





Infinidat and Kasten: Application-Centric, Lightning-Fast Backup and Recovery at Multi-PB Scale

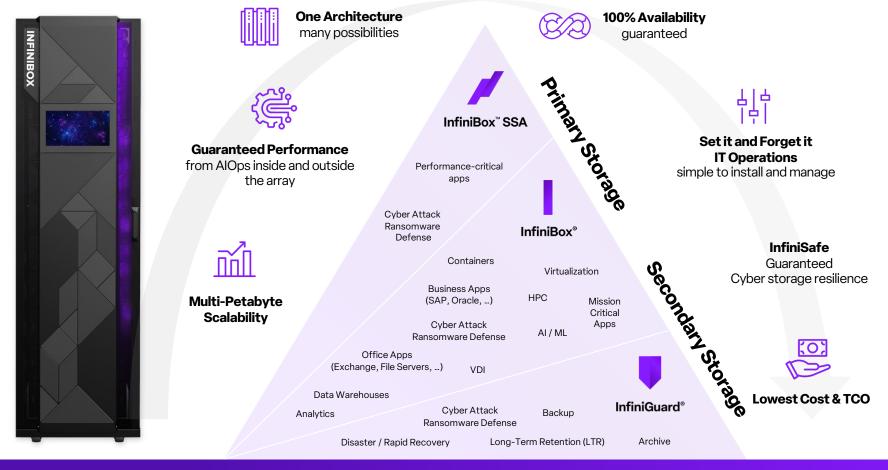
Assaf Yahav, Corporate System Engineer EMEA&APJ April 20th, 2023

Data Protection Challenges of Kubernetes Platforms

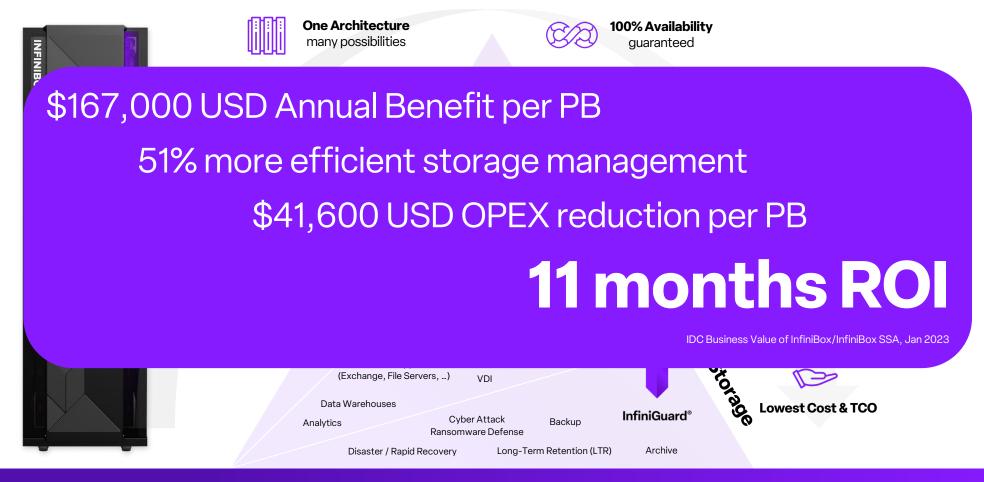
- Application Consistency
- Volume Consistency
- Scalability
- Performance impact
- Disaster recovery



Broad Enterprise Use Cases and Guaranteed SLAs

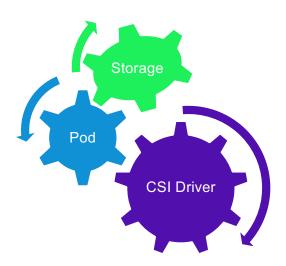


Broad Enterprise Use Cases and Guaranteed SLAs



Integration between Kubernetes and Persistent storage

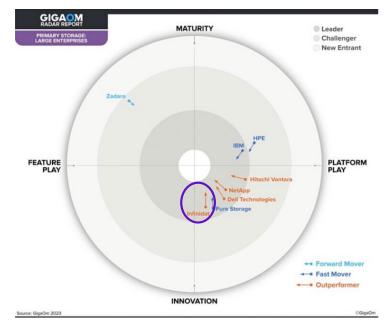
- Kubernetes is the de-facto standard for container orchestration
- Heavy demand to run Stateful Applications
- Advanced Storage and Data protection capabilities
- CSI is a standard for exposing arbitrary block and file storage systems to containerized workloads on Kubernetes
- CSI increased the autonomy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



