DATACORE™

vFilO™ Distributed File and Object Storage Virtualization

An Ideal Complement to Your SANsymphony™ Block Storage Virtualization

The Authority on Software-Defined Storage

C’est moi

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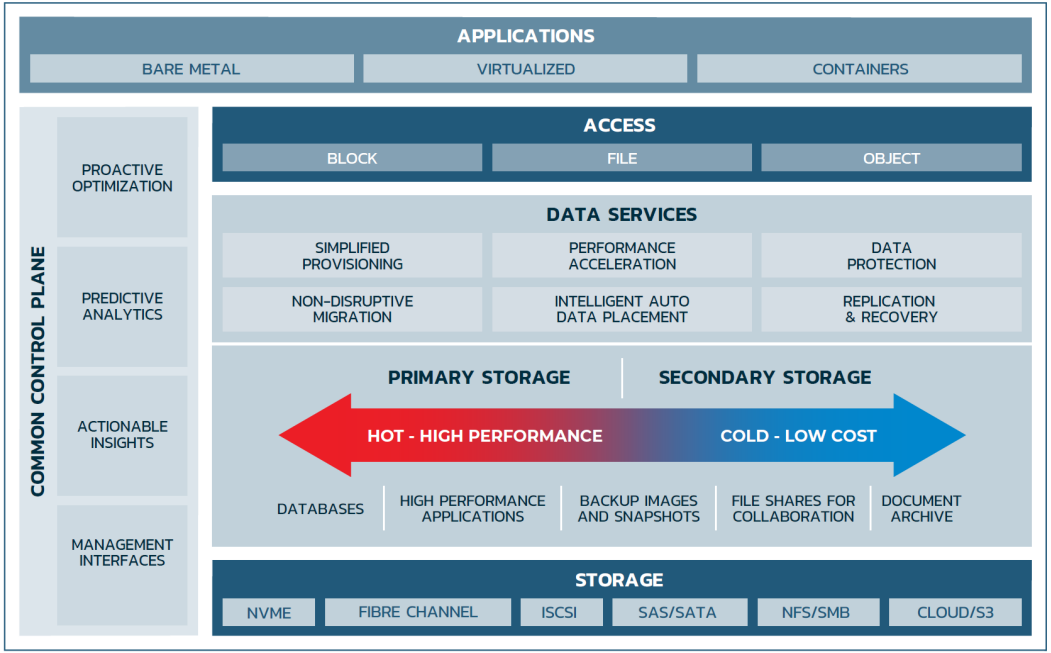
DATACORE one

vFilO

"A major step towards fulfilling the vision."

Dave Zabrowski, CEO



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Une solution pour toutes les données

*H1 CY202

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What Problems Are We Solving?

Separate Filers –> FRUSTRATING!

Challenge: $1000 to first person that finds the 2 files I'm looking for in less than 1 hour

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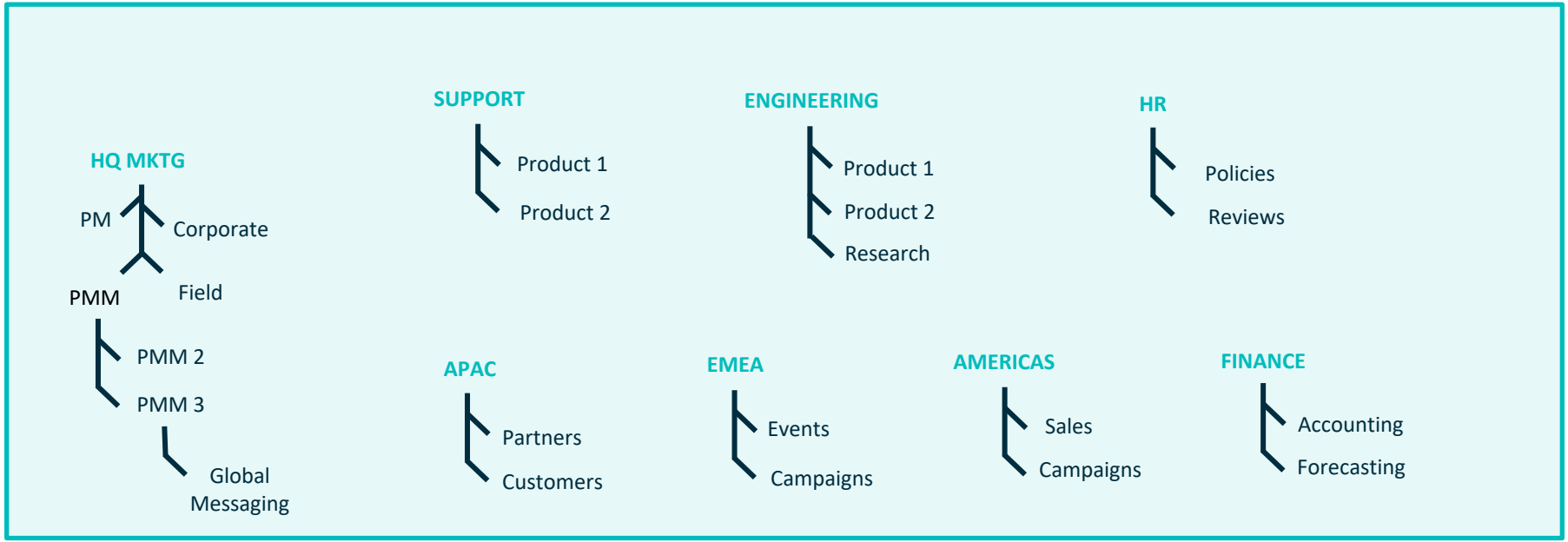
Global Namespace with **Tags** -> Easy

