

March 11, 2021

# What's up with SUSE?



### Welcome to TriLug!

- 1. History of SUSE
- 2.SUSE Linux Distros
- 3.Other Products
- 4. Tease about Rancher

#### Who is this guy?



**Dwain Sims** 

Sales Engineer dsims@suse.com dsims@bayleafnc.org +1 919-480-1774

- Joined SUSE in March 2018
- Formerly with Western Digital, SanDisk, Fusion-io, SteelEye Tech., Sun Microsystems, Lockheed
- MS Computer Science, West Virginia
- Attending TriLug since 2007
- Takes care of his wife's chickens....



### What means SUSE?

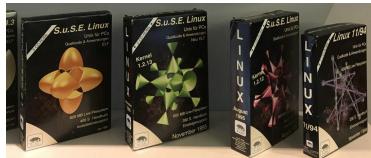
# S.u.S.E.

Roland Dyroff, Thomas Fehr, Burchard Steinbild and Hubert Mantel found S.u.S.E., 1992.

SUSE is a German acronym for "Software und System-Entwicklung" (software and systems development).

Softlanding Linux System (SLS) was one of the earliest Liunx disros. (Slackware was initially based on SLS)

First true S.u.S.E. Liunx distro was 4.2, in 1996.



# How is SUSE pronounced?



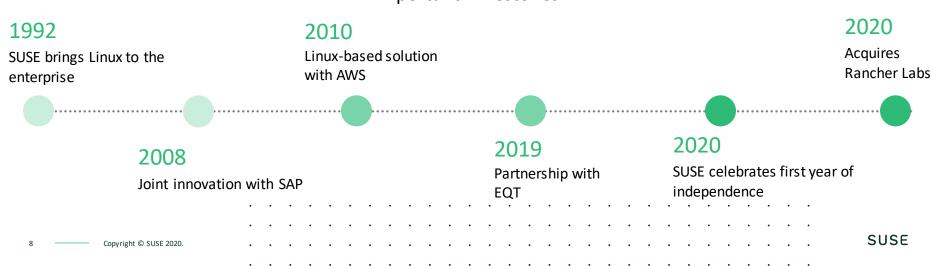
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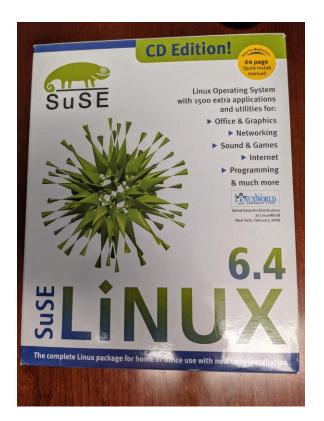
# Brief History of SUSE

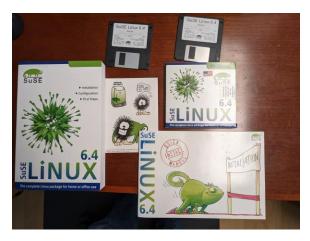
# 28 Years of Leadership in True Open Source

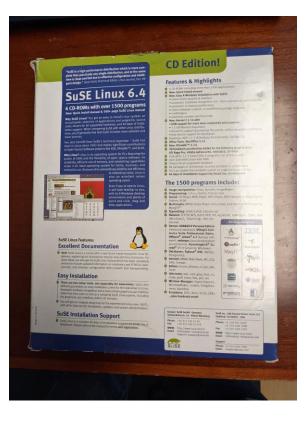
1992 to 2000	2001 to 2010	2011 to Present	2017 to Present
The Pioneering Years	Becoming strategic partner of SAP and building a strong ecosystem	Enabling an Always Open Data Center	From Linux Pioneer to Software-Defined Infrastructure and Edge

#### Important Milestones









# SuSE Linux 6.4 (circa 2000)

### Hardware Requirements

- 486DX
- Min 16MB RAM, for GUI 32 MB Minimum
- 140 MB Disk, 600 MB Recommended

SUSE

### **SUSE Linux Distros**

### 3 Types of Linux Distributions

Really defined by their Release Cycles



## Rolling Release

Release as soon as possible

## Regular

Release twice a year...

