

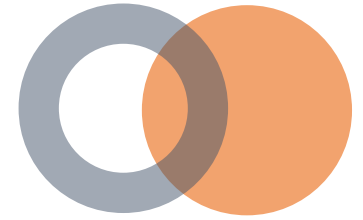
Journée du 22 novembre “Données de la recherche” Strasbourg



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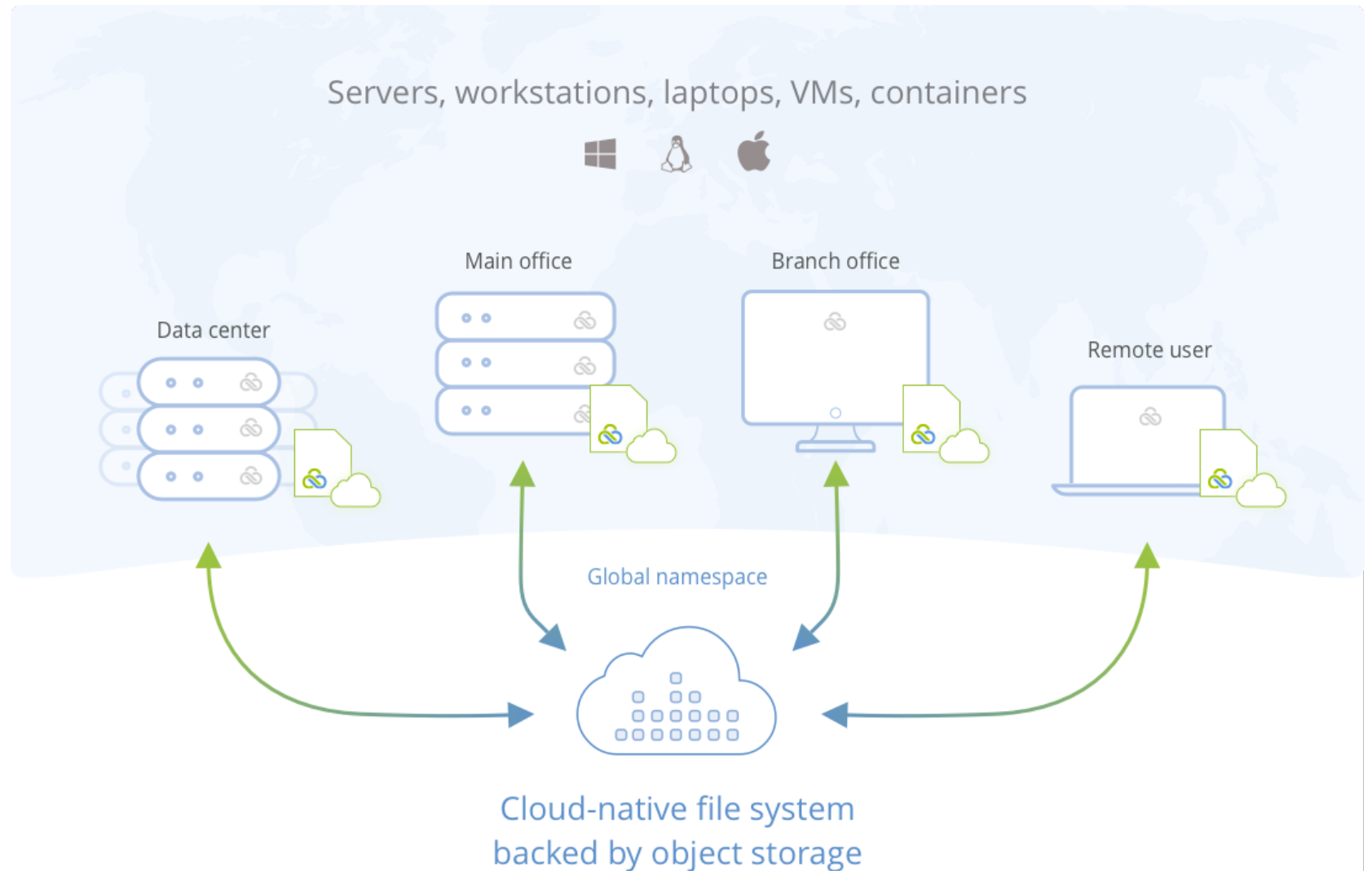
**Run file workloads on any object storage
on-premises or in the cloud**

