

The Road to EPEL 10

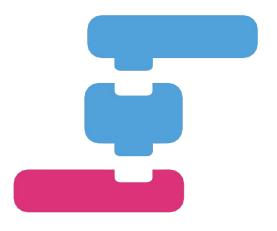
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What is EPEL?

Extra Packages for Enterprise Linux is an initiative within the Fedora Project to provide additional packages for CentOS and Red Hat Enterprise Linux (RHEL). The goal is to enhance the base distro without replacing or disturbing stock packages.

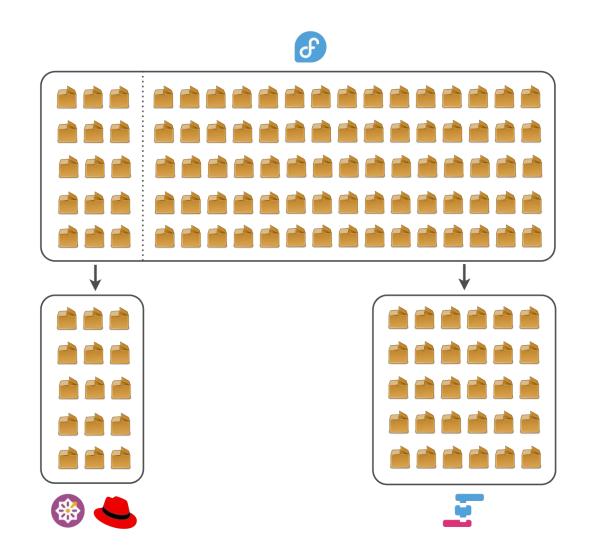






Where do the packages come from?

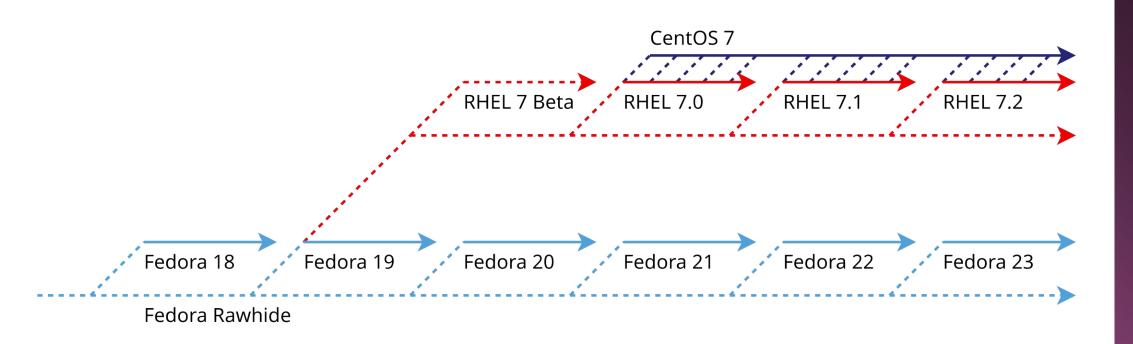
CentOS and RHEL are created from a subset of Fedora. Fedora packages that are not in that subset are eligible to be included in the EPEL repository.





Legacy relationship

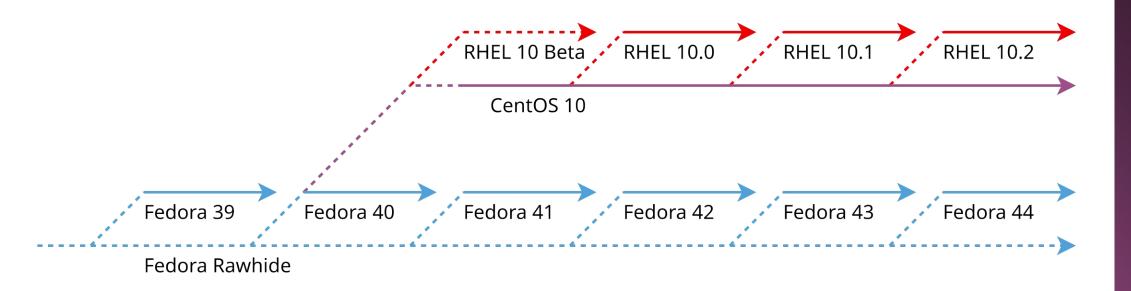






Modern relationship



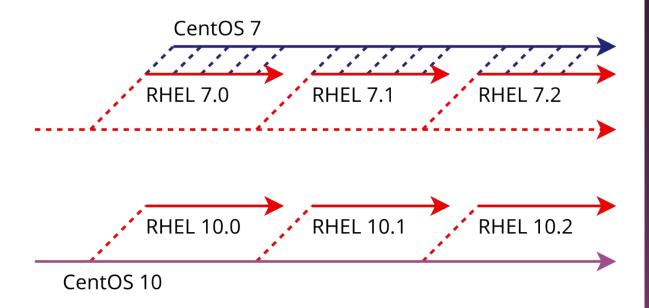


EPEL problems

Minor version problem

RHEL minor version library changes

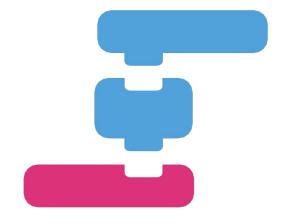
RHEL minor versions can contain library changes which requires rebuilding EPEL packages. These are now available in CentOS about three to six months before RHEL.





EPEL Next

EPEL Next allows maintainers to build select packages against CentOS, while most are still built against RHEL. It isn't a complete duplication of EPEL, just an alternate build target and repo for the small number of packages that need it.







Major version problem

RHEL major version migrations

CentOS and RHEL users often depend on packages from EPEL, and won't start deploying the next major version until those packages are available in the corresponding EPEL repository.