## Long Term / Enterprise

Slow (yearly?), small changes in sub releases

# SUSE has two of the three types...

#### Rolling

OpenSUSE Tumbleweed, Arch,
Manjaro, Gentoo

#### Regular

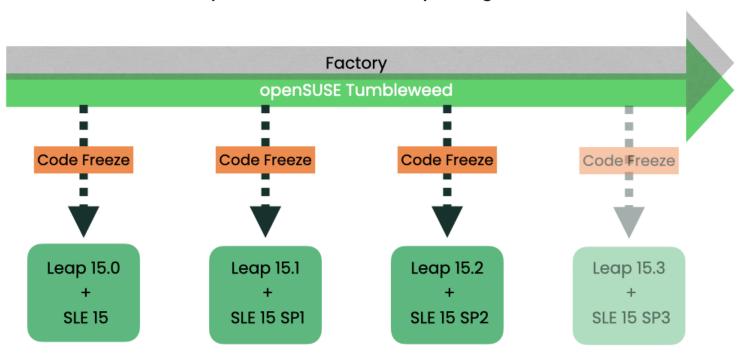
Ubuntu, Fedora,
Debian

#### Long Term

 OpenSUSE Leap, Ubuntu LTS, SUSE Linux Enterprise, RHEL, <del>CentOS</del>

#### SUSE has a tight bond between the three distros

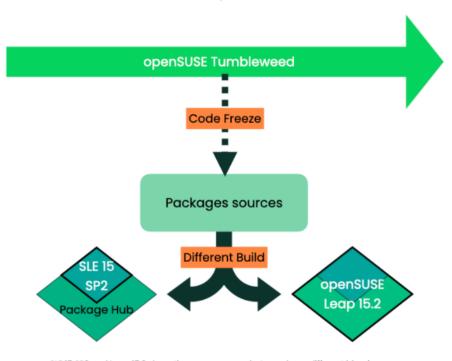
#### openSUSE & SLE - Developed together



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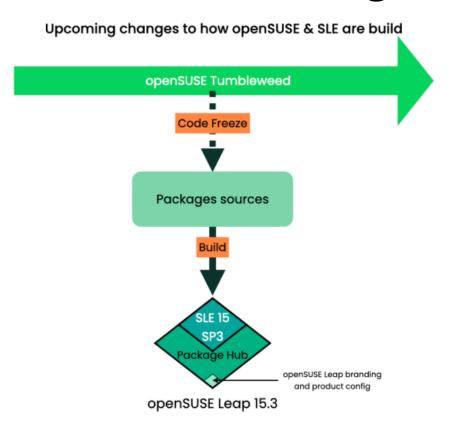
# Current Build Method...

How we built openSUSE & SLE so far



SLE 15 SP2 and Leap 15.2 share the same sources but may have different binaries rpm.

# Where we are heading...



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## Release Cycle

#### Tick - Tock

SUSE is following a Tick-Tock approach for releases.

#### Tick - odd versions

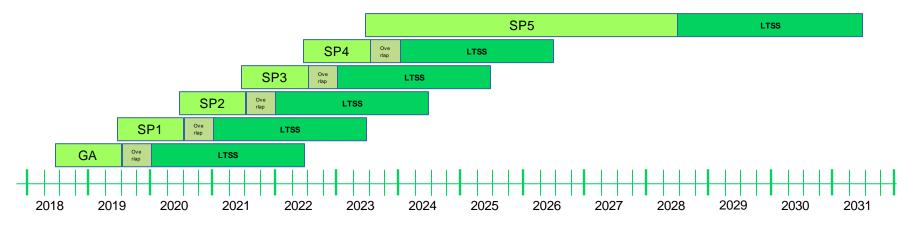
- Bugfixes and maintenance updates
- Improvements for existing features
- Feature parity with recent SUSE Linux Enterprise Release
- Selected features

#### Tock - even versions

- All from Tick-Release
- Kernel version bump
- Stack upgrade



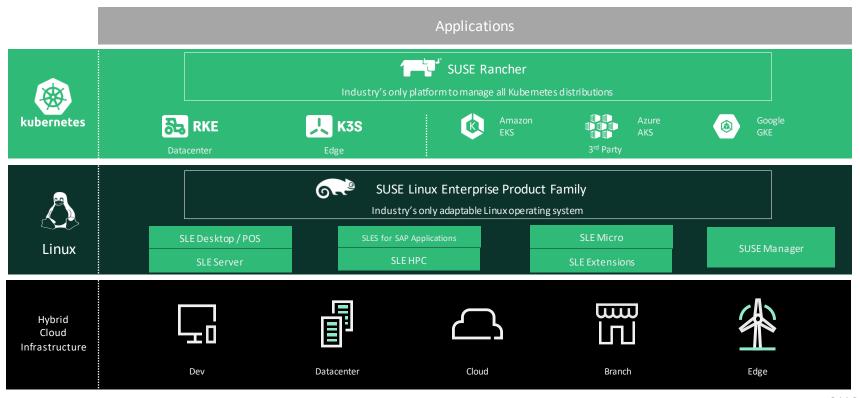
# Lifecycle



- 13 years total lifecycle
- Updates to next service pack (n+1)
- Service Pack Overlap Support: 6 months
- Long Term Service Pack Support: up to 3 years after generic end of support
- SP6 under evaluation at time of SP5 decision

