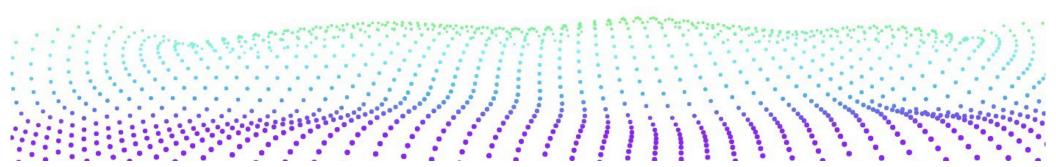




Infinidat OpenShift Integrations to Make Life Easy at Petabyte Scale

Carvel Baus Kubernetes CSI/Golang Developer November 2023

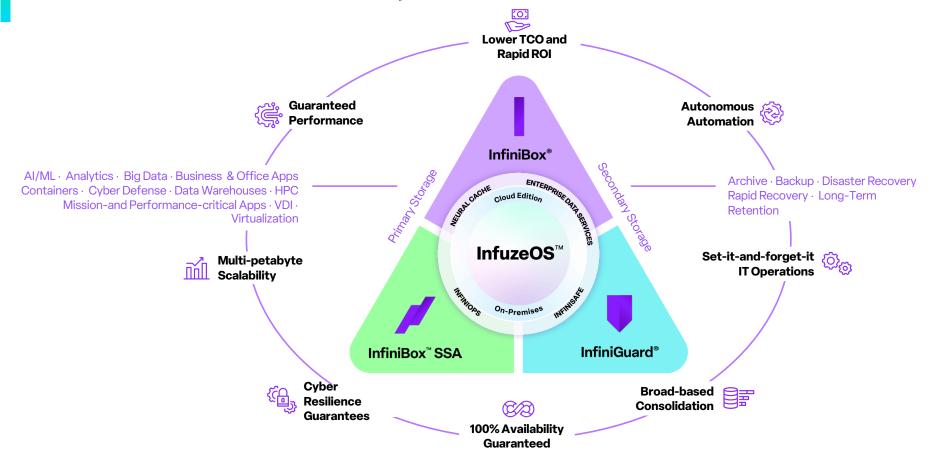


Data Protection Challenges of Kubernetes Platforms

- Application Consistency
- Volume Consistency
- Scalability
- Performance impact
- Disaster recovery

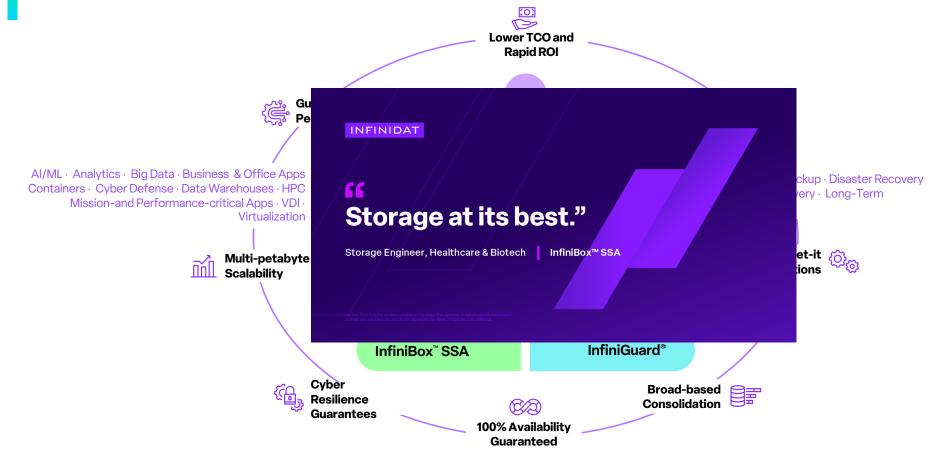


One SDS Architecture, All Platforms



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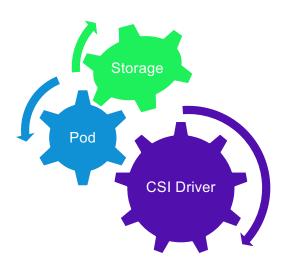
One SDS Architecture, All Platforms



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In what way does persistent storage integrate with Kubernetes?

