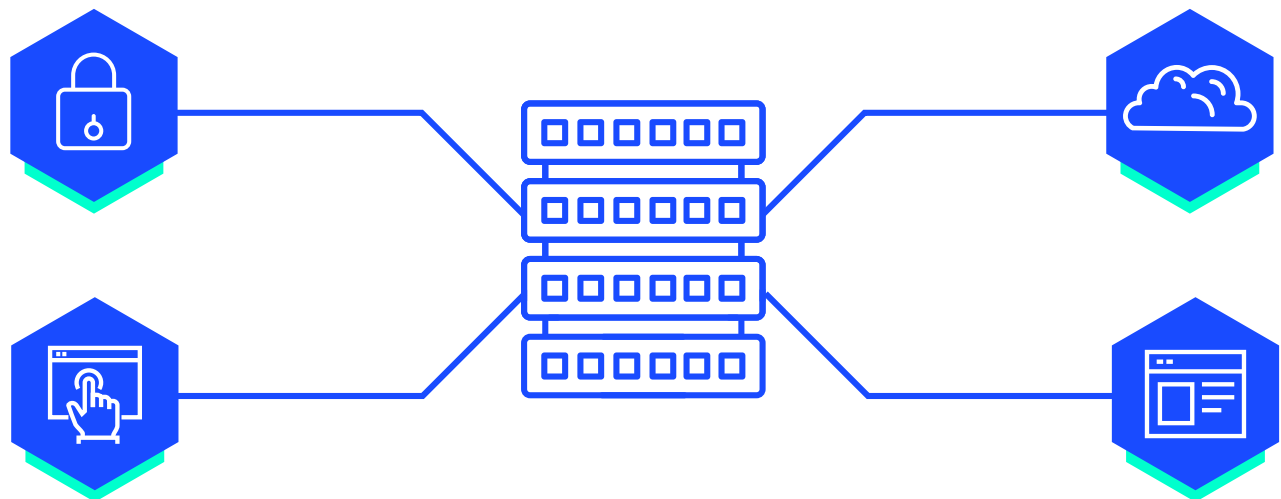


Solution Brief

Modernize Storage and Operationalize AI

with IBM Storage Ceph and Logicalis Managed Services





The explosive growth of unstructured data, such as text, images, and video, presents an opportunity and a challenge for modern organizations.

Emerging technologies such as generative artificial intelligence (AI) promise to deliver unprecedented levels of productivity, efficiency, and value to organizations. AI models, however, need to be trained on vast amounts of data. While the explosion of unstructured data offers an ideal source for training models, it also presents a challenge for teams that rely on traditional storage solutions.

As we move forward into the data-driven AI era, many enterprises struggle with the limitations of traditional storage solutions:



Managing storage across on-premises and cloud environments adds complexity and cost



Proprietary storage solutions often come with high price tags that strain IT budgets



Performance bottlenecks can impact critical workloads, slow innovation, and lengthen time-to-market

To tackle data volumes that are scaling into the petabytes and beyond, organizations need a modern, scalable storage solution that can keep pace and integrate seamlessly within existing digital ecosystems.

Between 2023 and 2028, large enterprises will 3X their unstructured data capacity across on-prem, edge, and public cloud.

- Top Trends in Enterprise Data Storage Report, 2023, Gartner

The Software-Defined Storage Revolution

By 2028, Gartner¹ predicts that 70% of file and object data will be deployed on a consolidated unstructured data storage platform. Organizations will therefore need capabilities such as accelerated data ingest, cleansing, and classification, metadata management and augmentation, and cloud-scale capacity management and deployment.

Software-defined storage (SDS) has emerged as a transformative force when it comes to data management, and offers features such as these, as well as significant advantages over legacy storage approaches, including:



Seamless scalability to accommodate massive data growth



Unified storage that bridges file, block, and object protocols



Improved cost efficiency through commodity hardware utilization

SDS solutions abstract storage resources from the underlying hardware and allow for far greater efficiency, flexibility, scalability, and agility than traditional solutions.

Part of the industry-leading IBM Storage portfolio, IBM Storage Ceph has emerged as an innovative, future-ready SDS platform that provides a robust foundation for modern workloads, including generative AI.

Operationalize AI with Enterprise Resiliency

IBM Storage Ceph is a scalable, self-healing storage system that provides massively scalable object, block, and file storage in a single system. An enterprise-hardened version of the Ceph storage system, it is designed to operationalize AI, consolidate data, and run flexibly on multiple hardware platforms.



Key benefits and features include:

- Exabyte-level scalability to grow with your data needs
- Self-managing, self-healing architecture for hands-off operations
- Support for block, file, and object storage in a single platform
- Optimized performance for data-intensive workloads like AI/ML and analytics
- Easy, efficient way to build a data lakehouse for IBM watsonx.data

¹. <https://newsroom.ibm.com/The-growth-of-IBM-Storage-Ceph-the-ideal-foundation-for-a-modern-data-lakehouse>

In 2023, IBM introduced several updates to Ceph, including IBM Storage Ceph 7.0. With NVMe/TCP capabilities, this version is suitable for applications and workloads that demand ultra-fast storage access, while also simplifying the infrastructure due to its compatibility with traditional network technologies.

The Logicalis Advantage: IBM Storage Ceph Expertise

Logicalis is a premier IBM partner and Managed Services provider with deep expertise in the IBM Storage portfolio. Our certified experts have decades of experience architecting, deploying, and optimizing IT environments with IBM storage solutions, and we have successfully delivered IBM Storage Ceph projects for clients across a range of industries.

With Logicalis, a global Managed Services provider with local reach, you gain a trusted partner who can help you and maximize ROI through value-added services such as:

Storage assessments and roadmap development

24/7 monitoring and support to ensure high availability

Workload migration and integration services

Ongoing performance tuning and capacity planning

Logicalis can help you streamline IBM Storage Ceph adoption to accelerate your time-to-value and provide a faster path to success. With end-to-end Professional and Managed Services, from targeted consulting to infrastructure management, we can help your storage stay agile, optimized, and ready for the AI-powered future.

Take the Next Step with Logicalis and IBM

Are you ready to transform your storage and put your data to work?

Schedule a free, no-obligation consultation with Logicalis today. Our experts will discuss your goals, your needs, and help you identify opportunities to unlock more value with IBM Storage Ceph.

Schedule Your Free Consultation.
logicalis-hub.com/ibm

 **LOGICALIS**
Architects of Change

Platinum
Business
Partner

