INFINIDAT

The Standard in Enterprise Storage

Powerful, Cyber Secure, Easy, and Efficient Storage
for Kubernetes and Container Environments

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March 2024

11mo
Payback in 11 months

48%
Reduced overall OPEX
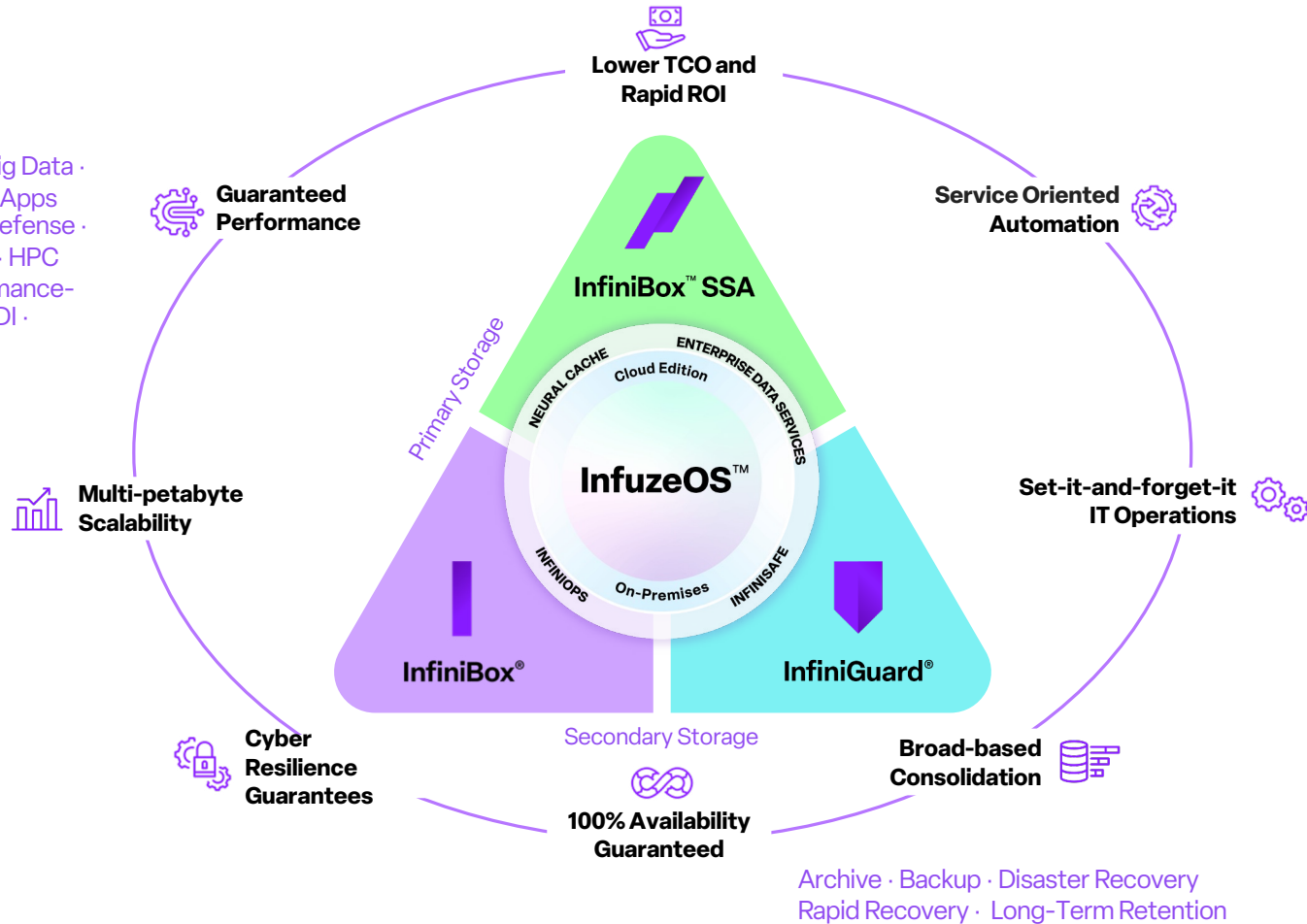
3x
Less Power Consumption

51%
Reduction in storage management

InfiniBox

One SDS Architecture, All Platforms

AI/ML · Analytics · Big Data · Business & Office Apps Containers · Cyber Defense · Data Warehouses · HPC Mission-and Performance-critical Apps · VDI · Virtualization