RHEL 7 -> RHEL 8

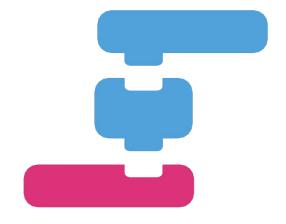
RHEL 8 -> RHEL 9

RHEL 9 → RHEL 10



EPEL 9

EPEL 9 launched about six months before RHEL 9, giving package maintainers a significant amount of time to add their packages. This resulted in 5,764 packages being available on the RHEL 9 launch day.



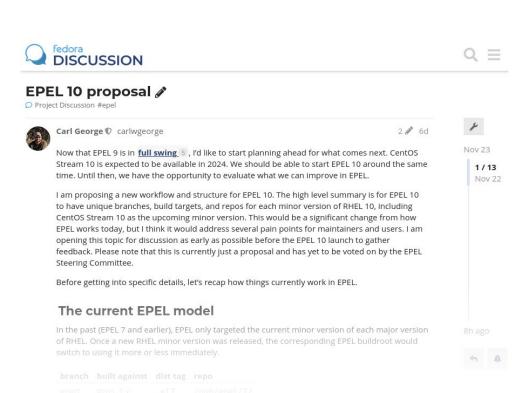




EPEL 10

EPEL 10 planning

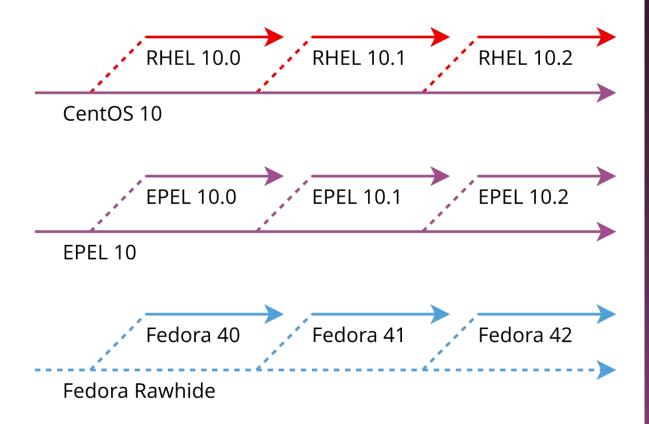
The current EPEL structure mostly ignores that RHEL has minor versions, resulting in a subpar experience for users and maintainers. EPEL Next was a partial fix, but the path forward is to fully embrace minor versions.





EPEL 10 branches

EPEL 10 is designed to resemble both the Fedora and the CentOS/RHEL branching relationships for a more intuitive maintainer experience.

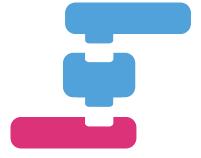




Prioritizing CentOS

EPEL is a community repository, so it should work best on CentOS, the Community Enterprise Operating System.



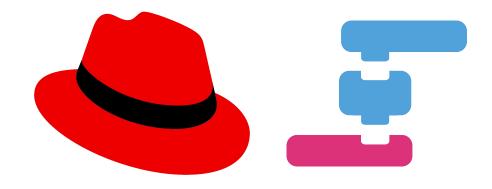






RHEL readiness

Improving readiness for RHEL is also a priority. EPEL 9 prepared for RHEL 9.0 by using CentOS 9 as a build platform. EPEL 10 extends this approach to all RHEL 10 minor versions.

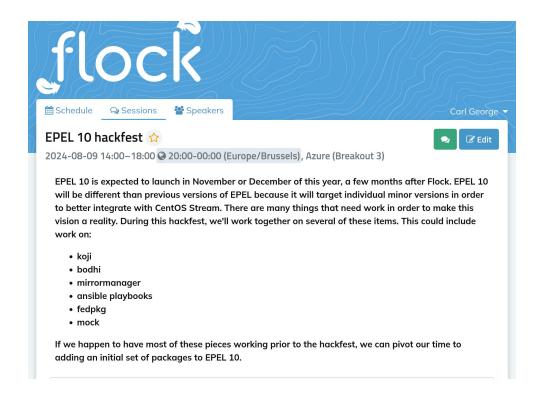






EPEL 10 soft launch

To give package maintainers even more time to prepare packages, EPEL 10 started with a soft launch period. This kicked off with a hackfest at Flock last August.

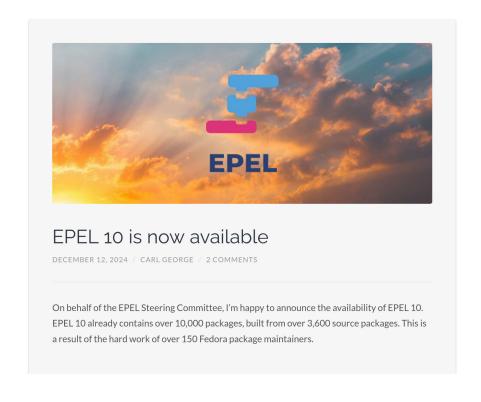




EPEL 10 official launch

After a few months of the soft launch period, EPEL 10 officially launched last December with over 10,000 packages.







Upcoming events

Upcoming events

- 2025 Q1
 - Mass branching for EPEL 10.0
 - Start of EPEL 10.1
- 2025 Q2
 - Expected release of RHEL 10.0
 - EPEL 10.0 switches to building against RHEL 10.0



Upcoming events

- 2025 Q3
 - Mass branching for EPEL 10.1
 - Start of EPEL 10.2
- 2025 Q4
 - Expected release of RHEL 10.1
 - EPEL 10.1 switches to building against RHEL 10.1



Q & A

THAT'S ALL FOLKS

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