

# Under the Hood: 4 Pillars of the Komprise Architecture

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## Agenda

About Komprise

Data Management Challenges

Four Pillars of the Komprise Architecture

- Distributed Analytics & Search
- Storage Agnostic & Non-Intrusive
- Redundant, Transparent Hierarchical File System
- Distributed Scale-Out Architecture

Q&A

## About Komprise

- Leader in Intelligent Data Management
- Built from the ground up to eliminate cost and complexity
- Adaptive, no stubs, no agents, no dedicated infrastructure, no scaling limits
- Customers include Fortune 500
- 100s of PBs of data under management

*"Komprise appeals to IT organizations with growing unstructured data—it gives a new weapon in the arsenal for IT leaders to make decisions on data."*

- Vice President, Gartner

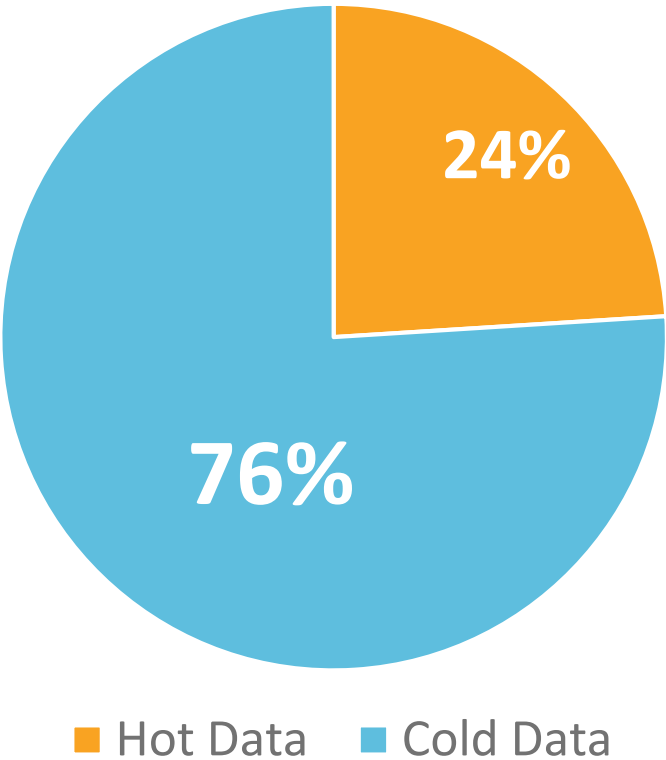


Challenge: Unstructured Data is Growing in Every Industry

Actual Amount of Cold Data Not Accessed in > 1 Year

Industry	Cold Data	YoY Growth
Banking, Insurance	66%	22%
Healthcare	82%	18%
M&E	88%	20%
Genomics	45%	300%+
EDA	61%	25%

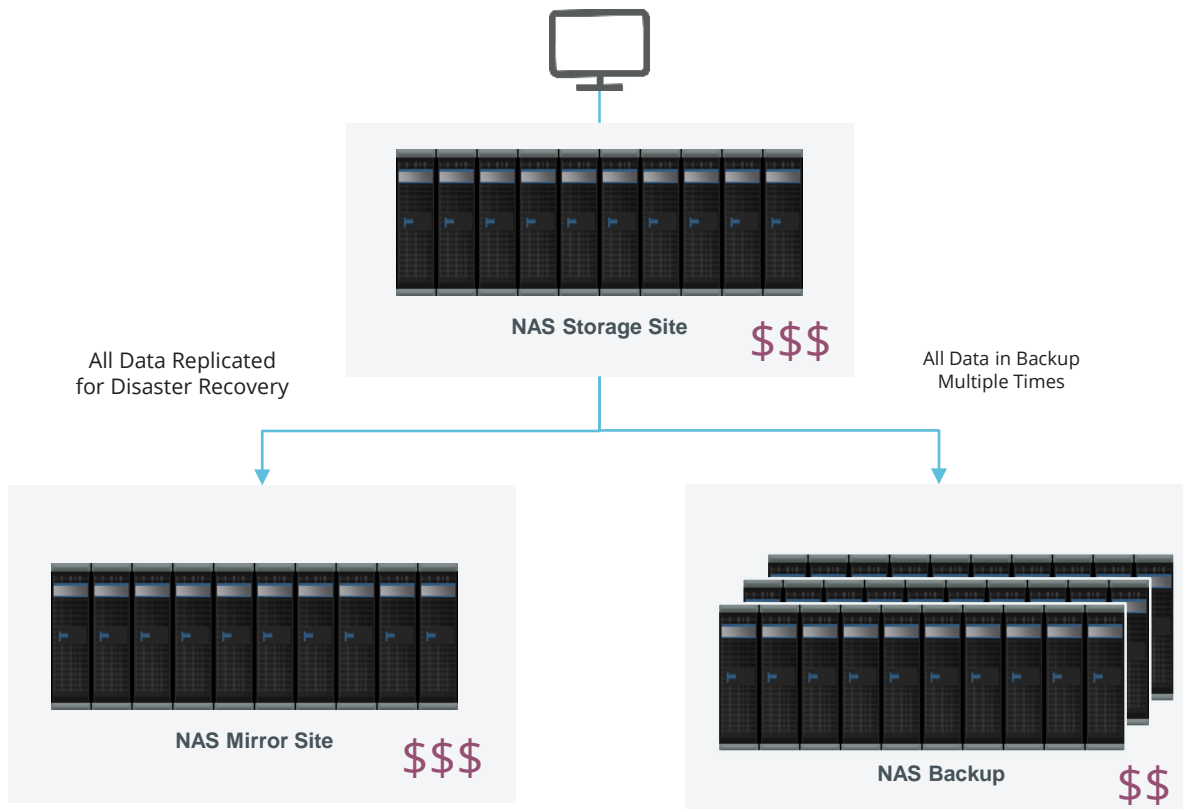
\* Figures aggregated across customer data



