



SUSE® Enterprise Storage

An intelligent software-defined storage management solution, powered by Ceph technology, that enables organizations to deliver a unified, highly scalable, resilient and enterprise-grade storage infrastructure that is able to seamlessly adapt to changing business and data demands.

Product Overview

SUSE® Enterprise Storage enables IT to transform their enterprise storage infrastructure to deliver a unified and highly scalable storage solution that is cost-efficient and able to seamlessly adapt to changing business and data demands. As an intelligent software-defined storage solution, it delivers a self-healing and self-managed distributed storage cluster designed to scale from hundreds of terabytes to petabytes and beyond. Leveraging industry standard server and storage building blocks, you get the cost-efficient infrastructure you need with the unlimited scalability your business demands, with no vendor lock-in. Improve efficiency and automatically optimize operations with intelligent, self-healing, self-managing distributed storage enabling organizations to support more capacity per storage administrator and spend more time focused on delivering future innovations to the business.

Key Benefits

HIGHLY SCALABLE AND RESILIENT

SUSE Enterprise Storage delivers a single unified software-defined storage cluster that provides applications with object, block and file system storage. It is designed with no single points of failure to maximize system resiliency, and unlimited scalability

from hundreds of terabytes to petabytes and beyond. As an enterprise-grade storage solution SUSE Enterprise Storage is the ideal solution for most storage use cases. And it provides all of the storage services expected of an enterprise-grade storage solution.

REDUCED IT COSTS

Traditional storage solutions are expensive to scale in capacity or performance. SUSE Enterprise Storage helps keep CAPEX costs down by leveraging industry standard, off-the-shelf hardware. It helps reduce IT operational expense with a single tool for managing a storage cluster for your heterogeneous server environment. And it helps optimize infrastructure without growing your IT staff by automatically re-balancing data placement without any manual intervention.

AUTOMATICALLY OPTIMIZE

SUSE Enterprise Storage enables you to be highly responsive to emerging business and data needs with an intelligent solution that is self-managed and self-healing to optimize for system performance. It also enables you to easily provision and seamlessly deliver additional storage without disruption and provides maximum flexibility by using off-the-shelf commodity hardware that you can re-purpose if business priorities change. This also means no

need for forklift upgrades and because the solution is open source, you never have to worry about vendor lock-in.

Key Features

SUSE Enterprise Storage is built on the open source Ceph technology. Key features of the Ceph technology include:

- **Scalable:** *Designed as a distributed storage cluster to provide unlimited scalability from hundreds of terabytes to petabytes and beyond.*
- **Easy to manage:** *Self-healing and self-managed, that optimizes performance.*
- **Unified storage solution:** *Supports object, block and file storage within a single cluster*
- **Enterprise-grade:** *Highly redundant and designed so there are no single points of failure, maximizing system resiliency, and availability.*

Additionally, SUSE Enterprise Storage provides additional industry-leading features including:

- *Enhanced manageability with OpenStack, openATTIC management and monitoring*
- *Expanded CephFS heterogeneous interoperability with support for CIFs/SAMBA and non SUSE Ceph client for block and file*

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- *Improved IT efficiency with Events Notifications Alerts (technology preview)*
- *Security Enhancements with embedded support for AppArmor®*
- *Improved usability with language localized documentation*

System Requirements

Minimal recommendations per storage node:

- *3 GB of RAM per Object Storage Device (OSD)*
- *1.5 GHz of a CPU core per OSD*
- *Separate 10 GbE networks (public/client and backend)*
- *OSD disks in JBOD configurations or local RAID to end with RAID 0*
- *OSD disks should be exclusively used by SUSE Enterprise Storage*
- *Dedicated disk/SSD for the operating system, preferably in a RAID 1 configuration*
- *Additional 4 GB of RAM if cache tiering is used*

Minimum recommendations for monitor nodes:

- *3 SUSE Enterprise Storage monitor nodes recommended*
- *8 GB of RAM per monitor node*
- *SSD or fast HDD in a RAID 1 configuration*
- *On installations with fewer than seven OSD nodes, the monitors can be hosted on the OSD nodes with additional RAM and CPU*
- *Monitor nodes should be bare metal, not virtualized, for performance reasons*
- *Mixing OSDs or monitor nodes with the actual workload is not supported*
- *Configurations may vary from, and frequently exceed, these recommendations depending on individual sizing and performance needs*
- *Bonded network interfaces for redundancy*

For detailed product specifications, system requirements and minimum recommended cluster size configurations, visit: www.suse.com/products/suse-enterprise-storage/