Commvault®

Enterprise grade data protection for Kubernetes—delivered as a service

WHY CONTAINER-BASED DATA SOLUTIONS?

Container adoption is accelerating, with 85% of global organizations expected to be running containers in production by 2025. Business transformation initiatives are now ramping their efforts to modernize business applications through the use of containers. Containers and Kubernetes offer application resilience, scale, and a modern, automated approach to infrastructure consumption.

Because of this increase in container popularity, organizations are looking to move beyond "scripted" protection solutions to unified backup and recovery of cloud-native and on-premises workloads. Also—a SaaS-delivered model for data backup & recovery—or Backup as a Service (BaaS)—delivers many of the same benefits that those using Kubernetes are seeking, including flexible and fast deployment and reduced infrastructure management overhead.

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WHY KUBERNETES?

Kubernetes is the industry de facto for container orchestration and automates everything from day-one deployment to operations and the ongoing management of containerized applications. Companies seeking web-scale resilience and flexible scalability are turning to the built-in distributed application frameworks that Kubernetes provides. To that end, Kubernetes—as the modern orchestrator of the hybrid data center—allows IT organizations the ability to rapidly scale on-premises, or easily migrate workloads to the cloud with minimal impact.

COMMVAULT® CLOUD BACKUP & RECOVERY FOR VM & KUBERNETES: BEST-IN-CLASS CYBER RESILIENCE FOR KUBERNETES

Any cyber resilient solution that involves Kubernetes-based containers must have equal levels of flexibility, scalability, and comprehensive protection capacity for hybrid cloud workloads—plus a streamlined interface for ease of use. Many solutions still require point products or third-party tools or apps to properly backup any container and hybrid cloud workloads. Others believe container-based applications can be backed up the same way individual applications are backed up. Businesses are already struggling to adapt their new cloud technologies in conjunction with Kubernetes, and don't need to take on the burden of another tool to learn and operationalize.

That's where Backup & Recovery for VM & Kubernetes comes in using a cloud-native approach. This Commvault offering provides backup and recovery for VMs in hybrid cloud environments and containers, including Kubernetes apps and persistent volumes for all CNCF-certified Kubernetes distributions. Protection is integrated with your developer workflows by auto-discovering and protecting applications by-namespace and by-label selector. Granularity to backup and recover YAML manifests or entire volumes means you have the flexibility to recover on your terms.

Commvault

With Commvault, organizations can quickly discover and protect Kubernetes applications on-prem and in the cloud without deploying any infrastructure or software, all while meeting the most demanding SLAs.

Backup and recovery, migration, and disaster recovery for containerized app

Application consistent protection

Protection for Kubernetes distributions including Azure AKS, AWS EKS, and Red Hat OpenShift (and many more)

Container Storage Interface (CSI) integration for volume snapshot backup (optional)

Commvault captures all the metadata, source code, image registry, and persistent data for your applications, os application portability is a snap. Need to spin up a new development environment, migrate an application to another cluster, or migrate between on-premises and clouds? Commvault has you covered—no need to bootstrap or install anything. Use a single tool for protection and migration that covers all CNCF-Certified distributions that can migrate from one cluster to another. In fact, these clusters can be different versions or distributions since the recovery process takes care of the cross cluster and cross distribution conversion. Don't rely on third-party tools that may only do part of the job, and only for part of the distributions.

The launch of this Kubernetes backup offering further establishes Commvault's leadership in Intelligent Data Management, eliminating the cost and complexity of traditional backup infrastructure and management demands.

SETTING THE STANDARD FOR KUBERNETES BACKUP

Commvault predicted this growing need for container based data protection solutions years ago, which is why the company established support for Docker, Red Hat OpenShift, and proactively started future-proofing customers' IT environments. Commvault also foresaw the unification of storage and data protection needs, which led to complementing their Intelligent Data Management portfolio with differentiated hybrid cloud-native storage for virtualization and containers.

WHAT ARE KUBERNETES-SPECIFIC ITEMS PROTECTED THROUGH METALLIC BAAS FOR KUBERNETES?

• Kubernetes applications (Deployments, Statefulsets, Replicasets, Pods), with or without persistent data.

• Kubernetes API resources* associated with a protected application

• Persistent volumes (PVs) and Persistent Volume Claims (PVCs)

*Any K8s API resource labeled/associated with the application will be captured. Examples include ConfigMaps, Secrets, Custom Resource Definitions, StorageClasses, Namespaces.

Remember, your Kubernetes application data does not live in your Kubernetes cluster alone. You have developer workstations, source-code control systems, image registries, and cloud-native object stores. Metallic can protect all of these today. Ensure you embrace a solution that can protect **all your Kubernetes data**.

THE BENEFITS OF COMMVAULT CLOUD

Organizations gain a single-pane-of-glass interface for all their Kubernetes backup, migration, and recovery needs, plus all traditional application defenses, with a solution that is:

Cost-optimized
Lowering TCO, Metallic will save your IT team significant management overhead so you can turn your attention to innovating for your business. No-hassle setup means fast time-to-value.

Flexible
Get diverse entry points into hybrid data protection that's proven to seamlessly scale for petabytes of data.

Secure
Layered security and compliance delivers on your hybrid cloud strategy with access controls, ransomware protection, air gapped copies with cloud storage, encryption and certifications, and monitoring and compliance of the Azure platform.
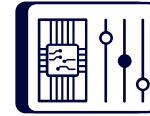
Easy to manage
Easy configuration wizard with best practices baked in, plus no backup infrastructure to maintain, manage or update.

Remember, production-ready still means you need the ability to backup, recover, and report protection SLAs to your business. Your governance & compliance needs didn't go away when you containerized your applications. Maintain control over your data—both modern and traditional—with Commvault.

SUMMARY

By adopting a powerful, solution for Kubernetes, enterprises can now enjoy reduced cost, increased agility, and empowered DevOps teams who can harness this solution to innovate with the peace of mind their data is protected

Learn more about Metallic data backup solutions for Kubernetes, visit **commvault.com/free-trial**

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