



AlmaLinux in brief

benny Vasquez
Chair, AlmaLinux OS Foundation
SFSCon 2024

What is AlmaLinux OS?

Pre-CentOS Stream (2004 - 2019)

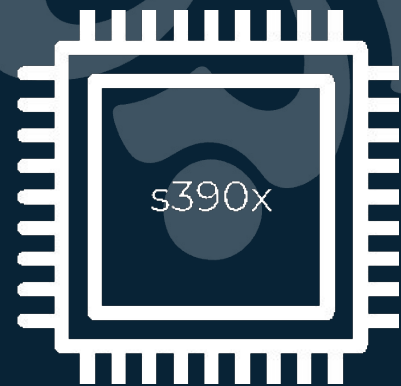
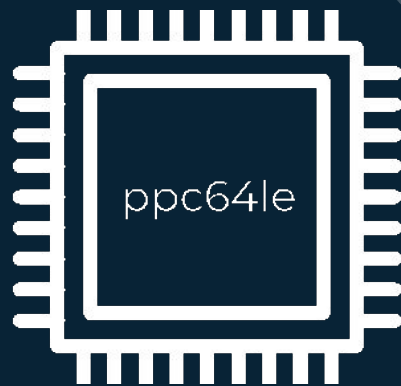
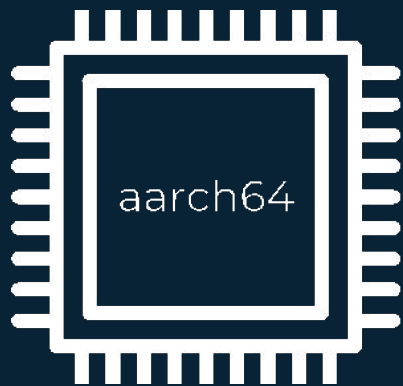
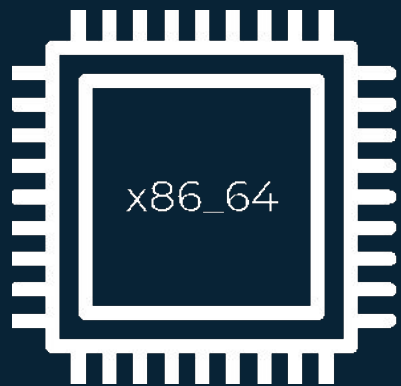


After June 2023



original by @carlwgeorge@fosstodon.org; adapted for AlmaLinux

Supported Architectures




 **OtisSnerd** · 21d ago

I'm running a self-hosted personal website used to host family photos, a couple of which are from the late 1800s. I have over 19k scanned slides and prints, and many documents from my dad's WW2 records, plus stuff from the shipyard that he and I used to work for. I also have my in laws decades of slides, plus family friends of theirs (who belonged to the same church we did) and also more family photos from two cousins. This helps with doing family history in Ancestry.

I started this over 19 years ago, with NT4, Fedora 2?, then CentOS 4, 5, 7. I use jAlbum to build the interface, using Apache for the web server.

I rebuilt the server with all 'new' hardware (Intel version 8xxx family from FleaBay) just last year.

 6   Reply  Share ...

 **Adrien Linuxtricks** 
@_adriend_

Oh @AlmaLinux dans le métro / RER Parisien !

[Translate post](#)

 **nimbus** @nimbus444 · 7h

Une nouvelle signalisation est en cours de mise en place à #Châtelet
Et ça tourne sous #gnome
@_adriend_ avec le logo tu arriverais à identifier la distribution ?



 **abgardn2** · 2mo ago

I'm a researcher (graduate student) in experimental nuclear physics and the collaboration I'm a part of is transitioning to AlmaLinux 9 (from CentOS 7) for our primary research environment. We use it to build and run software for many purposes but mostly statistical data analysis and Monte Carlo simulation related to hadron photoproduction physics at Thomas Jefferson National Accelerator Facility.

  3   Reply  Award  Share ...

 **abotelho-cbn** · 21d ago

Thousands of VMs. A few dozen gateways/routers. Over a hundred hypervisor nodes.

