Fortalis
CLOUD SERVICES

How Mature Enterprises
Solve Data Storage Complexity

Introduction

Many mature enterprises and (semi) governmental organizations find themselves at a crossroads, operating with diverse generations of IT infrastructure and multiple, sometimes conflicting, data orchestration strategies. This mix of legacy hardware, cloud platforms, and evolving operational frameworks makes effective modernization and data stewardship a long-lasting challenge.

Key Challenges

Organizations typically face four interconnected challenges on their journey towards streamlined, future-ready data solutions:

Optimizing & Modernizing IT Infrastructure

Migrating from legacy systems to more flexible architectures, such as multi-cloud and hybrid-cloud, is essential for agility and resilience.

Ensuring Regulatory Compliance

Recent European and Spanish mandates—including GDPR, sovereignty rules, and ENS—require robust strategies for data protection, localization, and auditability.

Anticipating New Technology Workloads (AI)

The rise of artificial intelligence demands new strategies for handling large and dynamic datasets, introducing unique performance and security requirements.

Cost Transparency & Optimization

Gaining control over cloud, storage, backup, and archiving spend is crucial for ensuring ROI and long-term sustainability.

Solutions, Multi-Cloud Focus, Recommendations

Strategic Solutions

To resolve these complexities, top-tier organizations increasingly adopt holistic solutions:

- **Modern Hybrid & Multi-Cloud**
  Integrating flexible cloud options allows legacy systems and public clouds to coexist with new cloud-native applications, facilitating smoother transitions and business continuity.

- **Compliance-Driven Data Strategies**
  Adopting architectures and workflows designed to comply with GDPR, sovereignty mandates, and ENS, including using sovereign clouds and specific localization controls.

- **AI-Ready Infrastructure**
  Future-proofing storage with scalable platforms and smart orchestration to support rapid AI adoption and new data workload types.

- **Cost Management**
  Utilizing transparent pricing models, automated tiering, and spend analytics to optimize costs without sacrificing resilience or compliance.

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Multi-Cloud and Sovereign Cloud Spotlight

Most enterprises already leverage hyperscaler clouds for primary workloads, but data sovereignty and protection concerns require added resilience:

> Enterprises increasingly choose to implement a second layer for backup, archiving, and disaster recovery—often with a sovereign cloud provider rather than another hyperscaler. This mitigates single-vendor risks and strengthens compliance and data residency.
>
> _____ **01**

> Such structures help avoid "all eggs in one basket," ensuring business-critical data remains accessible and protected, even in the face of outages or legal / regulatory shifts.
>
> _____ **02**

Multi-cloud architecture diagram

Public Cloud

AWS   Azure   GCT

Unrestricted or Anonymized data

Sovereign Cloud

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Hosted

On-Premises

Core Enterprise   Private Cloud

Private Restricted Data

Data remains inaccessible to, and cannot be controlled or revoked by, foreign jurisdictions.