



HAMMERSPACE



Data-as-a-Service
David Flynn – CEO

Company Overview



HAMMERSPACE

- David Flynn, Founder and CEO (Fusion-io)
- Headquartered in Silicon Valley
- Cloud-native

Mission: Simplify use of data across hybrid multi-cloud and K8s





Use-case 01: On-ramp to Hybrid Cloud (before Hammerspace)



■ Goals:

- Protect data
- Modernize apps
- Data mobility
- Break vendor lock-in

■ Challenges:

- Multiple storage vendors
- Copying all data between sites is inefficient and slow
- Cloud lacks complete enterprise data services
- Hard to manage data securely across sites





Use-case 02: Content Production (before Hammerspace)

▶ Media & Entertainment

■ Goals:

- Multi-site data collaboration
- Burst-to-cloud for post-production

■ Challenges:

- Automate workflows across sites
- Data sprawl makes it hard to present the right data in timely fashion
- Low performance slows production
- Multi-site data protection is complicated and expensive



IT Architect and
Storage Architect



Use-case 03: Kubernetes Data Mgmt. (before Hammerspace)

Financial Services

■ Goals:

- Use common infrastructure for Kubernetes
- Accelerate data workflows for DevTest
- Data protection for persistent data

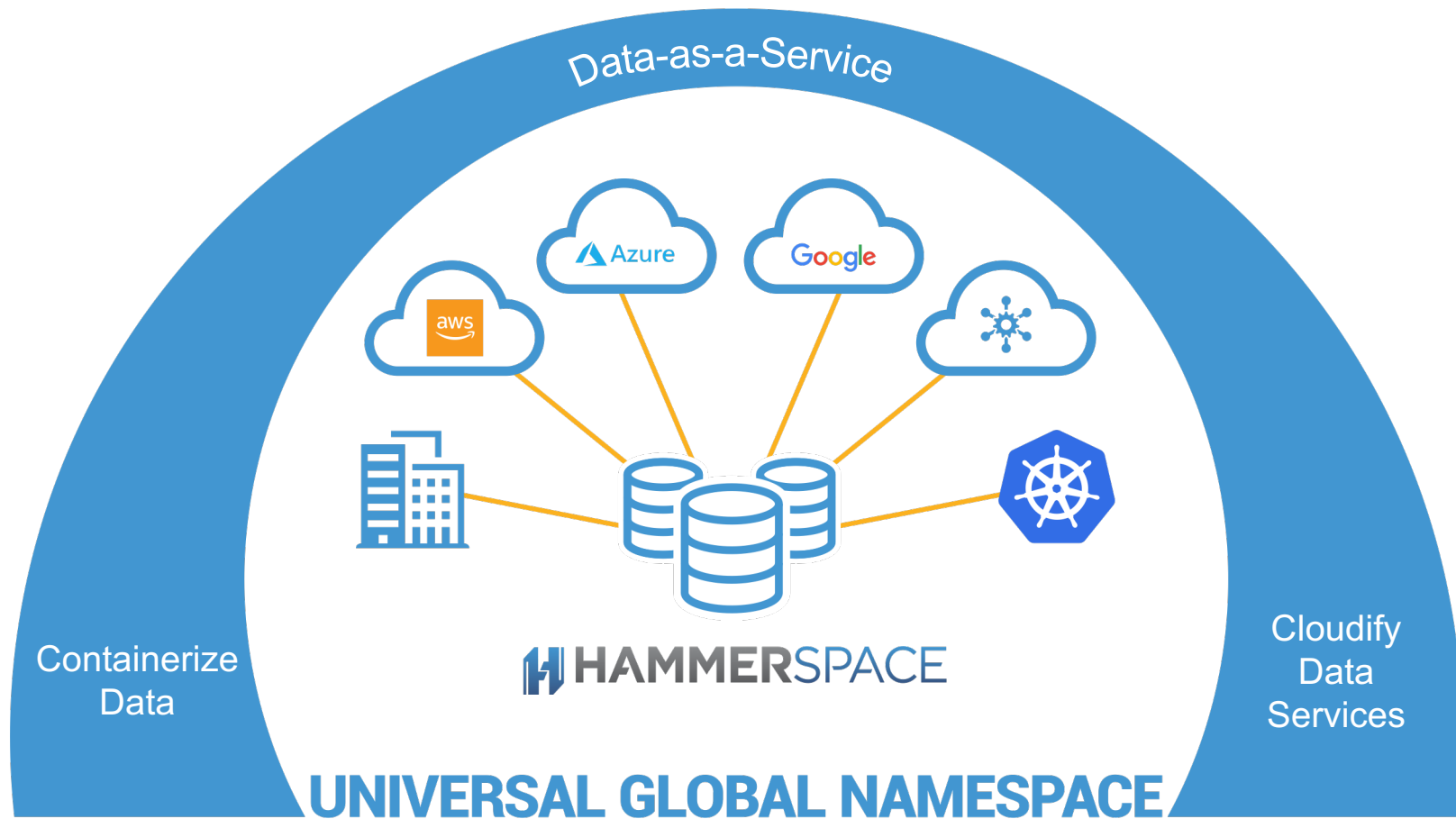
■ Challenges:

