## Is This the End of CentOS?

Linux Options for Production Service Providers



## Speakers

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## What's the "Big Announcement?"



#### CentOS Linux to be replaced with **CentOS Stream**

December 8, 2020:

Red Hat (IBM Company) announced the end of CentOS Linux

...but continued support for CentOS Stream

"CentOS Stream now sits between the Fedora Project's operating system innovation and RHEL's production stability."















#### CentOS Stream: Building an innovative future for enterprise Linux

December 8, 2020 Chris Wright

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Tags: Community, Infrastructure, Platform

In September 2019, we announced CentOS Stream, an upstream development platform designed for CentOS community members, Red Hat partners, ecosystem developers, and many other groups to more quickly and easily see what's coming next in Red Hat Enterprise Linux (RHEL) and to help shape the product. Since its introduction, we've seen great enthusiasm from partners and contributors around CentOS Stream and the continuous stream of innovation that the project provides. Given this, we've informed the CentOS Project Governing Board that we are shifting our investment fully from CentOS Linux to CentOS Stream.

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66 "Intel has a long history of supporting the Linux ecosystem by driving open source innovation

#### CentOS Announces the change

CentOS organization also announced the end of CentOS Linux

CentOS 8 will receive updates until end of 2021

CentOS 7 will receive updates through 2024



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/ FAQ - CentOS Project shifts focus to CentOS Stream

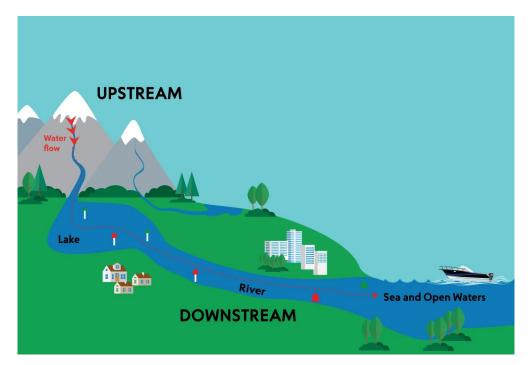
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- Question 1: What is the future of CentOS?
- Q2: What about the other releases of CentOS Linux?
- Q3: Will the source code for Red Hat Enterprise Linux

The future of the CentOS Project is CentOS Stream, and over the next year we'll be shifting focus from CentOS Linux, the rebuild of Red Hat Enterprise Linux (RHEL), to CentOS Stream, which tracks just ahead of a current RHEL release. CentOS Linux 8, as a rebuild of RHEL 8, will end at the end of 2021. CentOS Stream continues after that date, serving as the upstream (development) branch of Red Hat Enterprise Linux. Read the rest of our announcement.



#### Upstream / Downstream

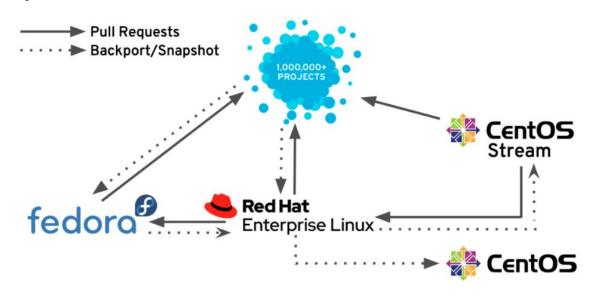




### CentOS Stream "upstream" to RHEL

CentOS Stream is a pre-release, less-tested version upstream to RHEL

CentOS Linux was downstream from RHEL - after testing completed





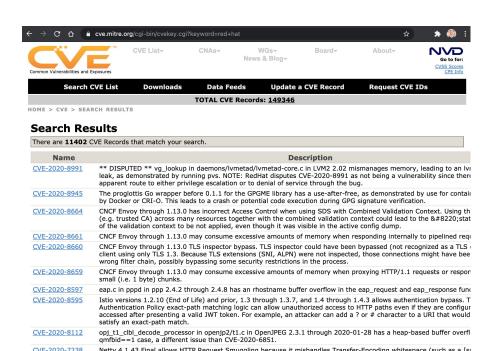
# What are "updates" and why do they matter?



