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What's New

#1 Kubernetes Data Protection and Mobility

Veeam Kasten *for Kubernetes* v7.5

Continued Innovation and Leadership

Veeam Kasten v7.5 is a game-changer in data protection, providing customers with Kubernetes-native capabilities and seamless application mobility across diverse distributions and platforms. This release introduces significant enhancements that prioritize bolstering enterprise resilience, strengthening security and compliance measures, and delivering a comprehensive solution that pushes the boundaries of modern virtualization. As a trailblazer in the industry, Veeam sets the standard with its comprehensive suite of data protection tools, and this release represents a key milestone in advancing unified virtualization in the enterprise.

Kubernetes has emerged as the leading container orchestration platform, with 66% of organizations currently using it in production. In a blog post titled "The 2024 Trends on Cloud Computing" by Kelsey Hightower and Alex Saroyan from the Cloud Native Computing Foundation, they identify "effective workload management across hosting locations" as being the key focus of cloud strategy in 2024. Another key need for IT leaders is the ability to combine containerized and virtualized infrastructures to increase flexibility, scalability, and performance. Following the current journey toward a combined containerized and virtualized modern infrastructure may help achieve this.

According to the 2023 Veeam Cloud Protection Trends Report, 42% of organizations recognize the ability to protect cloud-hosted workloads, including Kubernetes, as being essential for enterprise data protection. Kasten empowers Kubernetes platform operators and application owners to safeguard their Kubernetes applications and data. This, when combined with protection for virtual application domains, ensures comprehensive protection and peace of mind.

Why legacy backup fails Kubernetes workloads

- Volume backup does not fully protect cloud-native applications and data.
- Protecting cloud-native workloads with traditional backup solutions increases management cost.
- Traditional software tools lack visibility into Kubernetes applications and data.
- Legacy backup solutions do not scale with your enterprise Kubernetes workloads.
- Standard backup does not protect your Kubernetes applications/workloads against ransomware attacks.

Veeam Kasten Use Cases

Backup and Restore

Protect your cloud native Kubernetes and virtual machine (VM) applications while preserving business-critical data.

Disaster Recovery

Manage how backups are replicated off-site to meet business and regulatory requirements.

Application Mobility

Move applications between clouds and on-premises for test/dev, load balancing, data management, and upgrades.

Ransomware Protection

Protect your Kubernetes platform during cyberattacks to preserve business continuity.

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Spotlight: New in Veeam Kasten *for Kubernetes* v7.5

Veeam Kasten v7.5 catapults the industry's leading Kubernetes resilience, recovery, and mobility platform to new heights. Significant advancements in scale, performance, security, and ecosystem coverage empower organizations with unmatched resilience for their cloud-native applications and virtual machines (VMs) on Kubernetes. New features include:

Enterprise-scale Resilience

Data Scaling Enhancements

Protect large-scale application volumes, including millions of files, and optimize backup and restore for more efficient operations.

Granular Data Mover Resourcing

Dynamically allocate data mover CPU and memory resources on a per-application basis for more efficient resource utilization.

CBT for Microsoft Azure

Improve export performance and lower resource consumption for Azure Managed Disk volumes with changed block tracking (CBT) integration.

Kasten DR Enhancements

Enable rapid, in-place recovery of Veeam Kasten itself via next-generation architecture and GitOps-ready configuration.

Red Hat OpenShift Web Console via Dynamic Plugins

Get critical insights into data protection operations and gain quick access to the Veeam Kasten dashboard directly from OpenShift's console.

Updated Kubernetes Distributions

Confidently adopt and migrate to updated Kubernetes and OpenShift versions without exposing gaps in your resilience strategy.

Expanded Security and Compliance

Immutable Restore Point Visibility

Recover applications and data with confidence by easily identifying whether a restore point is immutable.

Google Cloud Storage Immutability

Protect your backups from ransomware attacks with object lock integration with Google Cloud Storage.

Multi-cluster FIPS Support

Bolster security and adhere to strict benchmarks and best practices fit for governments, now with expanded Kasten multi-cluster management for OpenShift.

Azure Federated Identity

Eliminate credential risks with Azure Identity Federation for OpenShift.

OpenShift Security Enhancements

Leverage new annotations in OpenShift to ensure precise and secure control over workload permissions.

Modern Virtualization

Red Hat OpenShift Virtualization

Automatically deploy and protect OpenShift Virtualization virtual machines (VMs) at the edge with production-ready best practices and GitOps.

SUSE Virtualization

Extend industry-leading, Kubernetes native resilience to SUSE Virtualization to unify VM and container management.

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Key Capabilities

Policy Automation

Efficiently manage entire application protection — including data inside and outside the cluster — at enterprise scale.