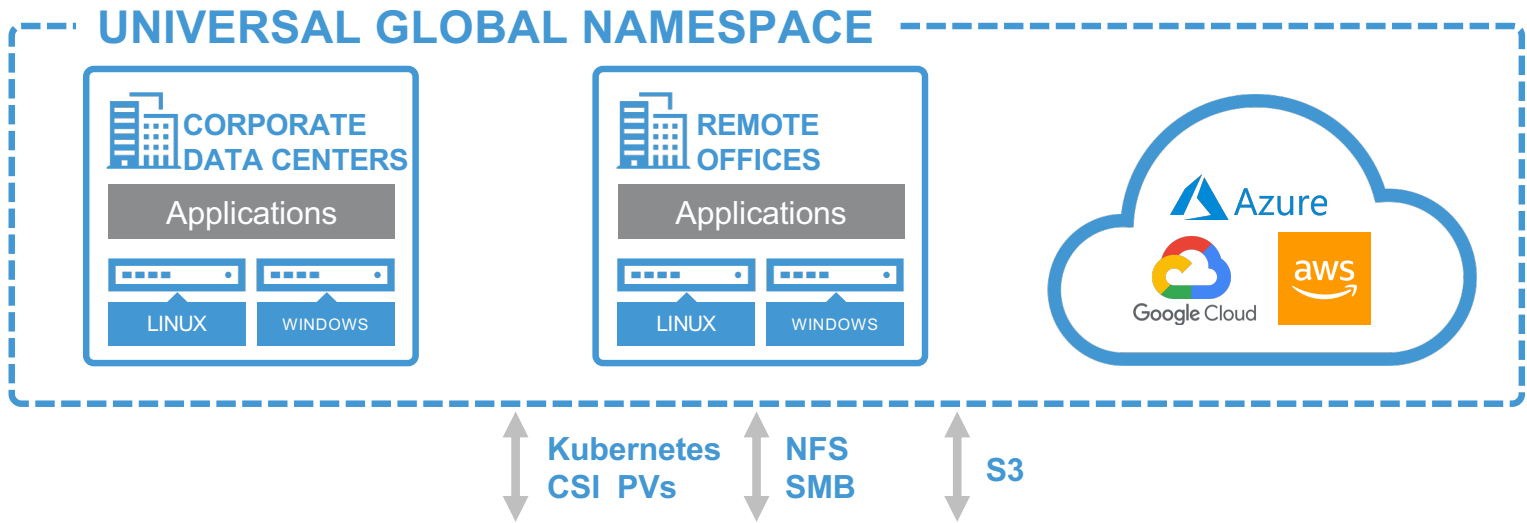
- Specialized container storage creates new silos
- Setting up DevTest environments with production data takes too long
- Kubernetes lacks enterprise data services and protection
- DevOps doesn't do storage



IT and DevOps

Defy Data Gravity – Rise above the infrastructure

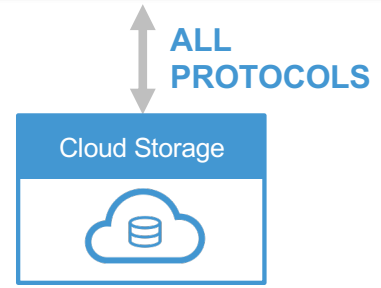
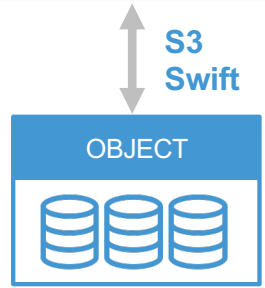
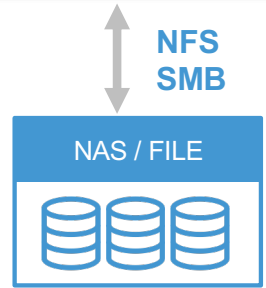
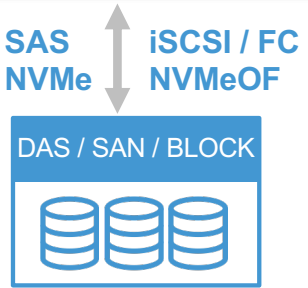




