

White Paper

Data Upsurge

Guiding the Data Upsurge with Software- Defined Storage

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With a relentless torrent of data to manage, all organizations need a simpler, more scalable and more cost-effective way to store it. The answer lies in an intelligent, software-defined storage solution that allows you to seamlessly adapt to changing demands while remaining innovative.

The growth in data generated and collected by every organization has exceeded even the highest estimates. Unstructured data like audio, video and images, alongside data from sensors, makes up the majority of this volume.

Many enterprises have moved from terabyte to petabyte levels of data. But the traditional ways of storing it are becoming unsustainable. This presents fresh challenges as every business searches for a new approach.

Transforming Enterprise Storage

As organizations scale data storage, there's mounting pressure to reduce costs and simplify management while accelerating innovation.

Scaling data storage capacity using the current methods is not financially sustainable. If you continue to buy storage in the standard way, your need for capacity will soon outstrip your ability to finance it.

As you scale-out data storage capacity, you risk increasing the complexity of management for IT staff. Using traditional technologies, the process requires specialized training to allocate resources, provide data protection, optimize performance and ensure system connectivity.

- 1 ResearchAndMarkets.com: Global Next Generation Data Storage Market (2018-2023) Forecast
- 2 451 Research Voice of the Enterprise: Storage, Budgets and Outlook (2017)
- 3 SUSE Enterprise Storage

Market Snapshot

As data storage needs rise steeply, businesses are looking for simplicity, scalability and lower costs.

21.3%

The compound annual growth rate of the next-generation data storage market¹.

43%

of organizations said that simplifying the management of heterogeneous storage systems was one reason why they chose software-defined storage (SDS)².

39%

of organizations said lower acquisition costs (compared with storage appliances) was one reason why they chose SDS².

38%

of organizations said scalability was one reason why they chose SDS².

30-50%

The instant savings in hardware costs as a result of choosing the right enterprise storage solution³.

The varied applications accessing all your data are constantly evolving, as is the IT environment in which they run. The challenge here is how to innovate your storage solutions in line with your evolving IT environment.

Meanwhile, as more data is being stored online for analytics, there's a need for better data compliance, protection and archiving.

Finally, with so much constant change in every industry, the need to be responsive to changing business and data demands is vital.

With all these challenges, the right solution is as valuable as the data you store.

Intelligent Enterprise-Grade SDS

All of these challenges can be addressed by adopting an SDS platform that is based on commodity hardware and offers simplified management. For the right solution you need two essential elements.

1. A single open, intelligent and unified **software-defined enterprise storage solution** — one that helps you transform your storage infrastructure into a simple-to-manage environment. It needs to use off-the-shelf commodity servers and disk drives, regardless of whether they're in your data center or the cloud. And it should continuously monitor data utilization, automatically re-balance data without any manual intervention, and easily move data between your data center and the cloud. Look for an SDS that is powered by Ceph technology — an open source software which enables highly scalable object, block and file-based storage under one whole system.
2. A **high performance, open source operating system (OS)** that can utilize parallel computing for modelling, simulation and advanced analytics applications. An OS like this should make it easy to deploy and transition business-critical workloads across on-premise and public cloud environments. A scalable, high performance open source OS like this can simplify your workload, crunch massive data quickly, and help you solve complex problems faster than ever.

Scale, Adapt and Innovate

The right SDS transforms your storage infrastructure into a durable, reliable enterprise-grade environment. It enables you to simplify management and make significant IT savings as you scale storage in an agile and innovative way.

With today's technology, it is possible — and necessary — to remove both the capital and operational costs from enterprise storage. The use of off-the-shelf commodity hardware instantly reduces capital expenses by as much as 30%.

The use of a single unified storage management tool keeps operating costs low by reducing the time you dedicate to storage management. This frees up resources, and staff for other IT priorities, meaning you can optimize data management as well as human resources.

By using an intelligent SDS which automatically optimizes, upgrades or adds storage when you need it, without disruption, you can further reduce staff costs while remaining adaptable to changing business and data demands.

With the right partner delivering the right SDS, you can accelerate innovation through timely and easy access to the latest technology.

As the volume of data grows, your enterprise needs a simple, scalable, and cost-effective solution which helps you adapt and innovate.

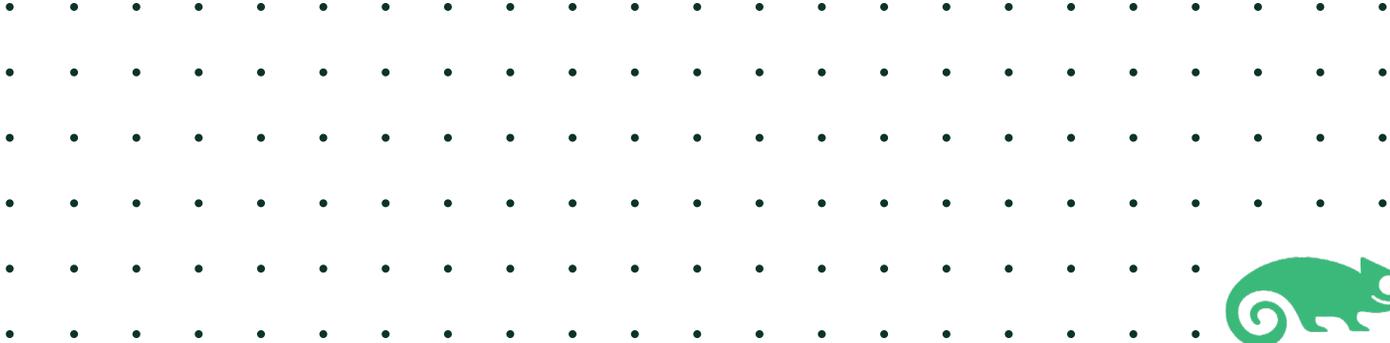
Contact us for a trial, or learn more about our products:

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Additional contact information and office locations:
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