CentOS project announcement

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Principal Solutions Architect
Red Hat and CentOS
History
Fedora Model
Red Hat Linux splits into Fedora and RHEL to balance innovation and stability and establish Red Hat’s business model.

CentOS Model
CentOS enabled as a foundation for Origin, OKD, RDO and Wildfly, balancing business needs with innovation on top of RHEL.

Stream Model
Balance faster development with easier contributions by aligning all the communities into a mutually reinforcing ecosystem.
Code that is developed upstream of us gets pulled into Fedora first

Linux Kernel  →  Fedora  →  Red Hat Enterprise Linux  →  CentOS Linux

**Fedora**
- **Audience:** Developers
- **Focus:** OS innovation, architecture changes
- **Pace:** Fast moving: major release every 6 months

**Red Hat Enterprise Linux**
- **Audience:** Enterprises, Application development partners
- **Focus:** Stability, security, and performance
- **Pace:** Predictable release cadence

**CentOS Linux**
- **Audience:** Cost-sensitive users, Ecosystem developers
- **Focus:** No cost and easy to acquire
- **Pace:** Released several months after Red Hat Enterprise Linux
Every three years, we fork Fedora’s code and make it into RHEL

Fedora
Community space
- Audience: Developers
- Focus: OS innovation, architecture changes
- Pace: Fast moving: major release every 6 months

Red Hat Enterprise Linux
Private space
- Audience: Enterprises
  Application development partners
- Focus: Stability, security, and performance
- Pace: Predictable release cadence

CentOS Linux
Partner, Upstream, Community
- Audience: Cost-sensitive users
  Ecosystem developers
- Focus: No cost and easy to acquire
- Pace: Released several months after Red Hat Enterprise Linux
After we build RHEL, the same source gets rebuilt as CentOS Linux.
Enterprise Linux Ecosystem (Circa 2014)

Linux Kernel

Fedora

Red Hat Enterprise Linux

CentOS Linux

Community space

Private space

Partner, Upstream, Community

Audience: Developers
Focus: OS innovation, architecture changes
Pace: Fast moving: major release every 6 months

Audience: Enterprises
Focus: Stability, security, and performance
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CentOS Stream

**What is it?**

2019: **CentOS Stream is a Linux development platform** from the CentOS Project designed to increase transparency and collaboration around the Red Hat® Enterprise Linux® development process. Open to anyone, CentOS Stream is the development stream of the next minor release of Red Hat Enterprise Linux.

It allows developers, partners, and end customers a more streamlined process for influencing Red Hat Enterprise Linux and by extension their future infrastructure or ecosystem.

**Where can you get it?**  
https://centos.org/download
What was announced
Red Hat’s investment will shift from CentOS Linux to CentOS Stream beginning December 31, 2021.

Red Hat

- We believe CentOS Stream represents the best way to further drive Linux innovation by giving customers and the broader ecosystem a closer connection to the development of Red Hat Enterprise Linux
- Positive interest in CentOS Stream since its introduction in 2019, including public statements from Facebook and Intel
- As an open source platform for development, CentOS Stream will become an innovation hub for Red Hat Enterprise Linux
- Red Hat will be offering low- and no-cost options to ease the transition from CentOS Linux
CentOS Stream is the future focus of the CentOS community

CentOS Project

- Shifting focus to a contribution model to have more influence over RHEL
- SIGs are focused on readying software for the next release of Red Hat Enterprise Linux and extending it.
- The Project recommends migrating to CentOS Stream 8 or considering Red Hat Enterprise Linux for production environments

<table>
<thead>
<tr>
<th>CentOS Linux 6</th>
<th>CentOS Stream 8</th>
<th>CentOS Stream 9</th>
<th>CentOS Linux 7</th>
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<tbody>
<tr>
<td>Ended: November 30, 2020*</td>
<td>Ends: December 31, 2021</td>
<td>Ends: May 31, 2024*</td>
<td>Ends: June 30, 2024*</td>
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- Launches: Q2 2021
- There will not be a CentOS Linux 9