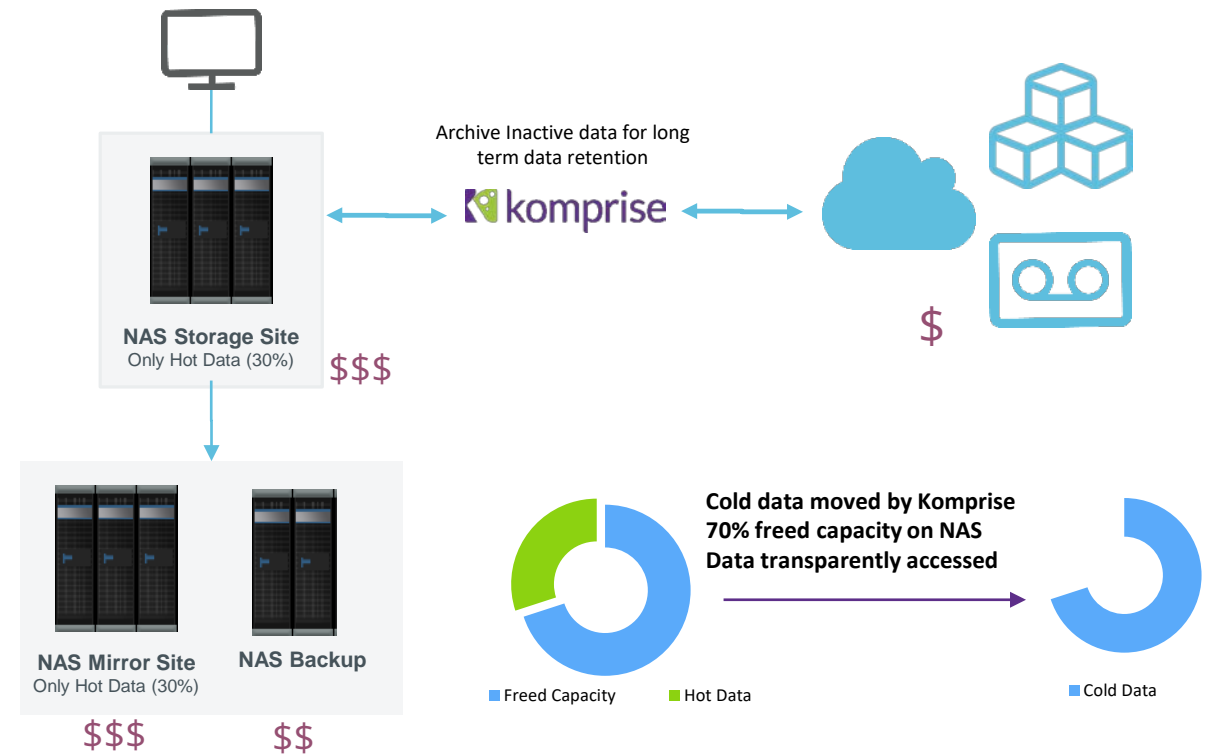


## Challenge: Managing All Data as Mission Critical

### Traditional Deployment



### Komprise & Secondary Storage



Architecture: No Bottlenecks; Non-disruptive; Resilient

Agentless & stubless

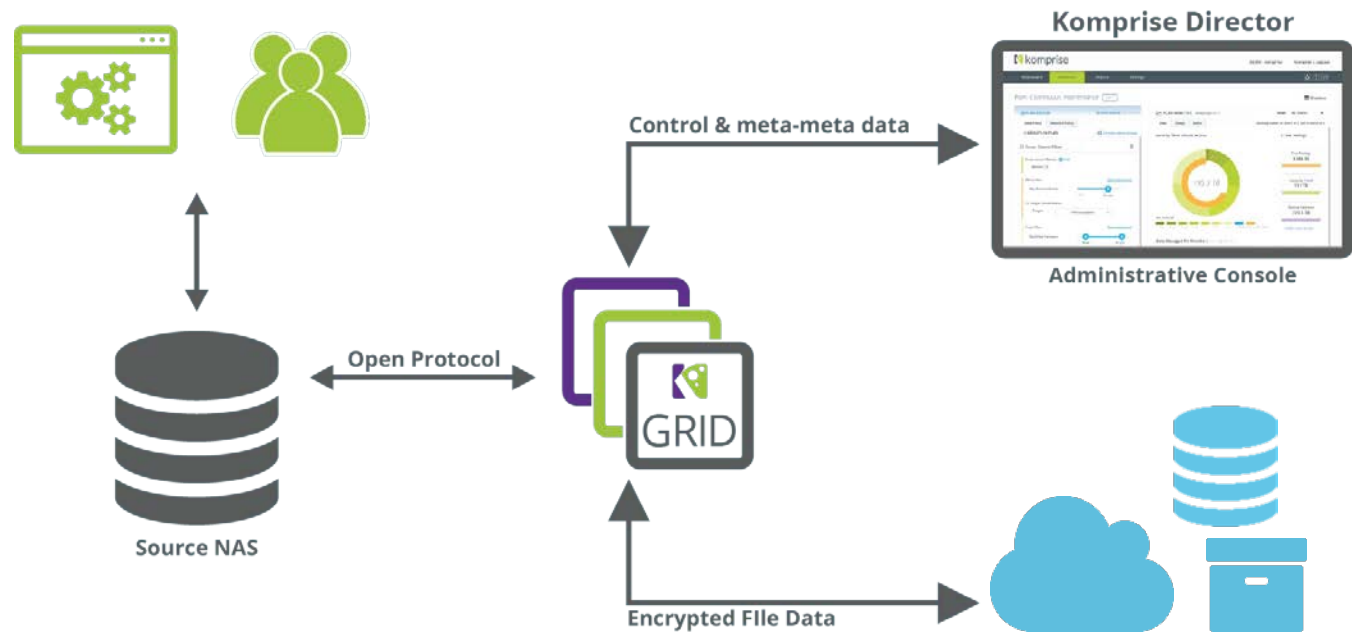
Software based

Outside hot data path

Simple to configure & use

Scale-out

Open



**Distributed  
Analytics  
&  
Search**

**Storage  
Agnostic  
&  
Non-  
Intrusive**

**Redundant,  
Transparent  
Hierarchical  
File System**

**Distributed  
Scale-Out  
Architecture**

## Distributed Analytics & Search

Used to optimize and drive how Komprise moves, archives, replicates and manages data to suit your particular environment as well as unique data needs.

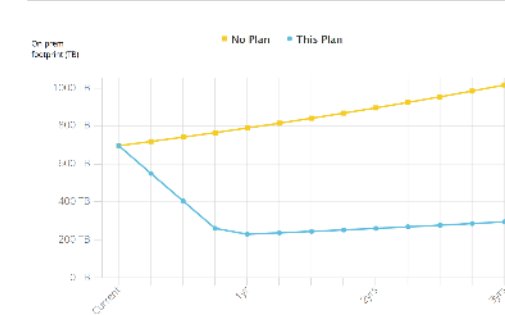
Super fast analytics engine provides insight into PBs data