/omniShare

USER: Find latest LAB output file



DEVOPS: Archive files untouched in 6 months

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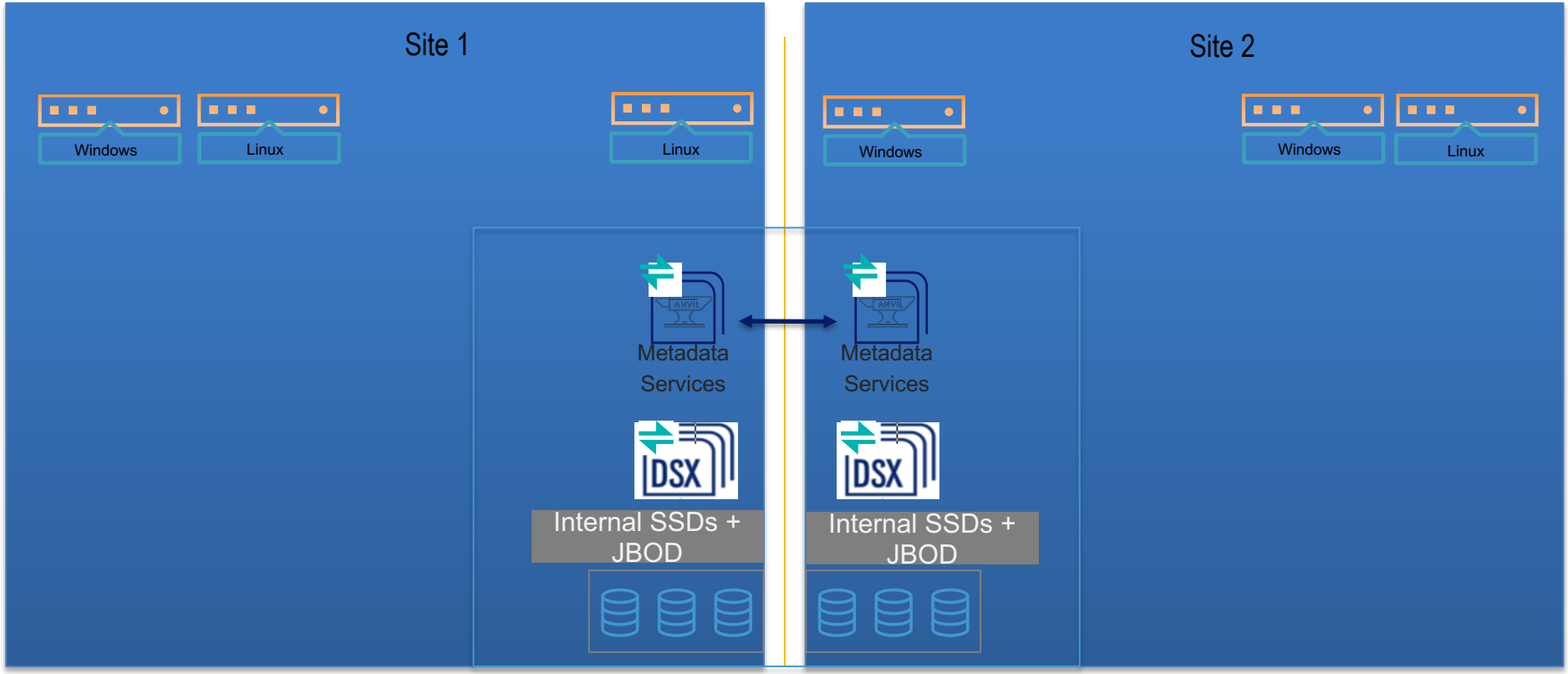
Design sample



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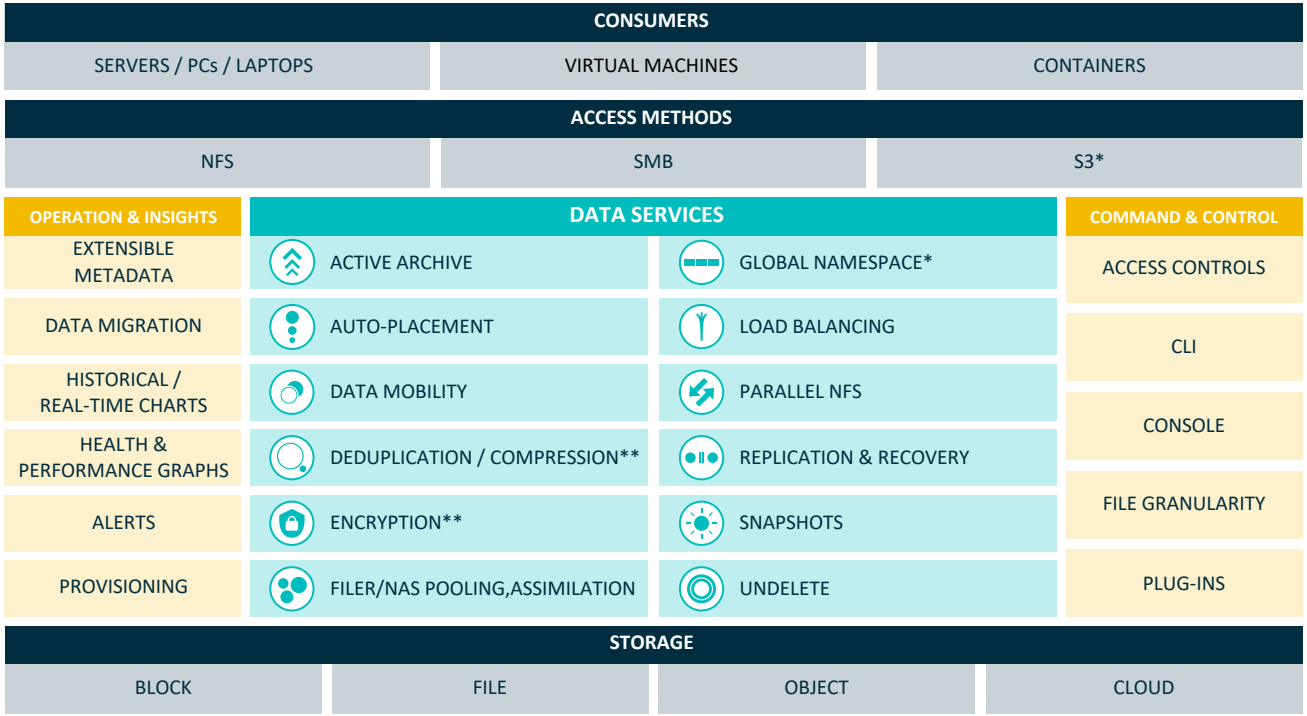
Data Services Overview



