



# SUSE® Linux Enterprise Server for z Systems and LinuxONE 15

IBM Z and LinuxONE systems are known for their high reliability and ability to run various mixes of workloads simultaneously with very little downtime, and have evolved to become the most secure and trusted hardware platforms on the planet. Linux and open source software has rejuvenated the hardware as a viable consolidation platform that both saves on licensing costs and enables technologies such as virtualization, cloud, containerization and cryptography that are vital to survive in today's economy.

## Product Overview

SUSE® Linux Enterprise Server for z Systems and LinuxONE 15 is an enterprise-class, highly reliable, scalable and secure open source server operating system, optimized for IBM z Systems and LinuxONE and built to power physical, virtual and cloud-based mission-critical workloads.

For nearly 20 years, businesses have trusted their mission-critical applications to SUSE Linux Enterprise Server for z Systems and LinuxONE. As your workloads increase, turn to the operating system that's better optimized for the mainframe and LinuxONE systems than any other Linux OS—increasing uptime, reducing operating costs and accelerating innovation. The operating system provides state-of-the-art hardware exploitation of z Systems and LinuxONE processors—for a much faster Linux system with enhanced compiler and toolchain to help boost your application performance.

More businesses choose SUSE Linux Enterprise Server for z Systems and LinuxONE

than any other Linux for running workloads on IBM mainframes. The reasons are engineering excellence and long-term business expertise that accelerate innovation. SLES is optimized for IBM mainframes like no other Linux operating system, ensuring you benefit from continuous improvement and innovation. Our longstanding development jointly with IBM means you can confidently rely not only on our business expertise, but also on true engineering excellence.

## Key Benefits

SUSE Linux Enterprise Server for z Systems and LinuxONE 15 comes with many new technologies and features that help you achieve greater ROI, uptime and performance:

- **High performance and throughput**
- **Increased security and data protection through end-to-end encryption**
- **Enhanced virtualization capabilities to help shrink your data center footprint and simplify maintenance for your IT staff**

## System Requirements

### Hardware

- IBM z196
- IBM z114
- IBM zEC12
- IBM zBC12
- IBM z13
- IBM z14
- IBM LinuxONE Rockhopper
- IBM LinuxONE Emperor

### Network Connection

- OSA Express Ethernet (including Fast and Gigabit Ethernet)
- HiperSockets or Guest LAN
- 10 GBE, vSwitch
- RoCE (RDMA over Converged Ethernet)

The following interfaces are still included, but are no longer supported:

- CTC (or virtual CTC)
- IP network interface for IUCV

### Disk Space

- 800 MB for minimal installation
- 1.4 GB for minimal installation + base system
- 2.6 GB for default installation
- 3.6 GB+ recommended (with graphical desktop, development packages, and Java)

### Memory

- 1 GB for installation under z/VM or KVM
- 1 GB for installation under LPAR

For detailed product specifications and system requirements, visit: [www.suse.com/products/systemz/technical-information/documentation/](http://www.suse.com/products/systemz/technical-information/documentation/)

Contact us at:  
[www.suse.com](http://www.suse.com)

- **Advanced RAS capabilities** increase reliability and reduce costs, providing extra dimensions of availability
- **Improved operational efficiency** with tools you won't find anywhere else.

### Key Features

- Performance improvements on the latest IBM Z machines and support for SIMD (Single Instructure, Multiple Data) and SMT (Simultaneous Multithreading)
- Support for the latest cryptographic acceleration for secure-key operations and new hardware assists for fast data encryption
- Virtualization capabilities to boost resource utilization using KVM and/or z/VM
- Advanced high availability Linux services included with every subscription with a clustered file system for Linux on z Systems
- Disk mirroring with real-time enhancements for z Systems improves storage operation and service availability
- Java SDK is included and is an ideal framework for secure server-side web programming
- OFED (OpenFabrics Enterprise Distribution) packages are enabled, used in environments that require highly efficient networks, storage connectivity and parallel computing.
- ZYpp provides superior package management and is the fastest update stack available on any enterprise distribution
- YaST® (Yet another Setup Tool) framework offers the most powerful and extensive Linux environment available today for every aspect of installation, configuration and management of your system
- AutoYaST, designed for remote system configuration and mass-deployment.