 4   Reply  Share ...

 **fransschreuder** · 20d ago

I work for a large project at CERN / ATLAS, where we use Alma 9 for everything now. So it is driver and software development, but also production.

  9   Reply  Share ...

 **gorestas** · 12d ago

micromegas or the pixel sensor?

  1   Reply  Share ...

 fransschreuder · 11d ago

FELIX, the readout system for both of them and basically the whole ATLAS detector

 1   Reply  Share ...

 Dizzybro · 20d ago

Slowly migrating everything from CentOS7 to Alma9.

Once done it will be roughly 200-300 machines

 5   Reply  Share ...



Invayder · 2mo ago

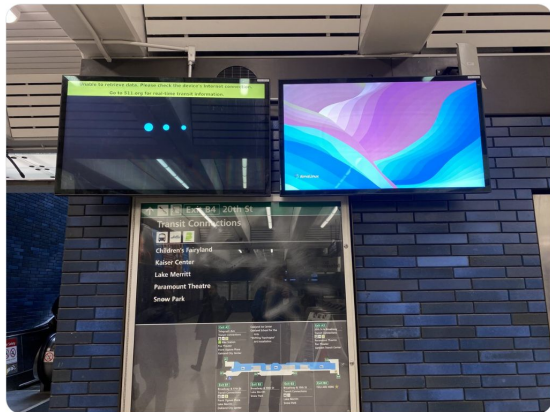
I use it for Emby with a Software RAID 5 configuration.

↑ 2 ↓ Reply Award Share ...



benarent
@benarent

BART runs on AlmaLinux



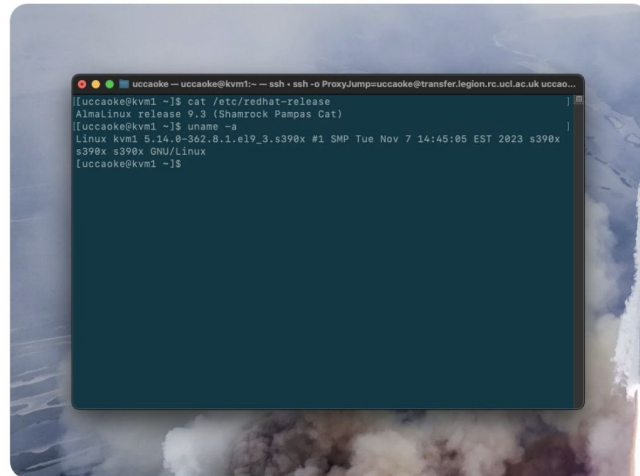
5:44 PM · Mar 1, 2024 · 1,512 Views

1 8 24



Dr Owain Kenway
@owainkenway

Thanks to my amazing team and help from @IBM, we are now live - yes, we have @AlmaLinux 9.3 for #LinuxOne running on Vindicator:



11:26 AM · Mar 15, 2024 · 721 Views



jsgrl · 2mo ago

i use it for routing, firewalls, dns servers, openvpn server and clients, podman, virtual machines, nagios, bareos, paperless and nextcloud.

↑ 2 ↓ Reply Award Share ...



Used on 6 of the top 500 HPC clusters

Rank	Name	Computer	Site
212	Alex	MEGWARE NF5488A5, AMD EPYC 7713 64C 2GHz, NVIDIA A100 SXM4 80 GB, Infiniband HDR	Universitaet Erlangen - Regionales Rechenzentrum Erlangen
242	Fritz	Megware D50TNP, Xeon Platinum 8360Y 36C 2.4GHz, InfiniBand HDR100	Universitaet Erlangen - Regionales Rechenzentrum Erlangen
455	VSC-5	MEGWARE SLIDESX, AMD EPYC 7713 64C 2GHz, Infiniband HDR	Vienna Scientific Cluster
500	HSUper	Megware D50TNP, Xeon Platinum 8360Y 36C 2.4GHz, InfiniBand HDR100	Helmut-Schmidt-Universität/Universität der Bundeswehr Hamburg
482	Marvin (Scalable GPU Partition)	MEGWARE GPU Server System, AMD EPYC 7713 64C 2GHz, NVIDIA A100 SXM4 80 GB, Infiniband NDR200	University of Bonn
80	Lem	PowerEdge XE9640, Intel Xeon Platinum 8462Y+ 32C 2.8GHz, Nvidia H100 94Gb SXM5, Infiniband NDR200	Wroclaw Centre for Networking and Supercomputing