*H1 CY2020

**When combined with 3rd party object storage

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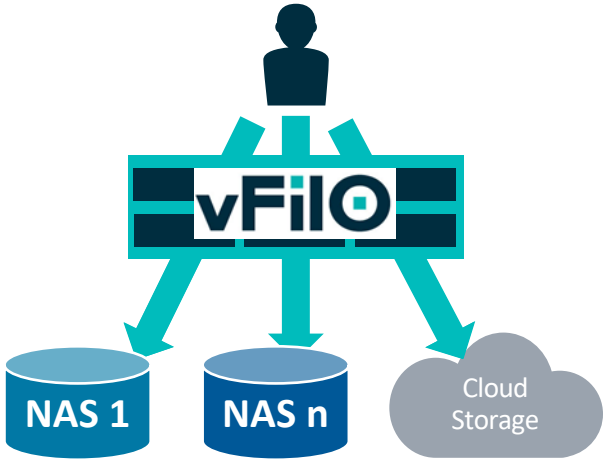
Use Cases

1. Consolidate namespace (file catalog) from several filers so files can be easily found, accessed, shared, and backed up
2. Leverage object storage or cloud as lower cost resource for:
   a) Archiving infrequently used files
   b) Replicating critical files
3. Scale out & load balance file shares to keep up with unstructured data growth



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DataCore vFilO Solution

- Assimilate existing filers under a virtual scale-out NAS in minutes
  - Leave data untouched (no throw away, no migration)
  - Retain file attributes (permissions, time stamps, owners, etc.)
- Create one global, scalable / searchable catalog
  - Users don't have to know which filer the data sits on
  - Enable access from mixed protocols (NFS v3 v4.2, SMB v2 v3, S3*)
- Load balance new requests across all available storage systems
- Leverage elastic cloud storage as extension to on-prem capacity
- Dynamically relocate data to most appropriate device based on business intent & granular policies (performance, availability, cost, age, etc.,)

*H1 CY2020

Common approach for file- and object-based data

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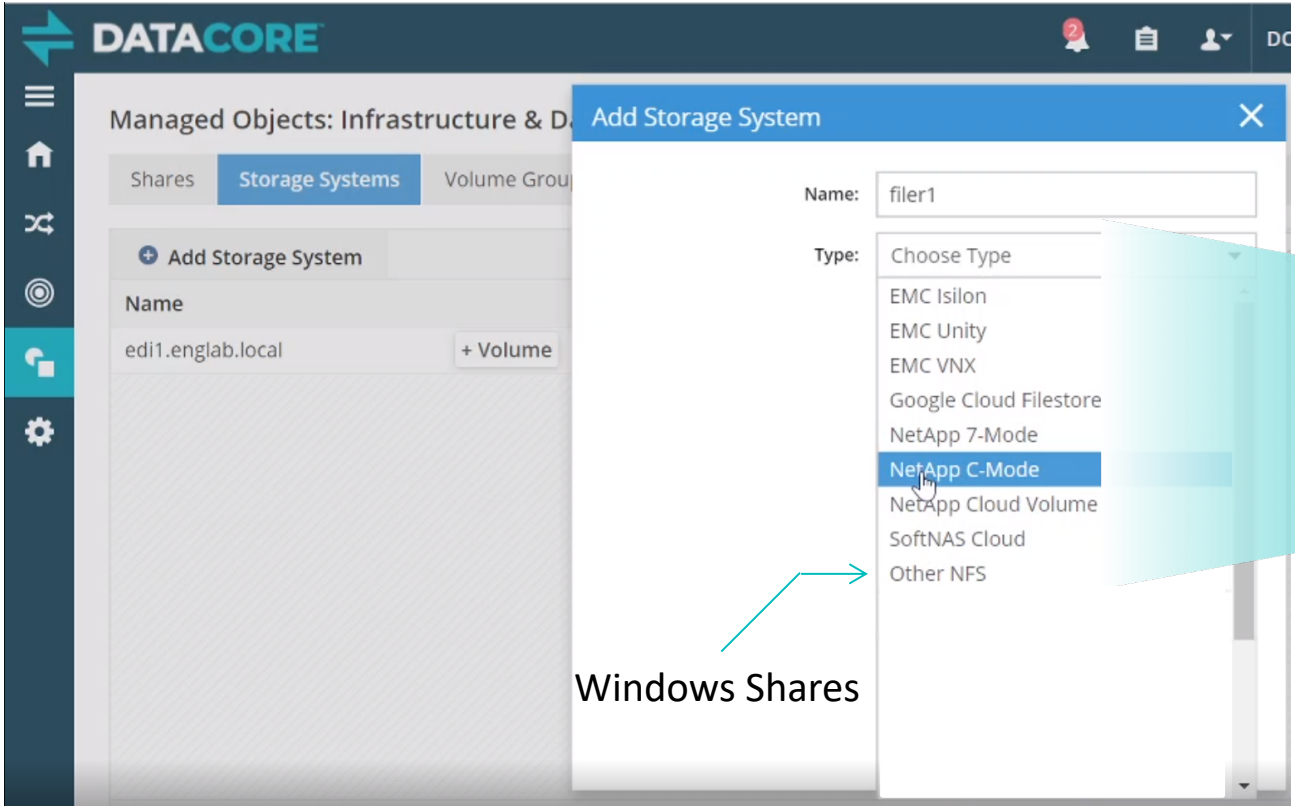
Assimilate Existing File Shares