Granular Restore

Maintain total control over what artifacts and data to restore, including data-only restore for running applications.

Automated DR

Recreate entire application stacks into the same namespace, or a new one automatically.

Immutable & Encrypted

Safeguard data against ransomware and other threats by placing backups in an encrypted and WORM state.

Least Privilege Access

Granularly assign permissions to data protection operations and resources on a per-application level.

SIEM Integrations

Ingest and aggregate SIEM data for governance and real-time threat detection, investigation, and analysis.

Cross-cloud Portability

Mobilize applications across namespaces, clusters, and clouds for DR, test/dev, and performance testing.

Transform Across Distributions

Easily modify the specific contents of K8s resources when restoring or migrating across environments.

VMs on Kubernetes

Migrate, modernize, and manage VMs on Kubernetes without refactoring the entire application.

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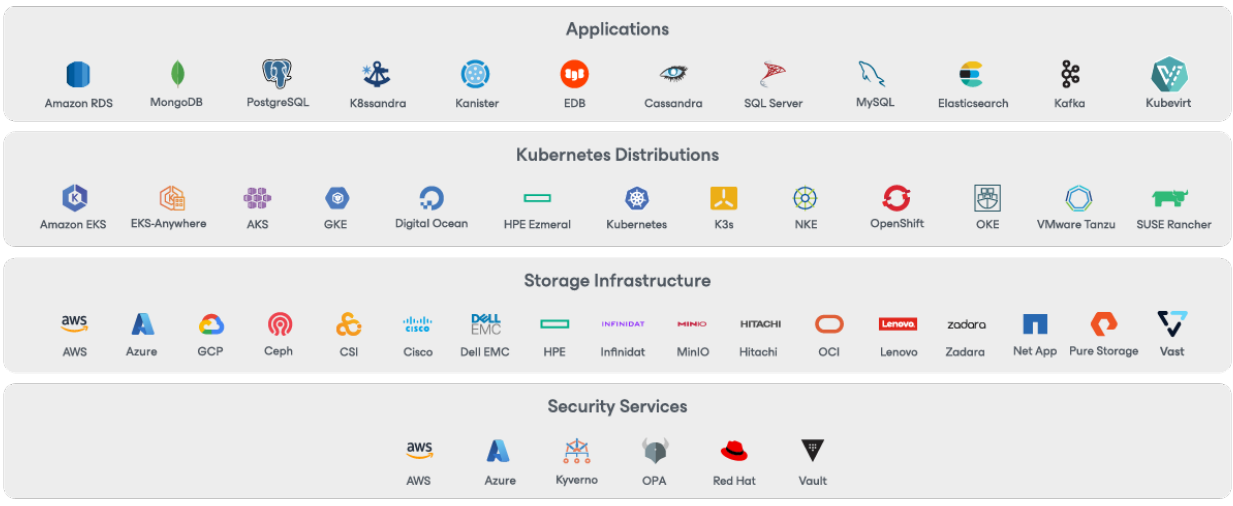
Kubernetes Data Protection Platform



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Veeam Kasten *for Kubernetes:* Top Features and Benefits

Category	Features	Benefits
Recover Entire Applications Rapidly recover entire applications — including underlying data and configurations — with confidence and ease.	Policy Automation	Efficiently manage data protection operations and ensure business continuity at the enterprise scale.
	Application Centric	Ensure reliable backup and recovery with a flexible framework that is application aware and consistent.
	Automated DR	Automate application restores to alternate clusters and locations for reliable disaster recovery (DR).
Ensure Security and Resilience Securely operate with built-in protection against cyberthreats with immutable, encrypted backups and self-service restores.	Immutable and Encrypted	Safeguard data against ransomware and other threats by placing backups in an encrypted and WORM state.
	Air-gapped and Secure Self-Service	Secure operations with least-required privileges settings on a per-app level and Kubernetes-native RBAC.
	Security Certified and Integrated	Provides security teams early warning and remediation capabilities, even in sensitive public sector environments.
Application Mobility Across Platforms Easily enable hybrid- and multi-cloud with seamless application mobility across different infrastructure, and distributions.	Cross-Cloud Portability	Move applications across namespaces, clusters, or clouds for DR, or clone them for test and development.
	Transforms Across Distributions	Easily modify the contents of Kubernetes 8s resources when restoring or migrating across deployment environments.
	VMs on Kubernetes	Migrate, modernize, and manage VMs on Kubernetes without refactoring the entire application.

Quick to deploy and easy to use via a state-of-the-art management interface or cloud native API. Enables DevOps with the agility to identify and protect system applications.

Learn More

For more information, visit Veeam.com or follow @Veeam on X.