



# SUSE Linux Enterprise Server for POWER

SUSE Linux Enterprise Server for POWER at a Glance:

- **Increase reliability and reduce costs for missioncritical 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 processor-based 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, and the first to run in POWER9 base mode.

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

- **Increase reliability and reduce costs for mission-critical applications** with advanced RAS capabilities that are 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** with support for POWER9 Little Endian Mode (ppc64le) for a broad choice of open source and partner solutions

### 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.

SAP Basis administrators can reduce the time to reload inmemory data after system reboots with persistent memory support for IBM PowerVM®-based Virtual PMEM.

SUSE Linux Enterprise Server for POWER fully supports the SUSE Linux Enterprise High Availability Extension to ensure compliance with requirements to minimize downtime of business applications. Full system rollback also provides rapid recovery from unexpected system update errors.

SUSE Linux Enterprise Live Patching is included with SUSE Linux Enterprise Server for POWER Unlimited VMs subscriptions to eliminate downtime for patching security vulnerabilities and stability issues in the Linux kernel. System administrators can apply an unlimited number of patches without restarting the affected LPARs for up to one year.

### 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 POWER9 processor performance across the full range of Power Systems servers as well as OpenPOWER Abstraction Layer (OPAL) systems. POWER10 mode is fully supported when POWER10 processor-based systems are available.

Extended virtual address space up to 4 petabytes provides the infrastructure for future application growth. SAP HANA databases greater than 32 TB are supported with IBM PowerVM, reducing the number of system reboots after memory fragmentation.

Shared Processor LPAR (SPLPAR) statistics and multi-threading for supportconfig on high end POWER systems enables improved performance tuning and problem determination.

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. SR-IOV ibmvnic shared adapter support with IBM PowerVM increases system I/O performance. This reduces the CPU load, and provides the ability to enforce quality of service.

### 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 Little Endian mode. SUSE® has a vast ecosystem of certified hardware and partner solutions, giving 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.

SUSE support for open source docker containers delivers improved agility for the IT infrastructure enabling easy and secure collaboration for creating containerized applications. This includes integrating container applications with cloud deployments or quickly deploying containers using a minimized host OS. SUSE open source docker container support 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 (separate subscription required) 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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