



SUSE® Linux Enterprise Server for POWER

SUSE® Linux Enterprise Server for POWER delivers outstanding reliability, performance and faster innovation for data-intensive, mission-critical workloads.

SUSE Linux Enterprise Server for POWER at a glance:

- **Increase reliability and reduce costs for mission-critical applications...**
with advanced RAS capabilities optimized to support IBM Power Systems features
- **Deliver a high-performance platform to meet increasing business demands...**
with improved application performance and instant access to data
- **Accelerate innovation and improve deployment times...**
for a broad choice of open source and partner solutions

The First and Best Linux for IBM Power Systems

SUSE Linux Enterprise Server for POWER provides customers with an enterprise-grade Linux distribution optimized for IBM Power Systems. It is designed to deliver increased reliability, reduce costs for mission-critical applications, provide a high-performance platform to meet increasing business demands and accelerate innovation while improving deployment times.

SUSE Linux Enterprise Server for POWER was the first Linux distribution optimized for IBM Power Systems. The capabilities of Power Systems and the optimization of SUSE Linux Enterprise Server for POWER together provide a cost-effective option for scale-out and scale-up computing without compromising the high levels of performance and availability required for mission-critical enterprise workloads.

Highlights SUSE Linux Enterprise Server for POWER include the ability to:

- *Instantly access data by maximizing POWER8 and POWER9 processor performance across the full range of Power Systems servers and OpenPower Abstraction Layer systems*
- *Confidently migrate data and applications to Linux on IBM Power Systems in Little Endian mode*
- *Build a more agile IT infrastructure with SUSE Docker support, and the modular design of SUSE Linux Enterprise Server*

- *Optimize lifecycle management and save time with a comprehensive set of tools powered by Zypper*
- *Reduce downtime through SUSE Linux Enterprise High Availability Extension*

INCREASE RELIABILITY AND REDUCE COSTS FOR MISSION-CRITICAL APPLICATIONS

SUSE Linux Enterprise Server for POWER delivers advanced Reliability, Availability and Serviceability (RAS) capabilities optimized to support IBM Power Systems for increased reliability and lower costs. This includes the ability to configure shared resource pools to control resource allocation of CPU, memory and I/O. Maximizing utilization of hardware resources with memory error recovery and memory sharing reduces hardware costs.

“KVM is included with SUSE Linux Enterprise Server for POWER as a technical preview for the IBM Power S822LC OpenPower servers. Both PowerVM and PowerKVM are fully supported for application deployment in Power Systems LPARs. Live VM migration with PowerKVM maximizes application availability by moving workloads to better balance system resources and uptime. PowerVM enables the allocation of many virtual machines in parallel per processor.

SUSE Linux Enterprise Server for POWER fully supports SUSE Linux Enterprise High Availability and Geographic Clustering extensions to ensure compliance with requirements to minimize downtime of business applications. Full system rollback

provides rapid recovery from unexpected system update errors.

DELIVER A HIGH-PERFORMANCE PLATFORM TO MEET INCREASING BUSINESS DEMANDS

SUSE Linux Enterprise Server for POWER complements IBM Power Systems features that improve application performance and deliver fast access to critical business data.

Support for eight threads per core (SMT8) maximizes POWER processor performance across the full range of Power Systems servers as well as OpenPOWER Abstraction Layer (OPAL) systems. Maximizing the number of queries per core delivers near real-time analytics results for SAP HANA environments which increases visibility to the most current business data. Extended virtual address space up to 512 terabytes supports very large SAP HANA workloads on POWER-based systems.

SUSE Linux Enterprise Server for POWER delivers reduced latency through wire-speed messaging to fast I/O storage systems improves application and platform performance. Fast memory initialization reduces large-memory server reboot times following planned and unplanned downtime.

Support for Non-Volatile Memory Express (NVMe) delivers faster remote storage device communications.

ACCELERATE INNOVATION AND IMPROVE DEPLOYMENT TIMES

Reduce time to market for a broad choice of innovative open source and partner solutions. With SUSE Linux Enterprise Server for POWER IT organizations can confidently migrate applications and data with support for IBM POWER8 Little Endian mode. SUSE has a vast ecosystem of certified hardware and partner solutions, given you freedom of choice to build the

solutions that meet your needs. Support for Package Hub makes SUSE-approved Linux on Power packages built and maintained by the open source community of users.

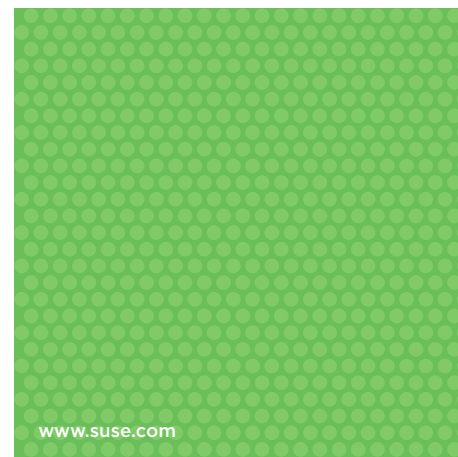
The modular design of SUSE Linux Enterprise Server for POWER provides the ability to quickly and easily deploy new functionality without changing the core OS. With Modules, IT teams have control to balance flexibility to deliver innovative new offerings without impacting stability of the infrastructure and extensive re-certifications.

The Containers Module provides delivery of new Linux container innovations including updates for Docker support. SUSE Docker support delivers improved agility for the IT infrastructure enabling easy and secure collaboration for creating Docker applications. This includes integrating container applications with cloud deployments or quickly deploying Docker using a minimized host OS. SUSE Docker includes a private registry at no additional cost and Portus: a graphical user interface for managing images, secured with login authentication.

A comprehensive set of installation, configuration, deployment and administration tools powered by Zypper enables IT organizations to save time and optimize lifecycle management. SUSE Manager provides configuration and monitoring support for Power Systems servers.

SUSE and IBM

SUSE and IBM have collaborated for over 20 years to deliver industry-leading Linux-based solutions. The partnership includes working together on technical development of innovative offerings and customer support.



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