**Cloud economics with
high performance data access**

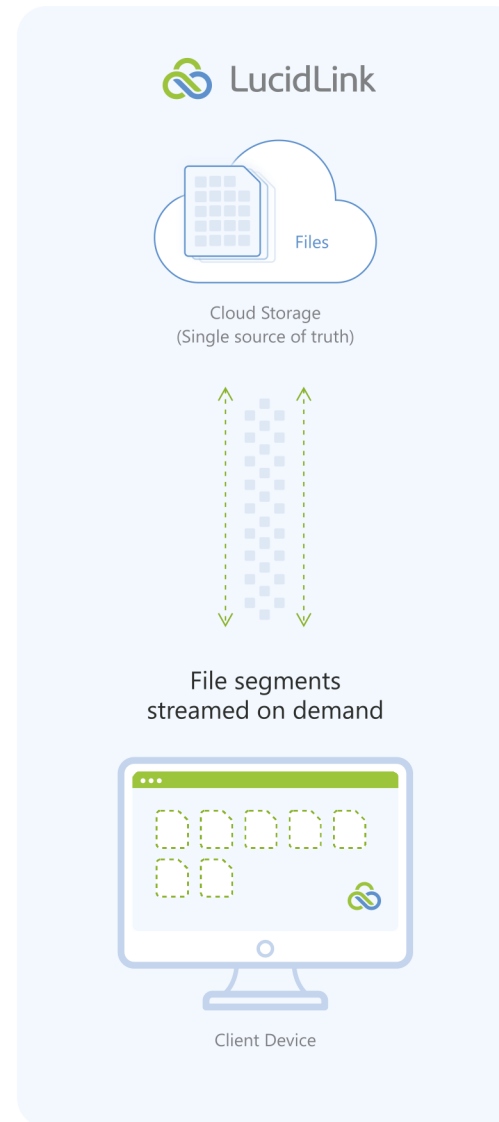
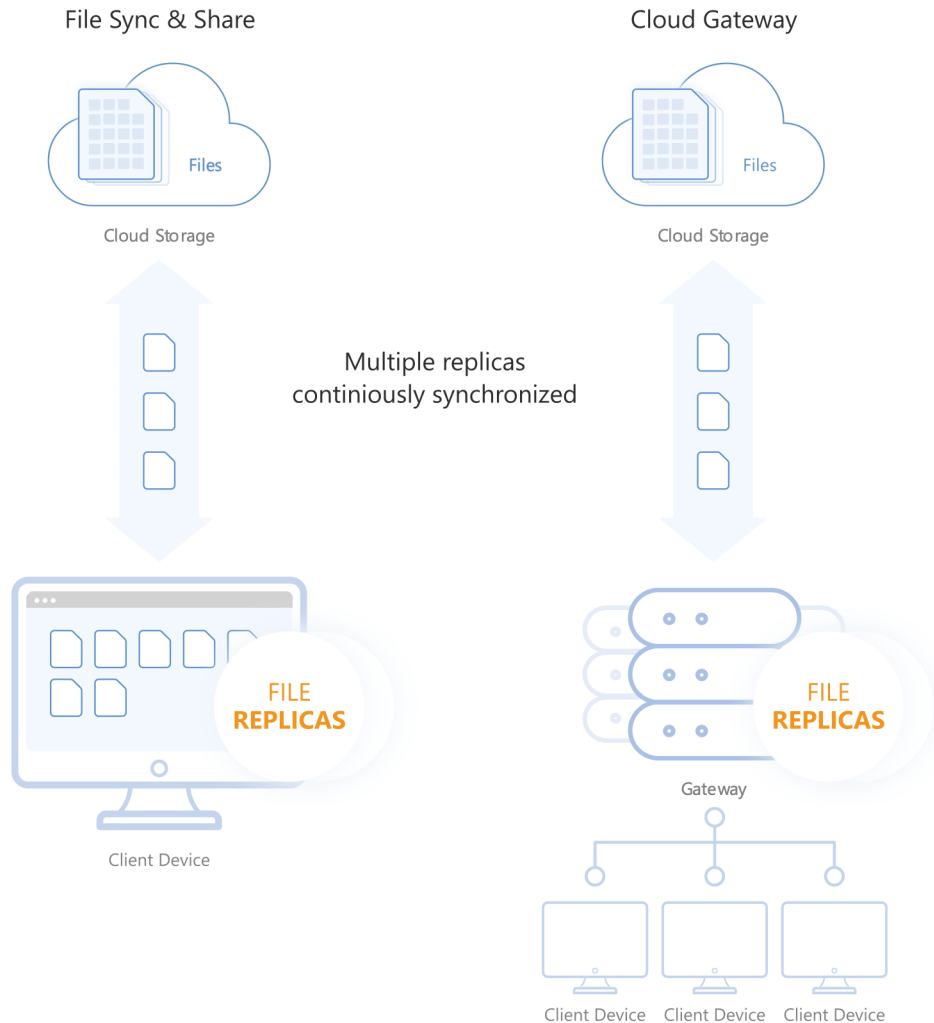
LucidLink Filespaces™

