

KUBERNETES BACKUP IN HPE EZMERAL RUNTIME ENTERPRISE WITH KASTEN BY VEEAM

Application-centric, Kubernetes-native data management

Containers have dramatically increased in popularity as organizations realize the benefits with respect to both time and resource efficiency. Hewlett Packard Enterprise has partnered with Kasten by Veeam to enable HPE Ezmeral Runtime Enterprise users to back up their mission-critical container applications for data protection and disaster recovery. With HPE Ezmeral Runtime Enterprise coupled with Kasten's innovative K10 data management software, enterprise operations teams now have a Kubernetes solution with flexible storage, backup, disaster recovery, and mobility with unparalleled performance and operational simplicity.

The HPE and Kasten by Veeam partnership helps companies confidently run and protect cloud-native applications on Kubernetes, across private, hybrid, and multi-cloud environments. Kasten K10 can restore an application to a known state with granular control of backup and restore capabilities

for the entire application stack. HPE Ezmeral Runtime Enterprise applications can also be seamlessly recovered and redeployed across clusters and sites to facilitate effective disaster recovery strategies.

Kasten K10 is natively integrated into Kubernetes to automatically discover all the application components running on your HPE Ezmeral cluster and treating the application as the unit of atomicity. The application includes the state that spans across storage volumes, databases (NoSQL, relational), as well as configuration data included in Kubernetes objects such as ConfigMaps and Secrets. Kasten K10 is extensible and is also pre-integrated with popular relational and NoSQL data services. This provides HPE Ezmeral Runtime Enterprise customers the ability to use policy-based automation to achieve their desired backup consistency levels and operate efficiently at scale.

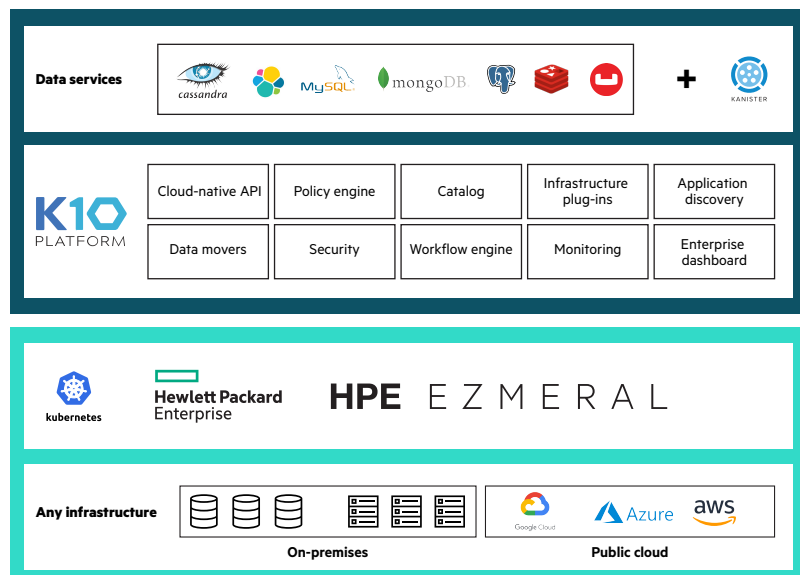


FIGURE 1. Kubernetes backup in HPE Ezmeral Runtime Enterprise with Kasten K10

KEY CAPABILITIES

Protect applications without developer overhead

Without requiring any developer or CI/CD pipeline changes, Kasten K10 auto-discovers applications, adapts to changes, and dynamically maps policies to the current state of the application running on HPE Ezmeral Runtime Enterprise.

Reliable policy-based backup workflows

Kasten K10 manages backups at scale through automation and dynamic policies. This avoids the need for custom scripting and allows users to easily create broad policies for data management compliance.

Multi-tenancy with integrated security

Kasten K10 supports multiple user authentication mechanisms such as OpenID Connect (OIDC), Token, and such. K10 also provides fine-grained role-based access control (RBAC) so that the right users can exercise the appropriate actions and support multi-tenant environments.

Multi-cluster management

Kasten K10 multi-cluster dashboard provides a simple way to get the aggregate and real-time status of critical parameters including the total number of clusters, policies, applications, and others. Additionally, users can define global policies and selectively apply them to HPE Ezmeral Runtime Enterprise cluster groups to simplify the management of backups at scale through automation.

Diverse workloads and deployment choices

With Kasten K10 and HPE Ezmeral Runtime Enterprise, users can choose from a wide selection of infrastructure providers with a consistent HPE Ezmeral Runtime Enterprise

experience across both private on-premises data centers and public clouds. Kasten K10 data management platform coupled with HPE Ezmeral Runtime Enterprise allows global application portability and protection policies without application or code change.

BENEFITS

With Kasten K10, HPE Ezmeral Runtime Enterprise users can:

- Easily back up and restore their entire Kubernetes application
- Efficiently clone applications to a different namespace, cluster for test/dev
- Effectively perform disaster recovery of their applications in another cluster, region, or cloud

K10, Kasten's data management platform, is built natively for containers and enables enterprises to confidently run and protect stateful applications on HPE Ezmeral Runtime Enterprise. K10 uses a unique application-centric approach to help operations teams with their backup and recovery, disaster recovery, and application mobility requirements. Kasten's application-centric approach uses multiple data services and are instantiated across multiple clusters, regions, or clouds. Using K10 with HPE Ezmeral Runtime Enterprise significantly reduces IT resources and time spent on data management tasks.

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