



zUSERGroup Montreal

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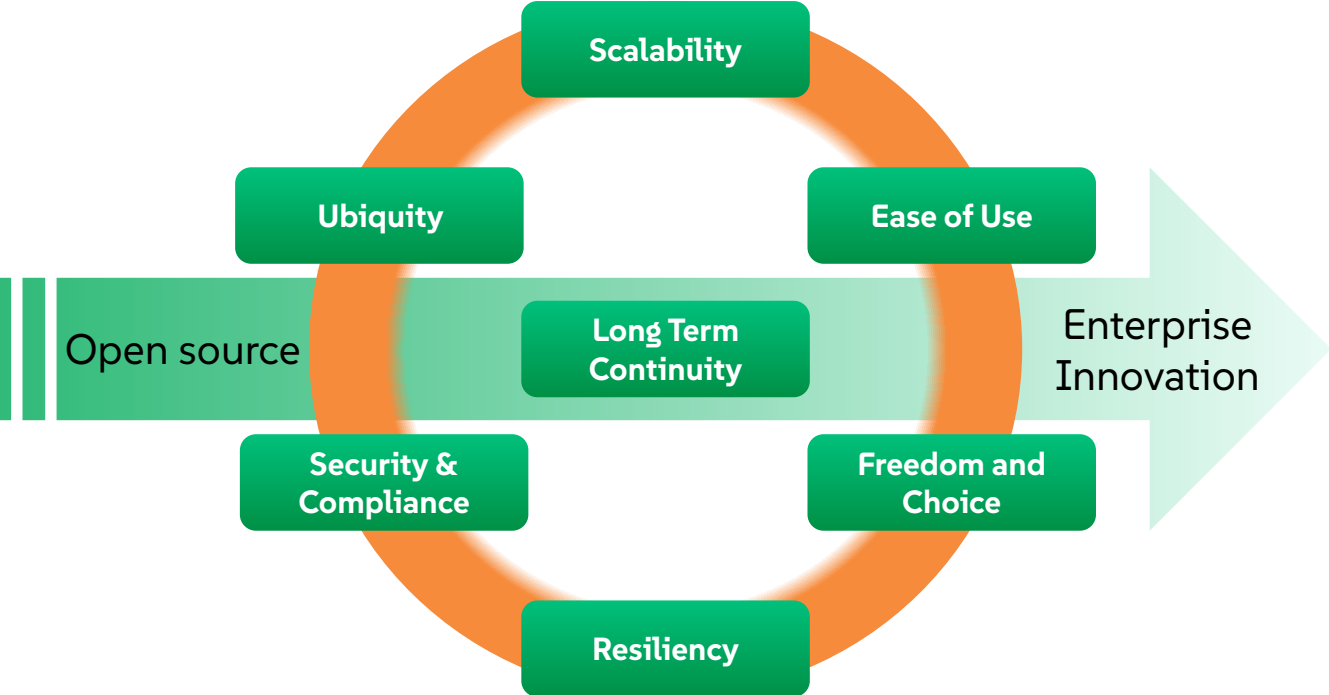


Agenda

- **SUSE Linux Enterprise Server 16.0**
introduction
 - Systems Management - Agama, Cockpit, Ansible
 - Notable details

- Multi-architecture management with **SUSE Multi-Linux Manager**
 - Quick UI walkthrough
 - Pinpoint vulnerable systems using CVE Audit
 - Patching with Content Lifecycle Management

