SIOS Protection Suite for Linux enables businesses to create a high availability cluster quickly and easily to protect any application, including SAP, S/4HANA, Oracle, and SQL Server in a tightly integrated combination of failover clustering, continuous application monitoring, data replication and configurable recovery policies to protect your business-critical applications from downtime and disasters.

**Advanced Monitoring and Management**

Unlike clustering software that only monitors server operation, SIOS Protection Suite monitors the health of the entire application environment, including the server, storage, operating system, network, database, and application software. It can recover a service or application both locally or on another cluster node at either the same site or another geographic location. It supports all major Linux distributions, including Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, and Oracle Linux and accommodates a wide range of storage architectures.

**Intelligent Application Availability**

Manually configuring and managing clusters in complex ERP and database environments such as SAP, S/4HANA, Oracle, and SQL Server can be time-consuming and prone to human errors that increase the risk of catastrophic downtime and data loss. SIOS Protection Suite includes intelligent application availability tools and utilities that minimize this risk by automating configuration, validating user input, providing application monitoring and ensuring that failover automatically complies with application best-practices.

With SIOS Protection Suite, companies can confidently migrate these complex environments to the cloud and meet strict availability SLAs with a single comprehensive solution designed exclusively for each application.

**Efficient Failover for Fast Recovery**

When a problem is detected, SIOS Protection Suite automatically initiates one of three pre-selected recovery actions: it attempts to restart the application on the same cluster node; it fails over to the standby node; or it alerts a system administrator. It completes recovery or failover quickly, easily, and automatically, minimizing downtime from system failures or even entire site outages.

**System Cloning Makes Deployment Simple**

System cloning capabilities enable easy deployment of SIOS clusters to protect any application using consistent, predefined settings and integrated best practices. Customers can deploy a SIOS cluster in minutes simply by importing the CLI instructions for configuration. This feature benefits both SME companies who want a fast, easy way to deploy a single cluster in compliance with best practices and large enterprises, managed service providers, and cloud vendors who want to deploy multiple clusters with the same or similar configurations.
Configuration Flexibility
SIOS Protection Suite gives you the flexibility to build your choice of SAN or SANless clusters using a wide array of storage devices, including direct attached storage, iSCSI, Fibre Channel and more. Whether you need local high availability within a single site, or fast, efficient disaster recovery across multiple sites, SIOS Protection Suite for Linux meets all your business continuity needs.

Real-time Data Replication
SIOS Protection Suite provides continuous synchronous or asynchronous replication from a disk on the primary cluster node to another disk on one or more standby nodes. Replication may be configured within a single site (LAN) or across multiple data centers (WAN).

With real-time replication, SIOS Protection Suite maintains an identical copy of the data on the standby node(s) for immediate recovery from a system failure. You can also create multiple real-time copies through one-to-many replication.

WAN Optimized Performance
SIOS WAN optimized replication achieves optimal throughput, regardless of the speed or latency of the WAN link, without the need for hardware based WAN accelerators. SIOS clusters deliver the perfect balance of WAN efficiency, host workload and data throughput for your environment and protection requirements.

Eliminate Planned Downtime for Maintenance
With a click of a button, SIOS Protection Suite can also be used to switchover applications and services between systems manually to eliminate downtime associated with planned system maintenance.

Automated DR Testing
The SIOS Protection Suite for Linux allows administrators to easily switch applications to the disaster recovery site for testing and then easily switch it back to the primary site when testing is done. Keep applications in service in the primary node while completing DR testing by simply unlocking the target data.

Complete Protection
SIOS Protection Suite for Linux, includes:

- **SIOS LifeKeeper** - Flexible failover clustering software that monitors the entire application stack and orchestrates application-aware failover.
- **SIOS DataKeeper** – Fast, efficient host-based, block level data replication for mirroring local storage in a SANless cluster configuration or replicating to remote locations or cloud for disaster recovery.
- **Application Recovery Kits (AROs)** - Extensions to SIOS LifeKeeper that integrate with applications to provide intelligent methods for simplifying setup, automating manual tasks and handling diverse application recovery events. They detect application level failures and ensure applications-specific best practices are maintained throughout the failover process.

System Requirements:
SIOS Protection Suite for Linux supports the following:

- **Linux Operating systems:**
  - RHEL 7.x, 8.x
  - SLES 11, 12
  - CentOS 8.x
  - Oracle Linux 6.x, 7.x, 8.x
- **Storage:** Local Storage (HDD, Network Attached Storage (NAS), Fibre Channel SAN (Single-Path or Multi-path), iSCSI

About SIOS
SIOS Technology Corp. high availability and disaster recovery solutions ensure availability and eliminate data loss for critical Windows and Linux applications operating across physical, virtual, cloud, and hybrid cloud environments. SIOS clustering software is essential for any IT infrastructure with applications requiring a high degree of resiliency, ensuring uptime without sacrificing performance or data - protecting businesses from local failures and regional outages, planned and unplanned. Founded in 1999, SIOS Technology Corp. (https://us.sios.com) is headquartered in San Mateo, California, with offices worldwide.

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