

Key Differences Between SUSE Linux Enterprise 15 and SUSE Linux 16

Adopting SUSE Linux 16

WHAT?

This article describes the key differences between SLE 15 and SUSE Linux 16.

WHY?

This article helps you evaluate an upgrade to SUSE Linux 16.

EFFORT

Approximately 10 minutes reading time.

GOAL

Understand how to best adopt SUSE Linux 16.

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1 Minimum CPU architecture support

| | AMD64/Intel 64 (x86-64) | IBM POWER (ppc64le) | IBM Z (s390x) | Arm (AArch64) |
|---------|---------------------------|----------------------|---------------|---------------|
| SLES 15 | x86-64-v1 | POWER8 | z12 | ARMv8.0-A |
| SLES 16 | x86-64-v2 ^{1, 2} | POWER10 ³ | z14 | ARMv8.0-A |

¹ To improve overall performance, SLES 16 also delivers some shared libraries optimized for x86-64-v3. These libraries will be installed and used automatically on systems supporting v3. You can tell a package was optimized if its name includes the string `x86-64-v3`.

² SLES 16 removes 32-bit application support. The Linux kernel can still enable 32-bit system calls by installing the `grub2-compat-ia32` package from the SUSE Package Hub.

³ SLES 16 can be run on Power9 but SUSE supports only Power10 and above.

2 Versioning and release cycle

- SLE 15 uses Service Packs (SPs) for annual updates, such as SP1, SP2, SP3, SP4, SP5, SP6, and SP7, which is the last SP released for SLE 15.
- SUSE Linux 16 introduces a new naming schema for versions, using minor releases like 16.0, 16.1, instead of service packs. Minor releases are scheduled annually and always in November. The initial release, 16.0, is planned for November 2025.

3 Lifecycle

- Each SUSE Linux Enterprise Server 15 service pack has general support for 18 months, giving you six months overlap with the next service pack. SUSE offers various extended support options like Long Term Service Pack Support (LTSS, 3 years) and Extended Service

Pack Overlap Support (ESPOS). The total support for SLE 15 covers up to 13 years: 10 years general support plus 3 years LTSS. SUSE Linux Enterprise Server for SAP applications 15 SPs has a total support period of 4.5 years.

- SLES 16 is ready for the future beyond 2038. Each SLES 16 minor release has 24 months of general support, giving you 12 months overlap with the next minor release. This means SUSE Linux Enterprise Server doubles the time to upgrade at no extra cost. The last minor release 16.6 will have 48 months of general support to complete a 10 year lifecycle. General support is expected to end in November 2035. Additional Long Term Support (LTS) is available for 3 years for all service packs, with LTS and Extreme LTS beyond 2040. SUSE Linux Enterprise Server for SAP applications 16 has general support for 2 years plus 3 years extended support.

4 Systems management

- In SLE 15 and earlier, YaST was used for installation, configuration and systems management. Unattended and scripted installation was performed by AutoYaST.
- In SUSE Linux 16, systems management sees significant changes:
 - Installation (including unattended) transitions to Agama. Agama is a new installer with a Web-based front-end, command-line interface, and API for integration. It focuses on the installation in favor of software configuration management (SCM) tools. Agama supports repeated configuration import.
 - Configuration management uses Salt and Ansible via SUSE Multi-Linux Manager. This supports customers with ready-to-run automation.
 - Remote management is handled by Cockpit, a Web-based front-end for 1:1 management.

These changes in SUSE Linux 16 aim to provide better integration with Salt and Ansible, allow remote installation via a Web browser, and offer different interfaces (Web, CLI, HTTP API) for controlling the process.

5 Security framework

- SLE 15 uses AppArmor by default. SELinux is shipped without policies.
- SUSE Linux 16 ships SELinux with policies for over 400 modules by default, confining almost the whole system. Parts of the system can run unconfined if desired. SUSE Linux Enterprise Server for SAP applications 16 has improved workload isolation with SELinux, providing isolation for data and data flows, and for containers.

6 Networking stack

- SLE 15 used wicked and NetworkManager.
- SUSE Linux 16 focuses on a single stack using NetworkManager.

7 Deployment

- SLE 15 offered ready-to-run images for virtual machines or public clouds and installation media for manual deployment with YaST or automated with AutoYaST. It used a special installation environment with linuxrc-driven configuration. AutoYaST profile import was a one-off task only.
- SUSE Linux 16 uses ready-to-run images for virtual machines or public clouds, and manual/automated deployment with Agama. The Agama installer is accessible via a Web interface, command line or HTTP API. Agama allows repeated configuration import. It uses a standard live medium with dracut, systemd, and NetworkManager and provides a backward-compatibility layer with selected linuxrc options.

8 Init system

- SLE 15 used systemd with native units and compatibility for 3rd party SysV init scripts.
- SUSE Linux 16 completes the transition from SysV init and uses systemd native units exclusively.

9 Default OS configuration

- In SLE 15, the default OS configuration was primarily in /etc.
- In SUSE Linux 16, defaults are in /usr and /etc is for customization. This separation of vendor-provided defaults and administrator customization allows easier updates and — optionally — read-only /usr file system.

10 /tmp uses tmpfs

- In SLE 15 /tmp was a regular folder or partition. In the default configuration with Btrfs as root file system, it was a Btrfs subvolume.
- In SUSE Linux 16, /tmp uses the tmpfs file system, which stores data in physical RAM and/or swap space, making it very fast for read and write operations.

Important: /tmp is no longer persistent

On tmpfs, the content of /tmp is not persistent between reboots. If you have applications that write persistent data to /tmp, adopt them to use a different location such as /var/cache.

Important: Do not oversize /tmp

Oversizing tmpfs file system instances beyond the sum of physical RAM and swap space of a system can lead to deadlock situations where the system becomes unresponsive due to insufficient available memory.

11 Desktop environment

- SLE 15 used GNOME as the default desktop environment. SUSE Linux Enterprise Desktop and SUSE Linux Enterprise Workstation Extension shared desktop productivity tools.
- SUSE Linux 16 uses a minimal GNOME desktop. This helps minimize the security surface. SUSE Linux Enterprise Desktop is not planned for 16.0.

12 Modernized High Availability stack

| | SLE HA 15 | SLE HA 16 |
|-------------------------|--------------------------------|----------------------------|
| Pacemaker | version 2 | version 3 |
| Corosync | version 2 | version 3 |
| Distributed file system | OCFS2, GFS2 (read-only) | GFS2 (fully supported) |
| Fence agents | All agents in a single package | Agents packaged separately |

13 Removed technology

SUSE Linux 16 removes certain technologies to reduce the OS footprint and the security attack vector:

- System: 32-bit application support is removed. The Linux kernel can still enable 32-bit system calls by installing the `grub2-compat-ia32` package from the SUSE Package Hub.
- System: SysV init scripts are removed; use native `systemd` units instead.
- Network: **wicked** is removed in favor of NetworkManager.
- Network: NIS is no longer used; choose LDAP instead.
- Network: The ISC DHCP server was removed in favor of the more modern Kea DHCP.
- Virtualization: Xen was removed in favor of KVM. You can no longer run SUSE Linux 16 as Xen host or as paravirtualized guest (PV). Running SUSE Linux 16 as fully virtualized Xen guest (HVM) or using hardware virtualization features (PVH) is still possible.
- Windows Subsystem for Linux: Support for WSL1 was removed in favor of WSL2, offering a full Linux kernel with complete system call compatibility.

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