Free Yourself from Storage Constraints with Dell and SUSE

The challenge of data storage is growing. By 2020, the average Internet user is expected to create 1.5 GB of traffic a day.[1] There's value in that data, but capturing and providing constant access to it isn't easy. The cost and architecture of traditional storage systems make them unsuited to handle that kind of volume. Software-defined storage from Dell and SUSE can free you.

Software-Defined Storage from Dell and SUSE at a Glance:

+ *Easy to deploy and manage*
+ *Unified block, file and object storage*
+ *Infinitely scalable*
+ *Supported by enterprise IT leaders*

■ **Products:**

SUSE Enterprise Storage
Dell PowerEdge servers

Until recently, data storage typically meant a large storage array or cloud storage. But neither option meets today's storage and access needs because they can't offer near-real-time access to different kinds of data gathered from an ever-expanding number of sources.

Traditional on-premises solutions are expensive to manage and don't scale easily. And cloud storage, while attractively priced on entry, can become cost-prohibitive when accessing data at near real time or in high volume.

To manage, protect and access massive amounts of data, you need software-defined storage from industry leaders. SUSE® Enterprise Storage running on Dell hardware provides a software-defined storage solution that gives you more value and fewer constraints in managing today's growing volume of data.

Our Partnership

Dell and SUSE have closely collaborated for almost a decade to build Linux-based solutions to solve complex enterprise IT challenges. Working together, we harness the power of new Dell technologies and leading open source offerings, helping enterprises address today's and tomorrow's IT and businesses challenges.

That plays out in all our solutions. SUSE Linux Enterprise Server is a key component of many Dell software and appliance-based solutions and is validated on all Dell PowerEdge servers.

Our partnership also makes a difference in our software-defined storage solution. Only the Dell-SUSE storage solution can deliver affordable, unlimited scalability; one-element storage for all types of data; and maximum ease, automation and control.

Solution Components

SUSE ENTERPRISE STORAGE
SUSE Enterprise Storage is a software-defined storage solution based on the open source project Ceph. It runs as an extension on SUSE Linux Enterprise Server, a secure, open source server operating

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1 *Investor meeting presentation, Intel, February 2017,* **https://s21.q4cdn.com/ 600692695/files/doc_presentations/ 2017/2017_Intel_Investor_Meeting_ Krzanich.pdf**

system that helps you accelerate innovation, improve system reliability, comply with evolving security requirements and adopt new technologies. SUSE Enterprise Storage offers:

- *Fast setup and deployment, usually requiring less than two hours' configuration time after hardware is unpacked and ready*
- *Self-managing and self-healing capabilities that save IT administrators time and effort*
- *A flexible, cluster-based design for graceful and inexpensive upgrades and near-linear scaling*
- *Ultimate scalability to handle massive data sets and virtually unlimited growth potential*

Best of all, SUSE Enterprise Storage is the most affordable way to grow your storage because you pay by node, not for every gigabyte you store.

DELL POWEREDGE SERVERS
The Dell PowerEdge family offers a wide variety of servers in different configurations and form factors. For the monitoring and gateway nodes in your storage solution, you might consider servers like the R630 or the newer R640, which offer ultradense efficiency with up 24 flash solid-state drives (SSDs) in a one-unit chassis.

For the object storage device nodes, you might select the R740, a scalable server featuring an optimal mix of memory, storage, processing and graphical processing units (GPUs).

Many other options are available, and SUSE and Dell experts can work with you to help ensure that you select the right servers for your solution.

All Dell PowerEdge servers come with built-in tools like the Dell OpenManage system management portfolio and the integrated Dell Remote Access Controller with Lifecycle Controller, to automate and simplify lifecycle management.

What the Solution Does for You
Together, SUSE and Dell give you a single storage solution that allows unified block, file and object storage and eliminates the need for storage tiering. You can enjoy affordable, unlimited enterprise scalability on leading open source software and reliable hardware.

Most of all, you don't want a storage solution that increases the burden on your IT team. The SUSE and Dell solution simplifies storage deployment and management with increased automation and control. Proactive diagnostics and automated remediation in Dell servers can increase your IT productivity by up to 90 percent.[2] Plus you can take advantage of the deep expertise and seamless support

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2 *"Resolving Server Problems with Dell ProSupport Plus and SupportAssist Automated Monitoring and Response," Principled Technologies lab testing report, September 2015.*

of industry-leading hardware and software partners.

Storage for the Real World
The combined solution can meet your storage challenges whether you need disk-based backup or a general or compliance archiving solution. Use it for storing large files in video and image library scenarios or as shared storage for OpenStack. Dell and SUSE have partnered closely on multiple OpenStack projects, including SUSE OpenStack Cloud, meaning you can build your entire private cloud solution, from servers to storage, through our partnership.

What Will You Do?
Advances in technology had vastly expanded the scope of the research at Swinburne University of Technology in Australia, leading to demand for greater compute and storage resources. The university IT department stepped up by implementing SUSE Enterprise Storage on Dell PowerEdge servers. The storage environment is built in a high-availability

"SUSE Enterprise Storage offered us the best of both worlds—an enterprise-supported solution that is licensed per node, instead of on a capacity basis. This was a differentiator that made the product commercially viable for us."

SIMON NAUGHTON
Director of Infrastructure and Operations
Swinburne University of Technology

configuration, continuously replicating data between a main data center and a secondary site.

The solution allowed Swinburne to achieve virtually unlimited scalability to keep pace with rising data storage needs, all with lower capital expenditures and ongoing infrastructure costs. The university now has on-premises storage at approximately half the cost of the equivalent public cloud providers' service.

Find out what you can achieve. Get started with Dell and SUSE Enterprise Storage today.

"SUSE Enterprise Storage offered the total package. While other solutions lacked the full range of functionality we were after or locked us into using proprietary hardware, with SUSE we didn't have to compromise—we got an open, feature-rich solution, with the bonus of full enterprise support."

MARC HERRUER
Founder and CEO.
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Contact us at:
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