





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

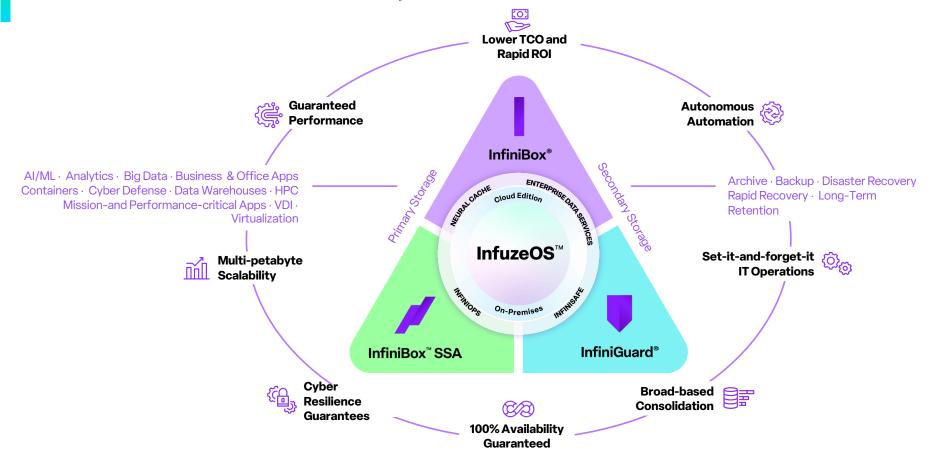
Carvel Baus Kubernetes CSI/Golang Developer November 8, 2023

### **Data Protection Challenges of Kubernetes Platforms**

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

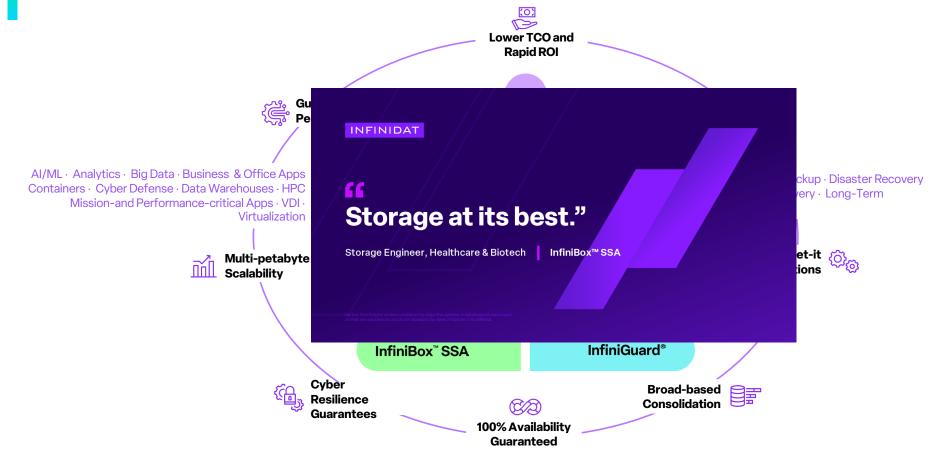


### **One SDS Architecture, All Platforms**



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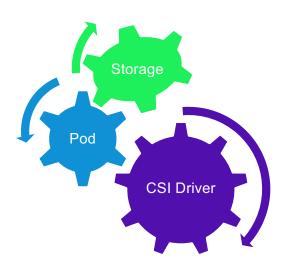
### **One SDS Architecture, All Platforms**



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## In what way does persistent storage integrate with Kubernetes?

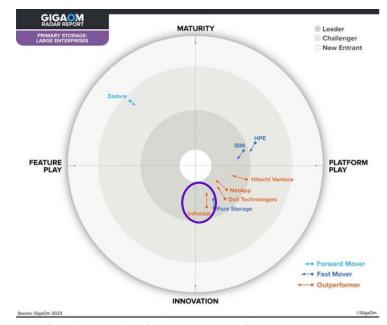
- Kubernetes is the de-facto standard for container orchestration
- Heavy demand to run Stateful Applications
- Advanced Storage and Data protection capabilities
- CSI is a standard for exposing arbitrary block and file storage systems to containerized workloads on Kubernetes
- CSI increased the autonomy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