### Linux Updates: Critical for Security

- Linux releases like "CentOS 7.1" or "Red Hat Enterprise Linux 8.2" have a fixed set of features
- Routine software updates largely resolve security issues and substantial software defects
- Security issues are sometimes called CVEs because of <u>"Common</u> <u>Vulnerabilities and Exposures"</u>
- <u>Funded by US Government (DHS</u> CISA)



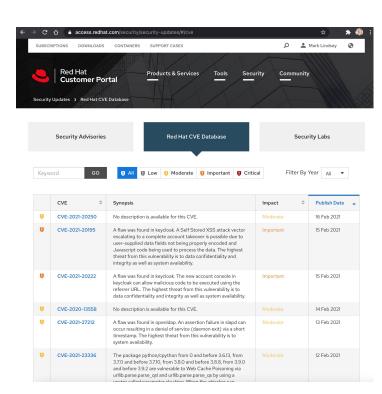


#### Vulnerabilities are patched to produce updates

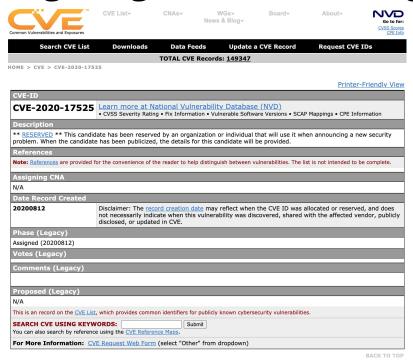
Red Hat tracks the vulnerabilities and integrates in patches.

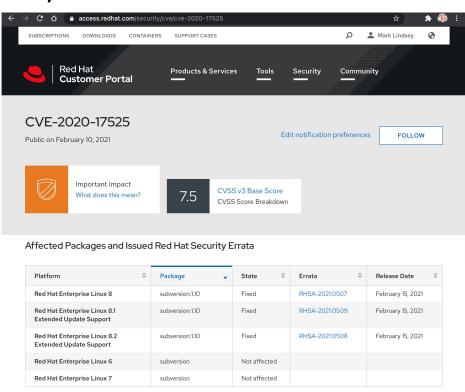
Red Hat calls these "errata"

Subscribers get access to the errata and can easily update their platforms.



#### E.g. Bug discovered Aug 12, fix released Feb 15







## What is the industry response?



"In any case, it's very clear that Red Hat doesn't see CentOS Stream as a production server. As a server for RHEL customers to use to see what the next version of RHEL will bring to them, yes, but for day-to-day work? No"

"Red Hat will continue to support CentOS 7 and produce it through the remainder of the RHEL 7 life cycle. ...CentOS 7, you'll see support through June 30, 2024. ..may also offer extended life cycle support for RHEL and CentOS 7"

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## Red Hat resets CentOS Linux and users are angry

CentOS is becoming a rolling Linux distribution, which leaves businesses depending on CentOS for a stable server or embedded operating system in the lurch.













By Steven J. Vaughan-Nichols for Linux and Open Source | December 9, 2020 -- 14:47 GMT (06:47 PST) | Topic: Enterprise Software

Red Hat, CentOS's Linux parent company, announced it was "shifting focus from CentOS Linux, the rebuild of Red Hat Enterprise Linux (RHEL), to CentOS Stream, which tracks just ahead of a current RHEL release." In other words, CentOS will no longer be a stable point distribution but a rolling release Linux distribution. CentOS users are ticked off

Why? First, you need to understand what's going on. A rolling-release Linux is one that's constantly being updated. Examples of these



Linux and open-source jobs are hotter than ever

Red Hat tunes up RHFL and



MORE FROM STEVEN J. VAUGHAN-NICHOLS



#### "They've betrayed us." - Hacker News

"Imagine if you were running a business, and deployed CentOS 8 based on the 10-year lifespan promise. You're totally screwed now, and Red Hat knows it. Why on earth didn't they make this switch starting with CentOS 9???? Let's not sugar coat this. They've betrayed us."