Enterprise Innovation, Powered by SUSE Linux



 **SUSE Linux**
Enterprise Server

 **SUSE Multi-Linux**
Support

 **SUSE Multi-Linux**
Manager

 **SUSE Linux**
Enterprise Server
for SAP® applications

 **SUSE Rancher**
for SAP® applications



SLES 16.0

introduction



High Level Comparison from 15 to 16

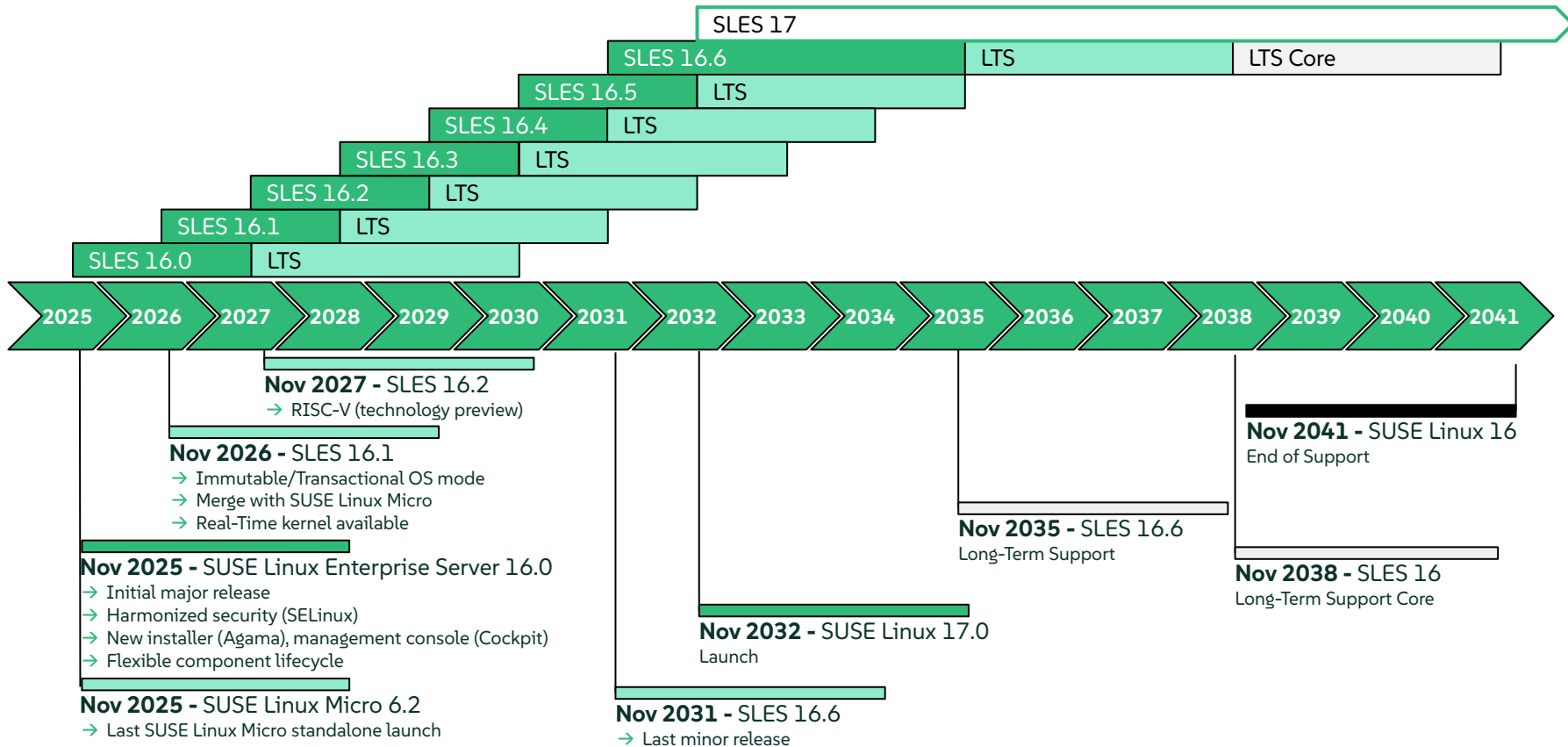
What stays the same?

- Workloads: Custom workloads (package, tarball etc), container, VM
- SLES: General purpose OS
- SLES for SAP applications: OS optimized for SAP workloads
- SLES for SAP includes SLES and SLE High Availability extension
- HW architectures:
 - SLES: Arm64, Power64, System Z (64-bit), x86-64
 - SLES for SAP: Power64, x86-64

What's changing?

- Extended Lifecycle:
 - SLES: general support for **2 years**; followed by optional 3 years LTS
 - SLES for SAP: **5 years** for each minor release - general support for **2 years** plus 3 years LTS included
- Versioning: **Minor releases** (16.0, 16.1) instead of SPs
 - Naming change, not a technology change
- Yearly releases always in **November**
- Ready for the future - beyond 2038
- Technology changes - modernizing stack to address customer challenges

