



Get a Complete Storage Solution for SAP Environments with SUSE and Micro Focus

Your SAP solutions are critical to your business—especially if you use SAP HANA as the core of your daily operations. With powerful solutions like these contributing to your success, it is equally important to have powerful storage, backup and disaster recovery solutions to keep those SAP capabilities running at peak performance. SUSE and Micro Focus have teamed up to provide just that: a compliance-ready solution that delivers unlimited storage and full backup and recovery of SAP and SAP HANA environments.

SUSE Enterprise Storage and Micro Focus Data Protector at a Glance:

- **Scalable:**
Grow your storage without limits.
- **Compliance-ready:**
Keep backup copies and store data in secondary locations.
- **Cost-effective:**
Use industry-standard hardware and node-based pricing to control costs.
- **Easy to set up and manage:**
Get file, block and object storage in one system.
- **SAP-ready:**
Benefit from our partnership with SAP and our deep understanding of SAP systems.
- **Products:**
SUSE Enterprise Storage
Micro Focus Data Protector

Micro Focus and SUSE: The Right SDS for SAP Environments

Today's data storage requirements are far surpassing traditional storage systems. Enterprises need ultimate scalability at low cost, as well as the ability to easily store data of different sources and types, from unstructured files to block and object stores. That requires software-defined storage (SDS), which delivers today's storage capabilities via software that runs on your choice of industry-standard hardware platform.

Together, SUSE® Enterprise Storage, powered by Ceph technology, and Micro Focus Data Protector form the SDS solution that can support and enhance your SAP solutions. Micro Focus Data Protector is SAP certified, and both components integrate easily and seamlessly into your infrastructure.

Micro Focus Data Protector includes an integrated agent for SAP environments,

which helps to provide application-consistent protection and recovery of SAP HANA and efficient data protection for multinode installation across physical, virtual and cloud instances.

The relationship SUSE has with SAP began in 1999 in the SAP LinuxLab. Our longtime partnership is just part of the reason why SUSE Linux Enterprise Server for SAP Applications is currently running in 90 percent of SAP HANA installations. It is also why SUSE is the operating system of choice for SAP's production and development environments.

Simple, Scalable and Cost-Effective Storage

SUSE Enterprise Storage is based on Ceph, an industry-leading SDS solution and the most popular one among OpenStack users. It enables you to deploy a unified block, object and file storage environment to reduce the capital and operational costs of your storage infrastructure. Because SUSE

Using Ceph, a single system administrator can manage up to 4 PB of data, which is six times more than an administrator in an equivalent block-storage environment.

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Enterprise Storage is designed as a distributed storage cluster; it provides unlimited scalability from tens of terabytes to petabytes and beyond. Simply add hardware and the Ceph-based cluster rebalances, enabling you to grow along with your data.

Using Ceph, a single system administrator can manage up to 4 PB of data, six times more than an administrator in an equivalent block-storage environment. The system can scale horizontally even further, with increased performance results.

SUSE Enterprise Storage is the most affordable way to grow your storage because you pay by node, not for every gigabyte you store. And you save even more on cost with the ability to use industry-standard hardware instead of complex, proprietary systems. In fact, in a [five-year total cost of ownership study](#), IT Brand Pulse found that SUSE Enterprise Storage outperformed every one of the competitors.

The SDS solution from SUSE and Micro Focus is also simple to manage because it automates many tasks and reduces the need for hands-on IT. SUSE Enterprise Storage is self-managing and self-healing so it automatically adjusts workloads for optimal operations and can help your systems stay up and running if a node fails.

Real-time monitoring of service-level agreements (SLAs) in Micro Focus Data Protector provides valuable insights to forecast and help prevent outages in your SAP environment.

Solid Backup and Disaster Recovery

This combined storage solution also delivers robust backup and disaster recovery capabilities that go a step beyond existing failover features in SAP HANA and other SAP solutions.

For instance, Enhanced Automated Disaster Recovery in Micro Focus Data Protector provides a single check box for backup to SUSE Enterprise Storage of application and system data, including operating system files, drivers and files required for the initial boot process. This can drastically simplify the full recovery process should an SAP HANA node fail completely.

Plus, Micro Focus Data Protector offers automated, centralized bare-metal recovery from physical to physical, physical to virtual, virtual to virtual and virtual to physical from any backup set—at no additional cost. Automated retention and replication management across different backup media, storage tiers and locations are important tools that help you recover from unexpected incidents and get back up and running quickly.

Components of the Solution

SUSE ENTERPRISE STORAGE

SUSE Enterprise Storage runs as an extension on SUSE Linux Enterprise Server, a secure, open source server operating 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*
- *Automation to save IT administrators time and effort*
- *Faster time to recovery in the event of disasters and unplanned downtime*
- *Ultimate scalability to handle massive data sets and virtually unlimited growth potential*

SUSE Enterprise Storage features in the [Gartner Critical Capabilities for Object Storage report](#) as the highest-ranking Ceph storage solution reviewed.

MICRO FOCUS DATA PROTECTOR

Micro Focus Data Protector is an enterprise-grade backup and disaster recovery solution for large, complex and heterogeneous IT environments. Built on an adaptive architecture that combines security and analytics, it can help you meet your continuity needs reliably and cost-effectively. It offers:

- *Standardized protection that works across diverse environments*
- *Compression, deduplication, storage management and analytics to help you better use your infrastructure*
- *A reliable and secure backup environment with low overhead*
- *Predictive analytics, automation and other tools to efficiently manage your backup environment*