Get AlmaLinux OS

Intel/AMD (x86_64)

ARM64 (AArch64)

IBM Z (s390x)

Power LE (ppc64le)



Live media, ISOs, container, and cloud images with LXC/LXD and Windows Subsystem for Linux (WSL) support

Who is AlmaLinux?

The AlmaLinux OS Foundation

- Founded in March 2021
- 501(c)(6) Non-profit organization
- Opened memberships in Oct 2021
- 400+ members
 - Individual members: Free membership to individuals
 - Sponsor members
 - Tiered Sponsors - tiers based on contribution
 - Mirror Sponsors - free with contributed mirror

The AlmaLinux OS Foundation Board



benny Vasquez
Chair
AlmaLinux OS Foundation



Simon Phipps
open source advocate and
former president of the OSI



Alex Iribarren
Penguin Wrangler
CERN



Jun Yoshida
Corporate Officer
Cybertrust Japan



Jack Aboutboul
Linux Program Manager
Microsoft, Inc



Daniel Pearson
CEO
KnownHost



Moshe Bar
CEO
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Jesse Asklund
Global head of Customer Ex.
WebPros

AlmaLinux Engineering Steering Committee



Jonathan Wright
AlmaLinux Evangelist
CloudLinux



Andrew Lukoshko
AlmaLinux Lead Architect
CloudLinux



Elkhan Mammadli
Cloud Engineer
CloudLinux



Cody Robertson
CTO
Hawk Host

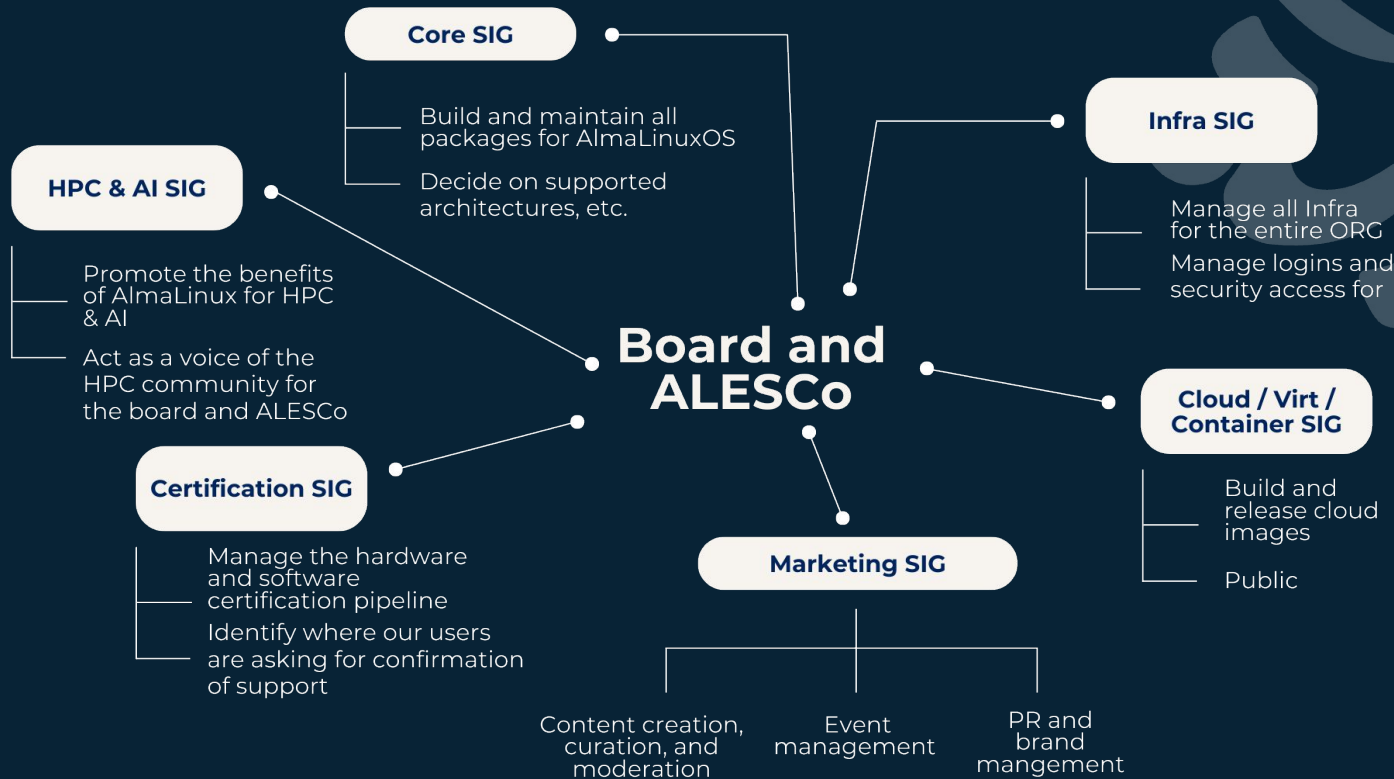


Ben Thomas
Principal Research Infra Dev
UCL



Neal Gompa
Principal Consultant
Velocity Limitless

AlmaLinux Special Interest Groups (SIGs)