SUSE Linux Enterprise 16 Life Cycle



SUSE Linux Enterprise 15 Life Cycle

The longest ever SLE family, no competition in Enterprise Linux world

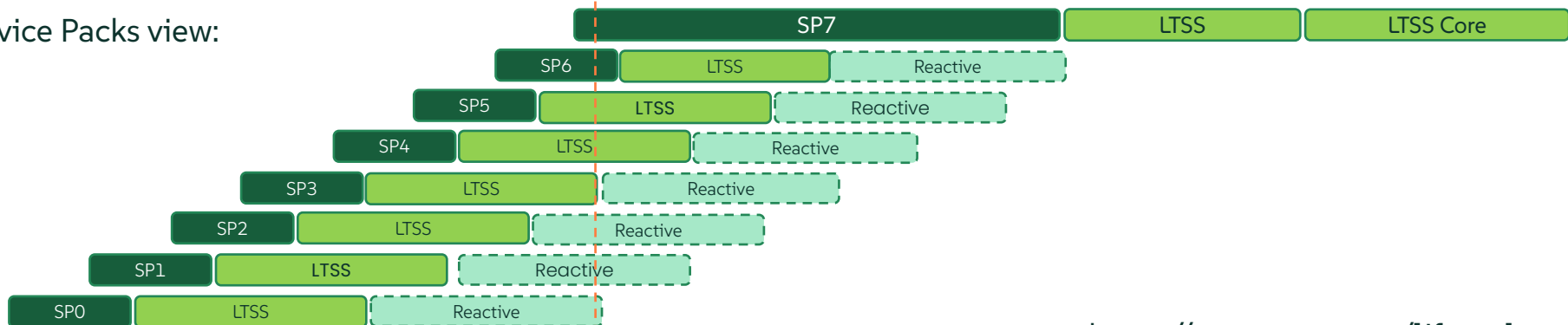


Today

The family view:



Service Packs view:



<https://www.suse.com/lifecycle>





System Management



Systems Management

YAST in SLES 15 and earlier:

- Installation, unattended and scripted installation, configuration, systems management, command line, first boot configuration, ...

SLES 16

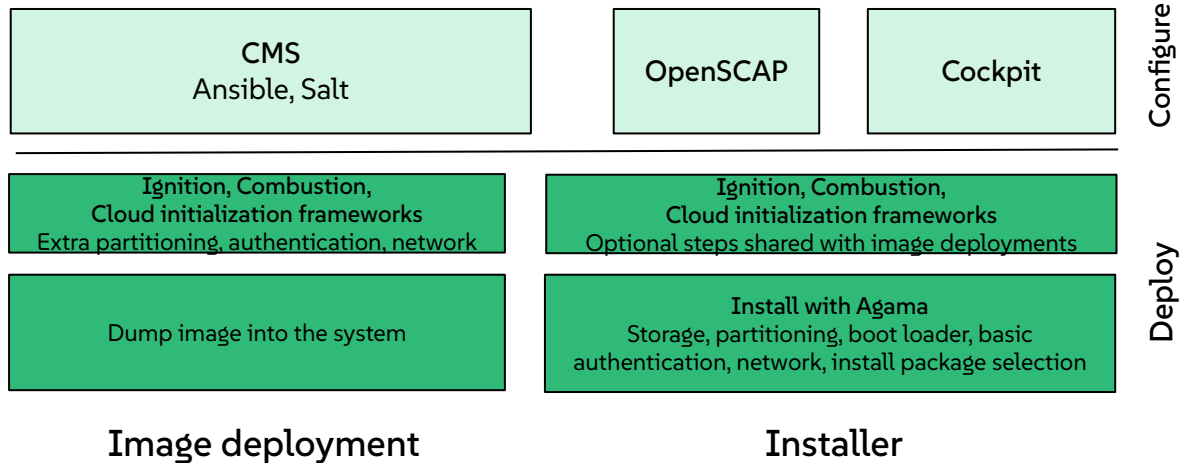
- Installation (incl. unattended) → Agama
- Remote management → Cockpit
- Configuration management → Ansible

Systems management

Instead of a single framework like YaST, SLES 16 has specific tools for the job

- Agama as installer
- Cockpit for 1:1 management
- Ansible and salt for configuration management

These changes add more flexibility and compatibility that will make installations and automation integrate more cleanly with modern practices.



Agama: The Future of SUSE Installation



Modern & Accessible

- Access from any browser, on any device
- Easily install and configure systems from anywhere
- Modern, intuitive, clean, and user-friendly design



Built for Today's Workloads

- API-driven: seamless integration with automation tools
- Modular architecture is easier to extend and maintain
- Reusing stable and proven components to access the system



Secure & Stable

- Rust-based, engineered for memory safety and security
- Modern codebase means fewer crashes and vulnerabilities
- Quicker updates and bug fixes for a reliable product

Cockpit for Easy Remote Management



Web-Based & Remote First

- Intuitive, modern web UI accessible from any device
- Easily manage servers from a central location
- Manage systems without installing local software



Designed for Modern Workflows

- See system state in real-time, no need to refresh
- Full command-line access directly from the browser
- Use Cockpit alongside existing tools like Ansible or SSH
- Modular & extendable: add functionality with a growing list of plugins