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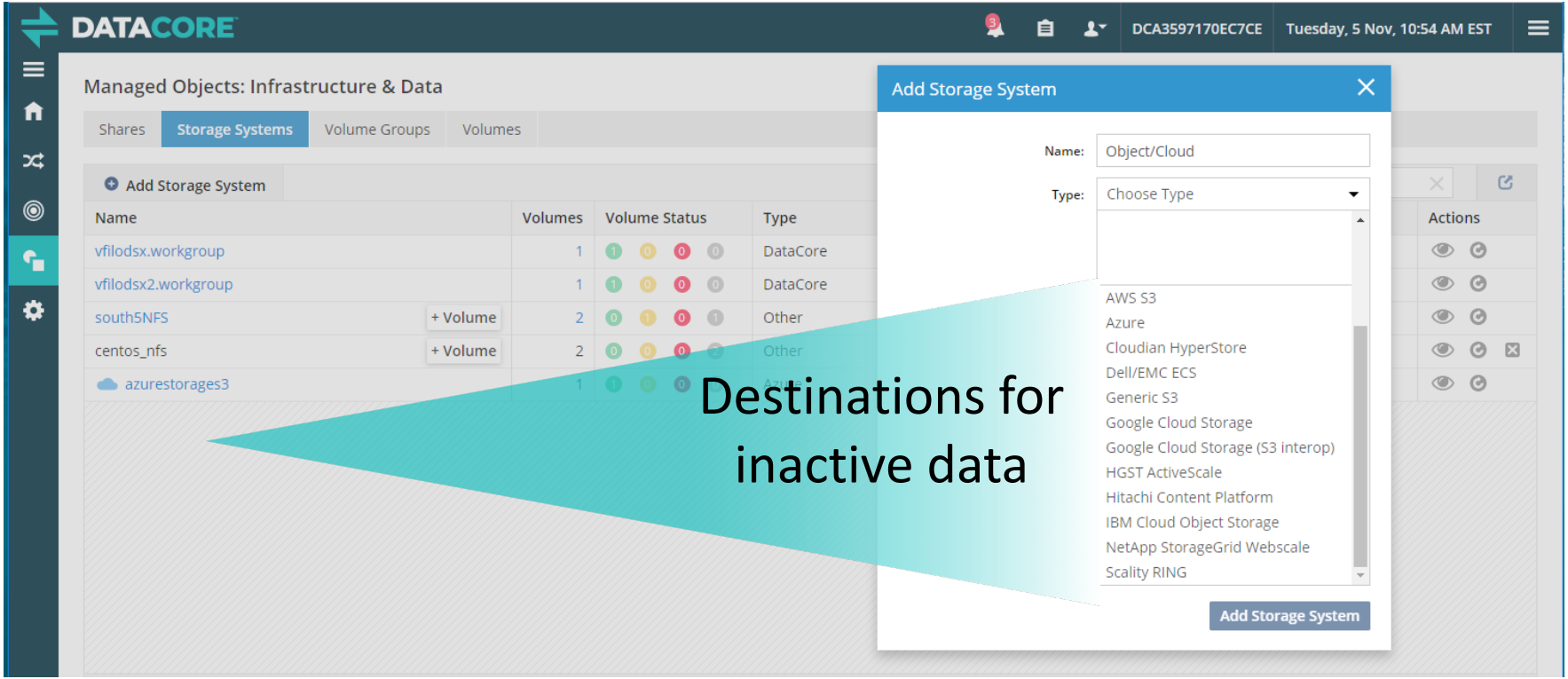
Assign Object/Cloud Storage



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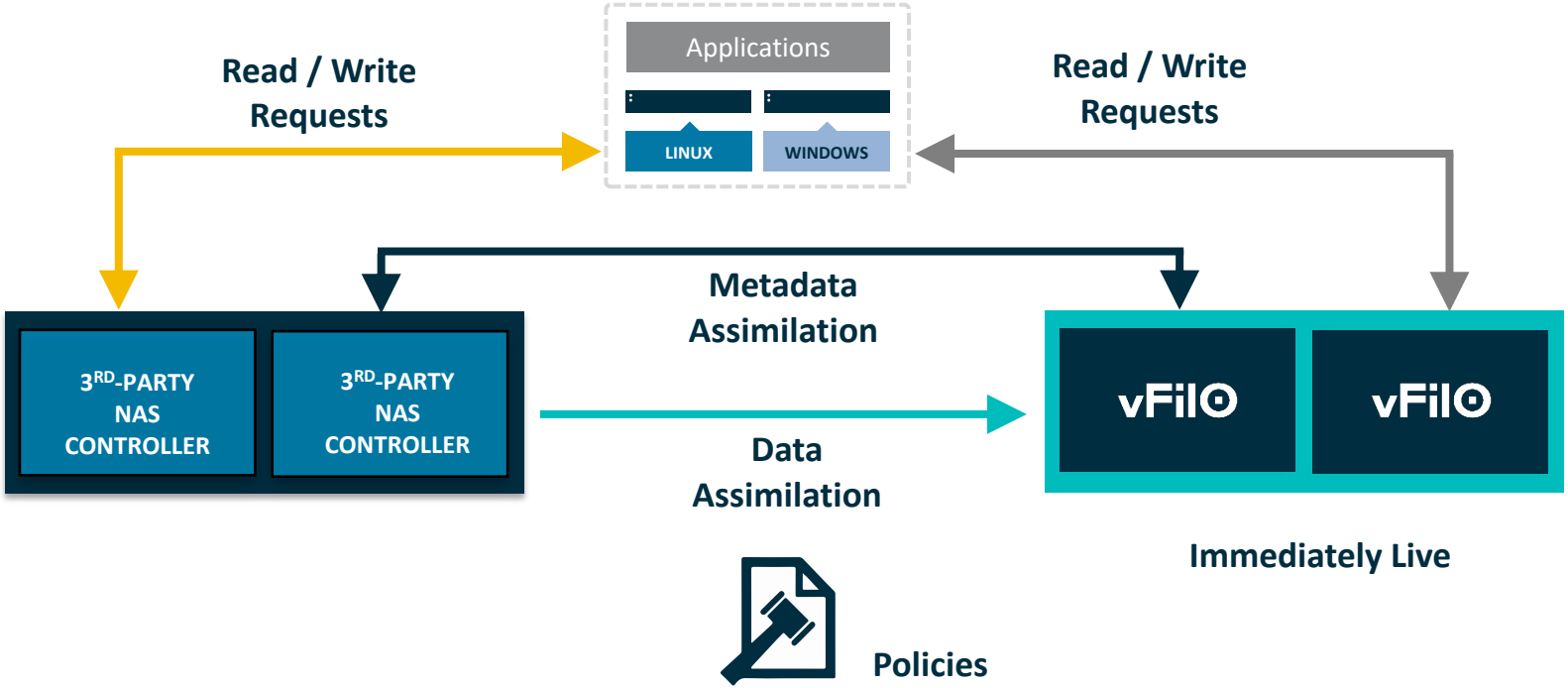
Live “Migrations”