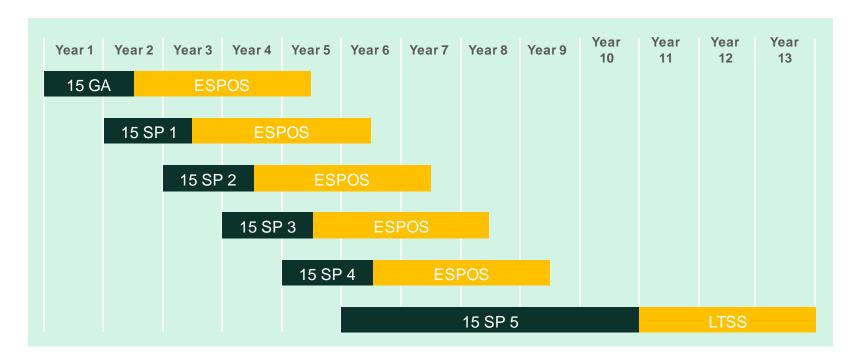


### Open, Interoperable Approach to Hybrid Cloud Infrastructure





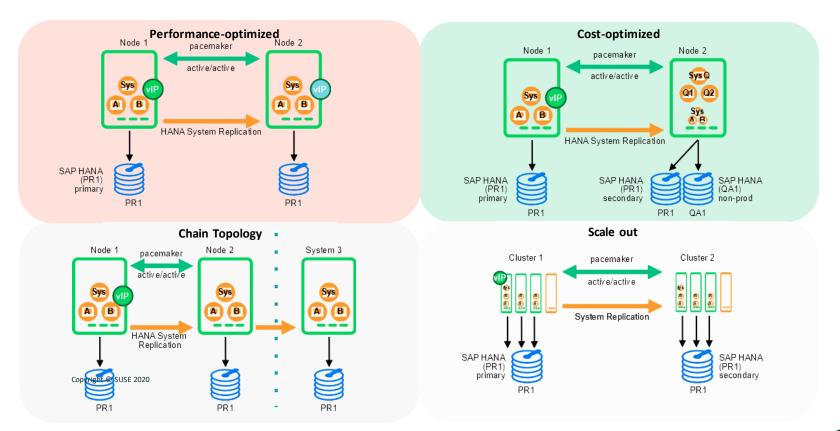
## A long lifecycle balances innovation and stability<sup>1</sup>



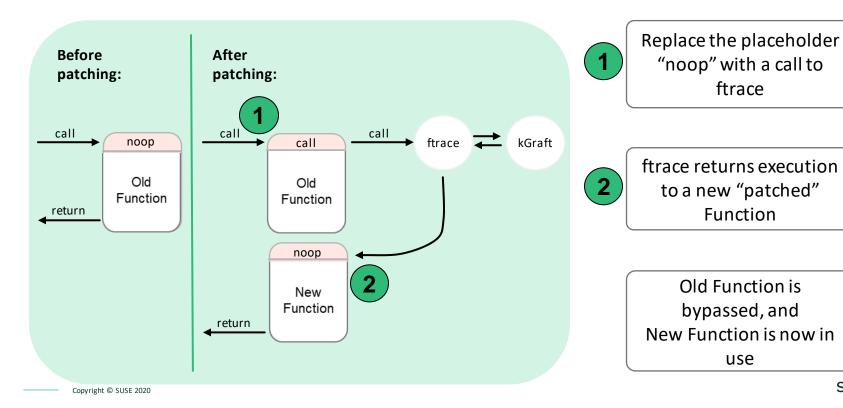
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<sup>&</sup>lt;sup>1</sup>Available for all SUSE Linux Enterprise Server for SAP Applications 12 and 15 service packs. See <a href="https://www.suse.com/lifecycle">www.suse.com/lifecycle</a> for specific release and end of support dates.