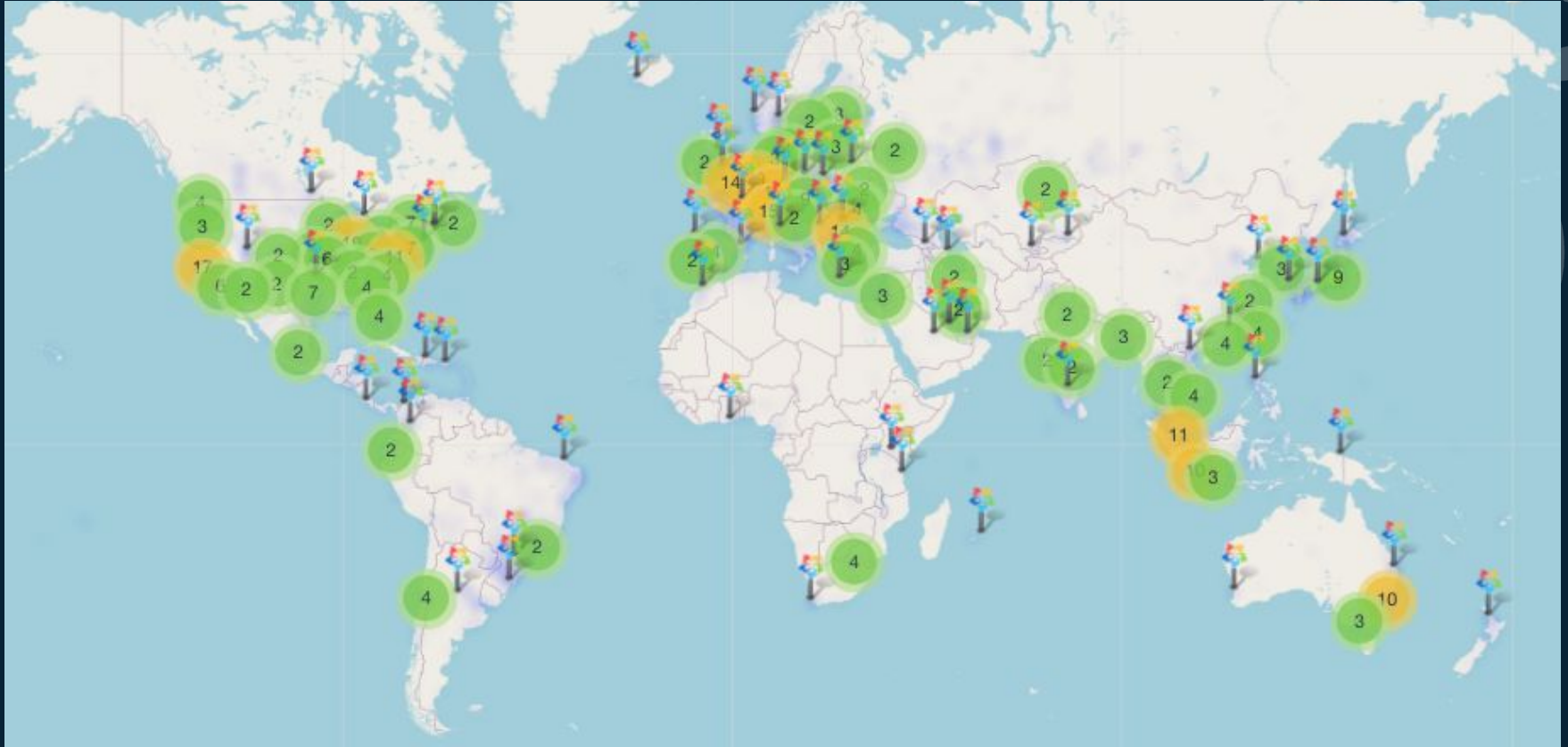


2024 Sponsor members

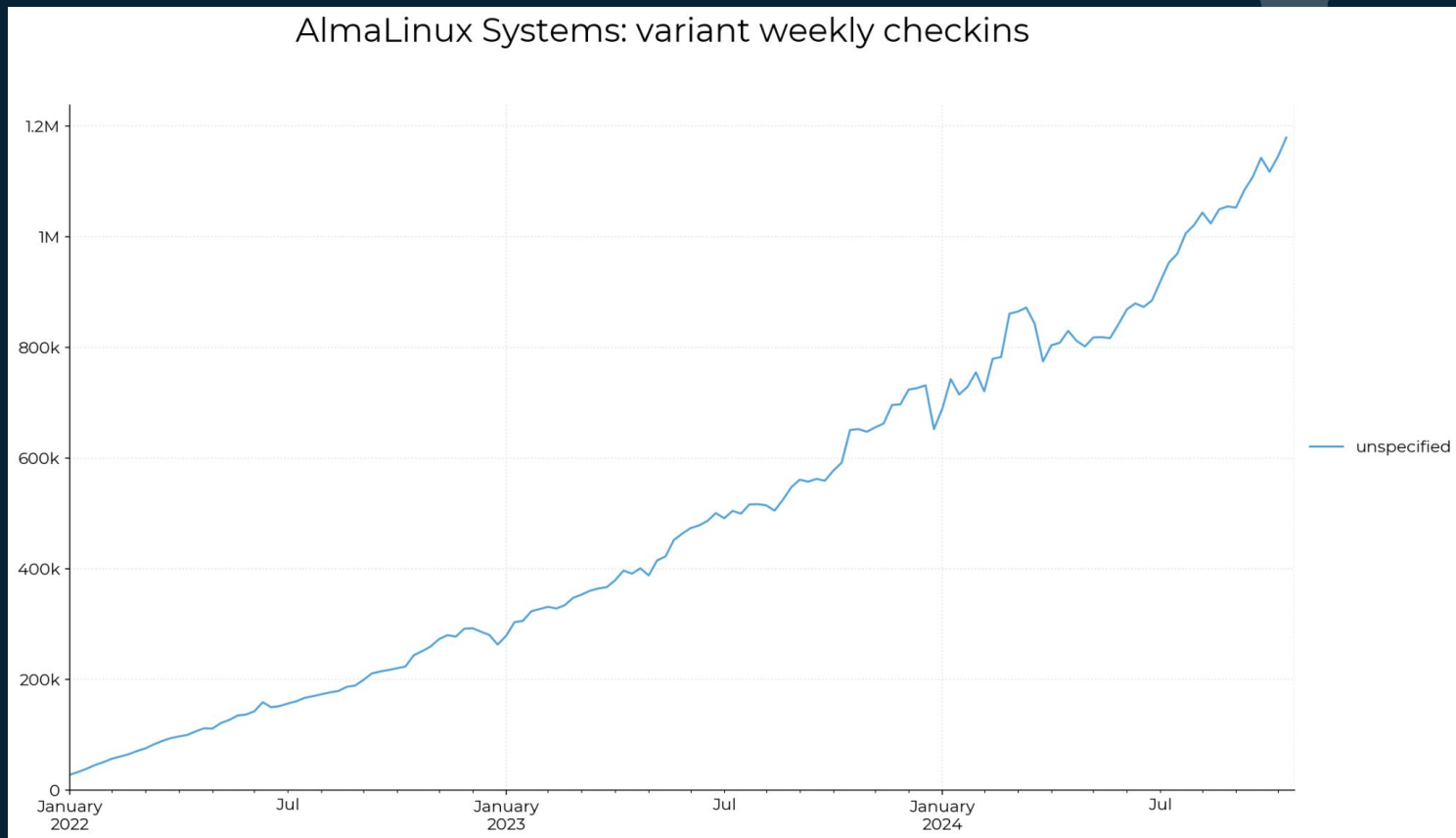
Backed by



Mirror network



User Community





What does AlmaLinux do?

No drama,
just Linux.

RHEL compatibility = freedom for AlmaLinux

- Patching security flaws faster than upstream and RHEL
 - nf_tables