METADATA SERVICES **AUTONOMIC DATA SERVICES**

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Data-as-a-Service

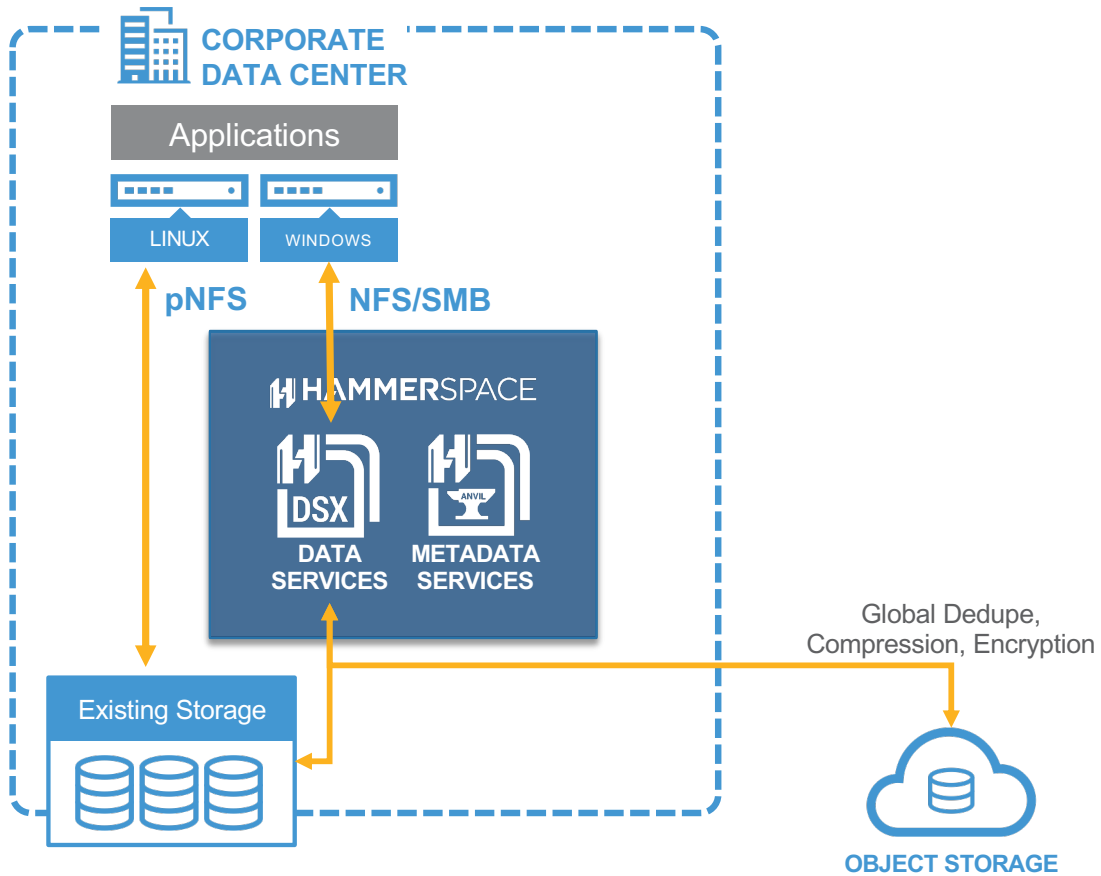
- Performance
- Availability
- Durability
- Governance
- Locality
- Cost savings