news.vcombinator.com/item?id=25345428









▲ CentOS Project shifts focus to CentOS Stream (centos.org)

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▲ dang 71 days ago [-]

There are multiple pages of comments, accessible via the 'More' link at the bottom of the page, or click here:

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▲ awill 71 days ago [-]

This is awful. It's proof of the downsides to the IBM acquisition, which I think we all knew was coming. Imagine if you were running a business, and deployed CentOS 8 based on the 10 year lifespan promise. You're totally screwed now, and Red Hat knows it. Why on earth didn't they make this switch starting with CentOS 9???? Let's not sugar coat this. They've betrayed their users.

I personally run a CentOS 7 server (as do members of my family), and was planning on upgrading them all to 8. Luckily, I didn't get round to it yet. I guess I'll have to consider an alternative. For my server I want a boring, stable OS, so I'm definitely not using Streams. This is going to ripple throughout the whole industry, as CentOS is used all over the place, from regular home users to businesses (and things like CloudLinux).

It's very disappointing that Red Hat can't see the damage they'll do not only to the community, but to themselves too. Someone will come along and take the CentOS user base, and it won't be Red Hat :(.

▲ Jimmc414 71 days ago [-]

>> Imagine if you were running a business, and deployed CentOS 8 based on the 10 year lifespan promise. You're totally screwed now, and Red Hat knows it.

The hypothetical you posed is the actual situation, I am now learning, I have apparently forced on my team. We've ramped up labor 3x revenue preparing product launch in 90 - 180 days. We created an image containing centos 8, Java, postgres and tomcat a year ago and that what is deployed to beta clients and what we've been testing.

What's ironic is that I sort of went out on a limb with my team by forcing us to go with Linux over Windows and the way I allayed concerns was to ask them to just "wait and see" in hopes that the performance differential would make it a moot point.

edit: after a little thought it seems that moving to RHEL might cost us the least amount of money and downtime. Still sucks and not what we need to be working on right now.

▲ kseifried 71 days ago [-]

What I don't get is this:

You build software, you ship it on an OS so it works, cool, this makes sense (I assume you need hardware and VM support, not just VM).

Why would you accept additional risk on the OS if you can easily reduce the risk, and ultimate cost, by going with an OS that has vendor support written into the actual contract? RHEL is 11-13 years total, Windows is... I'm quessing my grandkids will be using some form of Windows 10. CentOS is, and always was a community "best effort", with some serious delays occasionally (not often, but it happened).

A RHEL server license starts at \$349, I have to assume that's at least an order of magnitude (or two or three) less than the cost of your software based on the technologies involved (sounds enterprise-solutiony). In other words a rounding error overall.

▲ hib100 70 days ago [-]

As a sysadmin in academia, this is not so straightforward. Since number of servers/VMs are in ballpark of over one hundred. RedHat license costs will be over 30,000\$/year. This is not insignificant amount of money and not easy to get the money suddenly

## What options do operators have?



#### RHEL free for up to 16 production servers

"We're addressing this by expanding the terms of the Red Hat Developer program so that the Individual Developer subscription for RHEL can be used in production for up to 16 systems. That's exactly what it sounds like: for small production use cases, this is no-cost, self-supported RHEL."



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#### New Year, new Red Hat Enterprise Linux programs: Easier ways to access RHEL

January 20, 2021

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Tags: Community, DevOps, Infrastructure, Partners, Platform

This post highlights new, simplified and low-/no-cost options for deploying RHEL. These are the first of many new programs. To immediately go to the program that interests you:

- No-cost RHEL for small production workloads
- No-cost RHEL for customer development teams

On December 8, 2020, Red Hat announced a major change to the enterprise Linux ecosystem: Red Hat will begin shifting our work from CentOS Linux to CentOS Stream on December 31, 2021. We and the CentOS Project governing board believe that CentOS Stream represents the best way to further drive Linux innovation. It will give everyone in the broader ecosystem community, including open source developers, hardware and software creators, individual contributors, and systems administrators, a closer connection to the development of the world's loading ontorprice Linux platform









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# ZDNet lists alternatives

- 1. CentOS Stream (😾 🔪)
- 2. Oracle Linux (\$ ||||)
- 3. Cloud Linux (\$ 👻)
- 4. Springdale Linux (😺 🏥)
- 5. Rocky Linux (😺 👻)



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## Where do I go now that CentOS Linux is gone? Check our list

CentOS was the most famous "RHEL rebuild" by far—but there are others.