 - <https://almalinux.org/blog/2024-04-02-xz-and-cve-2024-1086>
 - RegreSSHion
 - <https://almalinux.org/blog/2024-07-01-almalinux-9-cve-2024-6387/>
- Releasing bug fixes faster than upstream and RHEL
 - glibc regression causing Houdini to crash
 - <https://almalinux.org/blog/2024-07-25-testing-glibc-needed/>
- Enabling hardware support removed in RHEL and derivatives
 - <https://almalinux.org/blog/2024-04-15-announcing-94-beta/>
- Adding additional packages
 - <https://almalinux.org/blog/new-repositories-for-almalinux-os-synergy-and-testing/>

RHEL compatibility = freedom for AlmaLinux

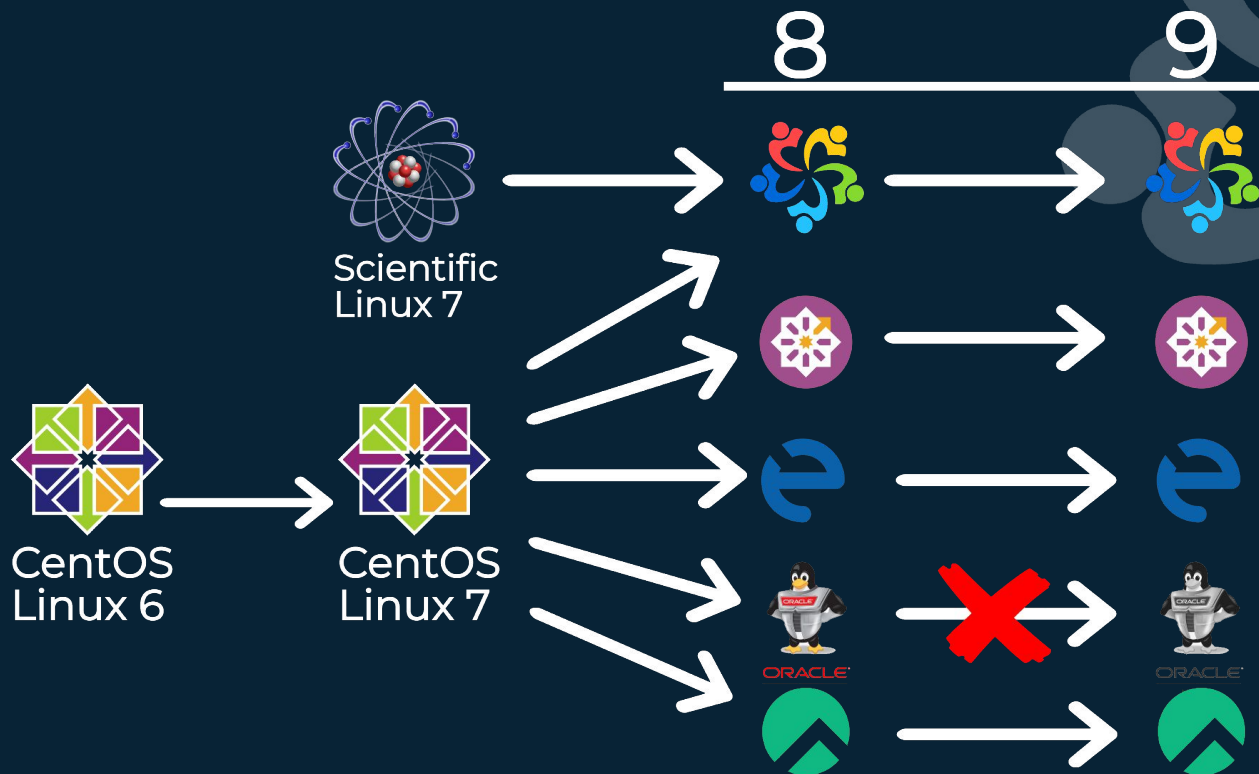
Maintain consistency when RHEL releases similar patches

