ENCRYPT. SHRED. SPREAD.
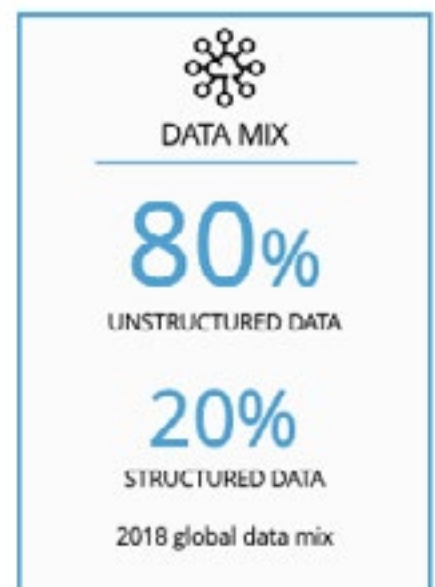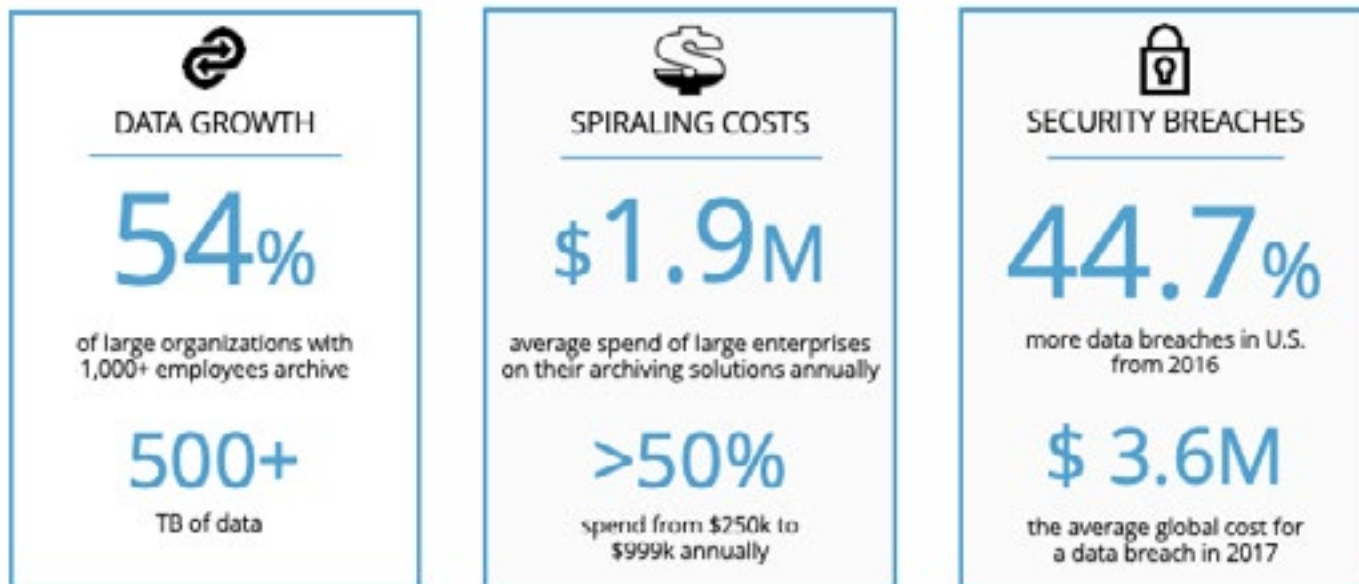
Solving the nexus of data growth, security, compliance and cloud-first strategies for petabyte-scale enterprises.

Leonovus solves the data storage challenge for enterprises with petabyte-scale needs. Our technology gives organizations the flexibility to store and migrate their data anywhere they choose — with security and compliance requirements assured — using any platform and decoupled from IT infrastructure for full heterogeneous compatibility. At the same time, our solution delivers simplicity as a single storage target for all applications and single pane of glass user interface, requiring no additional or specialized IT skills to administer.

Corporate data is ultimately more secure and compliant in our distributed, hybrid/multi-cloud data storage architecture than in standard on-premises storage. Being at the forefront of enterprise blockchain-hardened storage, we are positioned to support enterprises through the massive growth of unstructured IoT and AI/ML data.

DATA MIX

80%
UNSTRUCTURED DATA

20%
STRUCTURED DATA

2018 global data mix

Data challenges by the numbers

DATA GROWTH

54%

of large organizations with 1,000+ employees archive

500+

TB of data

SPIRALING COSTS

$1.9M

average spend of large enterprises on their archiving solutions annually

>50%

spend from $250k to $999k annually

SECURITY BREACHES

44.7%

more data breaches in U.S. from 2016

$ 3.6M

the average global cost for a data breach in 2017

BUSINESS ISSUES WE ADDRESS

Security

As the number of clouds and – in general – the amount of data stored increases, the threat surface for an organization increases dramatically. User privacy and data security policies need to be consistently - and verifiably - applied across various clouds. This is a barrier worth breaking for organizations because the public cloud offers a useful stack of services they cannot ignore.

Budgets

Organizations have people and security infrastructure for a known, projected amount of storage. The ever-increasing rate of data growth is putting severe pressure on their set-up and carries the risk of loss or unplanned exposure of data. Compounding this is the pressure to cut budgets while managing more data/infrastructure.