JIM SALTER - 12/11/2020, 3:10 PM



Enlarge



In an unexpected announcement earlier this week, Red Hat killed off the free-as-in-beer CentOS variant of its flagship distribution, Red Hat Enterprise Linux.







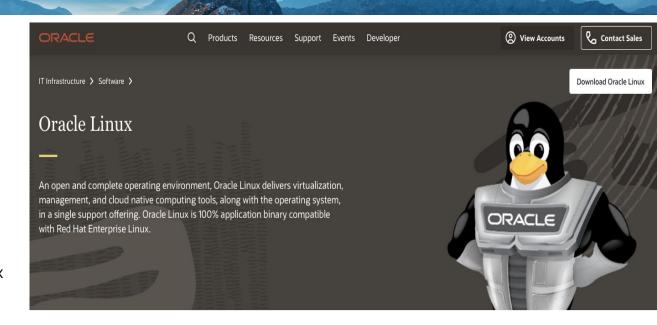
The announcement—which clearly stated "CentOS Stream is not a replacement for CentOS Linux"—left thousands of CentOS users stunned and bewildered. In many cases, CentOS users had migrated to CentOS 8—which they expected to receive support until 2029—only to find out that their "until-2029" distro had become an "until-2021" distro just a few months after they'd installed it in the first place.



# Oracle Linux free to use with optional support

"We're putting Oracle Linux in your hands by doing two things:

- We've made the Oracle Linux software available free of charge
- We've created a simple script to switch your CentOS systems to Oracle Linux"



#### Need a stable, RHEL-compatible alternative to CentOS?

Learn more

Since 2006, Oracle Linux has been completely free to download and use. Free source code, binaries, and updates. Freely redistributable. Free for production use.

#### ISV Catalog—Your guide to the Oracle Linux ecosystem

Search the catalog to find information about independent software vendors (ISVs) who are certified to run on Oracle Linux and Virtualization. Applications certified on Oracle Linux run wherever Linux runs—on-premises, in Oracle Cloud Infrastructure, and in other clouds.

#### **IDC** recommendations

Read the brief (PDF)

Read this technical brief from IDC for recommendations on selecting the right commercial operating system to simplify your digital transformation.

View the catalog



### Other top (non-RHEL-based) server distributions

- 1. Ubuntu
- 2. Debian
- 3. openSUSE



# What are the key considerations? (So what?)



## End of updates is coming

After 2024, CentOS 7 won't get security updates

- This means a major vulnerability discovered in January 2025 will not be patched
- 3 years is a short lifespan for a Virtual Machine!

After 2021, CentOS 8 won't get updates

## Budgeting

- If you were using CentOS, you weren't paying anybody for updates
- You may need to plan to pay a vendor to keep access to updates
  - Red Hat >= \$349 per server (VM) and up
  - Oracle >= \$1200 per physical server
- Easy and proven option: Move to RHEL
  - No substantial migration complexity
  - Red Hat has a deep skill level and can do a great job of support on complex issues (e.g., custom kernel patch to fix a bug in a driver)



#### Migration / retraining?

- If you're switching to another distribution, the system management can vary substantially
- Especially important if you're using automation tools
  - Ansible
  - Puppet
  - Chef

#### Continue the Conversation

Mark R Lindsey, mark@ecg.co, +1-229-316-0013 Schedule a chat: <a href="https://ecg.co/lindsey/meeting">https://ecg.co/lindsey/meeting</a>

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