- Glibc, for example:
 - Our patch from Jul 24, 24
 - <https://git.almalinux.org/rpms/glibc/commit/2c2f1b6964cbe9cf9b15fdb688ab42549f58f20f>
 - Updating our patch to match RHEL after their release on Aug 25
 - <https://git.almalinux.org/rpms/glibc/commit/cbae14e61e2cba3c9281f010d092a738d5da697e>

Only non-Red Hat-duplicate packages:

- Enabling hardware support that RHEL dropped
 - <https://almalinux.org/blog/2024-04-15-announcing-94-beta/>
- Re-branded packages
 - <https://wiki.almalinux.org/development/Modified-packages.html>

Project ELevate



Project ELevate



Giordon Stark 5:02 PM

rebooting, and will do the remove/cleanup and i think it's all done

```
$ sudo dnf remove '*.el8*'
All matches were filtered out by exclude filtering for argument: *.el8*
No packages marked for removal.
Dependencies resolved.
Nothing to do.
Complete!
```

doesn't seem to remove those.

had to edit `/etc/yum.conf`.

but that's it! thanks for holding my hand through this 😊

from 2009 -> 2024.



The AlmaLinux Build System (ALBS)

- Fully built for AlmaLinux
- Provides Errata for AlmaLinux users
- Includes SBOM support
- Fully open source
- Soon: users can build packages



But wait... ONE MORE
THING



```
alukoshko@almalinux10-qa:~$ cat /etc/os-release
NAME="AlmaLinux Kitten"
VERSION="10 (Lion Cub)"
ID="almalinux"
ID_LIKE="rhel centos fedora"
VERSION_ID="10"
PLATFORM_ID="platform:el10"
PRETTY_NAME="AlmaLinux Kitten 10 (Lion Cub)"
ANSI_COLOR="0;34"
LOGO="fedora-logo-icon"
CPE_NAME="cpe:/o:almalinux:almalinux:10::baseos"
HOME_URL="https://almalinux.org/"
DOCUMENTATION_URL="https://wiki.almalinux.org/"
VENDOR_NAME="AlmaLinux"
VENDOR_URL="https://almalinux.org/"
BUG_REPORT_URL="https://bugs.almalinux.org/"

ALMALINUX_MANTISBT_PROJECT="AlmaLinux-10"
ALMALINUX_MANTISBT_PROJECT_VERSION="10"
REDHAT_SUPPORT_PRODUCT="AlmaLinux"
REDHAT_SUPPORT_PRODUCT_VERSION="10"
alukoshko@almalinux10-qa:~$
```

Settings

- Appearance
- Apps
- Notifications
- Search
- Online Accounts
- Mouse & Touchpad
- Keyboard
- Color
- Printers
- Accessibility
- Privacy & Security
- System

About



Device Name
almalinux10.qa

Operating System
AlmaLinux Kitten 10 (Lion Cub)

