

Cloud Storage - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2026 - 2031)

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Report description:

Cloud Storage Market Analysis

The cloud storage market size in 2026 is estimated at USD 179.26 billion, growing from 2025 value of USD 145.23 billion with 2031 projections showing USD 513.86 billion, growing at 23.45% CAGR over 2026-2031. Generative-AI adoption, data-sovereignty mandates, and the need for modern, energy-efficient infrastructure are accelerating enterprise migration and reshaping storage architectures worldwide. Intensifying hyperscaler investment, rising sovereign-cloud spend across Asia Pacific, and steady SME adoption are widening the global addressable base while inflation-linked construction costs spur innovation in low-power technologies. Object storage dominates AI workloads, hybrid deployment grows fastest, and Asia Pacific leads regional expansion. Competitive rivalry remains high as providers pursue AI-optimized capacity, sovereign-cloud zones, and carbon-aware services.

Global Cloud Storage Market Trends and Insights

Gen-AI-led data explosion in knowledge-worker apps (2025+)

Generative-AI workloads are multiplying enterprise data volumes by an order of magnitude. Solid-state drive demand for AI training environments is climbing 35% per year as spinning disks struggle to meet latency targets. Storage footprints for single training runs are set to scale from 30 TB in 2025 to 100 TB by 2030, while inference nodes grow even faster as new products embed AI features. Cost models now reveal that data-handling charges eclipse model-development expenses, pushing vendors to optimize tiering and compression. Hyperscalers are redesigning storage layers to favor high-throughput NVM-based clusters and

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object storage buckets tuned for parallel access.

Edge-to-cloud workflow acceleration in media and gaming

Media and gaming studios are embracing cloud-first pipelines; 97% plan to raise storage budgets in 2025 as streaming and real-time rendering expand. Cloud gaming's 44% CAGR requires distributed caches that maintain <50 ms latency across regions. Yet, these firms spend 51% of storage budgets on API calls and egress traffic, catalyzing multi-cloud placement to avoid fees. Edge-compute spend is forecast at USD 232 billion in 2024, pushing providers to integrate on-premise gateways with hyperscale archives for seamless asset flows.

Persistent data-sovereignty complexity

Divergent regulations-from the U.S. CLOUD Act to China's cross-border flow rules-force organizations to operate fragmented storage footprints and duplicate datasets to meet local statutes. Legal uncertainty raises compliance spend and slows global rollouts as firms navigate overlapping jurisdictional claims.

Other drivers and restraints analyzed in the detailed report include:

Government stimulus for sovereign cloud frameworks
ESG-driven storage optimization and carbon-aware workloads
Escalating egress-fee backlash and vendor lock-in risk

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

The segment's revenue in 2025 reflected a 58.45% public-cloud lead, yet hybrid architectures are on track for a 25.55% CAGR to 2031 as data residency laws tighten. Enterprises blend on-premise nodes with public scalability to meet latency and compliance goals. Governments' sovereign frameworks further propel hybrid demand, while edge investments embed micro-regions into unified pools. Hybrid environments now manage 82% of enterprise workloads, validating the shift away from all-public strategies.

A second growth vector lies in AI training clusters that require local GPU adjacency for throughput yet still need cloud bursts for spikes. Organizations adopt control-plane software to orchestrate policies across sites, mitigating lock-in and optimizing cost. Vendors differentiate via integrated observability, automated data-tiering, and marketplace ecosystems. As budgets reallocate, the cloud storage market will see deployment models converge into fluid, policy-driven fabrics spanning core, edge, and sovereign zones.

Object repositories generated 51.05% revenue in 2025 and will compound at 24.4% through 2031 as unstructured data explodes. The cloud storage market size for object platforms benefits from intrinsic scalability, rich metadata, and erasure-coding economics that align with generative-AI corpus needs. File and block tiers persist for legacy and OLTP workloads but cede share to object layers hardened for petabyte-scale parallel access.

Innovation centers on multi-tenant namespace isolation, in-line encryption, and GPU-direct pipelines that feed training nodes without staging. Micron's roll-out of 32 TB NVMe SSDs underscores the migration toward flash-based object clusters. Patent filings reveal advances in erasure-coded caching and distributed-hash indexing, amplifying performance and durability. As AI adoption broadens, object storage will underpin content, model checkpoints, and vector databases within the cloud storage market.

The Cloud Storage Market Report is Segmented by Deployment Mode (Private Cloud, Public Cloud, and More), Storage Type (File

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Storage, Object Storage, and More), Enterprise Size (SMEs and Large Enterprises), Application (Backup and Recovery, Application Management, and More), End-User Industry (BFSI, Manufacturing, Retail and E-Commerce, and More), and Geography.

Geography Analysis

North America held 37.40% revenue in 2025 as hyperscaler headquarters and early AI adoption drove demand. Data-center power needs are on a 16% annual trajectory to 2028, though transmission bottlenecks and permitting delays pressure timelines. Regulatory proposals such as cloud know-your-customer (KYC) checks may fragment cross-border workflows, nudging enterprises toward multi-region architectures. Hardware shortages intermittently constrain capacity, but continuous investment sustains leadership in innovation and spend.

Asia Pacific is the growth engine, charting a 24.6% CAGR courtesy of government digitization programs, sovereign-cloud mandates, and rising AI adoption. China's spending will hit USD 46 billion in 2025, buoyed by local vendors and policy support. India's services market reached USD 5.2 billion in H1 2024 and targets USD 25.5 billion by 2028. Australia and Japan advance localized frameworks, while a 13.3% CAGR in regional data-center capacity underscores the build-out of residency-compliant zones.

