# DS3 COMPOSER

DS3 Composer **enables MSPs and enterprises** to be their **own cloud provider** by letting them build their **fully-customisable, geo-distributed cloud storage in minutes.**

DS3 Composer is the world's first cloud enabler, offering all the benefits of traditional cloud storage and on-prem, minus the drawbacks.

Based on DS3[1] technology, including data encryption, fragmentation, and geo-distribution, DS3 **Composer is the resource orchestrator and management interface** to the Coordinator control plane, Swarms (geo-distributed clusters of storage nodes) and S3 access gateways.

It collects and aggregates new and recycled resources across the edge, on-prem, and public cloud — exposing them as an S3 object store repository via the SaaS control plane. Resources are organised in geo-distributed networks, and each network node can provide access and capacity via S3 protocol.

1. DS3 is Cubbit's fully managed geo-distributed cloud object storage that's hyper-resilient, sovereign, and 100% S3 compatible — with no cost for egress, deletion, and redundancy.
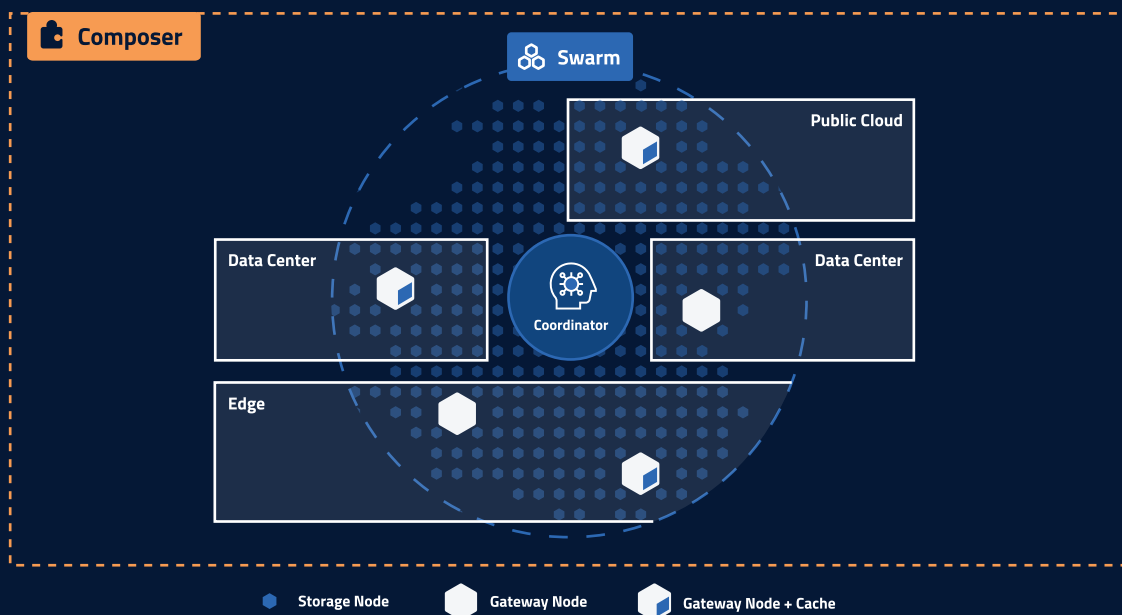
Transform your business in 15 minutes

Step 1:
Build a Swarm

A Swarm can be configured by using your infrastructure or accessing existing resources from bare-metal or public cloud.

Step 2:
Deploy a gateway

The gateway can be deployed where you need to access data: on-prem, in the public cloud or at the edge.

Step 3:
Create the first tenant

Assign resources to end-users/teams/apps in a few clicks. Personalise redundancy, permissions, and configurations of each user via intuitive UI.

Step 4:
Start doing business

White labelling, monitoring, billing, analytics, and more. You can now start doing business with your own distributed cloud storage platform.

A cloud with data and infrastructure sovereignty

Any hardware	Private and public S3 access	Ease of use	Multi-tenancy
DS3 Composer nodes can run on any hardware or virtual machine. The user can decide to reuse existing resources or add new ones. Data is distributed across all nodes to preserve the highest service availability and data integrity.	DS3 Composer offers the possibility to access data through local or public access points, depending on business needs and use cases.	DS3 Composer's comprehensive web interface lets users create and manage an object store with just a few clicks.	DS3 Composer is fully multi-tenant. Each tenant can be used by a different operator (e.g. reseller), who has full control of all aspects of the storage resources, configuration, users, and policies.

Benefits of the solution

Edge by design	Digital sovereignty	Double ransomware protection	Zero-knowledge privacy
DS3 Composer's infrastructure works with a single data domain. Automate operations from edge to cloud and scale seamlessly — no initial investment required.	To get full sovereignty, you can geo-fence the area (i.e., cities) where data is stored, addressing nations' specific laws and checking all the compliance boxes (e.g., GDPR, ISO).	Avoid attacks on clients and storage infrastructure. Data is protected both client-side (object lock, versioning, IAM policy) and server-side (geo-distribution, encryption).	To get total privacy, you can enable zero-knowledge technology so that only you can access your data and the encryption and decryption keys.

Use cases

Backup and recovery: Local performance with global resiliency.
Active archiving: Low cost and long-term retention.
Log management: Import logs from everywhere and consolidate them for analysis.
Content delivery: Bandwidth optimisation and better user experience.

Internet of things: Scalability and single data domain at the edge.
AI/ML: Enable next-gen applications.
Surveillance: Safe data storage for your global security, collaboration and compliance needs.
Data analytics: Store at the edge, analyse in the cloud.

Cubbit

Cubbit, a partner of Gaia-X, is Europe's first geo-distributed cloud storage enabler. Its groundbreaking technology addresses nations' specific data sovereignty concerns, helping businesses check all the compliance boxes (e.g., GDPR and ISO) while ensuring the best overall total cost of ownership (TCO), data control and providing hyper-resiliency against ransomware and disasters.

Today, Cubbit technology is adopted by 200+ European companies and partners, including Exclusive Networks (a $4.9B global distributor in cybersecurity, listed on the Paris Stock Exchange) and Leonardo (a $14B world leader in defence and cybersecurity).