The cloud file system for object storage

-  Stream data, on-demand
-  Cloud native software design
-  Multi-cloud & OS support
-  End-to-end encryption



Comparison to Existing Technologies

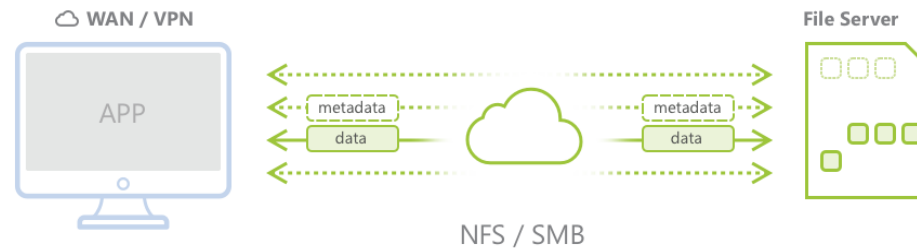
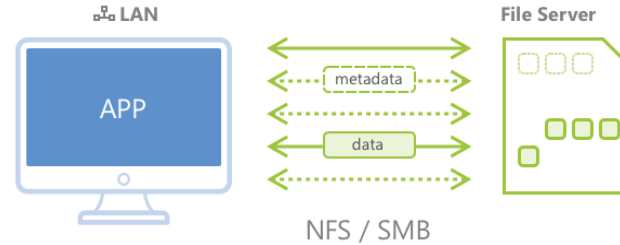


LucidLink Advantages

- Streaming instead of syncing
- Performance increase
- Instant access to large files/volumes
- No gateways
- Uniform access from anywhere
- End-to-end encryption
- Control over data sovereignty
- Fraction of the cost
- Full OS support

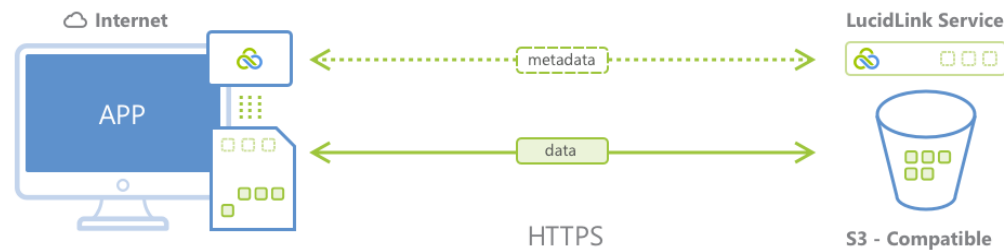
Why Traditional Protocols Don't Work

Standard protocols are “chatty” but in a low-latency environment such as a local LAN, they work fine.



With distance, things break down, 1000s to 10,000s of small metadata packets travel round-trip, dragging performance to a crawl.

LucidLink decouples the metadata and the file data into separate planes.



Metadata is synced locally; only the file data that is requested by the application is streamed on demand.

LucidLink Solution

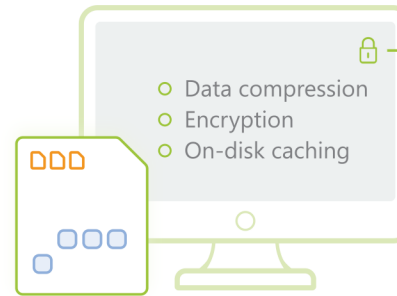
LucidLink Client

Embeds into the OS as a file system, presents files as if they are local. Handles all the encryption, compression, prefetching and caching.

LucidLink Service

Manages metadata coordination, garbage collection, file locking, snapshotting etc.

LucidLink Client



Using their own encryption key, customers have complete control over their files.