InfiniBox Container Storage Interface (CSI) Driver



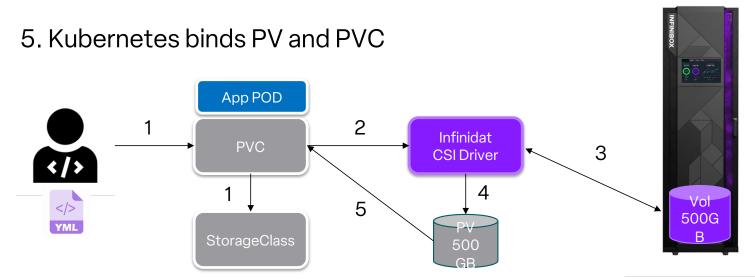
- Features
 - Multiple InfiniBox systems
 - Dynamic provisioning
 - Multi-access modes
 - Raw block
 - Cloning
 - Resize
 - Snapshots
 - Restore
 - Import
- Protocols
 - FC / iSCSI / NFS / NFS-TreeQ
- Deployment Methods
 - Helm for upstream K8s
 - Helm-based operator for OpenShift



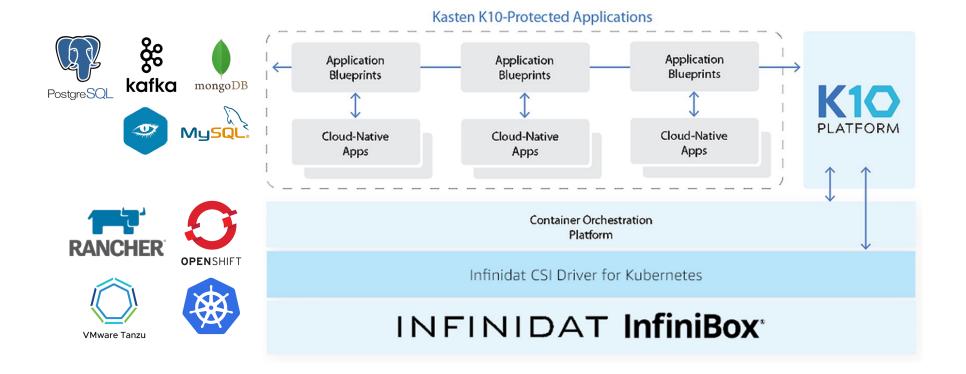
"Infinidat is the front-runner for enterprise storage innovation" GigaOm 2023

PV creation flow

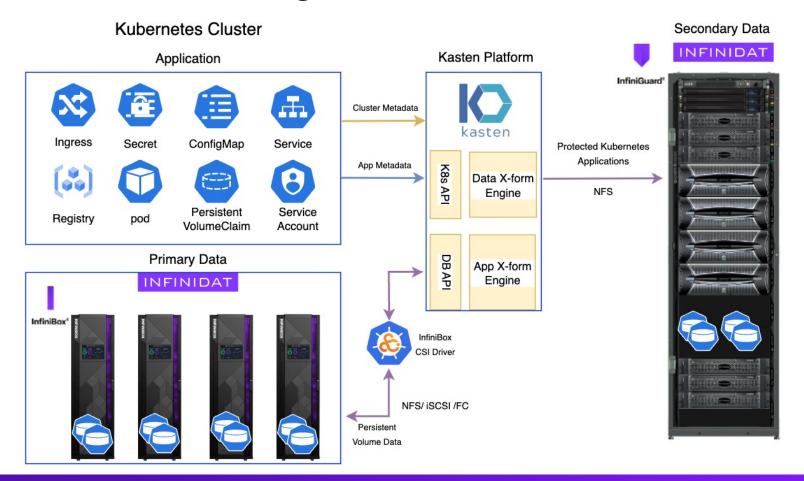
- 1. Developer / App creates a PVC, specifies a StorageClass
- 2. CSI driver is notified of a request
- 3. CSI driver provision volume in InfiniBox
- 4. CSI driver creates a PV resource