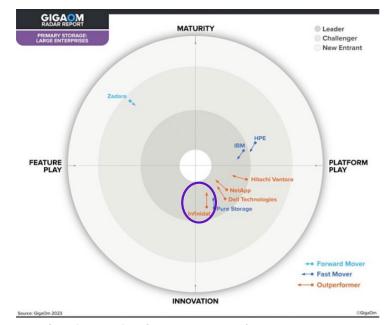
- Kubernetes is the de-facto standard for container orchestration
- Heavy demand to run Stateful Applications
- Advanced Storage and Data protection capabilities
- CSI is a standard for exposing arbitrary block and file storage systems to containerized workloads on Kubernetes
- CSI increased the autonomy and flexibility of developers



InfiniBox Container Storage Interface (CSI) Driver



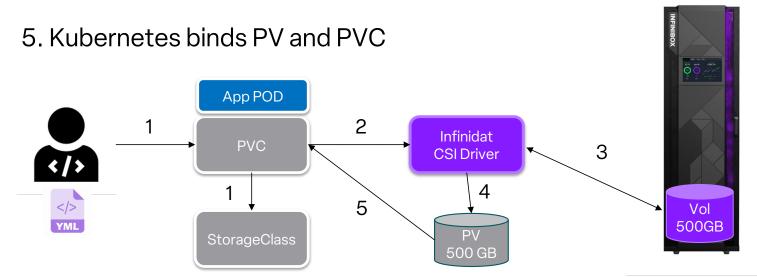
- Features
 - ✓ Multiple InfiniBox systems
 - Dynamic provisioning
 - Raw block
 - Cloning
 - Resize
 - Immutable snapshots
 - Restore
 - ✓ Import
- Protocols
 - ✓ FC / iSCSI / NFS / NFS-TreeQ
- Deployment Methods
 - ✓ Helm for upstream K8s
 - ✓ Operator for OpenShift