Simplified & Secure

- Easy for new and experienced admins alike
- Works with existing security and permissions, no new layer
- Minimal resource usage when not in use
- New features and bug fixes released frequently

Ansible - choice for configuration management

- Configuration Management in SLES 16:
 - Ansible - part of SLES 16
 - Salt - supported with SUSE Multi-Linux Manager
- Ansible delivered with ready to run automation scripts (roles/playbooks) for day 1 and day 2 automation, including:
 - Deploy applications
 - Setup of SAP HA cluster
- SUSE Multi-Linux Manager will continue to:
 - Improve existing Ansible integration
 - Support salt

Supported components:

- Ansible Engine: The core automation engine
- Linux System Roles: Utilize standardized roles for consistent OS-level configuration
- SAP-Specific Automation: Simplify the deployment and management of SAP landscapes
- SLES-Specific Tasks: Automate essential SUSE tasks like system registration and managing SUSE modules using dedicated Ansible content



Notable details



Core Software Updates

- kernel 6.12
- glibc 2.40
- systemd 257
- bash 5.2.37
- util-linux 2.41.1
- coreutils 9.6
- grep 3.11
- tar 1.35
- gzip 1.13
- openssl 3.5.0
- openssh 9.9
- firewalld 2.1.2
- cronie 1.7.2
- vim 9.1
- python 3.13
- perl 5.42
- networkmanager 1.52
- grub2 2.12

Complete list in
SUSE Customer Center:

<https://scc.suse.com/packages>

Improved handling of configuration files

Also known as “hermetic-usr” or “UsrEtc”

- Configuration files placement:
 - So far: most in /etc/example.conf
 - Admin makes changes - and distributor makes critical changes
 - Update: RPM creates example.conf.rpmnew
 - Admin needs to manually resolve
 - Ignoring leads to lost config and security problems, unbootable system
 - With 16 in general:
 - /usr for defaults as provided with distributor packages
 - /etc/example.conf.d/*.conf for customization of the provided defaults
- Separation of SUSE deliverables from local customization allows easier updates
 - No rpmnew files, both SUSE and admin configuration stay
 - Makes image updates (without rpm) possible
- Packages affected include sshd, sudo

Architecture Level Set

Tuning and minimal requirement of supported 64-bit CPUs

	Intel / AMD (x86-64)	Arm (aarch64)	IBM Z (s390x)	IBM Power (ppc64le)
SLE 15	x86-64-v1	Armv8.0-A	z12	Power8
SLE 16	Using x86-64-v2, prepare to run x86-64-v3*	Armv8.0-A	z14	Power9**

* On x86-64, SLES 16 delivers v3 optimized versions of some shared libraries (naming scheme: *libfoo-x86_64_v3*). These will be installed and used automatically on systems supporting v3.

** On IBM Power, SUSE enables execution on Power9 but supports only Power10 and above.

Modernize IT operations with an agentic AI-ready Linux

Benefits of an AI-driven Linux

Embed intelligence with a built-in AI-ready Linux

- Minimize operational cost.
- AI-enabled local administration.

AI-enhanced insights, visibility & auditing with AI-correlation

- Faster troubleshooting.
- Next generation compliance.

Keep your Sovereignty for AI

- Avoid AI lock-in with AI provider choice.
- LLM choice support.
- Supporting agentic AI emerging standards.

Available for SUSE Linux Enterprise Server 16*

SUSE Linux intelligence

supporting next agentic AI standards with Model Context Protocol (MCP) host and server implementation

*Availability after SLES 16.0 GA as technology preview

For additional information

- [SUSE Linux Enterprise Server 16](#)
 - [AI-ready linux](#)
- [SUSE Linux Enterprise Server 16 documentation](#)
 - [SUSE Linux Enterprise Server 16.0 Release Notes](#)
 - [Key Technical Differences Between SLE 15 and SUSE Linux 16](#)
 - [IBM Z-specific changes \(s390x\)](#)
 - [IBM Z: Installing SUSE Linux Enterprise Server Manually Using Agama](#)
- BLOG: [Introduction to Ansible Linux System Roles on SLES 16](#)