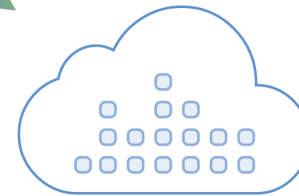
Metadata Synchronization

On-demand Data Streaming



LucidLink Service

Metadata is encrypted and synchronized across all connected clients



Object Store

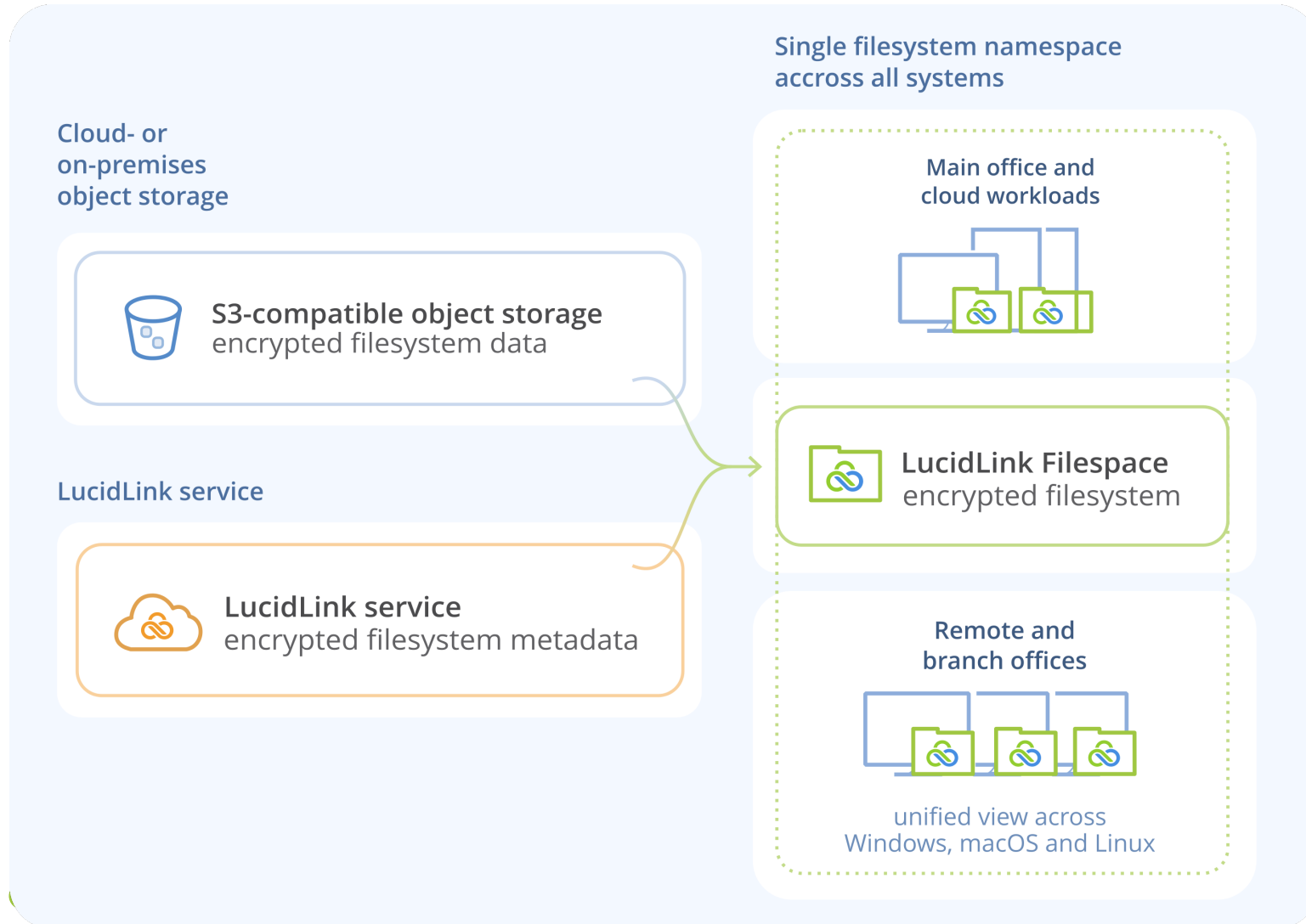
Files are split into multiple objects, providing immediate random read/write access

Object Store

Hosts all data in a bucket in customer's account.

We use a unique data layout, which treats the object store as an elastic, block device.

Demo - Streaming data from object storage

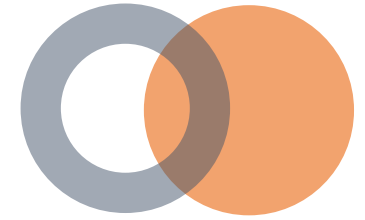


1. Create Filespace
2. Showcase security
3. Configure user access control
4. Collaborate on Windows, macOS and Linux
5. Highlight data protection
6. Demonstrate high performance throughput:
 - a. Video
 - b. Image
 - c. Database
 - d. Virtual machine

Cloud-Native Distributed File System

Secure, enterprise-scale cloud service

- A shared, global namespace
- Full file system semantics
- High-performance over distance
- Highest degree of security and privacy
- Any object store
- Large volumes in the PB range/100's million of files
- All modern desktop/server, VM and container platforms



Get started

www.lucidlink.com

Thank you



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