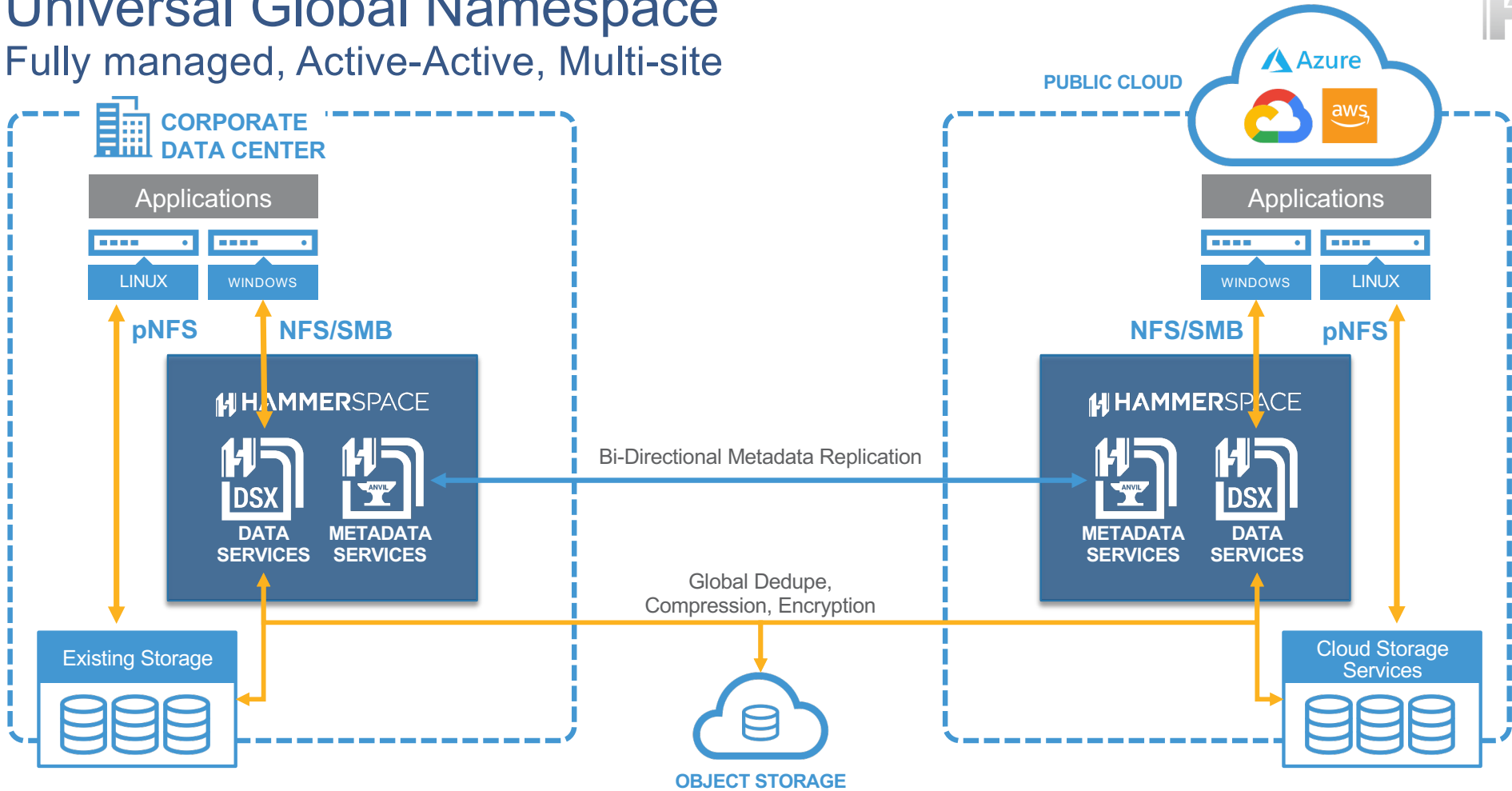
Universal Global Namespace

Fully managed, Active-Active, Multi-site



Universal Global Namespace

Fully managed, Active-Active, Multi-site



Enterprise Hybrid Cloud Data Services



File Granular Data Management



Support any
File, Block or
Object Storage



Live Data
Mobility



Optimized
Data
Placement



Intelligent
Data Tiering



Extensible
Metadata



Hybrid
Cloud
Storage

Hybrid Multi-Cloud



Integration with
Cloud Analytic
Services



Multi-site
Conflict
Disambiguation



Multi
Protocol
(NFS, SMB)



