

Red Hat  
**Summit**

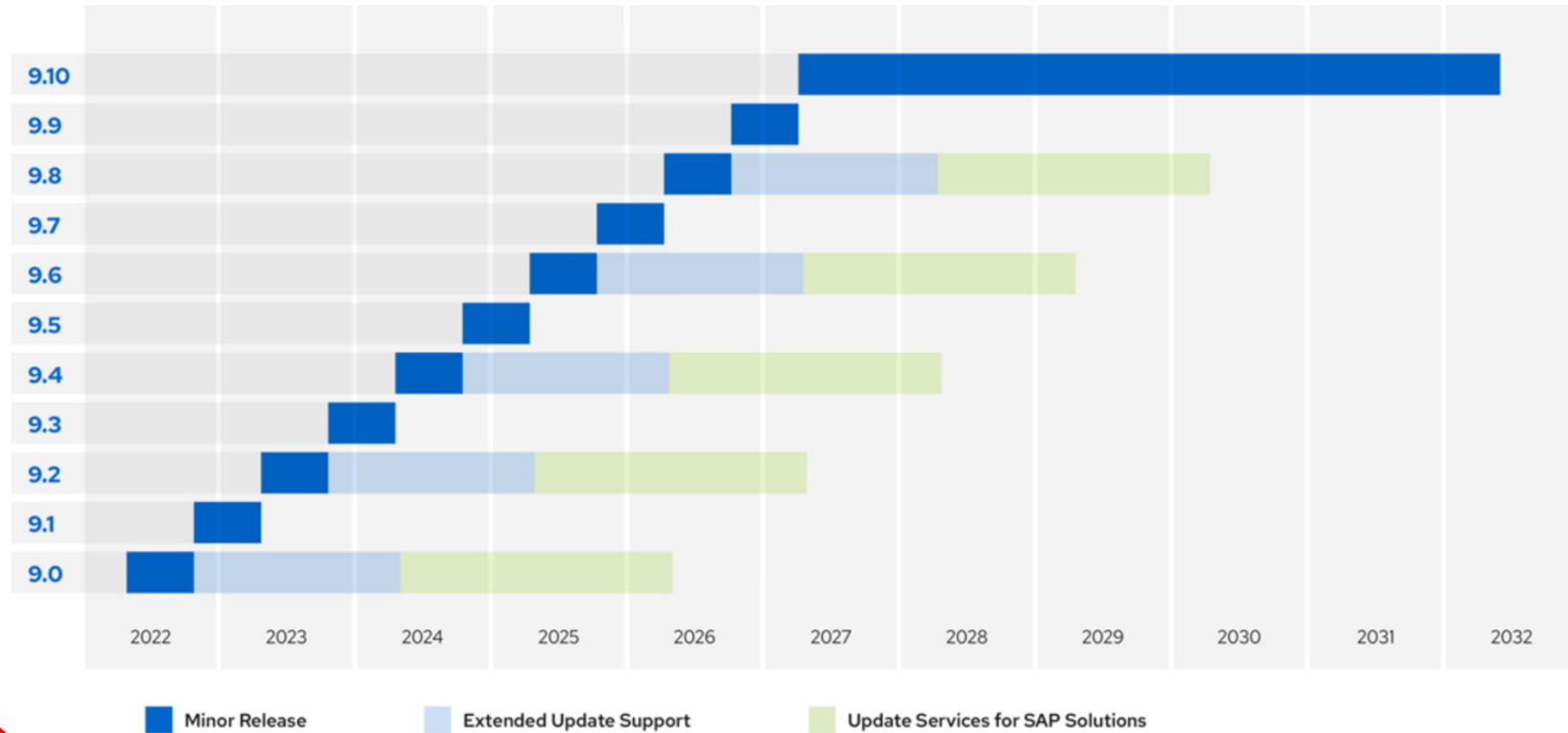
# The EPEL 10 plan

Reducing friction for EPEL packagers

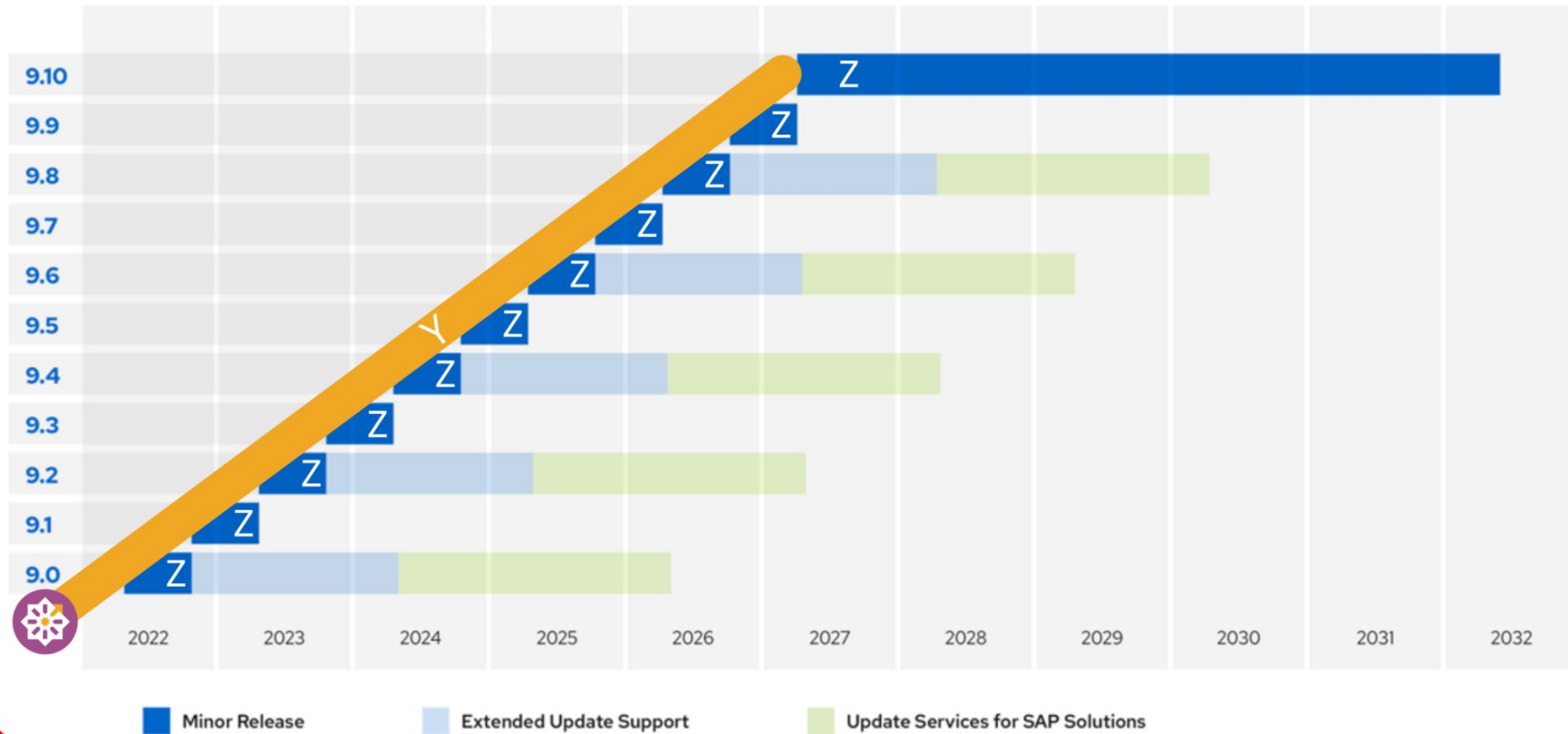
Carl George  
Principal Software Engineer  
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# RHEL versioning

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# EPEL 7 branching

# EPEL 7 branching

branch	built against	dist tag	repo path
epel7	RHEL 7.0	.el7	epel/7

# EPEL 7 branching

branch	built against	dist tag	repo path
epel7	RHEL 7.1	.el7	epel/7

# EPEL 7 branching

branch	built against	dist tag	repo path
epel7	RHEL 7.2	.el7	epel/7



# EPEL 7 branching

branch	built against	dist tag	repo path
epel7	RHEL 7.3	.el7	epel/7

# EPEL 7 branching

branch	built against	dist tag	repo path
epel7	RHEL 7.4	.el7	epel/7

# EPEL 7 branching

branch	built against	dist tag	repo path
epel7	RHEL 7.5	.el7	epel/7

# EPEL 7 branching

branch	built against	dist tag	repo path
epel7	RHEL 7.6	.el7	epel/7