Designed for handling billions of files and thousand of shares

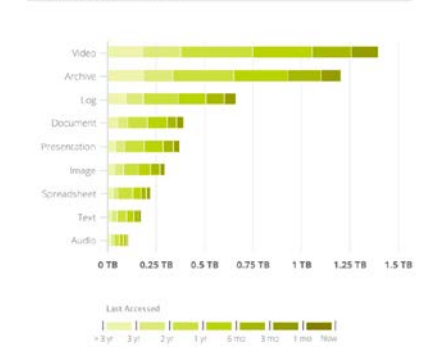
Built in robustness and handle intermittent network outages and failures

Provides deep insight through a distributed search & analytical framework on all meta-data across storage

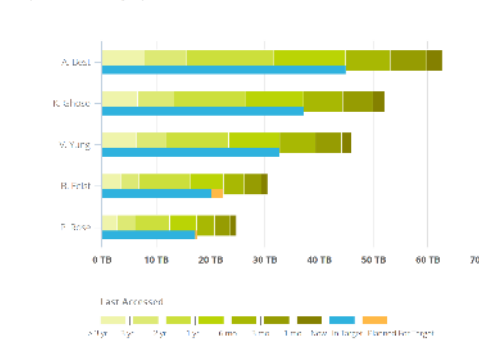
Data Managed On-Premise | Savings Details



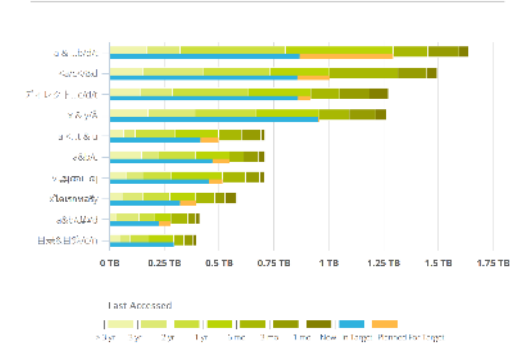
Space consumed by file type



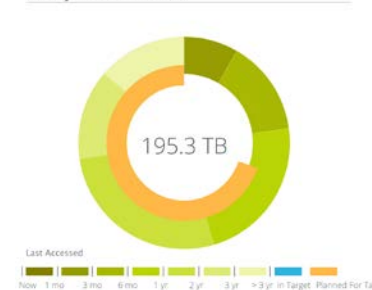
Space consumed by top owners



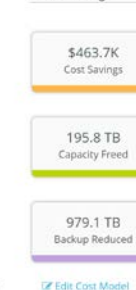
Space consumed by top directories



Data by Time of Last Access



3 Year Savings





## Storage Agnostic & Non-Intrusive

Built on open standards SMB/CIFS, NFS, REST/S3

Outside the hot data and meta-data path

Moves data without putting agents on the storage or by using proprietary, error-prone static stubs

Uses dynamic links, which are highly resilient and native to filers

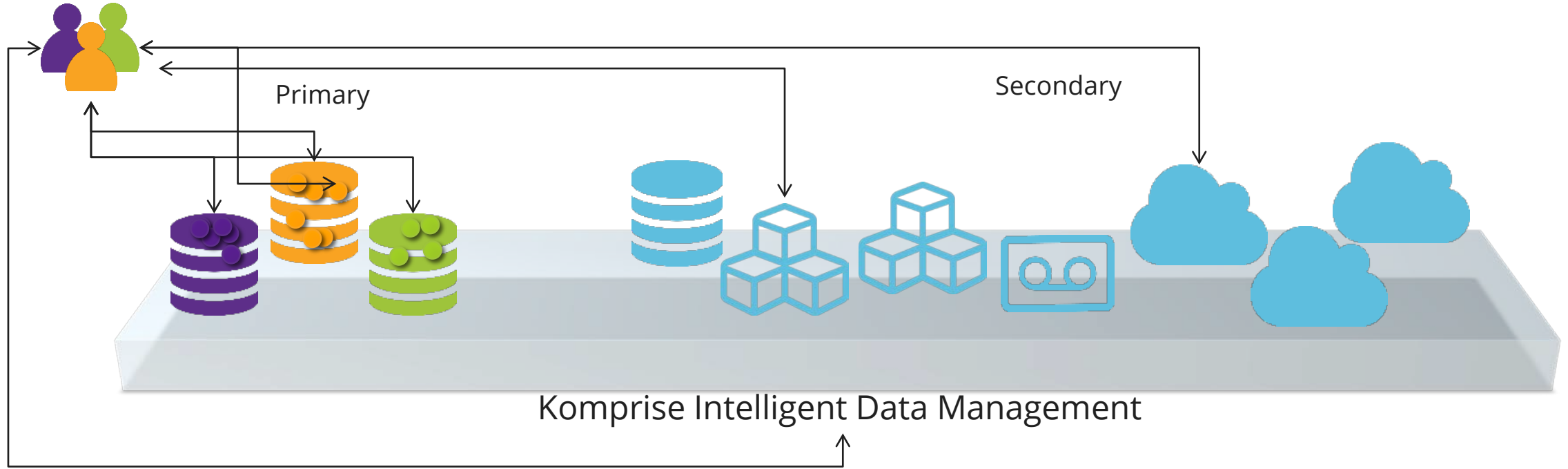
Runs invisibly in the background without interfering with active usage of your primary storage