* Date is based on the date in the RHEL lifecycle and is subject to change.
The Red Hat Enterprise Linux Ecosystem of Today
Enterprise Linux Ecosystem (circa 2021)

**Fedora**
- Community space
- Contributions welcomed and encouraged
- A packaged integration of upstream
- Take risks, do experiments
- An Open Source community
- Focused on more than the Enterprise

**CentOS Stream**
- Shared space
- Contributions welcomed and encouraged
- Variants are encouraged through Special Interest Groups (“SIGs”)
- Contributions curated by Red Hat
- Continuously delivers the next minor version of Red Hat Enterprise Linux
- Focused on the future of the Enterprise

**Red Hat Enterprise Linux**
- Private space
- Private until after release
- Under Embargo
- NDA and CVE work
- Accessible only via subscription
- Focused on today’s Enterprise

**Linux Kernel**
- Operating System developers
- OS innovation, architecture changes
- Fast moving, major release every 6 months

**Community and partners**
- Develop, test, contribute to next version of RHEL
- Continuous stream of new content

**RHEL customers and partners**
- Stability, security, performance
- Predictable release cadence
Red Hat Enterprise Linux Ecosystem Relationships

Fedora 28
Fedora N+1
Fedora 34
Fedora Rawhide
CentOS Stream 8
CentOS Stream 9
RHEL 8.2
RHEL 8.3
RHEL 8.2 errata
RHEL 8.3 errata
RHEL 9.0
RHEL 9.1
RHEL 9.2
RHEL 9.0 errata
RHEL 9.1 errata

Source: CentOS Stream is Continuous Delivery - Stef Watler - 11 Dec, 2020
No-Cost Developer Alternatives (more to come)

CentOS Stream
- Shared space
- Contributions welcomed and encouraged
- Variants are encouraged through Special Interest Groups (“SIGs”)
- Contributions curated by Red Hat
- Continuously delivers the next minor version of Red Hat Enterprise Linux

Red Hat Enterprise Linux
- Universal base image
- Safe, secure, and free-of-charge redistributable container base image
- Production deployment on Red Hat Enterprise Linux and across Red Hat’s open hybrid cloud portfolio
- Enables compatible container images with other operating systems

Ecosystem developers
- Develop, test, contribute to the next RHEL
- Continuous stream of new content

Developers creating cloud-native enterprise apps
- Containerized development
- Flexible based on your organizations’ development cycles

Red Hat Enterprise Linux
- Developer subscription
- Free-of-charge, self-supported subscription for individuals
- Development or test environment for applications that are meant to be deployed on Red Hat Enterprise Linux

Individual developers
- Application development on RHEL
- Predictable release cadence
Red Hat Enterprise Linux is for Production

Red Hat Enterprise Linux

- Stable, secure, and high-performing operating system
- Identify and remediate compliance and configuration risks with included Red Hat Insights
- 10+ years supported life cycle
- The hub of a large hardware and software ecosystem
- Available through developer, embedded, public clouds, and a variety of partner programs

- RHEL customers and partners
- Stability, security, performance
- Predictable release cadence
Which Platform is Right for You?

- Operating System development and desktop use cases: Fedora
- Hassle-free and secure OS for your home lab: Red Hat Developer program
  - developers.redhat.com
- Dev & CI/CD to ensure RHEL+1 compatibility: CentOS Stream
- Developing containerized applications: RHEL UBI
- Participate in RHEL development: CentOS Stream
- Running mission critical workloads: RHEL
- Developing software for resale or hardware: Red Hat Partner Connect Program
  - connect.redhat.com
Programs In Progress

- Red Hat Developer program Improvements
  - Streamlined Access, Easier Cloud Deployments
  - Small Production and Incubation Use Cases
- Open Source & Standards Projects Program
- High-Performance Computing
- Academic, National Labs, and Research Institutions
- Not-for-profit, Governments, and Non-Governmental Organizations
- Hosting Companies
- Easier Partner Evaluation Licensing
- Partner Bundling/Install Experience

If these options seem helpful, or if you do not see your use case here, please email: centos-questions@redhat.com.

This is not a sales process. We want to learn more about what you need.
Thank you

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