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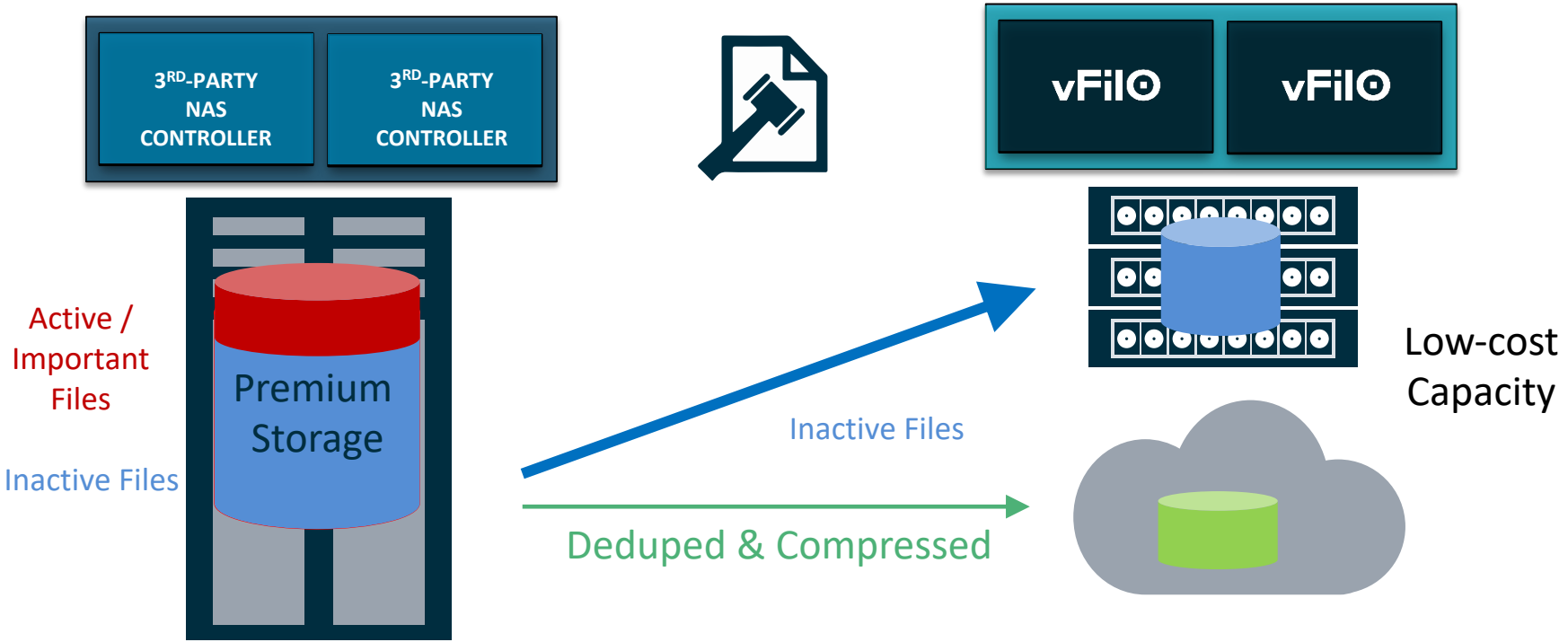
Best Use of Space for Major Savings



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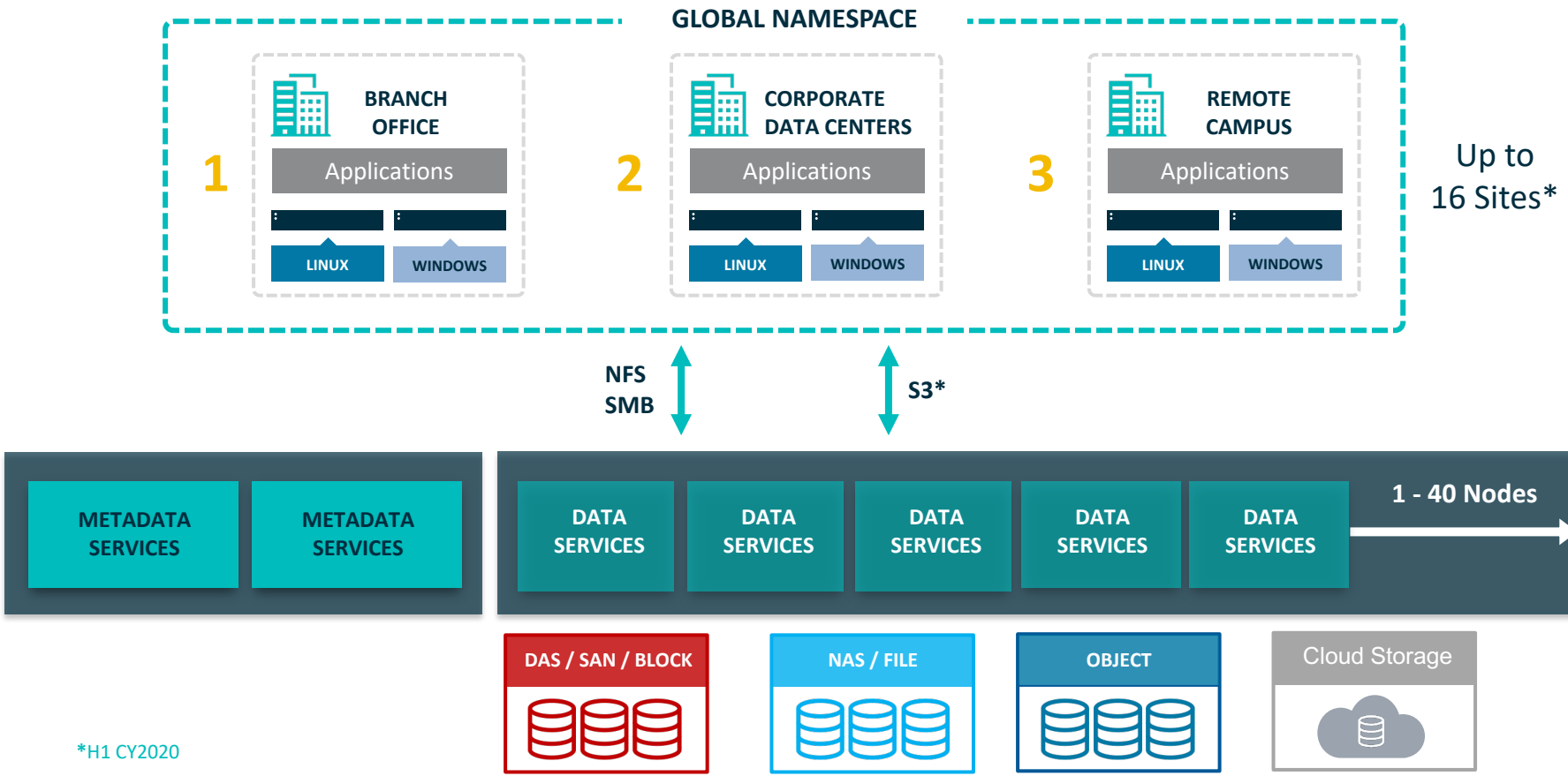
vFilO Spans Multiple Sites



