

#1 Kubernetes Data Protection and Mobility

Veeam Kasten for Kubernetes


Cloud-Native Resilience for Modern Apps, VMs, and their Data

As Kubernetes adoption accelerates in the cloud-native era, organizations need to address the critical requirement of protecting their Kubernetes applications, virtual machines (VMs), and their data. To keep things running, robust protection and recovery of the entire application, along with data services, must be prioritized to overcome misconfiguration, outage, and security threats that compromise availability.

Containers play a pivotal role in the development of cloud-native applications. According to the [Veeam 2024 Data Protection Trends Report](#), 52% of organizations surveyed are running containers in production, with 25% planning to deploy. Kubernetes has emerged as the go-to container orchestration platform for these deployments. [GigaOM's annual market report on Kubernetes Data Protection](#) expands upon this, saying: "Kubernetes has become the de-facto standard for cloud-native applications, including those with stateful data. It is also gaining a foothold as the platform for traditional enterprise applications running both in the cloud and on-premises. Given that applications and their stateful data are inseparable, organizations must implement data protection solutions for applications running on Kubernetes to safeguard against losing that data."


Comprehensive data protection across Kubernetes-based applications, their data, and essential VMs in enterprise environments is critical. Ensuring seamless operations across multi-cloud and hybrid platforms requires solutions that protect and centrally manage diverse workloads while enabling unified backup, recovery, and application mobility in any environment.

Achieve Unified Data Resilience with Veeam Kasten




Backup and Restore

Confidently and efficiently protect your Kubernetes applications, VMs, and their business-critical data.




Disaster Recovery

Easily manage how backups are replicated offsite to meet business and regulatory requirements.




Application Mobility

Effectively move and protect data where it is needed, without vendor lock-in.



Ransomware Protection

Secure your data against risks with proactive threat detection, encryption, and immutability.



Modern Virtualization

Seamlessly protect VMs and containers together on Kubernetes.

Setting the Record Straight on Kubernetes Data Protection



- Backing up Kubernetes applications and data — whether on-premises, at the edge, or in the cloud — is an enterprise imperative.
- Traditional backup solutions are ill-equipped to handle the dynamic nature of Kubernetes.
- Volume backup does not fully protect cloud-native applications and data.
- Kubernetes enhances application availability through features like self-healing, but this does not guarantee data protection.
- Kubernetes is as susceptible to ransomware attacks as traditional platforms and requires purpose-built protection.

Why Veeam Kasten?

Veeam Kasten delivers secure, Kubernetes-native data protection and application mobility at scale and across a wide range of distributions and platforms. Proven to recover entire applications simply, quickly, and reliably, Veeam Kasten gives operations and application teams the confidence they need to withstand the unexpected.

Key Capabilities

Policy Automation

Efficiently manage complete application protection, including data inside and outside the cluster, at an enterprise scale.

Immutable and Encrypted

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

Cross Cloud Portability

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

Unified Resilience for VMs on Kubernetes

Automate policy-driven backup and lifecycle management for KubeVirt VMs.

Intuitive GUI

Get critical insights into data protection operations via a state-of-the-art management interface.

How Veeam Kasten Works

Discover

Automated discovery of your Kubernetes application.

Kubernetes applications, just like their traditional predecessors, demand resilience from day 0 to protect against data loss and outage events like failure, deletion, and ransomware. Veeam Kasten fills this critical need.

Granular Restore

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

Least-Privilege Access

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

Transform Across Distributions

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

Migration at Your Own Pace

Start with VM protection and add cloud native applications as your business requirements evolve.

DevOps Agility

Confidently deploy, update, and safeguard critical workloads, accelerating innovation while minimizing risk and operational overhead.

Protect

Secure your Kubernetes applications and data.

Automated DR

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

SIEM Integrations

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

Enhanced Environment Isolation

Seamlessly migrate between federated and non-federated clusters.

Investment Optimization

Manage protection of all VM applications on a single platform. Pay only for what you need with a streamlined solution.

Effortless Operations

Provide simple and efficient operational control, offering the smoothest experience for new and veteran administrators.

Restore

Quickly and effectively restore your Kubernetes applications and data.

Learn more



vee.am/k8s

➔ For more information, visit veeam.com or follow us on [Linkedin](#).