Active-active
Universal Global
Namespace

Data Protection



Active-active
DR



Encryption



Global
Snapshots



Undelete



Automated
Data Recovery

Kubernetes



Unified Block
and File



Data
Air-Gap



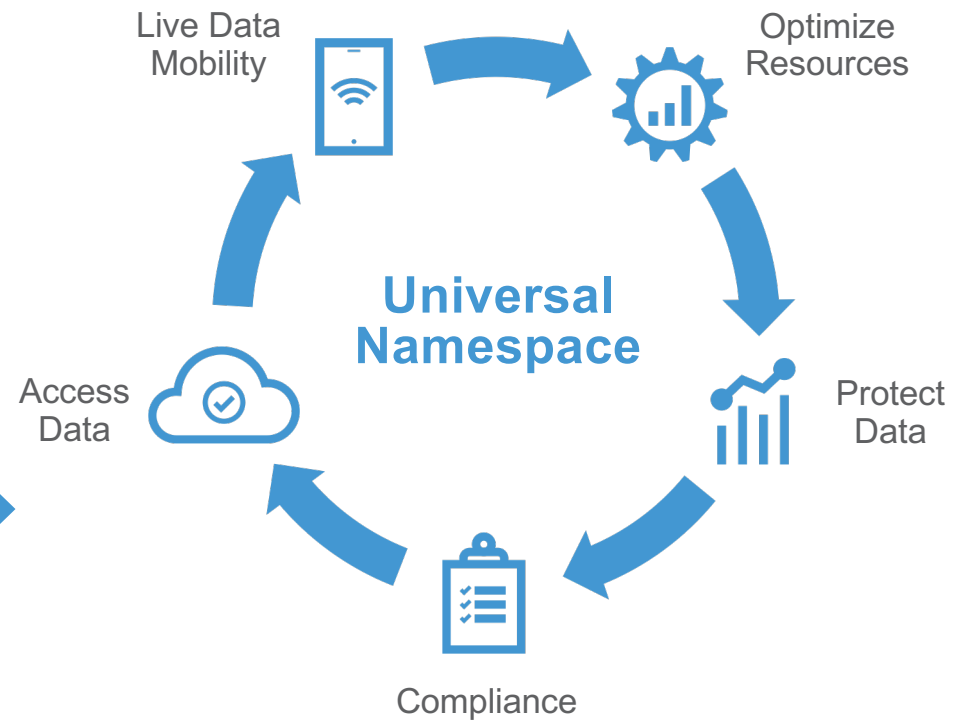
CSI Plug-in



On-Ramp to Hybrid Multi-Cloud

Simplify Burst-to-Cloud and Multi-site workflows

- Turn on Hybrid Cloud in 10 minutes
- Use existing data sources in-place
- Make any storage cloud-native
- Break vendor lock-in
- Cost vs. performance optimization

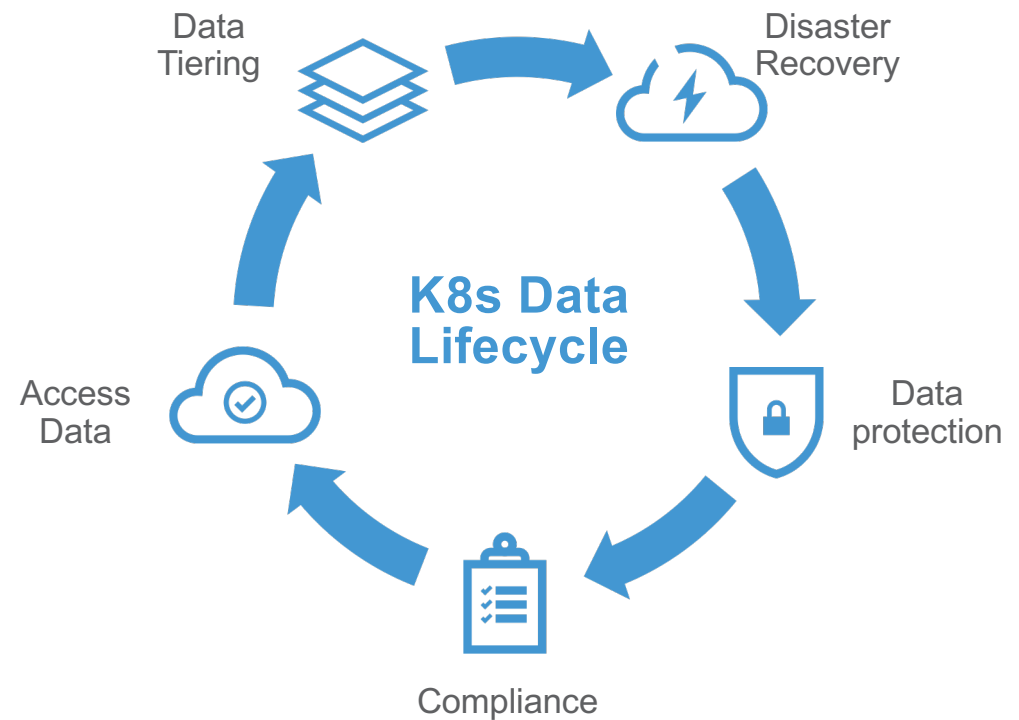




Bring Enterprise Data Services to Kubernetes

DevOps and Database workflows

- Make any storage K8s-native
- Multi-cluster support on any platform, local and over distance
- Instantly start stateful apps anywhere
- Native integration using container storage interface (CSI)
- Data protection using snapshots
- Active-active Disaster Recovery