Lower TCO and Rapid ROI

Guaranteed Performance

Service Oriented Automation

Multi-petabyte Scalability

Set-it-and-forget-it IT Operations

Primary Storage

InfiniBox™ SSA

NEURAL CACHE

Cloud Edition

ENTERPRISE DATA SERVICES

InfuzeOS™

INFINIOPS

On-Premises

INFINISAFE

InfiniBox®

InfiniGuard®

Cyber Resilience Guarantees

100% Availability Guaranteed

Secondary Storage

Broad-based Consolidation

Archive · Backup · Disaster Recovery Rapid Recovery · Long-Term Retention

One SDS Architecture, All Platforms

Lower TCO and Rapid ROI

AI/ML · Analytics · Big Data · Business & Office Apps Containers · Cyber Defense · Data Warehouses · HPC Mission-and Performance-critical Apps · VDI · Virtualization

Multi-pe Scalabilit
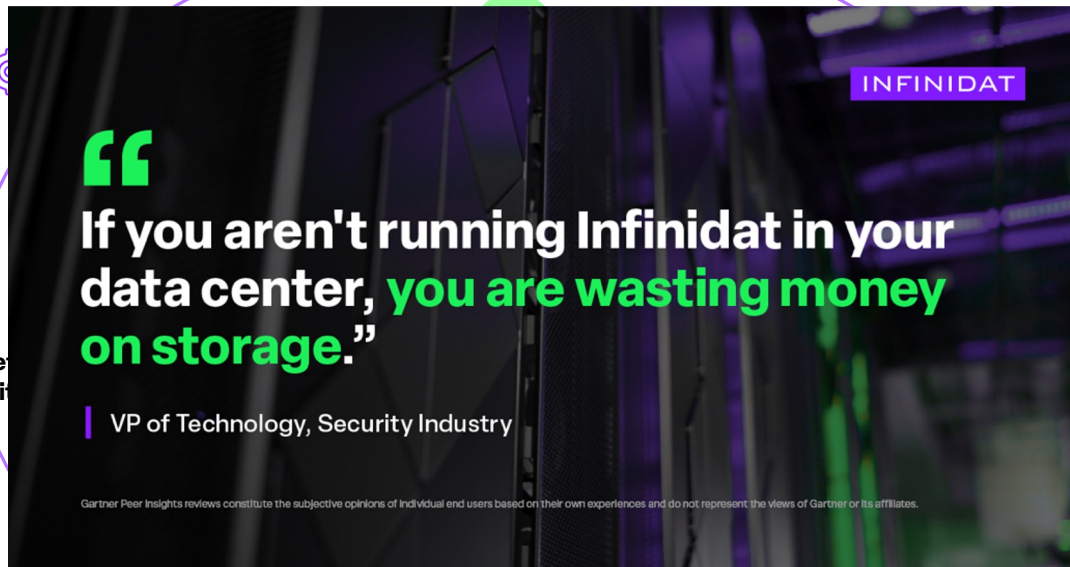
Cyber Resilience Guarantees

Secondary Storage

100% Availability Guaranteed

Broad-based Consolidation

Archive · Backup · Disaster Recovery Rapid Recovery · Long-Term Retention

INFINIDAT

" If you aren't running Infinidat in your data center, **you are wasting money on storage.**"