Multi-architecture management with SUSE Multi-Linux Manager



Challenges

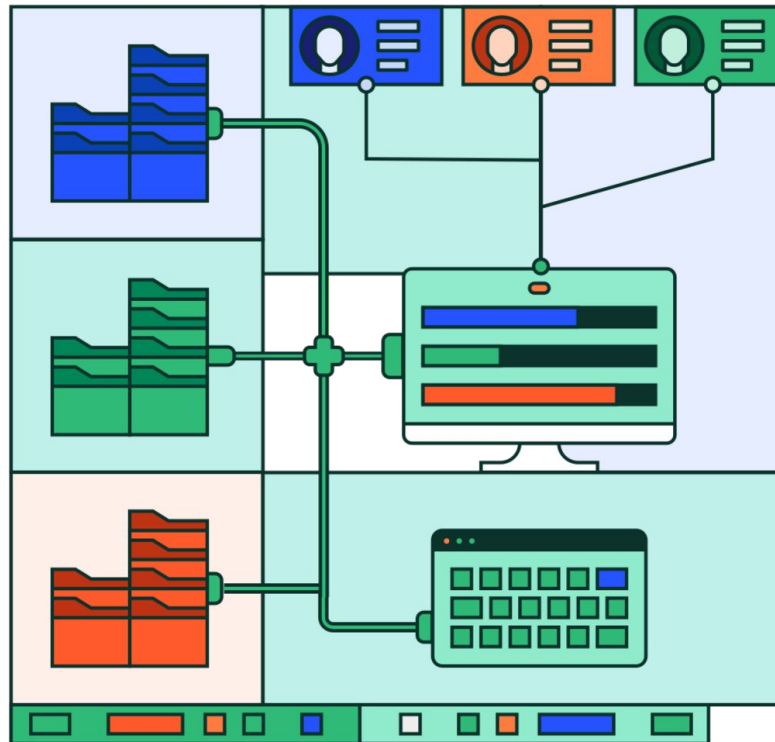
Some challenges organizations face:

- Vast infrastructure to manage with little resources.
- Different teams have different technical needs, a too rigid standard hinders innovation and slows change and too loose increase management complexity.
- Security needs visibility and control, vulnerabilities are discovered and we have to act without delay otherwise the risk can be too great.
- Changing vendors cannot happen overnight, too much dependency on a single vendor can let us exposed to increasing costs and disruptive changes.
- ...



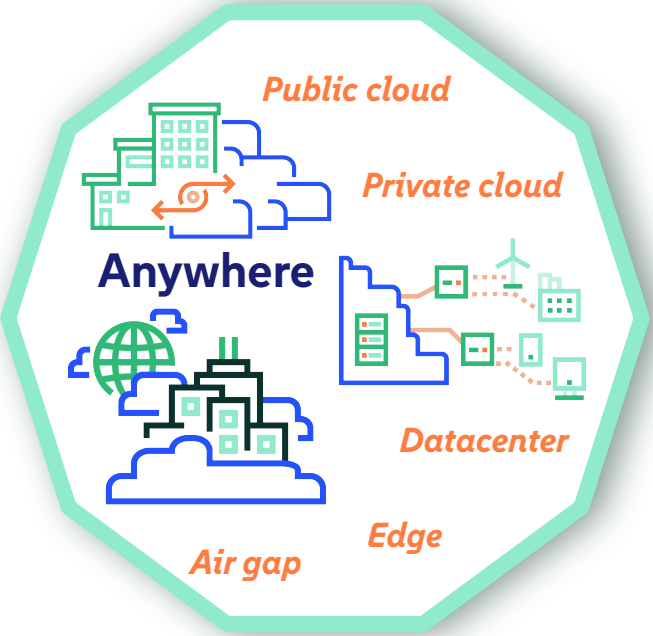
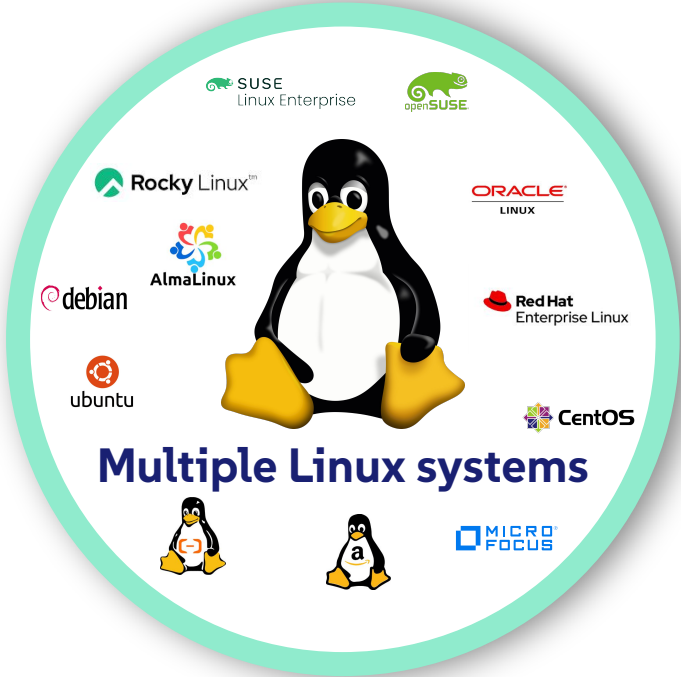
SUSE Multi-Linux Manager: What it is

True open source infrastructure management solution designed to simplify and secure your entire mixed Linux environment – at the core, on the edge or in the cloud.