### InfiniBox Container Storage Interface (CSI) Driver



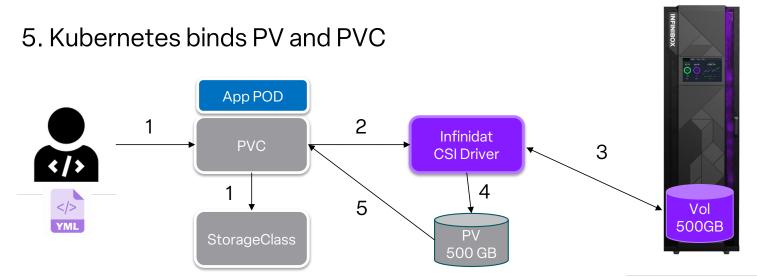
- Features
  - ✓ Multiple InfiniBox systems
  - Dynamic provisioning
  - Raw block
  - Cloning
  - Resize
  - Immutable snapshots
  - Restore
  - ✓ Import
- Protocols
  - ✓ FC / iSCSI / NFS / NFS-TreeQ
- Deployment Methods
  - ✓ Helm for upstream K8s
  - ✓ Operator for OpenShift



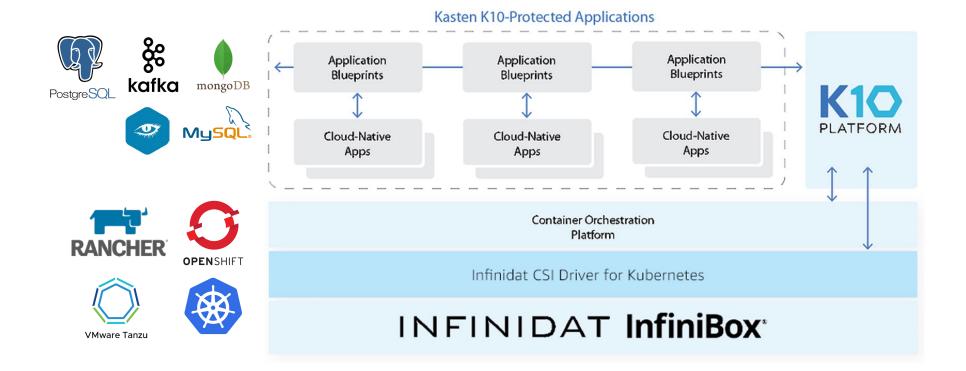
"Infinidat is the front-runner for enterprise storage innovation" GigaOm 2023

#### **PV** creation flow

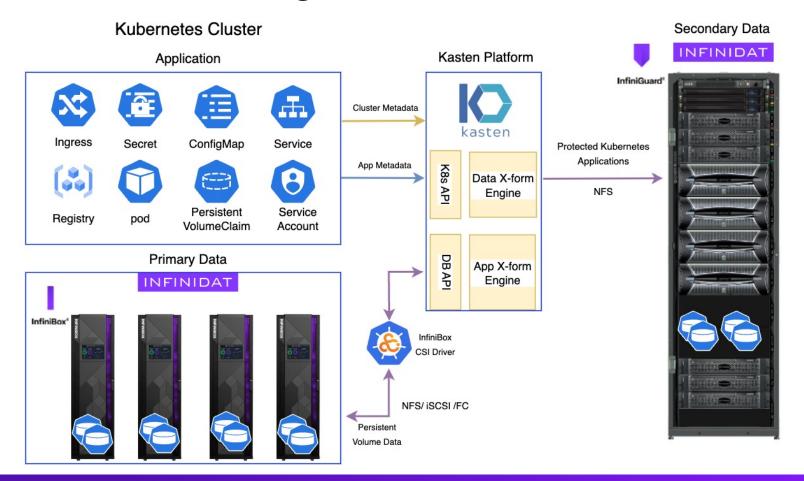
- 1. Developer / App creates a PVC, specifies a StorageClass
- 2. CSI driver is notified of a request
- 3. CSI driver provision volume in InfiniBox
- 4. CSI driver creates a PV resource



