SUSE® Linux Enterprise Server 12 Service Pack 2 Highlights

SUSE® Linux Enterprise Server is a world-class, secure open source server operating system, built to power physical, virtual and cloud-based mission-critical workloads. SUSE Linux Enterprise Server 12 Service Pack 2 (SP2) further raises the bar in helping organizations to accelerate innovation, enhance system reliability, meet tough security requirements and adapt to new technologies.

■ Products:

SUSE Linux Enterprise Server

Accelerate Innovation

Service Pack 2 enables customers to bring state-of-the-art solutions to market faster leveraging the latest technologies.

■ **Software-Defined Networking and Network Function Virtualization**— *Telecommunication and advanced enterprise implementations require performance that can't be met with just Open vSwitch (OVS). The new OVS implementation in combination with the Data Plane Development Kit (DPDK) runs packet processing workloads in user space and can process packets up to 10x faster, allowing Telecom providers to efficiently implement virtual network functions.*

■ **Combined with SUSE Linux Enterprise 12's broad hypervisor support** *the new network function virtualization capabilities provide SUSE customers with a complete virtualization solution for cloud and on-premises deployments.*

■ **Reduce downtime and improve I/O performance** *utilizing persistent system memory applications using NVDIMM.*

– Dramatically reduce down-time by reducing rebuild time upon power restoration with integrated NVDIMMs that save data in seconds and make data immediately available on reboot. Downtime sensitive applications such as online transaction processing and financial applications can benefit from persistent system memory functionality.

– Run applications such as storage and database acceleration at far higher speeds using system memory persistence capabilities of NVDIMM.

■ **Implement cost-effective, high-performance data analytics** *with full support for IBM Power Systems LC and OpenPOWER servers, including bare metal support.*

■ **Easier access to the latest packages and technologies** *using new SUSE Package Hub integration with SUSE Customer Center (SCC) that helps customers to seamlessly get modules and package updates.*

Enhance Reliability and Security

Service Pack 2 helps you to enhance reliability, improve resiliency and meet tough security requirements, ensuring you can run mission critical workloads with maximum uptime and with proven security.

- **Save time and resources** *with "skip service packs" functionality, which lets customers skip upgrades of prior service packs and jump straight to SP2 from SUSE Linux Enterprise Server 12.*
- **Meet strict security requirements of Federal Government, FISMA and Financial industry** *with FIPS 140-2 certification, awarded to SUSE Linux Enterprise 12 by NIST and CSEC that ensures crypto algorithms follow standards and contain no obvious crypto weakness.*
- **Improve resiliency and automate processes** *right from the installer stage using auto update of code with the powerful administration tool YaST® (Yet another Setup Tool).*
- **Reduce downtime for large memory IBM POWER-based systems** *by minimizing memory initialization times for server restarts.*

Adapt To New Technologies

Use Service Pack 2 to adapt to new technologies with added support of new cutting-edge hardware architectures.

- **Improve power efficiency** *using ARM 64's low power consumption and efficient design for your servers and network infrastructure. SLES 12 for ARM and SLES 12 for Raspberry Pi provide 64 bit enterprise Linux support for ARM v8 (AArch64) and Raspberry Pi respectively.*
- **Deploy high-performance computing (HPC) workloads** *using scalable Intel Omni-Path Architecture.*
- **Reduce downtime** *using High Availability and Geographical Clustering support for IBM POWER.*
- **Take advantage of latest advances** *in container management with container engine from open source Docker project now supported on all architectures including z Systems and ARM.*

In addition, Service Pack 2 includes new and updated features for SAP Applications that ease migration to S/4HANA, accelerate deployment of SAP applications, tune SAP HANA for performance and create a more resilient and secure SAP environment.

Service Pack 2 images are available for public cloud infrastructures making it easier to offer public cloud services and migrate to public cloud from on-premises environments.

The following products are being launched as part of SUSE Linux Enterprise 12 Service Pack 2

- *SUSE Linux Enterprise 12 Service Pack 2 (SLE 12 SP2)*
  - SUSE Linux Enterprise Server: **www.suse.com/products/server/**
  - SUSE Linux Enterprise Desktop: **www.suse.com/products/desktop/**
  - SUSE Linux Enterprise Workstation Extension: **www.suse.com/products/workstation-extension**
- *SUSE Linux Enterprise Server for z Systems and LinuxONE:* **www.suse.com/products/systemz/**
- *SUSE Linux Enterprise Server for POWER:* **www.suse.com/products/power/**
- *SUSE Linux Enterprise Server for ARM, Raspberry Pi:* **www.suse.com/products/arm**
- *SUSE Linux Enterprise Server for SAP Applications:* **www.suse.com/products/sles-for-sap/**
- *SUSE Linux Enterprise High Availability Extension 12 SP2:* **www.suse.com/products/highavailability/**
  - GEO Clustering for SUSE Linux Enterprise High Availability Extension 12 SP2: **www.suse.com/products/highavailability/geo-clustering**

For additional information, visit: **www.suse.com/products/server**

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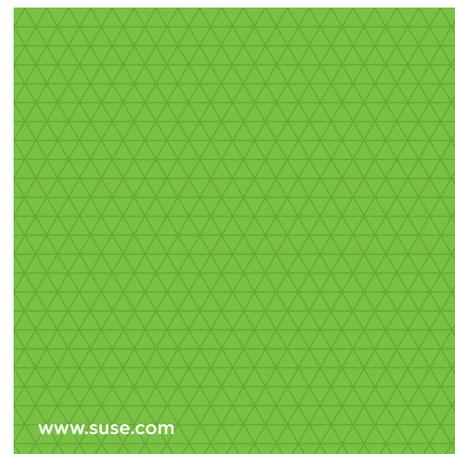
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