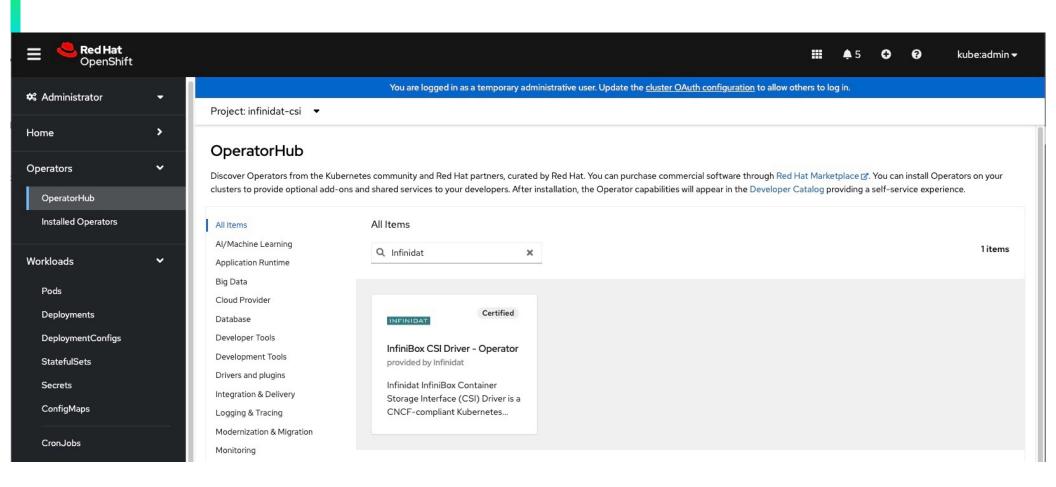


"Infinidat is the front-runner for enterprise storage innovation" GigaOm 2023

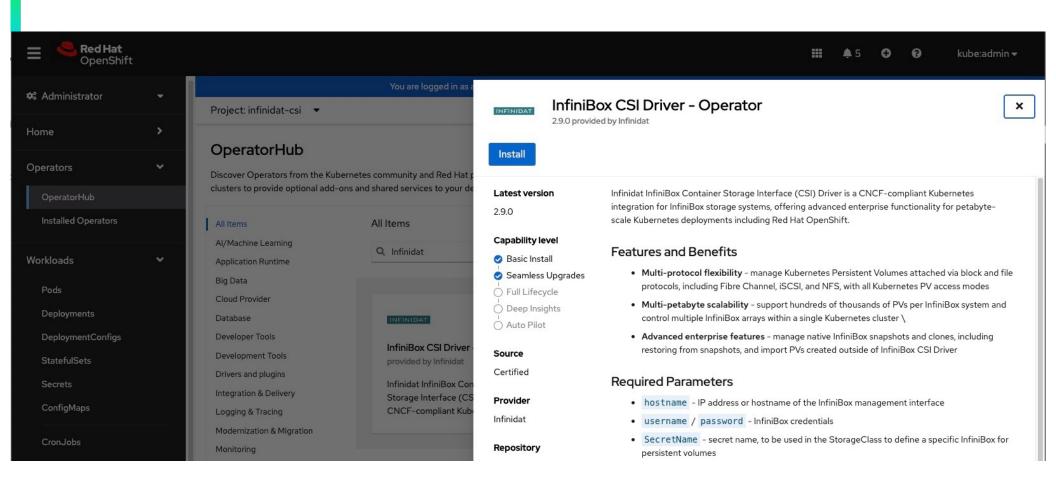
PV creation flow

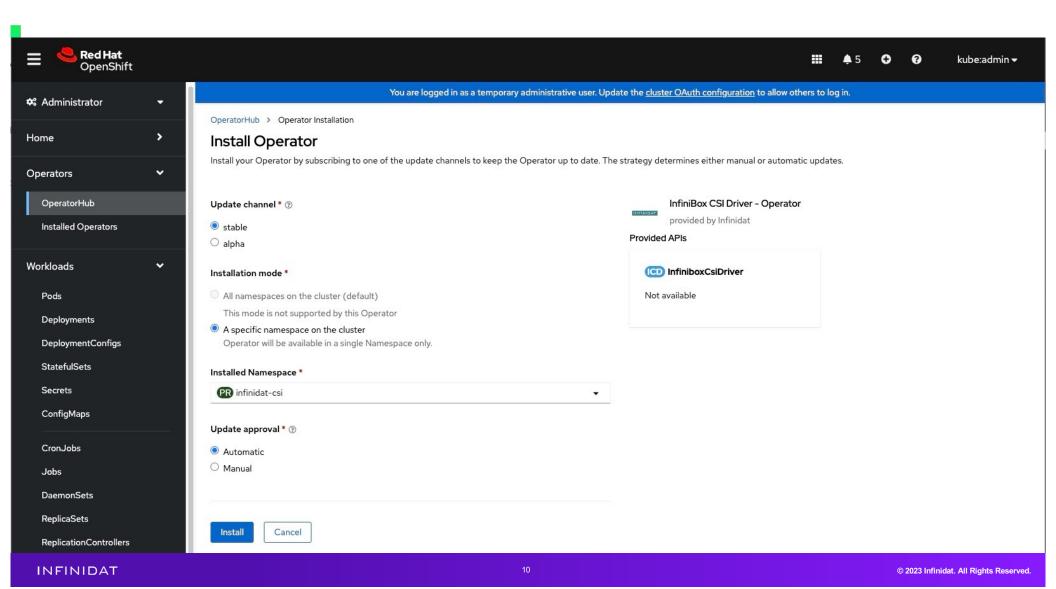
- 1. Developer / App creates a PVC, specifies a StorageClass
- 2. CSI driver is notified of a request
- 3. CSI driver provision volume in InfiniBox
- 4. CSI driver creates a PV resource

