Veeam Kasten *for Red Hat OpenShift* Service on AWS (ROSA)

Unlocking Modern Application Resilience in the Cloud

In the race to digital innovation, organizations need to build, deploy, and manage modern applications securely, reliably, and at scale. Red Hat OpenShift Service on AWS (ROSA) delivers a fully managed, enterprise-ready Kubernetes platform that empowers teams to leverage cloud-native and AI-driven development practices for rapid digital transformation.

With ROSA, businesses gain:

- Consistent application operations across datacenters, public cloud, and edge environments with a unified OpenShift experience.

- A turnkey enterprise-grade solution, with easy-to-use UIs and an extensive operator framework.

- Fully managed cluster lifecycle, upgrades, and security delivered by both AWS and Red Hat to reduce operational overhead and ensure platform reliability.

- Proven business outcomes, including up to 20% higher developer productivity, 71% reduction in unplanned downtime, and more than 600% ROI over five years.*

ROSA is the foundation for enterprise-grade modernization, streamlining delivery and scaling digital experiences to meet modern business demands.

Data Protection Challenges in Kubernetes and OpenShift

As organizations increasingly adopt containerized workloads, new risks and complexities emerge. Protecting mission-critical data in dynamic, distributed environments that include containers, virtual machines (VMs), and AI workloads requires robust, cloud-native solutions that go beyond legacy or infrastructure-centric backup tools.

Key challenges include:

- Ensuring data resilience against ransomware, accidental deletion, and infrastructure failure.

- Enabling rapid recovery and application mobility across environments.

- Integrating diverse tooling and solutions in a cloud-native manner.

- Meeting compliance and security requirements without increasing operational burden.

Cloud providers handle infrastructure and cluster management, but they don't back up your Kubernetes applications or any data that changes. Under the Shared Responsibility Model, customers are responsible for backing up workloads, disaster recovery (DR), identity and access management (IAM), and resilience against ransomware.

Veeam Kasten serves as a data resilience force multiplier for ROSA by delivering tailored security and comprehensive protection for cloud-native applications.

Veeam Kasten: The De-Facto Data Protection Solution for Cloud-Native Environments

Veeam Kasten is purpose-built for Kubernetes and OpenShift, delivering end-to-end backup, DR, and application mobility for cloud-native environments. Veeam Kasten's deep integration with both AWS and all editions of Red Hat OpenShift ensures seamless, secure, and scalable protection for ROSA workloads.

Veeam Kasten Delivers the Following Advantages to ROSA:

End-to-End Protection

- Application-centric backup and DR for all OpenShift workloads (e.g., containers, VMs, hybrid apps, and AI).
- Immutable backups and proactive ransomware defense.
- Automated policy-driven data protection ensures consistent compliance and simplifies management at scale.

Seamless Integration

- Native support for AWS services (e.g., EBS, S3, EFS, FSx, GuardDuty, KMS) and Red Hat automation, security, and management tools (ACS, ACM).
- RBAC, encryption, and policy-driven automation that align with enterprise DevSecOps pipelines.
- Unified workflows for effortless coordination between backup, recovery, and operations through a single pane of glass.