Simplify Storage Operations with Infinidat CSI integrations

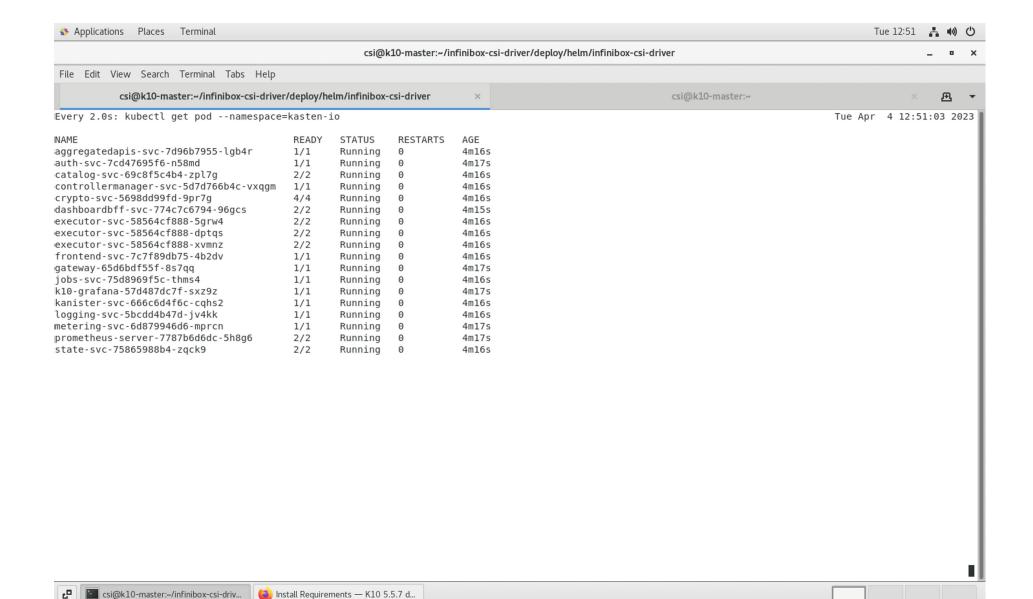


End-to-End Data Management with Kasten & Infinidat



Demo

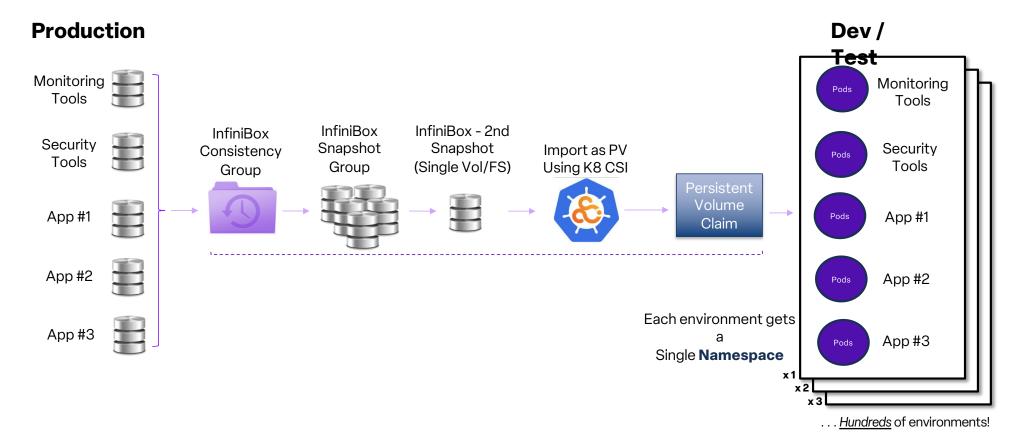
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Customer Use Cases

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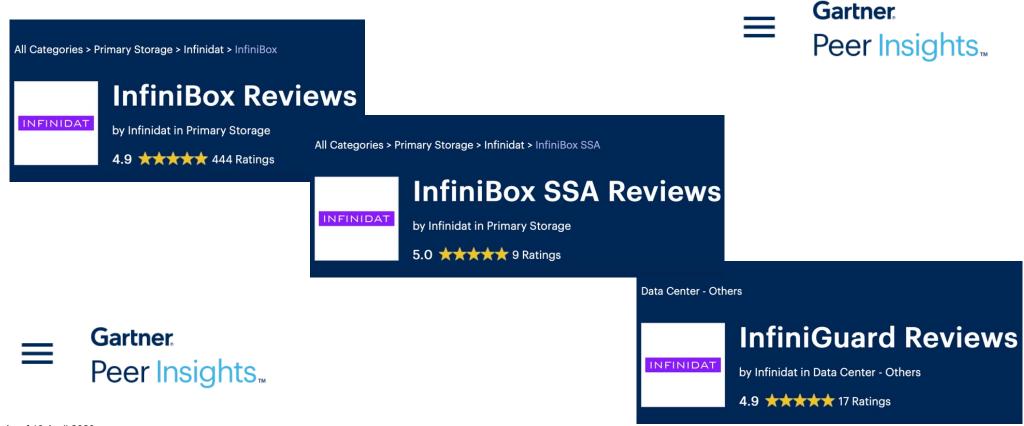
Customer Value – DevOps at Scale



Summary:

- The joint solution provides
 - High-performance storage that helps our customers seamlessly implement backup and recovery, disaster recovery, and stateful application mobility
- 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, including restoring from snapshots, and importing PVs created outside of InfiniBox CSI Driver

The End Users Have Spoken



As of 19 April 2023

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The End Users Have Spoken



As of 19 April 2023

Infinidat Drives Dramatic Storage Infrastructure Savings

162% 5-year ROI

48% Reduce OPEX

51%More efficient storage management

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May 10 at 1pm ET/10am PT

Business Value in the Digital Era

Analyse the Future

May 10 at 2pm CET

On-demand

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Thank you



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