Europe grows steadily under GDPR, with sectoral codes pushing encryption and data-minimization features. Latin America's colocation pipeline could reach USD 10 billion by 2029 as Brazil, Mexico, and Chile court hyperscaler investment. Africa's demand rises 25-30% annually, yet represents <1% global revenue; local providers differentiate on price and currency flexibility. These dynamics confirm a multipolar cloud storage market where regional ecosystems coexist with global connectivity.

List of Companies Covered in this Report:

Amazon Web Services Inc. Microsoft Corporation Google LLC (Alphabet) Alibaba Cloud (Alibaba Group) IBM Corporation Oracle Corporation Dell Technologies Inc. Hewlett Packard Enterprise NetApp Inc. Dropbox Inc. Box Inc. Wasabi Technologies Backblaze Inc. Tencent Cloud OVHcloud Rackspace Technology Hitachi Vantara Fujitsu Limited pCloud AG Tresorit AG Iron Mountain

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

Table of Contents:

1 INTRODUCTION

1.1 Study Assumptions and Market Definition

1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET LANDSCAPE

4.1 Market Overview

4.2 Macroeconomic Impact Assessment

4.3 Market Drivers

4.3.1 Increase in cloud adoption across organizations

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- 4.3.2 Rising demand for low-cost, high-speed storage access
- 4.3.3 Edge-to-cloud workflow acceleration in media and gaming
- 4.3.4 Gen-AI-led data explosion in knowledge-worker apps (2025+)
- 4.3.5 Government stimulus for sovereign cloud frameworks
- 4.3.6 ESG-driven storage optimization and carbon-aware workloads
- 4.4 Market Restraints
 - 4.4.1 Persistent data-sovereignty complexity
 - 4.4.2 Escalating egress-fee backlash and vendor lock-in risk
 - 4.4.3 Multi-cloud data-sprawl security gaps
 - 4.4.4 Limited last-mile bandwidth in frontier markets
- 4.5 Value Chain Analysis
- 4.6 Regulatory Landscape
- 4.7 Technological Outlook
- 4.8 Porter's Five Forces Analysis
 - 4.8.1 Threat of New Entrants
 - 4.8.2 Bargaining Power of Suppliers
 - 4.8.3 Bargaining Power of Buyers
 - 4.8.4 Threat of Substitutes
 - 4.8.5 Industry Rivalry
- 4.9 Investment Analysis

5 MARKET SIZE AND GROWTH FORECASTS (VALUE)

- 5.1 By Deployment Mode
 - 5.1.1 Private Cloud
 - 5.1.2 Public Cloud
 - 5.1.3 Hybrid Cloud
- 5.2 By Storage Type
 - 5.2.1 File Storage
 - 5.2.2 Object Storage
 - 5.2.3 Block Storage
- 5.3 By Enterprise Size
 - 5.3.1 SMEs
 - 5.3.2 Large Enterprises
- 5.4 By Application
 - 5.4.1 Backup and Recovery
 - 5.4.2 Data Management and Archiving
 - 5.4.3 Application Management
 - 5.4.4 Collaboration and Content Services
- 5.5 By End-user Industry
 - 5.5.1 BFSI
 - 5.5.2 Healthcare and Life Sciences
 - 5.5.3 Government and Public Sector
 - 5.5.4 Manufacturing
 - 5.5.5 Retail and E-commerce
 - 5.5.6 IT and Telecom
 - 5.5.7 Media and Entertainment
 - 5.5.8 Others

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5.6 By Geography

5.6.1 North America

5.6.1.1 United States

5.6.1.2 Canada

5.6.1.3 Mexico

5.6.2 South America

5.6.2.1 Brazil

5.6.2.2 Argentina

5.6.3 Europe

5.6.3.1 Germany

5.6.3.2 United Kingdom

5.6.3.3 France

5.6.3.4 Russia

5.6.4 Asia Pacific

5.6.4.1 China

5.6.4.2 India

5.6.4.3 Japan

5.6.4.4 South Korea

5.6.4.5 ASEAN

5.6.4.6 Rest of Asia Pacific

5.6.5 Middle East and Africa

5.6.5.1 Middle East

5.6.5.1.1 Saudi Arabia

5.6.5.1.2 Turkey

5.6.5.2 Africa

5.6.5.2.1 South Africa

6 COMPETITIVE LANDSCAPE

6.1 Market Concentration

6.2 Strategic Moves

6.3 Market Share Analysis

6.4 Company Profiles (includes Global level Overview, Market level overview, Core Segments, Financials as available, Strategic Information, Market Rank/Share for key companies, Products and Services, and Recent Developments)

6.4.1 Amazon Web Services Inc.

6.4.2 Microsoft Corporation

6.4.3 Google LLC (Alphabet)

6.4.4 Alibaba Cloud (Alibaba Group)

6.4.5 IBM Corporation

6.4.6 Oracle Corporation

6.4.7 Dell Technologies Inc.

6.4.8 Hewlett Packard Enterprise

6.4.9 NetApp Inc.

6.4.10 Dropbox Inc.

6.4.11 Box Inc.

6.4.12 Wasabi Technologies

6.4.13 Backblaze Inc.

6.4.14 Tencent Cloud

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- 6.4.15 OVHcloud
- 6.4.16 Rackspace Technology
- 6.4.17 Hitachi Vantara
- 6.4.18 Fujitsu Limited
- 6.4.19 pCloud AG
- 6.4.20 Tresorit AG
- 6.4.21 Iron Mountain

7 MARKET OPPORTUNITIES AND FUTURE OUTLOOK

7.1 White-space and Unmet-need Assessment

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