The Customer Journey



Streamline Hybrid Multi-cloud


Cloud Performance Management


Cloud Cost Management


Reduce Legacy Infrastructure

DevOps DataOps


Multi-Cluster Kubernetes Data Management


DevTest Workflows


Stateful Apps in Production


Data Protection for Containers

On-Ramp to Hybrid Multi-Cloud


Burst-to-Cloud


Multi-site Collaboration


Autonomic Data Mgmt


Active-DR



Use-case 01: On-ramp to hybrid cloud (after Hammerspace)

Enterprise

- **Agility**
 - Instant data availability, everywhere
 - Apps run without modification
- **Control**
 - Data is protected on-prem and in the cloud
 - Reduced risk with autonomic data management
- **Efficiency**
 - Use existing storage infrastructure
 - Reduce IT intervention



IT Manager, Storage Architect



Use-case 02: Content Production (after Hammerspace)

▶ Media & Entertainment

▪ Agility

- Artists collaborate across multiple sites
- Use existing production tools

▪ Control

- Production performance is automated

▪ Efficiency

- Data flows at file level granularity

IT Architect and
Storage Architect





Use-case 03: Kubernetes Data Mgmt. (after Hammerspace)

Financial Services

▪ Agility

- Access data across multiple clusters
- Non-disruptive data mobility

▪ Control

- Protect data in K8s
- Adjust storage performance on-the-fly

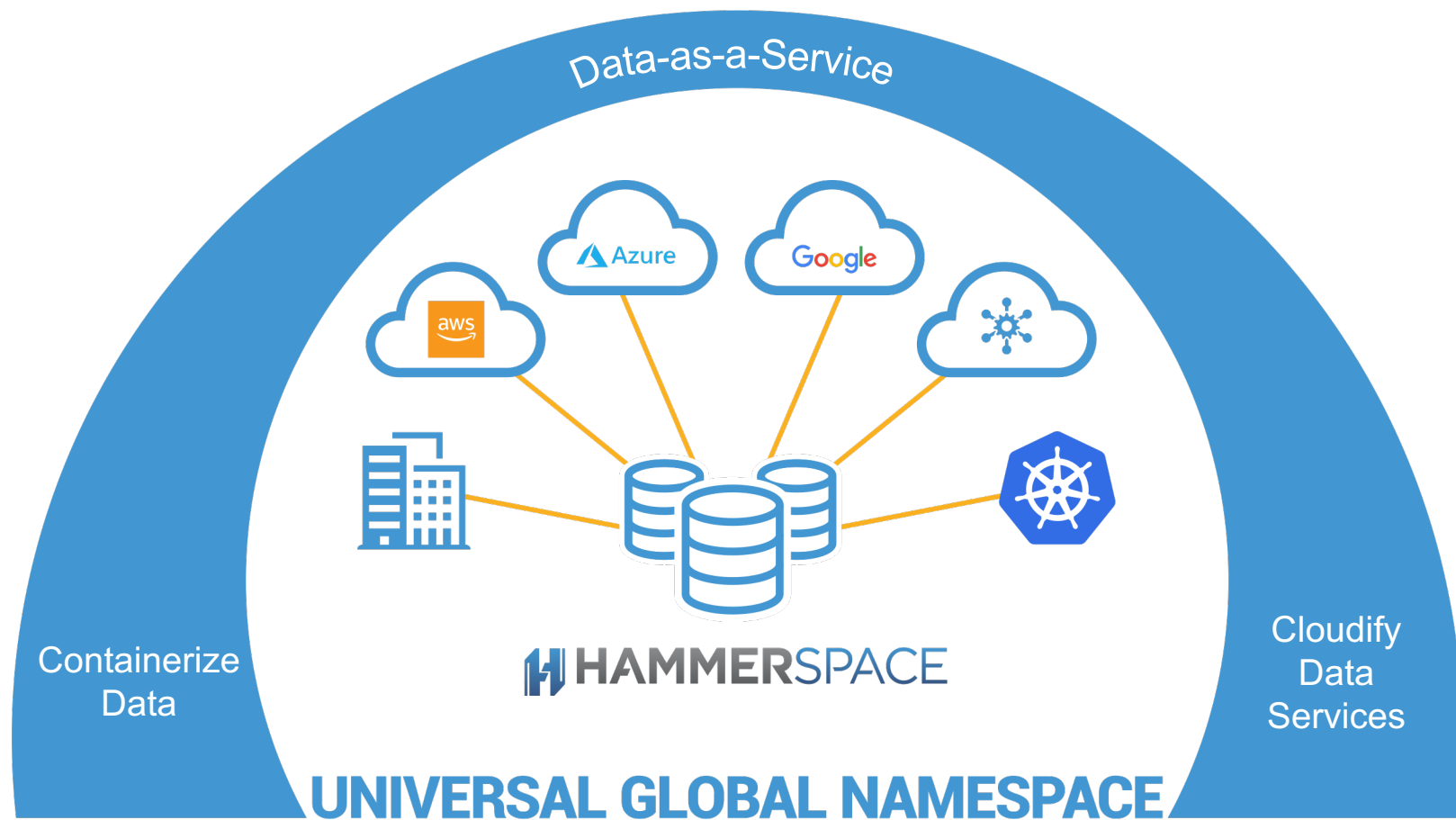
▪ Efficiency

- Make any storage cloud-native
- Copy-free DevTest workflows



IT and DevOps

Defy Data Gravity – Rise above the infrastructure





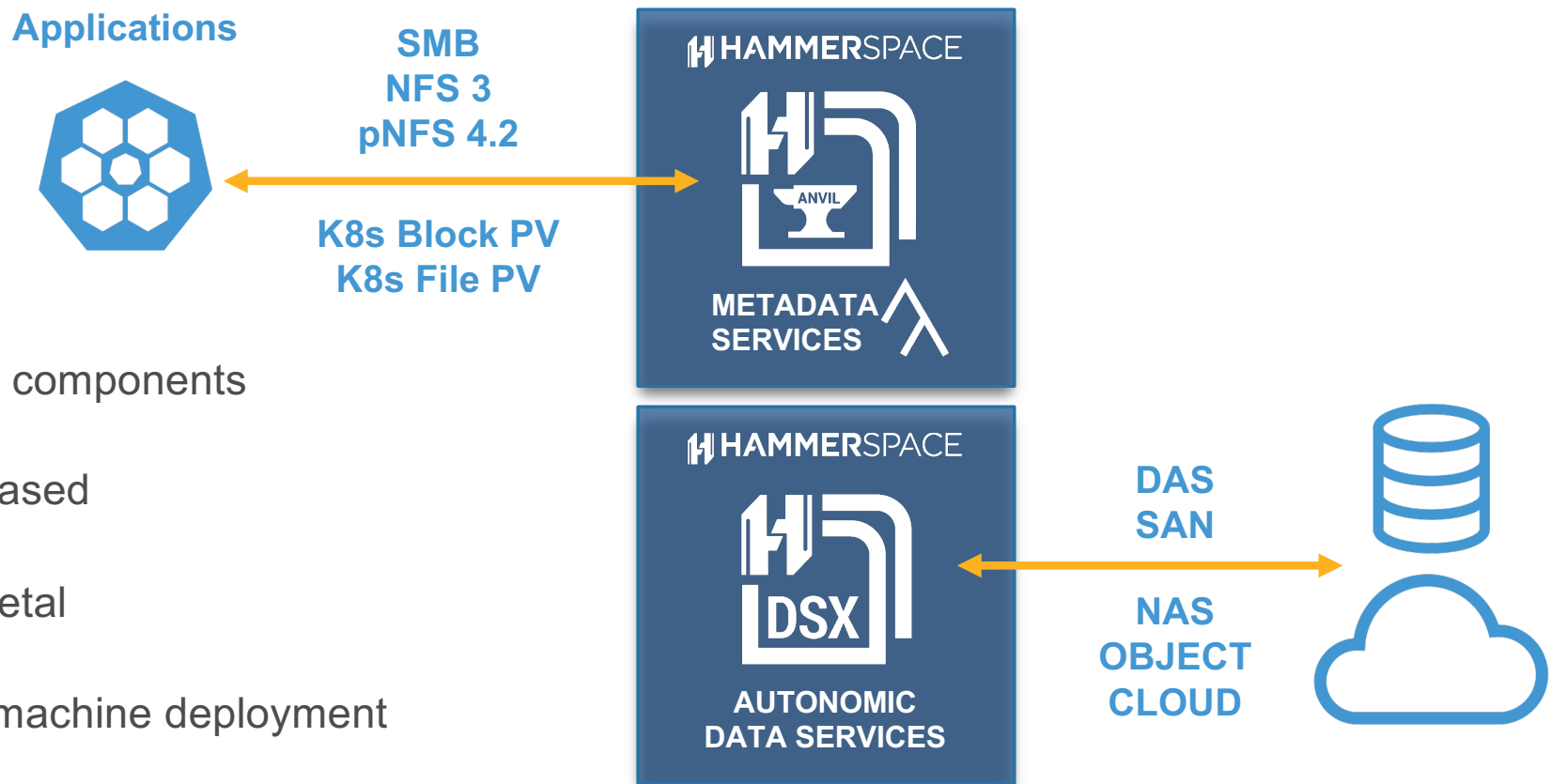
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APPENDIX