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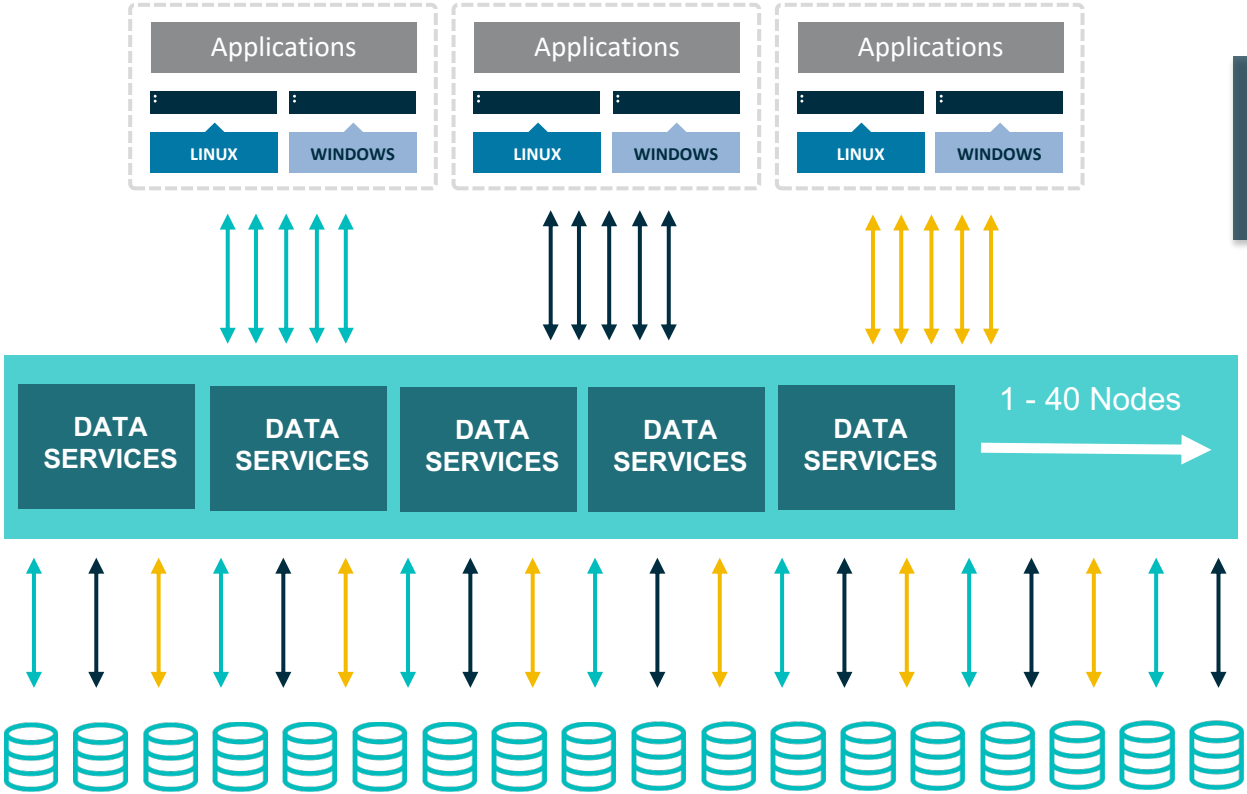
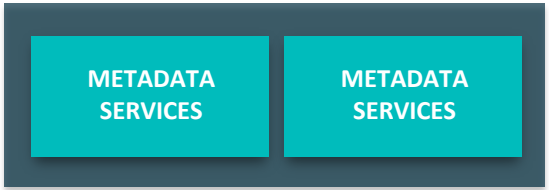
vFilO Scale-out Parallel File System