### Simplify Storage Operations with Infinidat CSI integrations



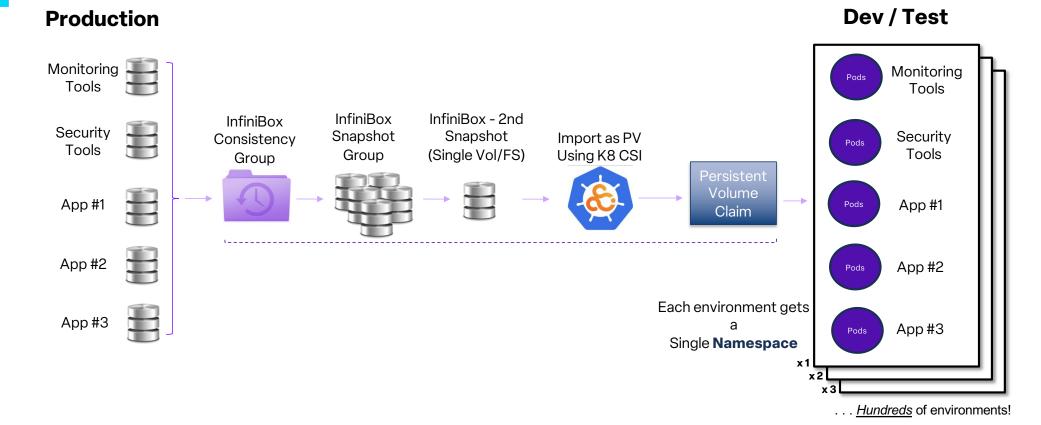
### **End-to-End Data Management with Kasten & Infinidat**



# **Customer Use Cases**

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### **Customer Value – DevOps at Scale**



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### **Summary:**

- The joint solution provides
  - High-performance storage that helps our customers seamlessly implement backup and recovery, disaster recovery, and stateful application mobility using Kasten by Veeam
- Multi-protocol flexibility
  - Infinidat CSI driver natively manages 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







### InfiniBox SSA Reviews

by Infinidat in Primary Storage

**4.9** ★★★★ 11 Ratings



### **InfiniGuard Reviews**

by Infinidat in Data Center - Others

**4.8** ★★★★★ 17 Ratings

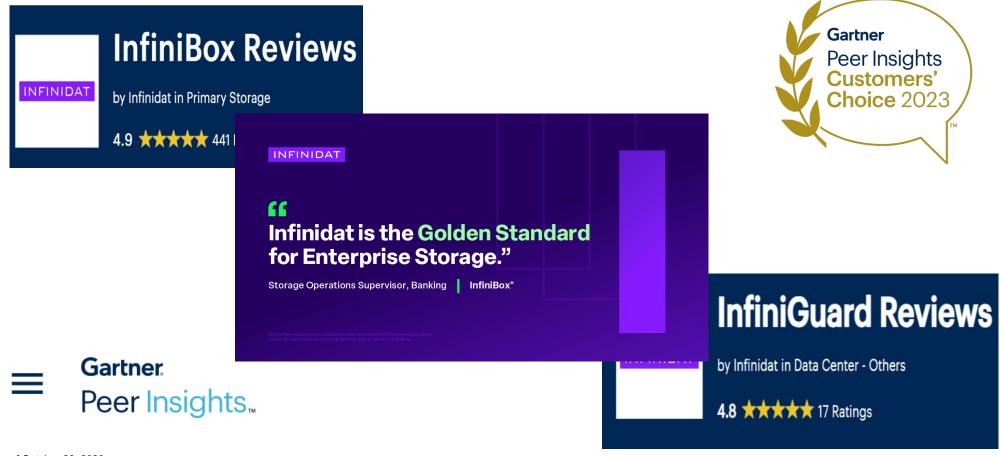
Gartner.
Peer Insights...

As of October 26, 2023

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### The End Users Have Spoken



As of October 26, 2023

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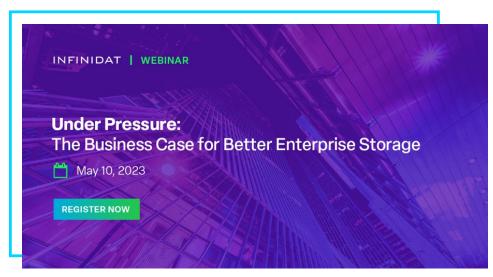
### Infinidat Drives Dramatic CAPEX and OPEX Savings

**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



**SCAN ME** 

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