Zerto for Kubernetes

Data Protection as Code

Zerto, a Hewlett Packard Enterprise company, is the **only** vendor to provide a native, purpose-built solution for Kubernetes that's based upon continuous data protection. Zerto for Kubernetes provides **backup**, **disaster recovery**, and **mobility** for containerized applications in a simple, scalable platform.

Continuous Data Protection (CDP)

Offering RPOs of seconds, CDP can keep up with a dynamic container platform and your fast-paced DevOps workflows. CDP minimizes data loss and downtime after a disruption of any kind.

Data Protection as Code

Ensure native data protection is built into the application lifecycle from day one and not patched on later as an afterthought. Never miss a backup with containers that are born protected.

Application-Centric protection

Group together entire Kubernetes applications and their persistent volumes, then protect and recover as one consistent entity, including all resources and metadata, such as ConfigMaps, Services, Secrets, etc.
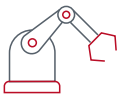
APIs and Automation

Manage Zerto using traditional kubectl commands to simplify your processes. Zerto integrates seamlessly into your existing automation solutions, with native tooling, YAML-based configurations, API extensions via CRD, and use of familiar add-ons such as Helm.

Hybrid/Multi-cloud without Vendor Lock-in

No matter where your Kubernetes environments are running—on-premises, in the cloud, or any combination—Zerto maintains your freedom of platform. Use the infrastructure of your choice without cloud lock-in.

Zerto for Kubernetes – How it Works

Zerto for Kubernetes integrates backup, disaster recovery, and mobility into the application development lifecycle, running on-premises or in the cloud, to enable **data protection as code**. Instead of snapshotting the underlying storage or VMs running the containers, Zerto protects the entire application as a native Kubernetes entity, including both persistent volumes and all associated resource definitions, configurations, and services. Restores and recoveries are fully orchestrated from a consistent point in time across all resources, regardless of whether those are Deployments or StatefulSets, or using disparate storage classes and CSI providers.
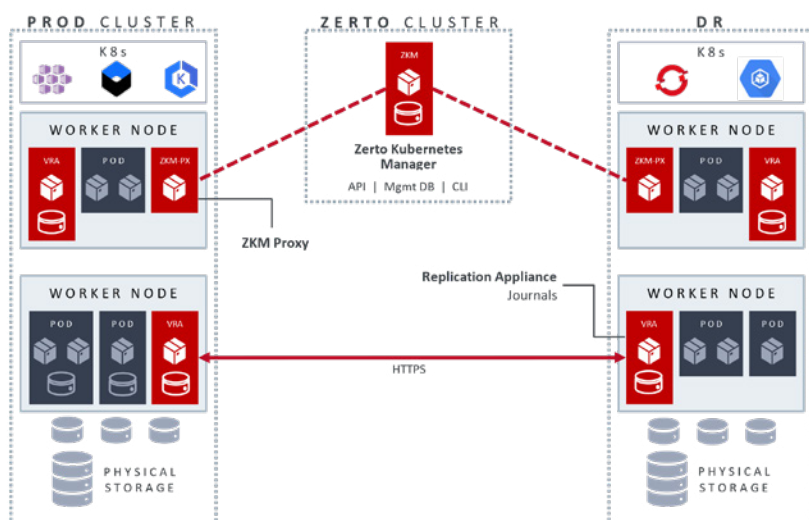
Figure 1. Flexible Architecture

The Zerto components run as pods on worker nodes without the need to install anything on the Kubernetes control planes. Data can be replicated within the same cluster or to a different cluster running on any supported Kubernetes platforms. Zerto utilizes Persistent Volumes for its Journals, allowing for granular recovery of Kubernetes workloads.

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Zerto is a member of the Cloud Native Computing Foundation

CLOUD NATIVE COMPUTING FOUNDATION
SILVER MEMBER

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VMware Tanzu

Google Kubernetes Engine

HPE Ezmeral

Amazon EKS

IBM Cloud Kubernetes Service

Oracle Container Engine for Kubernetes

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