Load Balancing

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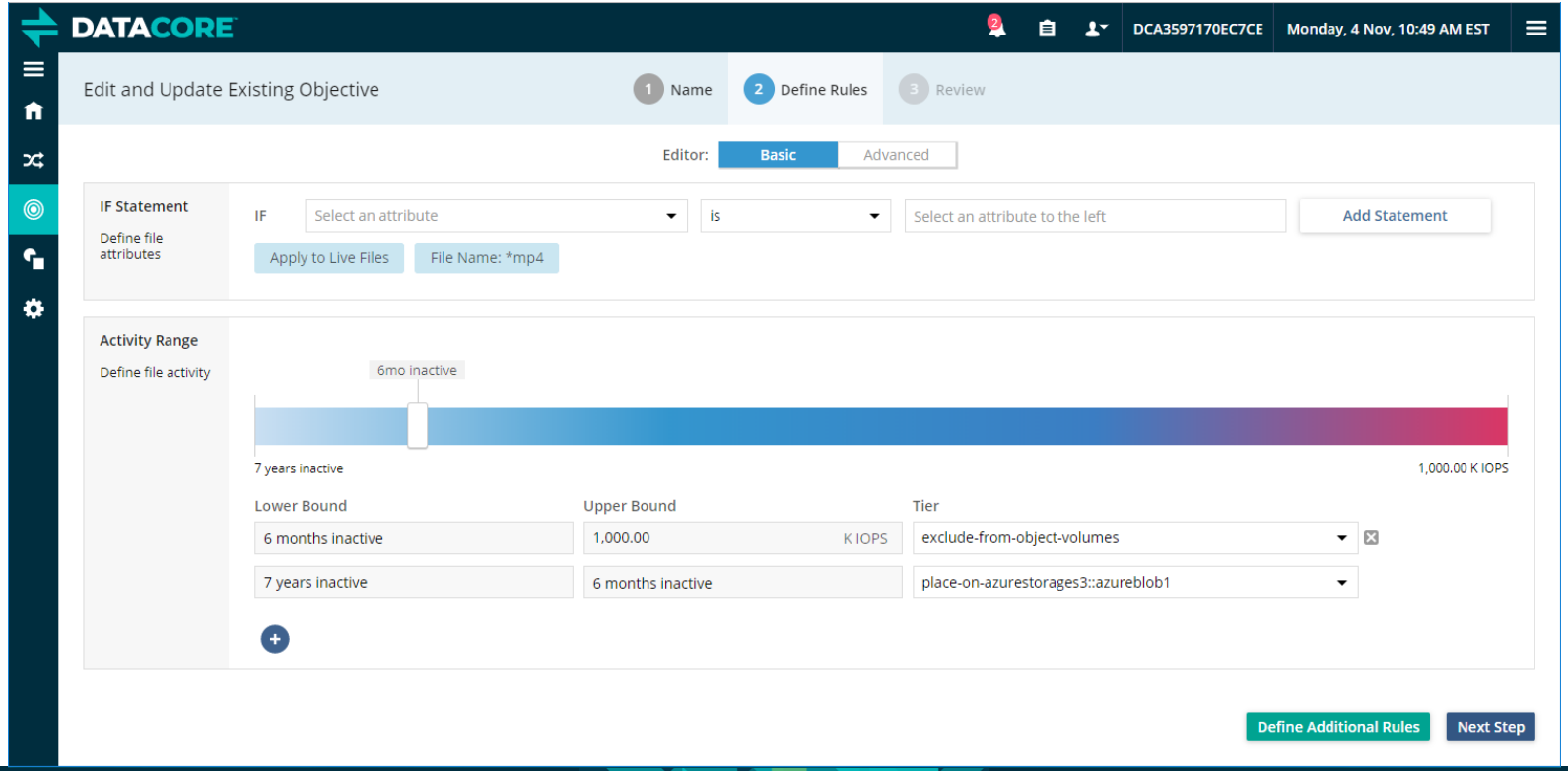
Simply State Your Objective(s)



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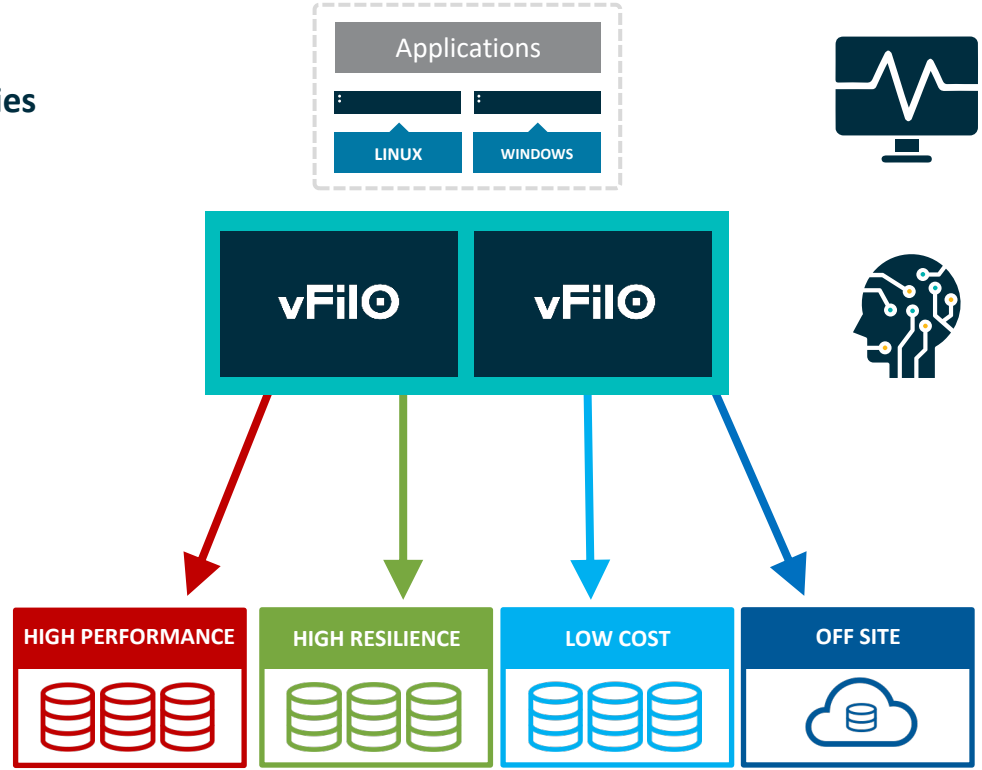
Autonomic Data Placement

Policies

- Performance
- Resiliency
- Cost
- Location
- Aging

Specific or Fuzzy



Telemetry

Machine Learning

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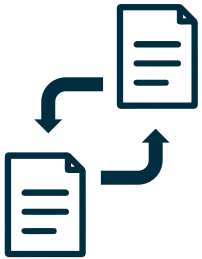
File-Level Granularity

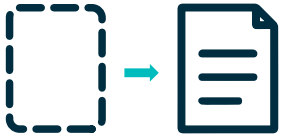
Quicker & more efficient than @ volume level