Hammerspace Software Components

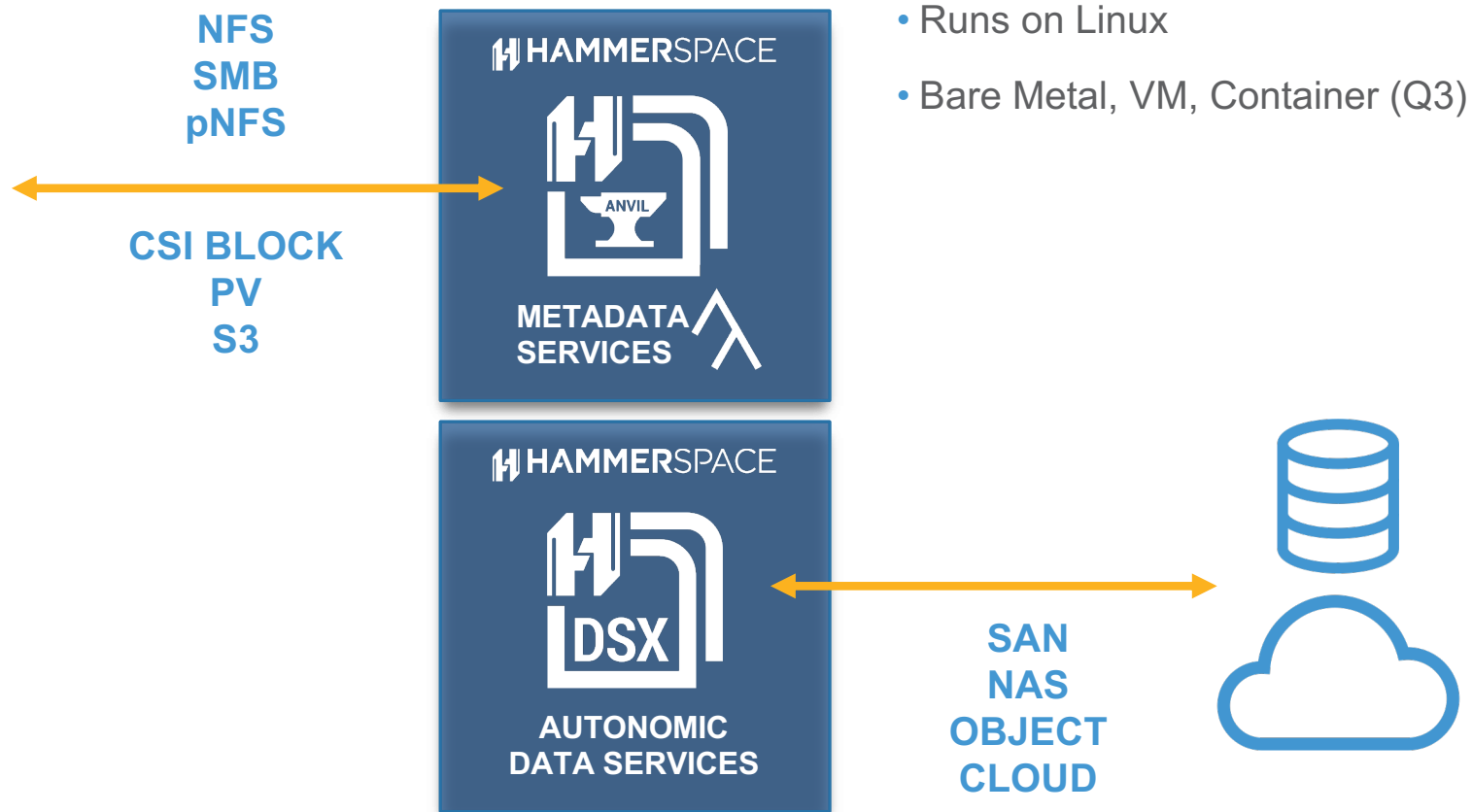


- 2 major components
- Linux-based
- Bare-metal
- Virtual machine deployment



Demo

Hammerspace Software





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