

# Kubernetes Support for Datrium DVX and DRaaS



## SOLUTION BRIEF

### Highlights

#### Fast, reliable, and secure persistent volumes for your containerized workloads

- Download and install the CSI plugin
- Get OpenShift compatible plugins
- Keep your data secure with built-in backup and always-on encryption

#### On-demand DR for your entire cluster and apps

- In steady-state, pay only for backup on S3
- No ongoing cost for hot standby DR sites
- Just-in-time SDDCs provisioned in the cloud

#### Easy migration of legacy apps to containers and the cloud

- Mount your VM disks as PVs
- Restart your on-premises virtual apps in VMware Cloud on AWS
- SaaS-delivered: no install, no admin

## Kubernetes Persistent Volumes and DRaaS

Datrium DVX is a fast, reliable, and secure storage solution for your persistent volumes (PVs). With built-in backup, always-on encryption, mobility, and DR, DVX provides an enterprise-grade storage solution for your containerized workloads.

Datrium DRaaS with VMware Cloud on AWS is a comprehensive DR and Cloud Backup SaaS solution that protects your on-premises clusters and apps. It includes cloud backup, DR orchestration, and VMware Cloud on AWS as fully managed services from Datrium. It eliminates the need for costly physical DR sites, keeps data safe and secure, and enables you to confidently execute failover and failback.

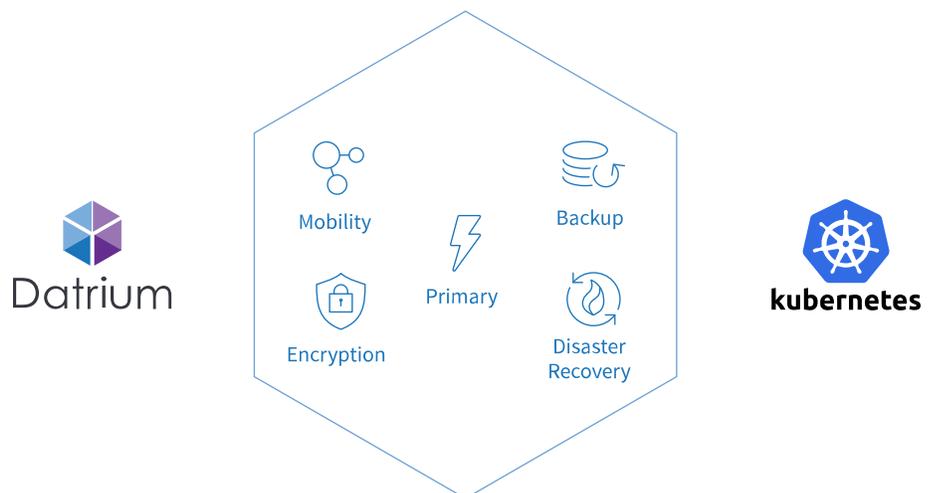


Figure 1 – Datrium for Kubernetes

### Key Benefits

#### Fast, Reliable, and Secure PVs for Your Containerized Apps

Datrium DVX is fast, comes with built-in backup, encryption, mobility, and DR making it the right platform for your enterprise apps running in containers on Kubernetes.

Datrium's CSI plugin and support for OpenShift make provisioning DVX-backed PVs a breeze. Because all the data in DVX is encrypted automatically, you know that your application data is always safe.

#### On-Demand DRaaS for Your Entire Cluster and Apps

With Datrium DRaaS, you don't need to rehydrate data from backups before running your workloads.

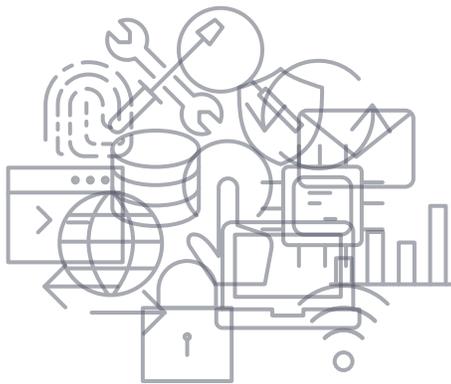
For Kubernetes clusters running on vSphere, Datrium DRaaS can be used to create more than a million immutable snapshots that range from minutes to years in the past. These snapshots can be mounted as a primary data store on ESX hosts running in VMware Cloud.

You can restart your Kubernetes clusters in the public cloud instantly, and you only pay for cloud resources when you use them. This functionality significantly cuts the cost of DR over traditional solutions. Since you can restart from backups which are seconds or years old, you can recover from cyberthreats like ransomware much faster, which provides your workloads and cluster with an additional layer of protection.

#### Easy migration of legacy apps to containers and cloud

Most enterprises have virtualized, legacy apps that need to be containerized and/or migrated to the cloud. Containerizing these legacy apps is a multi-step process that may include rearchitecting the app to resemble one or more microservices and containerizing each service. One of the most difficult steps in this process is moving data from VMs to containers.

DVX enables you to create frequent snapshots of your data for the virtual application and seamlessly make it available to the containerized application. Kubernetes can run anywhere, so you can take your app (complete with its storage and data) to any cloud that you choose.



Legacy Application Infrastructure



Containerized Microservices

Figure 2 – Migrate Legacy Applications to Containers and Cloud