cluster:** An application stack can migrate across non-federated Kubernetes clusters.
- ▶ **Subscription:** App mobility can be enabled across clusters running in different accounts or projects.
- ▶ **Cross-Region:** Mobility can further be enabled across different regions of the same cloud provider.
- ▶ **Cross-Cloud:** Finally, mobility can take place between cloud service providers.

Learn more about the partnership between [Red Hat and Kasten by Veeam](#), and get started today with a free, [fully featured version of Kasten](#) up to 5 nodes.



Technology Partner



Certified Technology

redhat.com

About Kasten by Veeam

Kasten by Veeam is a Kubernetes data protection platform that provides teams with an easy-to-use, scalable, and secure system for backup & restore, disaster recovery and application mobility.

About Red Hat

Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with [award-winning](#) support, training, and consulting services.

North America
1 888 REDHAT1
www.redhat.com

**Europe, Middle East,
and Africa**
00800 7334 2835
europe@redhat.com

Asia Pacific
+65 6490 4200
apac@redhat.com

Latin America
+54 11 4329 7300
info-latam@redhat.com