Hardware Model
VMware, Inc. VMware20,1

Processor

Memory
7.4 GiB

Disk Capacity
Unknown

System Details >

AlmaLinux OS Kitten 10 - the why's

- The upstream for AlmaLinux 10
 - Based on CentOS Stream 10
- Gives OS'es based on us, and software that wants to support us, a place to start testing
- Gives us a place to build from
- Gets us ahead of the curve for AlmaLinux OS 10

AlmaLinux OS Kitten 10 - the what's

- Re-enabling Frame Pointers
 - Secure Boot
 - SPICE
 - KVM for IBM POWER
 - Continuing our extended hardware support
- AND
- additional build using x86-64-v2



How to help!

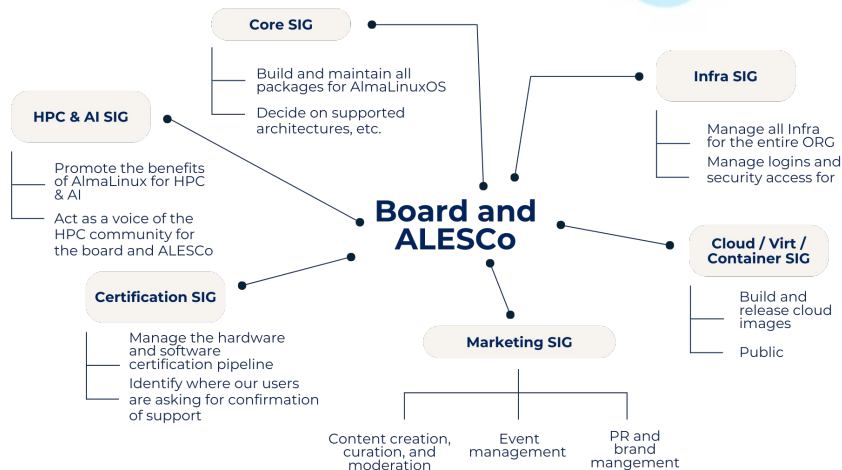
How to help!

Anyone

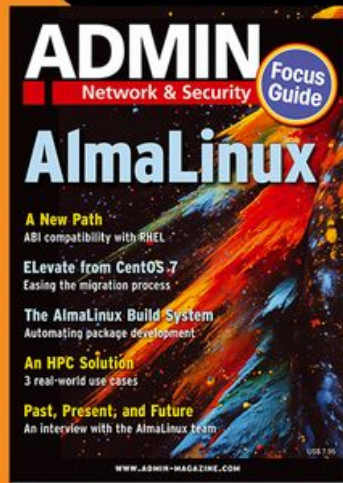
- Engineering or admins
 - Join a SIG!
 - Answer questions in chat or forums
 - lnx.rocks/forumhelp
 - Write guest posts about something cool you've done!
 - [Contributing to Translations](#)
 - [Using AlmaLinux at UCSB](#)
- Help with testing!
 - Running enterprise linux?
- Marketing
 - Website updates and content writing
 - Graphic design help!
- Translations
 - Weblate makes it easy
 - More than 80% done in 9 languages!

Companies

- Talk about the open source you rely on, publicly and often
- Provide time to employees for volunteering in open source
- Join as a member (send money!)



Linux New Media Admin Guide!

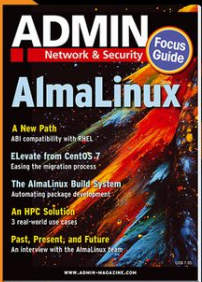


Free Focus Guide

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to the forever-free
AlmaLinux OS.

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now!**

Thank you!



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<https://mailchi.mp/admin-magazine.com/focusguide-almalinux>



hi, I'm benny
social.linux.pizza/@benny
@bennyvasquez
benny@almalinux.org



Places to find us:

-  chat.almalinux.org
-  x.com/almalinux
-  reddit.com/r/almalinux
-  lists.almalinux.org
-  almalinux.discourse.group
-  github.com/AlmaLinux
-  hub.docker.com/_/almalinux
-  almalinux.org