POLICIES

SNAPSHOTS / CLONES



DATA MOBILITY



RECOVERY / UNDELETE

REPLICATION / RECOVERY TO THE CLOUD

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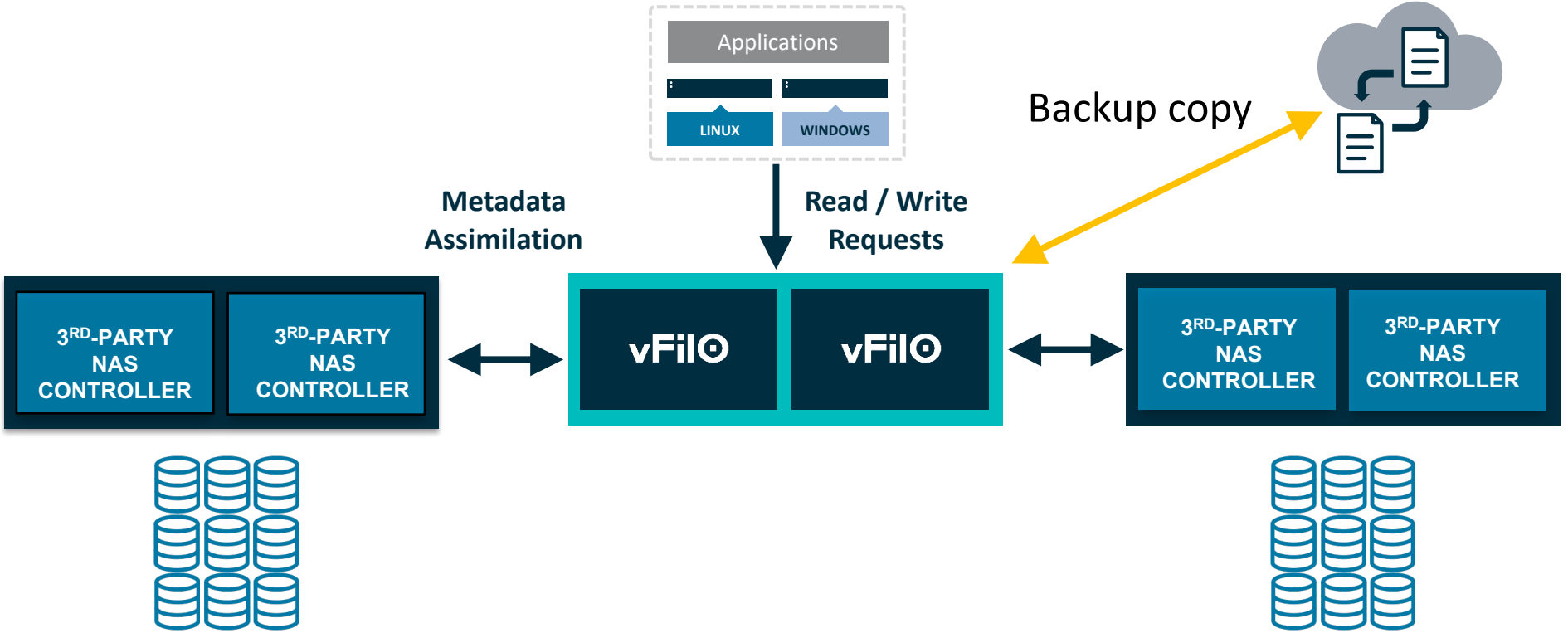
Replicate Data to the Cloud



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Metadata Assimilation

- Copy **only** metadata from N-number of NAS systems
- Perform analytics using 3rd-party tools
- Gain greater insight into your data complex

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Exceptional Business Value

IMPROVE VISIBILITY & CONTROL

- Measurably improve productivity and collaboration with faster, easier access to files & multimedia
- Derive new business insights gleaned from metadata
- Fulfill data governance obligations

ENHANCE OPERATIONS

- Recover time lost shuffling files around & backing them up
- Avoid disruptive data migrations
- Track / adjust where data is stored & how much it costs

REDUCE COSTS

- Save by moving inactive data & replicas to lower cost cloud storage, deduped / compressed
- Avoid buying more premium storage by uncluttering it & fully utilizing its capacity

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vFilO Pricing

ACTIVE DATA [AC]	INACTIVE DATA [IN]
KEPT ON PRIMARY STORAGE	DEDUPED & COMPRESSED IN OBJECT / CLOUD STORAGE

- Based on capacity consumption in Terabytes (TBs)
- 1-year and 3-year subscriptions include support
- 10 TB minimum order in 1 TB granularity
- Volume discounts
- Scale data services (DSX) nodes as needed @ no extra charge

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vFilO Distinctive Advantages

- Immediate instantiation of file systems (no data move required)
- Parallel I/O *even* with legacy NFS and SMB protocols
- Selectively assimilate 3rd-party file systems without replicating all data
- Undelete function enabling zero RPO
- Policy-driven autonomic live-data tiering and mobility
- File granular snapshots, clones, replication, and recovery
- Extensible metadata for tagging, classification, and customer descriptors

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vFilO Benefits & Differentiation

- **VISIBILITY & CONTROL**
- **SIMPLICITY**
- **EFFICIENCY**
- **ULTIMATE FLEXIBILITY**
  - **Freedom of Choice**
  - **Data Mobility**

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Next Steps

- View 30-minute product tour / demo

https://datacore-software.wistia.com/medias/fdwogjeaqw

- Contact your DataCore partner to learn where best to apply vFilO

www.datacore.com

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Questions?

info@datacore.com
www.datacore.com

vFilO Implementation

- Global namespace (across sites for file- and object-based data)*
  - Accessible from mixed protocols (NFS, SMB and S3*)
- Automated load-balancing across diverse filers
  - Scale-out architecture (grow and shrink)
  - High performance parallel NFS (for fast response)
- Live-data mobility (automated, policy-driven)
- Dedupe / compress / encrypt on object storage and cloud
- Enterprise-class snapshots, clones, replication
- Self-service undelete (recycle bin)
- Telemetry on usage patterns / storage behavior factored in data placement
- Extensible **metadata** kept apart from data for keyword queries / ad-hoc correlation

*H1 CY2020

PACKAGING: Linux-based, self-contained image runs on a VM or on bare-metal

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