Unified Management

- Centralized control and auto-discovery of applications across clusters.
- Migration and recovery workflows that reduce downtime and speed modernization.
- Seamless integration with OpenShift observability tools for unified monitoring of backup and recovery operations.
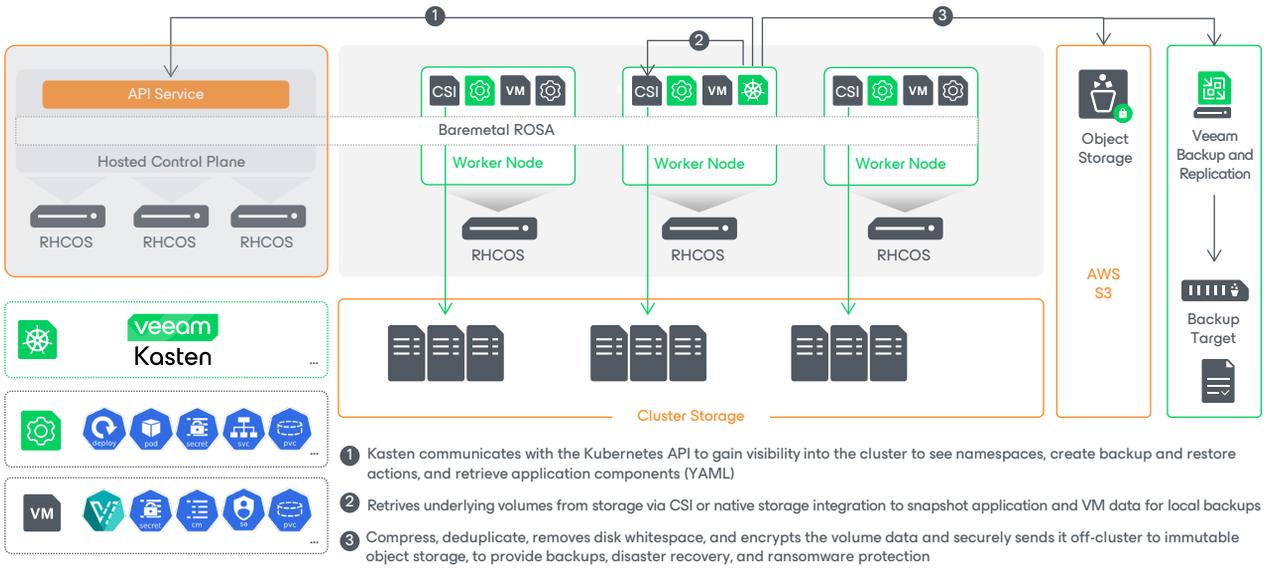
Operational Agility

- Storage-agnostic architecture supports multi-cloud, hybrid, and edge environments.
- Application mobility for easy migration, scaling, and recovery across Kubernetes clusters and cloud environments.
- Rapid, self-service recovery and automation empower teams to respond quickly to changing business needs and minimize operational overhead.

Powerful Outcomes to Support Your Business

With Veeam Kasten for ROSA, customers can:

- Defend critical applications and data from cyberthreats and accidental loss.
- Accelerate cloud migration and modernization initiatives with rapid, reliable recovery.
- Empower DevOps teams with automated, policy-driven protection.
- Ensure compliance and operational continuity across any deployment model.

Cloud-Native Resilience Architecture

1. Kasten communicates with the Kubernetes API to gain visibility into the cluster to see namespaces, create backup and restore actions, and retrieve application components (YAML)

2. Retrives underlying volumes from storage via CSI or native storage integration to snapshot application and VM data for local backups

3. Compress, deduplicate, removes disk whitespace, and encrypts the volume data and securely sends it off-cluster to immutable object storage, to provide backups, disaster recovery, and ransomware protection

→ Get Started

Ready to secure your OpenShift workloads on AWS? Discover how Veeam Kasten compliments OpenShift seamlessly to deliver the simplicity, resilience, and confidence you need to accelerate innovation.

Contact us to schedule a demo, start your free 60-day free trial, or learn more about Veeam Kasten data resilience for workloads running on Red Hat OpenShift.

*Source: IDC Business Value Study, Red Hat OpenShift Cloud Services, 2022; Forrester Total Economic Impact™ Study, Red Hat OpenShift Platform Plus, 2023.

About Veeam Software

Veeam®, the #1 global market leader in data resilience, believes every business should be able to bounce forward after a disruption with the confidence and control of all their data whenever and wherever they need it. Veeam calls this radical resilience, and we're obsessed with creating innovative ways to help our customers achieve it.

Veeam solutions are purpose-built for powering data resilience by providing data backup, data recovery, data portability, data security, and data intelligence. With Veeam, IT and security leaders rest easy knowing that their apps and data are protected and always available across their cloud, virtual, physical, SaaS, and Kubernetes environments.

Headquartered in Seattle with offices in more than 30 countries, Veeam protects over 550,000 customers worldwide, including 82% of the Fortune 500, that trust Veeam to keep their businesses running. Radical resilience starts with Veeam.

Learn more at www.veeam.com or follow Veeam on LinkedIn @Veeam-Software and X @Veeam.