SUSE Multi-Linux Manager

Our Mission



Manage anywhere with SUSE Multi-Linux Manager

Powerful content control and system management, wherever deployment needs to be strategically done – across hypervisors, clouds, or architectures

On-premises

- Physical or virtual workloads
- x86_64, aarch64, POWER or zSystems Mainframe

Public Cloud

- Virtual host gatherers for AWS, Azure, GCE, VMware, Nutanix
- File-based virtual host gatherer for other clouds

Hybrid cloud

Multi cloud

Private cloud

SUSE Manager works the same everywhere



SUSE Multi-Linux Manager **at scale**

Scale easily

10
SAP

"Help, my SAP goes
HANA!"

From critical systems to huge
distributed Edge deployments

100K

Retail / Edge / IoT

"From Brick & Mortar to Sensors &
Beacons"

Yearly

"These critical systems
are patched once a
year"

Avoiding the paradox of patching

Monthly

"Now we patch systems every month"
"We test patches in the lab for critical
systems before applying in prod"



SUSE Multi-Linux Manager Content Lifecycle Management

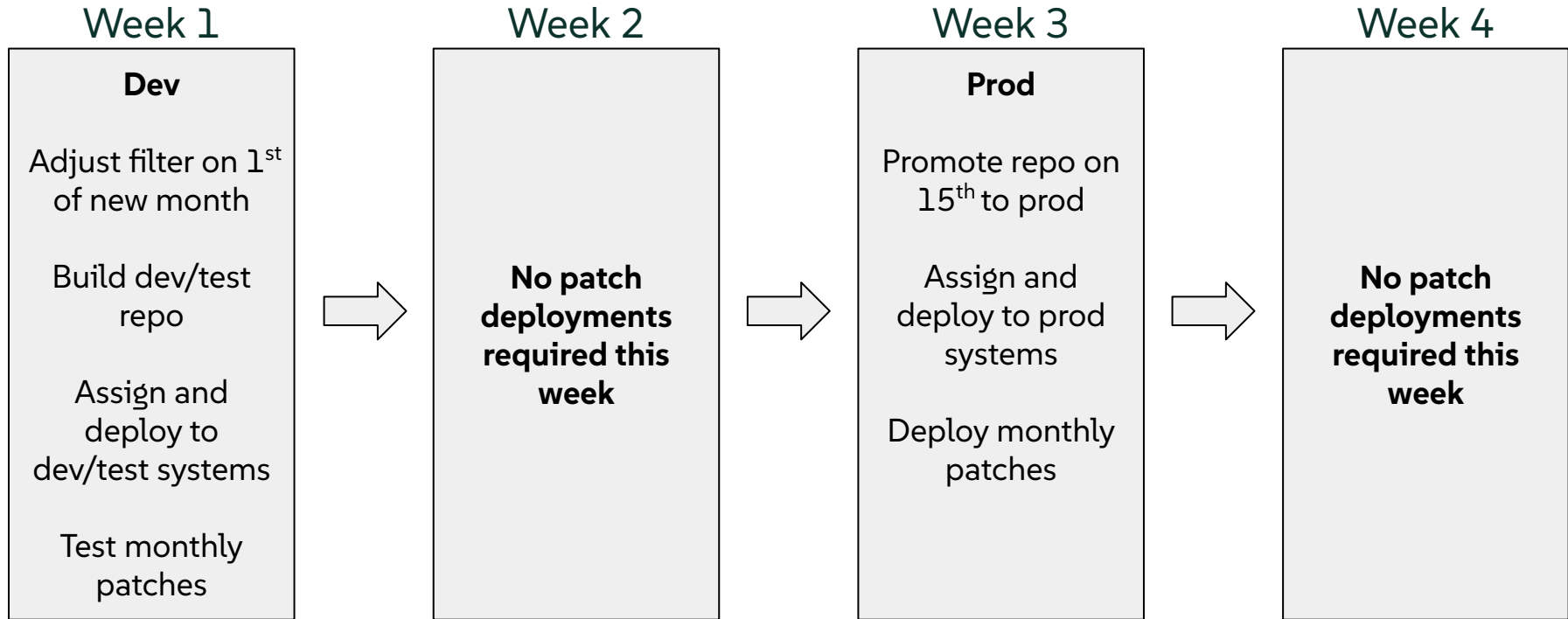
Control how, what and when content goes into your systems

