

Cloud Native Storage Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, By Component (Solutions, Services), By Deployment (Private Cloud, Public Cloud), By Vertical (BFSI, Telecom & IT, Healthcare, Retail & Consumer Goods, Manufacturing, Government, Energy & Utilities, Media & Entertainment, Others), By Region & Competition, 2020-2030F

<https://marketpublishers.com/r/C5B8F70F79ECEN.html>

Date: July 2025

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: C5B8F70F79ECEN

Abstracts

Market Overview

The Global Cloud Native Storage Market was valued at USD 17.03 billion in 2024 and is projected to reach USD 54.28 billion by 2030, growing at a CAGR of 21.31% during the forecast period. Cloud native storage refers to storage solutions specifically built to operate seamlessly within cloud-native environments, including containerized applications, microservices, and orchestration platforms like Kubernetes. These storage systems are designed to be highly scalable, flexible, and automated, enabling persistent data management, dynamic provisioning, and real-time access to meet the demands of modern, distributed application development.

As enterprises advance their digital transformation journeys and increasingly adopt hybrid and multi-cloud architectures, the need for cloud native storage is expanding. These solutions play a critical role in supporting DevOps practices, CI/CD workflows, and real-time analytics by ensuring reliable, high-performance storage that adapts to evolving data usage patterns. The rapid growth of AI/ML workloads, edge computing, and IoT deployments further underscores the demand for intelligent, distributed, and

policy-driven storage infrastructure that is optimized for modern cloud-native ecosystems.

Key Market Drivers

Rapid Adoption of Containerized Applications Across Enterprises

The widespread adoption of containers and orchestration tools such as Kubernetes has significantly boosted the need for dynamic, persistent storage systems that can integrate directly into these environments. Traditional storage models are often ill-suited to the demands of container-based workloads, prompting organizations to shift to cloud native storage solutions. These systems offer persistent volume management, automated provisioning, and multi-tenant support—features essential for scalable and efficient microservices architectures.

With containers becoming a cornerstone of enterprise IT infrastructure, storage systems must align with the lifecycle of containerized applications. Cloud native storage enables this alignment by offering capabilities such as failover automation, availability zone awareness, and seamless orchestration integration. According to industry data from Kubernetes usage metrics and container orchestration deployments, over 85% of container-using organizations in 2024 have either adopted or plan to implement cloud native storage solutions to support their production environments.

Key Market Challenges

Complexity in Managing Data Consistency Across Distributed Environments

Maintaining consistent and synchronized data across decentralized cloud-native systems presents a substantial technical challenge. In contrast to traditional centralized architectures, cloud native storage supports workloads that span across cloud providers and edge locations. This distribution introduces complexity in maintaining data integrity, especially for stateful applications requiring high levels of consistency and durability.

Managing persistent volumes, orchestrating replication policies, and ensuring seamless failover across clusters are all critical tasks that demand precise coordination. Small discrepancies in data synchronization or orchestration logic can result in data corruption, service disruption, or increased operational risk. These challenges are particularly acute in high-performance applications such as real-time databases and financial systems, where even brief inconsistencies can lead to major operational

impacts. Enterprises must invest in advanced storage orchestration tools and monitoring frameworks to mitigate these risks, posing an additional layer of complexity and cost.

Key Market Trends

Integration of Artificial Intelligence for Intelligent Data Management

The integration of artificial intelligence into cloud native storage platforms is a growing trend that is reshaping how organizations manage and optimize their storage environments. AI enables these systems to become more proactive and adaptive by analyzing usage patterns, predicting resource demands, and automating performance tuning. This results in improved storage efficiency, lower costs, and enhanced system reliability.

Vendors are embedding AI capabilities into the storage control plane to offer features such as predictive maintenance, automated data tiering, failure forecasting, and policy-driven data placement. These intelligent storage solutions are increasingly essential in data-intensive industries such as finance, healthcare, and autonomous systems, where performance and availability are critical. As enterprises continue to demand smarter infrastructure, AI-powered cloud native storage is evolving from an innovation into a necessity, providing the intelligence required to support high-growth, latency-sensitive applications at scale.

Key Market Players

Amazon.com, Inc.

Google LLC

VMware, Inc.

Microsoft Corporation

IBM Corporation

NetApp, Inc.

Dell Technologies Inc.

Pure Storage, Inc.

Report Scope:

In this report, the Global Cloud Native Storage Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Cloud Native Storage Market, By Component:

Solutions

Services

Cloud Native Storage Market, By Deployment:

Private Cloud

Public Cloud

Cloud Native Storage Market, By Vertical:

BFSI

Telecom & IT

Healthcare

Retail & Consumer Goods

Manufacturing

Government

Energy & Utilities

Media & Entertainment

Others

Cloud Native Storage Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

Asia Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

South America

Brazil

Colombia

Argentina

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Cloud Native Storage Market.

Available Customizations:

Global Cloud Native Storage Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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