| VP of Technology, Security Industry

Gartner Peer Insights reviews constitute the subjective opinions of individual end users based on their own experiences and do not represent the views of Gartner or its affiliates.
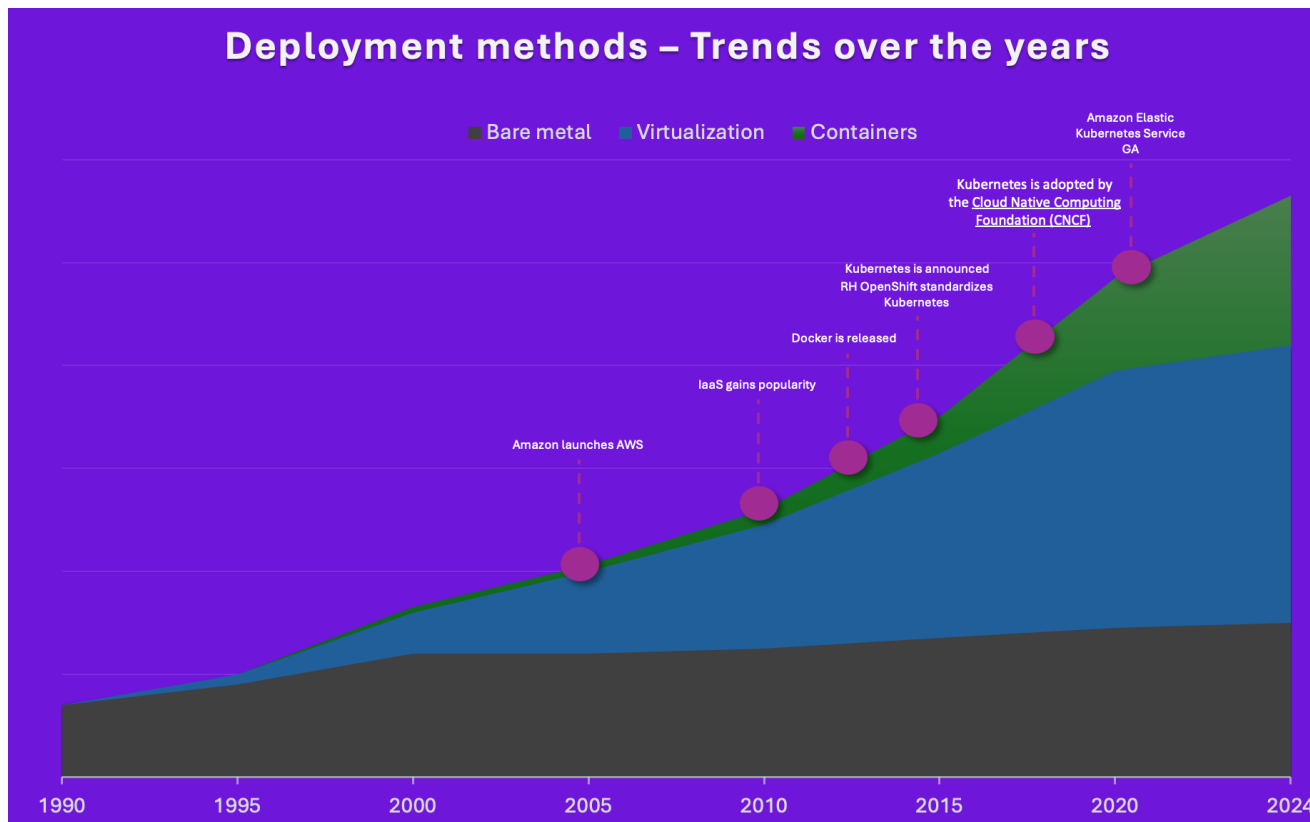
The End Users Have Spoken

InfiniGuard Reviews
by Infinidat in Data Center - Others

4.9 ★★★★★ 18 Ratings

InfiniBox Reviews
by Infinidat in Primary Storage

4.9 ★★★★★ 458 Ratings

InfiniBox SSA Reviews
by Infinidat in Primary Storage

4.8 ★★★★★ 13 Ratings

Gartner Peer Insights Customers' Choice 2024 North America

Gartner Peer Insights Customers' Choice 2023

As of March 4, 2024

The End Users Have Spoken

InfiniGuard Reviews

INFINIDAT

by Infinidat in Data Center - Others

4.9 ★★★★★ 18 Ratings

INFINIDAT

" **Infinidat is the Golden Standard for Enterprise Storage.**"

Storage Operations Supervisor, Banking | **InfiniBox®**

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Gartner
Peer Insights
Customers'
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™

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Peer Insights
Customers'
Choice 2024
North America
™

InfiniBox SSA Reviews

INFINIDAT

by Infinidat in Primary Storage

4.8 ★★★★★ 13 Ratings

As of March 4, 2024

# Deployment Methods - Trends

Containers - VMware Comparison

Container ➡ [vm] Virtual Machine

PV/PVC ➡ Datastore

kubernetes ➡ vmware vSphere
VMware Cloud Foundation™

VIRTUALIZATION

APP	APP	APP
GUEST OS	GUEST OS	GUEST OS
HYPERVISOR		
HOST OPERATING SYSTEM		

VS.