Compliance and data sovereignty

In some cases, organizations struggle to move their data to the cloud because of regulatory compliance and data sovereignty requirements. Several providers enable data residency, the physical location of the data, but it doesn't alleviate data governance concerns especially when dealing with confidential data. Businesses want to be in control of their data and protect against any unwarranted access.

Vendor lock-in

Moving data into the public cloud has placed organizations into a virtual lock-in. On-boarding appears inexpensive, at a cost fractional to managing it on-premise. But as organizations look to curate the data they have stored in the public cloud the true cost is becoming apparent with the high egress fees. Organizations are now looking for solutions where they can use no/low egress fee providers and keep the cost in their control.

Business risk

A variety of business and risk factors – like maintaining control and flexibility – have led organizations to adopt a hybrid topology or multiple clouds. Multi-cloud topology invariably creates data management challenges as moving data between clouds is expensive and impacts agility.

"With Leonovus, we can now work with our customers to execute a compelling data storage strategy across an entire tapestry of on-premises, cloud and multi-cloud architecture."

Ian Campbell
President/CEO at iCONECT

The Leonovus solution

The Leonovus solution decouples data from the storage infrastructure, delivers a cryptographically-verifiable audit trail of all access to the data stored and enables organizations to point all object storage sources to a single destination – Leonovus – that encrypts, fragments and spreads the data over a heterogeneous storage ecosystem, including multiple clouds. Using this approach, Leonovus reduces storage footprint typically by 50%, and helps deliver near 100% data durability.

Secure data plane

Enterprise data   Object storage APIs

Multi-cloud storage

Leonovus*

On-premises storage
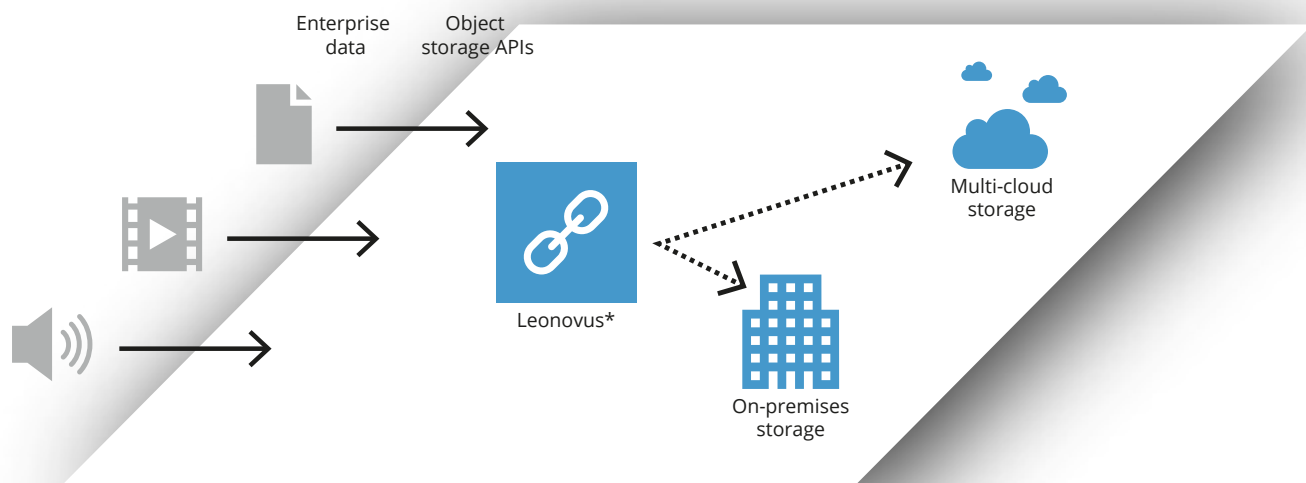
* Data security, integrity and auditability with encryption, fragmentation and dispersal

Leonovus' multi-cloud data controller can reduce storage footprint by 50%.

USE CASES

Cloud utility broker

Only software to spread data across multiple concurrent public and private clouds ensuring no cloud vendor lock-in for archived and data back-up controlled through a single pane of glass.

Secure data backup and archival storage

Data "shredding and spreading" algorithms provide hyper-secure distributed storage. Stored data cannot be read or used by unauthorized parties.

Data integrity with strong chain of custody

Blockchain technology with highly scaleable object storage ensures massive growth of stored digital data remains true, tamperproof, and with a verifiable chain of custody.

Data sovereignty vs data residency

Data 'encrypting and shredding' ensures that data sovereignty is maintained no matter where data resides in the cloud.

LEONOVUS ADVANTAGES

- Provides ubiquitous access to and control of data deployed across mixed on-premises, hybrid and multi-cloud environments, leading to consistent and cost-effective data governance

- No cloud vendor lock-in

- Extends cost-effective storage to all users, leveraging corporate and personal storage accounts and devices

- Simple onboarding and easy to use administrator interface

- 99.9999% data durability using modified Reed-Solomon erasure coding of data stored

- Ensures business continuity with the self-healing capabilities at the core of Leonovus

- Data security and auditing that enables compliance with HIPAA, PCI, GDPR and other regulations

- Architected for petabyte- scale deployments

- FIPS 140-2 compliant

LEONOVUS IN BRIEF

- Founded in 2010
- Offices in the United States and Canada
- Strong reputation in distributed computing, infrastructure and operations
- Experts in private blockchain technology

- Broad value-added reseller, strategic alliances and integrated cloud providers partners
- Gartner 2015 "Cool Vendor in Green IT"
- CIOReview "10 Most Promising Storage Solution Providers 2018"

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