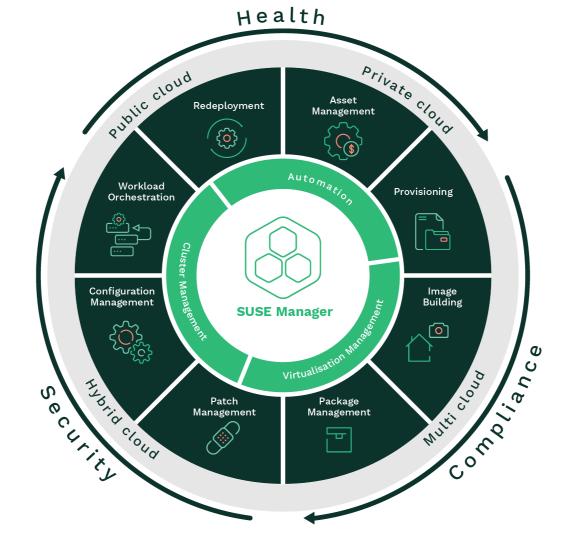
#### Automate SAP HANA System Replication to recover faster

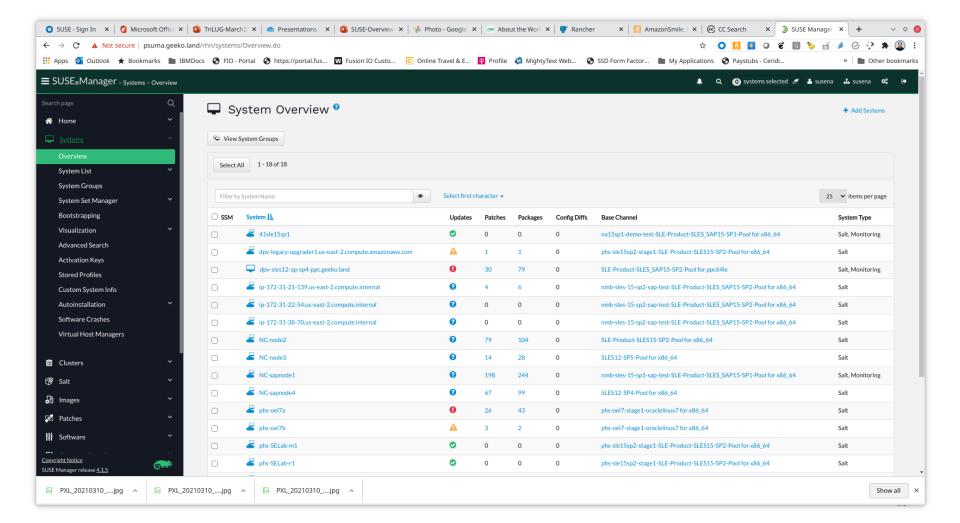


# How does live kernel patching work?



SUSE

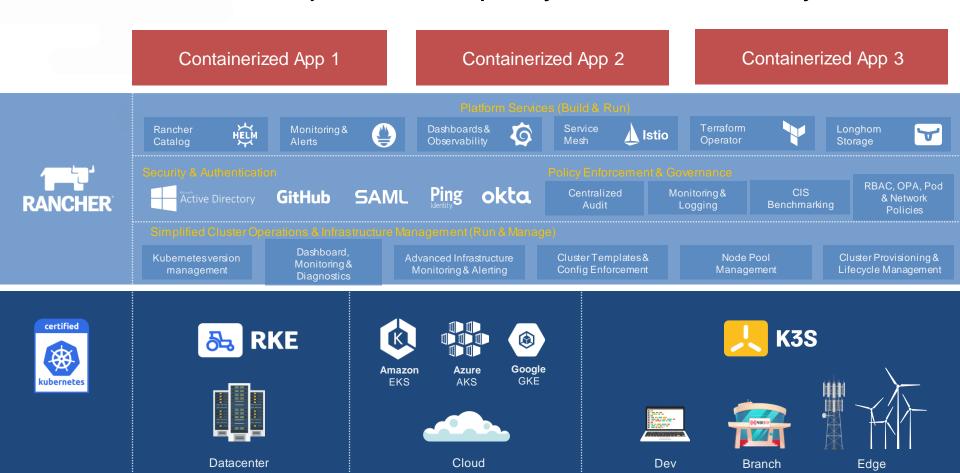




# Brief Intro into Rancher



### Rancher enables production quality Kubernetes everywhere





# Resources

https://www.suse.com/c/how-suse-builds-its-enterprise-linux-distribution-part-5/

https://www.datacenterknowledge.com/open-source/opensuse-leap-ready-be-new-centos

https://www.suse.com/c/how-suse-builds-its-enterprise-linux-distribution-part-1/

https://www.opensuse.org/

https://rancher.com/

https://suse.com/lifecycle/



# Thank you

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