CONTAINERS

APP	APP	APP	APP	APP
SUPPORTING FILES RUNTIME		SUPPORTING FILES RUNTIME		
HOST OPERATING SYSTEM				
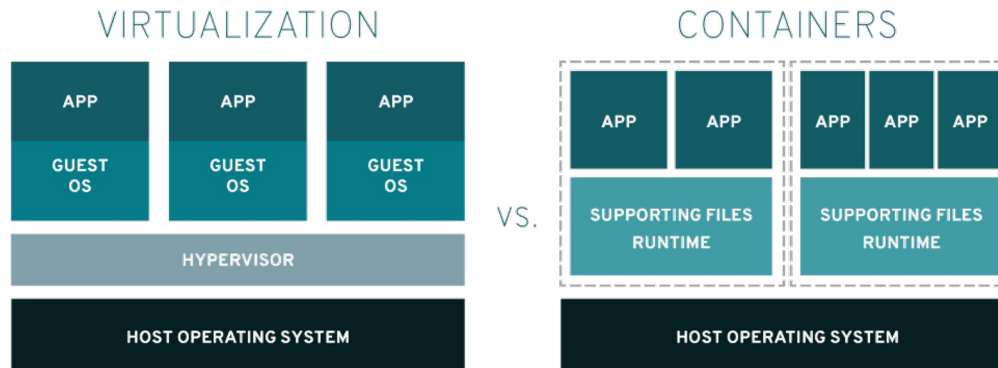
Containers - Evolution

- **Container Introduction** - Docker, simplified container management

- **DevOps Emergence** - Automation, continuous integration and delivery

- **Orchestration Tools** - Kubernetes; automate large-scale container management

- **Simplification of Infrastructure Management** - Orchestration abstracts away infrastructure complexities

- **Transition to Private Cloud Environments**: The scalability, flexibility and efficiency of a public cloud services, on premises.

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 (Container Storage Interface) is a standard for exposing arbitrary block and file storage systems to containerized workloads on Kubernetes

- CSI increased the autonomy and flexibility of developers

Storage

Pod
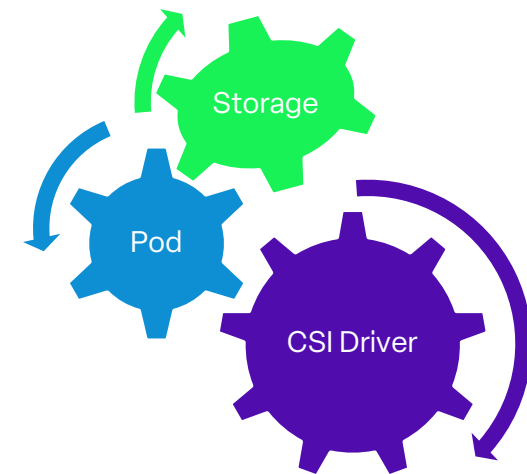
CSI Driver

PV Creation Flow

1. An application creates a PVC (Persistent Volume Claim) and specifies a StorageClass
2. The CSI driver is notified of this request
3. It then provisions a volume on InfiniBox
4. The CSI driver creates a PV (Persistent Volume) resource
5. Finally, Kubernetes binds the PV with the PVC
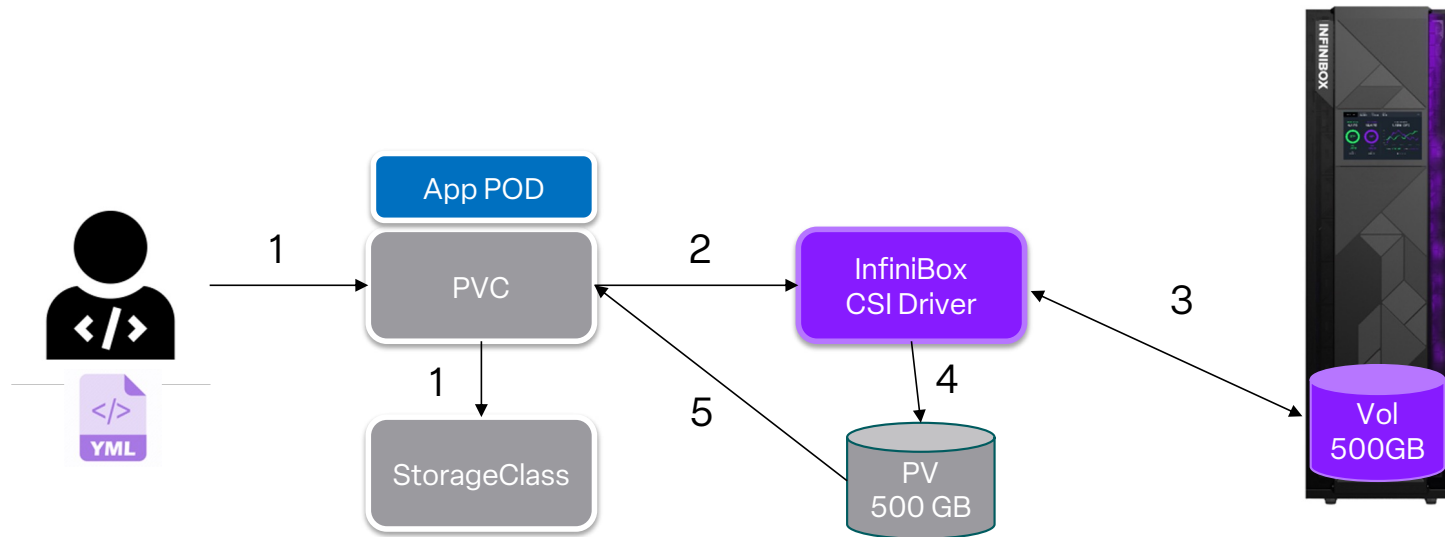
InfiniBox Container Storage Interface (CSI) Driver

