

# Cyber Protection for Kubernetes Across Hybrid Cloud

## INTRODUCTION

As Kubernetes cements its role at the heart of digital transformation, its importance to modern organizations and development teams has become undeniable. This open-source platform, which automates the deployment, scaling, and management of containerized applications, has revolutionized the way businesses deploy and manage their applications at scale, offering unparalleled agility and efficiency. However, with its widespread adoption comes a critical challenge that many organizations grapple with: the protection of Kubernetes data. As Kubernetes environments become increasingly complex and integral to business operations, the risk of data loss or corruption due to human error, malicious activities, or system failures escalates. The necessity to back up Kubernetes data has thus become a critical concern, highlighting the need for robust solutions that can ensure data resilience and business continuity in a landscape where downtime or data loss can have far-reaching consequences.

## CHALLENGES WITH PROTECTING KUBERNETES



Complex and dynamic environments



Data protection is tedious



Visibility and reporting

## RUBRIK KUBERNETES PROTECTION

Rubrik Security Cloud enables the backup and recovery of persistent volumes and Kubernetes objects associated with applications, ensuring protection and the ability to restore from a specific point in time. With Rubrik, organizations gain the power and control to accelerate development cycles. Additionally, it allows for the protection, organization, and management of the Kubernetes environment through a global management console. This console offers visibility into distributed deployments, workload performance, and SLA compliance.

## KEY BENEFITS



### UNIFIED MANAGEMENT

Protect Kubernetes clusters across on-prem and cloud through a single management plane with automated security policies



### GLOBAL SECURITY

Automated security policies ensure Kubernetes clusters are protected with immutable, access controlled backups

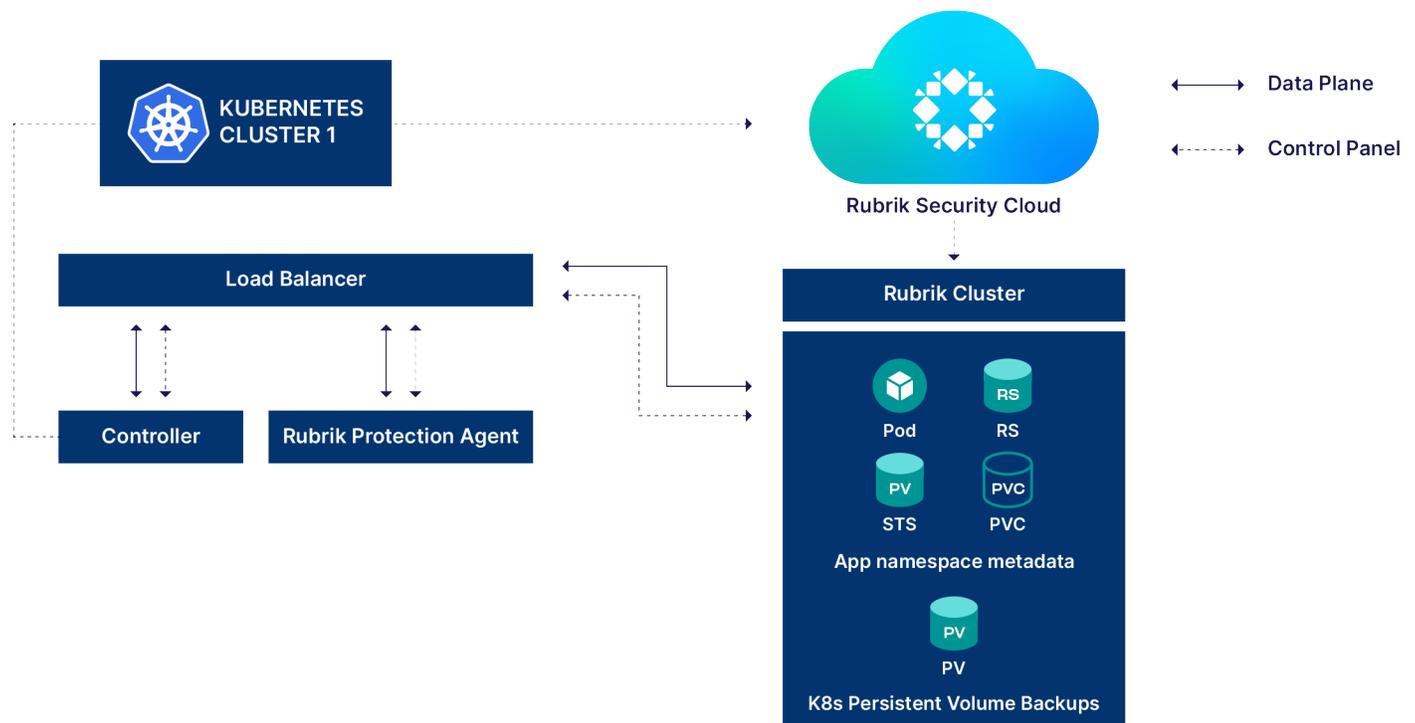


### ENTERPRISE SCALE & SUPPORT

Support for unlimited number of Kubernetes clusters, cluster nodes, applications, and data backed by 24/7 global support

## HOW IT WORKS

Rubrik Kubernetes Protection is an enterprise-focused solution that simplifies the management of and secures Kubernetes applications and their persistent data. Simply connect the Kubernetes cluster to Rubrik to enable protection management. After deploying the Rubrik backup service, assign an existing SLA policy or create a custom SLA to automate the backup frequency and retention at the application or filter (label or kind) level.



## FEATURES

- **Immutable, air-gapped backups** ensure application data and dependencies are resilient MFA, with granular role-based access control preventing unauthorized change, encryption, or deletion
- **Reusable Global SLAs** can be assigned to clusters or protection sets to improve your efficiency
- **Flexibility to set the frequency and retention of snapshots** enables you to cater to different application's SLA needs
- **Protection for Kubernetes workloads across your private and public clouds** gives you coverage across multi-cloud environments
- **Rubrik enables the creation of a Protection Set**, which is an advanced filter capability to group resources for an application within a namespace to be protected
- **Extend Rubrik's data protection as Rubrik APIs or Kubernetes CRDs** to run commands against Kubernetes clusters for backup and recovery operations
- **Supported Kubernetes Distributions:** Conforming Kubernetes clusters such as RedHat OpenShift, VMware Tanzu, SuSE Rancher, Amazon EKS, and Azure AKS

Learn more at [www.rubrik.com/solutions/kubernetes](https://www.rubrik.com/solutions/kubernetes)



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Rubrik is on a mission to secure the world's data. With Zero Trust Data Security™, we help organizations achieve business resilience against cyberattacks, malicious insiders, and operational disruptions. Rubrik Security Cloud, powered by machine learning, secures data across enterprise, cloud, and SaaS applications. We help organizations uphold data integrity, deliver data availability that withstands adverse conditions, continuously monitor data risks and threats, and restore businesses with their data when infrastructure is attacked.

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