- Move packages across multiple stages with UI-based CLM
- Customize and test packages before updating production systems
- Control content with granular filters & projects
- Deploy Dev, QA and Production systems with to support your growth



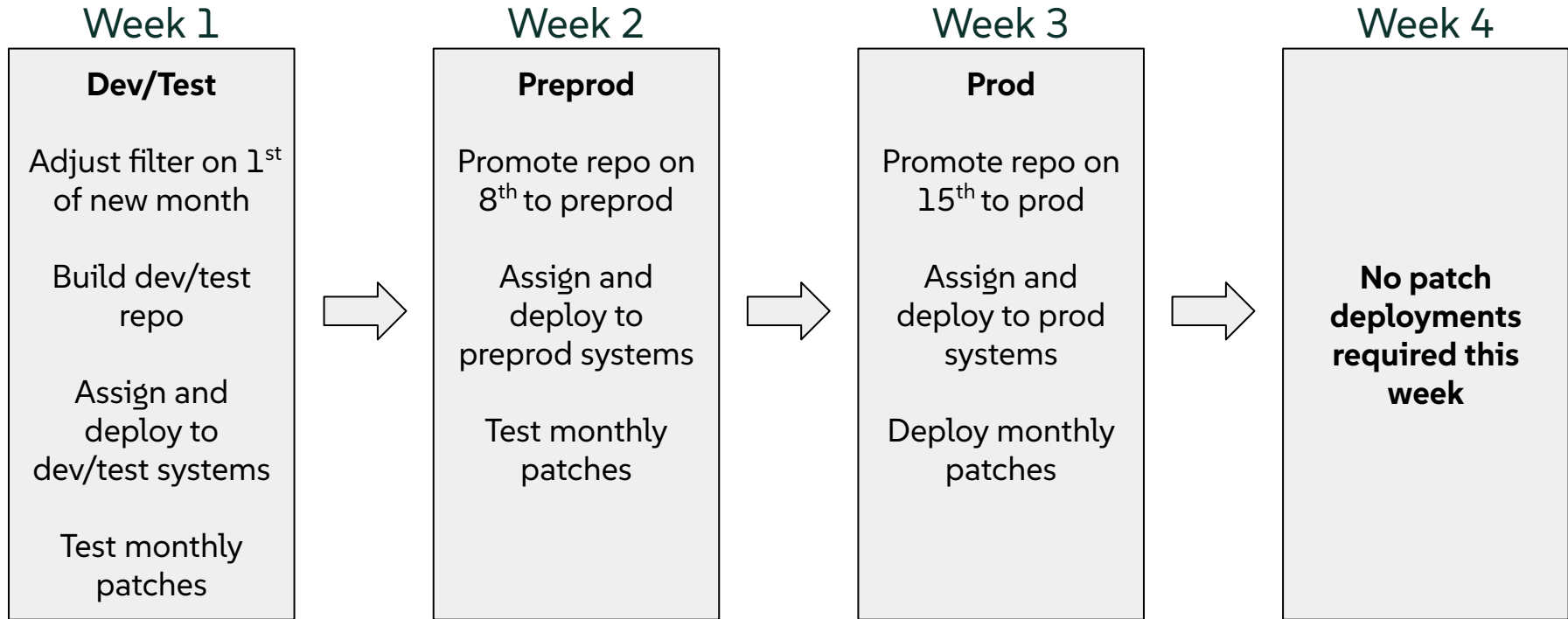
Example monthly patching cycle with 2 environments