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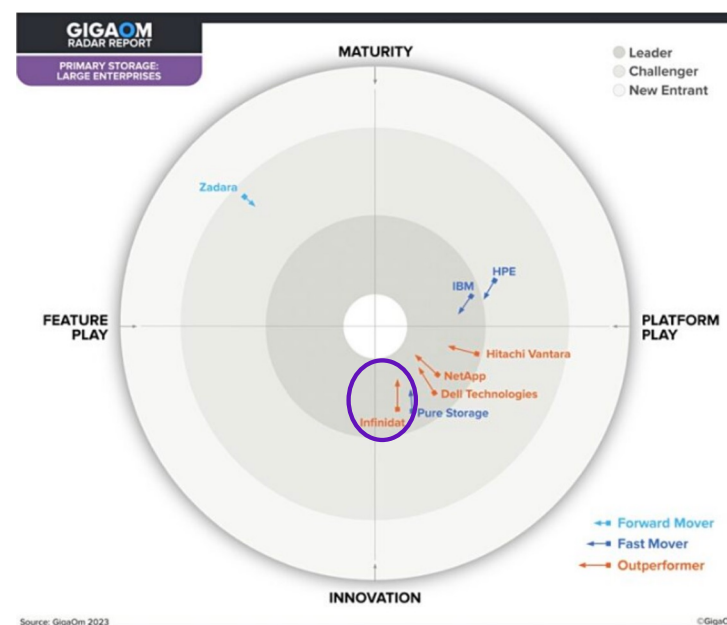
"Infinidat is the front-runner for enterprise storage innovation" GigaOm 2023

InfiniBox CSI Driver - Advanced Features

- Advanced private cloud features:
  - Tenancy: Select the relevant pool per each customer or application
  - Service level provisioning: Specify the right InfiniBox system for each application
- Protect your Kubernetes cluster against ransomware by using InfiniBox Immutable Snapshots for your application with InfiniBox CSI Driver
- Monitor CSI metrics using Prometheus / InfiniBox
- Leverage InfiniBox resiliency by supporting multiple Network Spaces and network redundancy
- Enjoy seamless OpenShift Operator upgrades, without disruptions or manual intervention