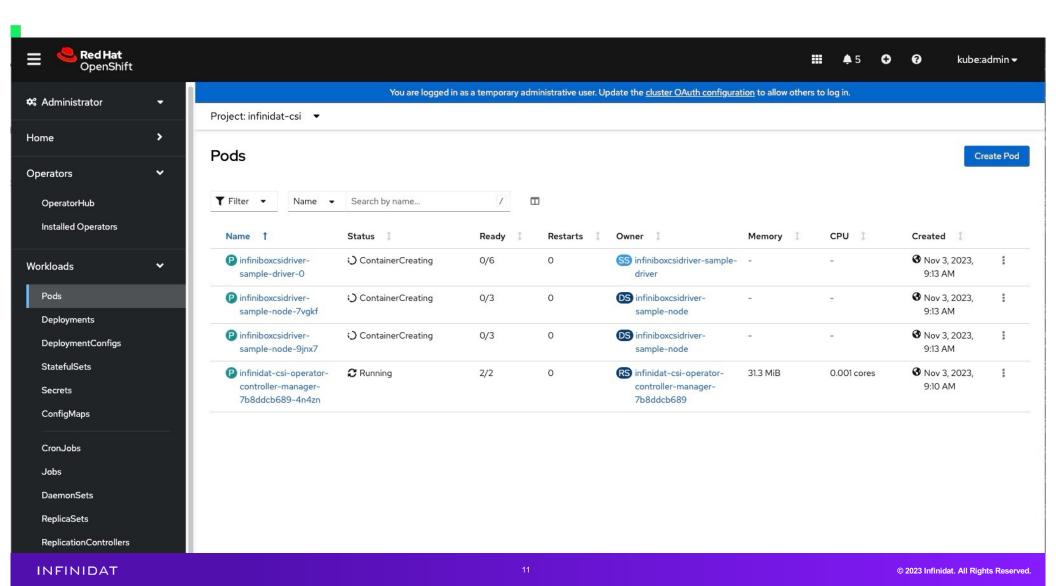


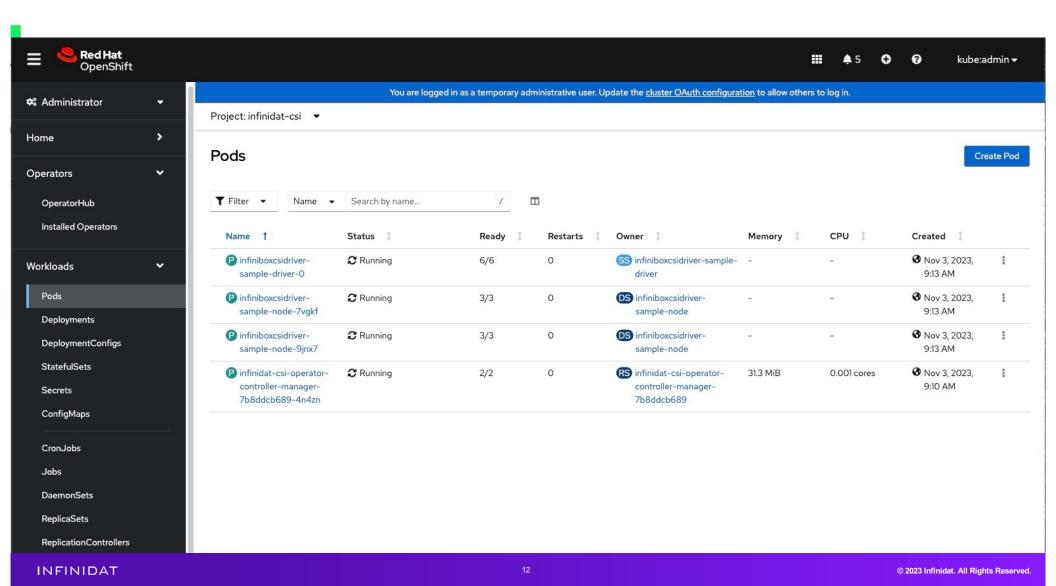


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Summary:

- OpenShift + Infinidat
 - Simplified, seamless and rapid integration of persistent storage to your Kubernetes environment via the OperatorHub
- Multi-protocol flexibility
 - Customers can manage Kubernetes Persistent Volumes attached via block and file protocols, including Fibre Channel, iSCSI, and NFS, with all access modes
- Multi-petabyte scalability
 - Support hundreds of thousands of PVs per InfiniBox system and control multiple InfiniBox arrays within a single Kubernetes cluster
- Advanced enterprise features
 - Manage native InfiniBox snapshots and clones, restore from snapshots, import PVs created outside of InfiniBox CSI Driver, automatic updates with no administrative hassle

The End Users Have Spoken







InfiniBox SSA Reviews

by Infinidat in Primary Storage

4.9 ★★★★★ 11 Ratings



InfiniGuard Reviews

by Infinidat in Data Center - Others

4.8 ★★★★★ 17 Ratings

Gartner.
Peer Insights...

As of October 26, 2023

INFINIDAT

14

The End Users Have Spoken



As of October 26, 2023

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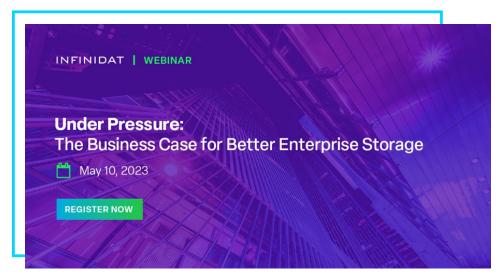
Infinidat Drives Dramatic CAPEX and OPEX Savings

162% 5-year ROI

48% Reduced OPEX

51%More efficient storage management

11 Month
Payback in
11 months



<u>Video Webinar</u> <u>On-demand</u>

https://www.infinidat.com/en/financial-benefits

Thank you



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