*One of the best things Komprise does  
is what it doesn't do, which is get in  
the way of users and applications  
access to data.*



- Bill Moore, Co-Author, ZFS

# Redundant, Transparent Hierarchical File System



Leverages the sources and targets themselves to create a redundant, overarching namespace

Provides unified visibility and management by leveraging open standards and a distributed design

All permissions and attributes are fully preserved

No agents or changes to the source NAS are needed

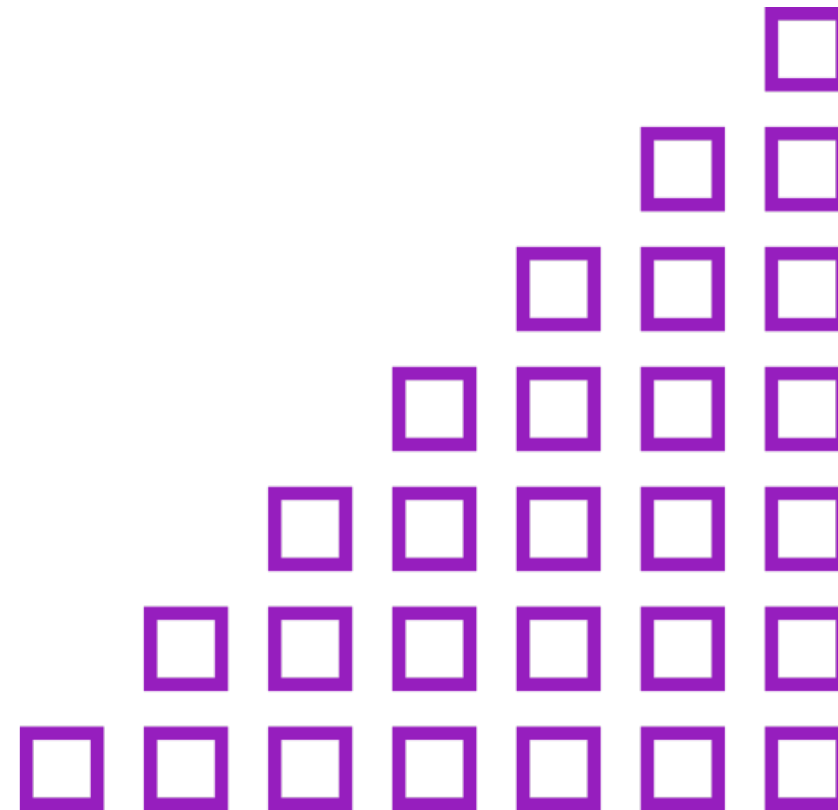
Moved data is accessible as files from the source, and as files/objects on the target – so there is zero lock-in

## Distributed Scale-Out Architecture

Add more Observer VM's to scale, balance load and create fault-tolerance

There are no central databases or bottlenecks to limit scalability

Resiliency and high-availability are built-in without requiring any dedicated infrastructure



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**Storage  
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**Redundant,  
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**Distributed  
Scale-Out  
Architecture**

# THANK YOU!

## Schedule Your Demo: [komprise.com/schedule-a-demo/](https://komprise.com/schedule-a-demo/)

Learn more at

[Komprise.com](https://komprise.com)

Twitter: [@komprise](https://twitter.com/komprise)

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## Technical Differentiators

**No storage agents, no hardware**

**No static stubs, no impact on hot data path**

**No training needed, no complex configurations**

**No upfront costs, no scaling limits**

**No lock-in**