Demo

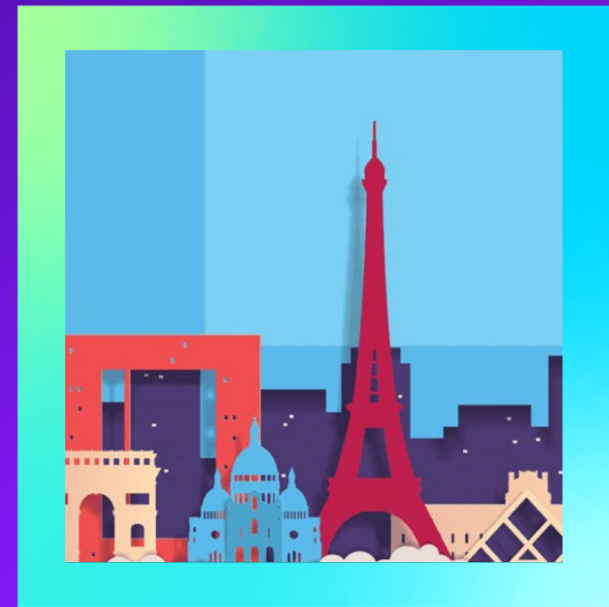# End-to-End Data Management with Kasten & Infinidat
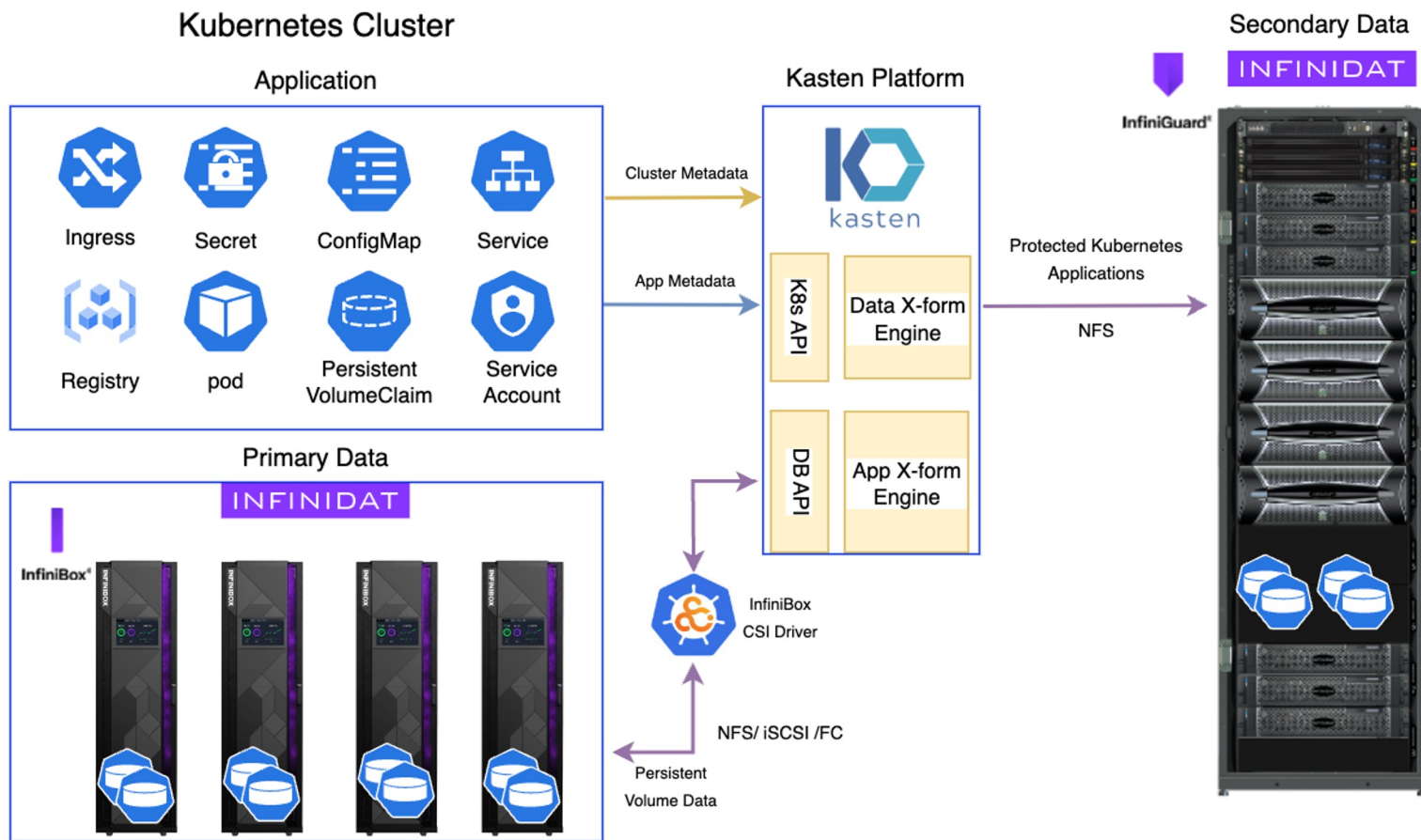
Ecosystem

Learn More at KubeCon Paris, 19 – 22 March

Red Hat Booth E1

Wednesday 20 March

17:00 - 17:45

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Thank you

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