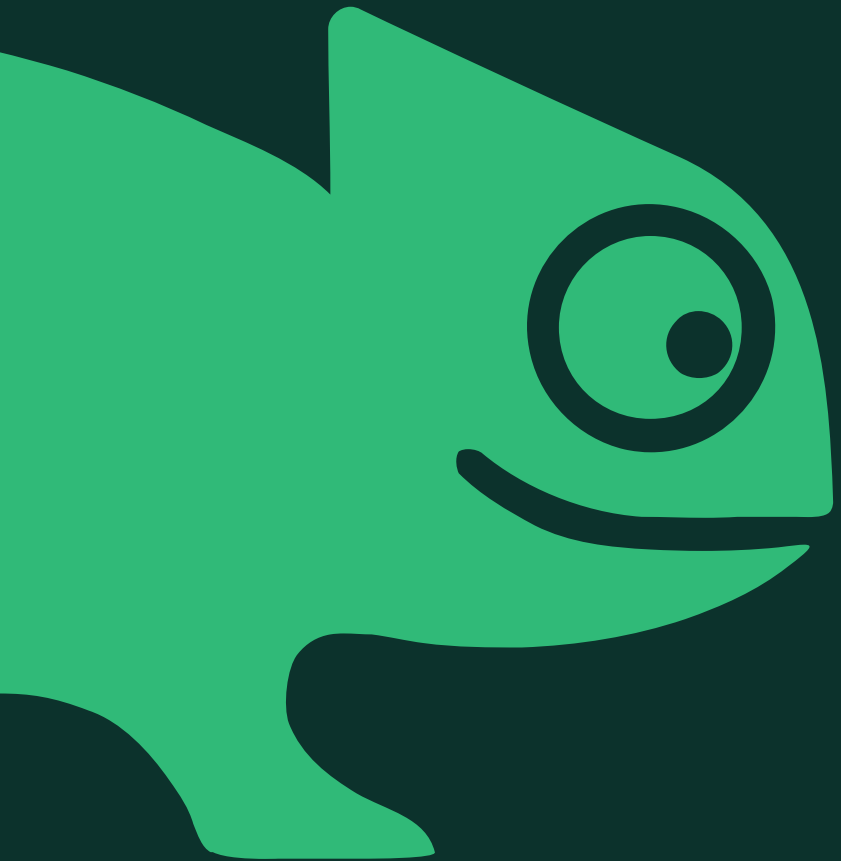
Using Content Lifecycle Management in SUSE Multi-Linux Manager



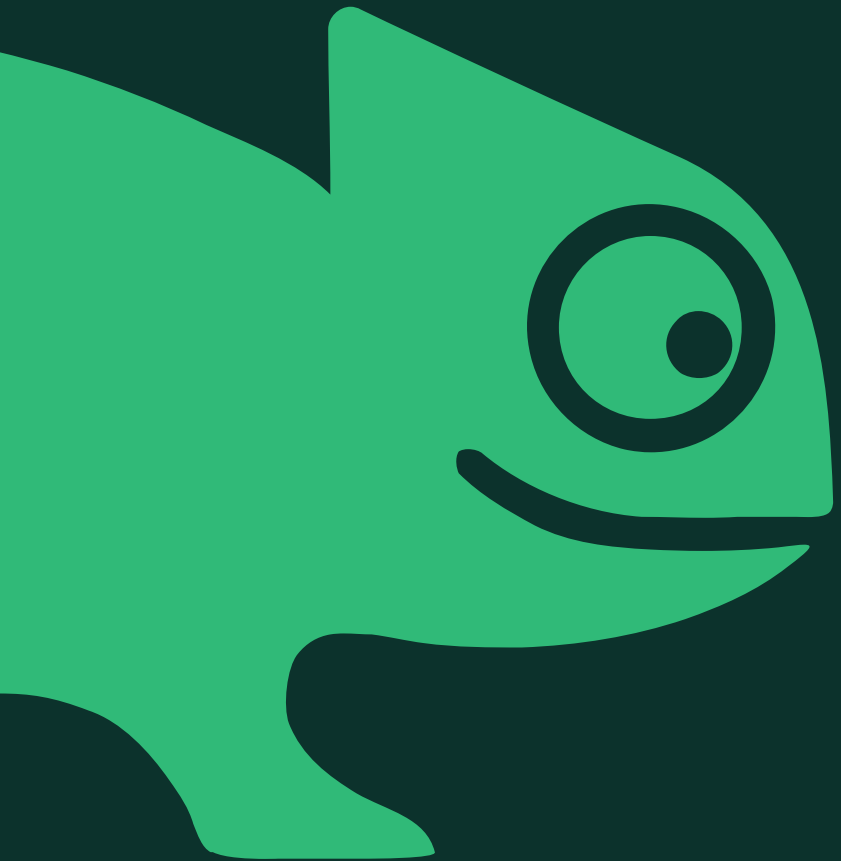
Example monthly patching cycle with 3 environments

Using Content Lifecycle Management in SUSE Multi-Linux Manager





Demo



Action item:

**Attend a free SUSE
Multi-Linux Hands-on
Workshop.**

**Find this and other free
workshops at
[SUSE Events](#)**



SUSE