# EPEL 7 branching

branch	built against	dist tag	repo path
epel7	RHEL 7.7	.el7	epel/7

# EPEL 7 branching

branch	built against	dist tag	repo path
epel7	RHEL 7.8	.el7	epel/7

# EPEL 7 branching

branch	built against	dist tag	repo path
epel7	RHEL 7.9	.el7	epel/7

# EPEL 8 branching



# EPEL 8 branching

branch	built against	dist tag	repo path
epel8	RHEL 8.0	.el8	epel/8

# EPEL 8 branching

branch	built against	dist tag	repo path
epel8	RHEL 8.1	.el8	epel/8

# EPEL 8 branching

branch	built against	dist tag	repo path
epel8	RHEL 8.2	.el8	epel/8

# EPEL 8 branching

branch	built against	dist tag	repo path
epel8	RHEL 8.3	.el8	epel/8

# EPEL 8 branching

branch	built against	dist tag	repo path
epel8	RHEL 8.4	.el8	epel/8
epel8-next	CentOS Stream 8	.el8.next	epel/next/8

# EPEL 8 branching

branch	built against	dist tag	repo path
epel8	RHEL 8.5	.el8	epel/8
epel8-next	CentOS Stream 8	.el8.next	epel/next/8

# EPEL 8 branching

branch	built against	dist tag	repo path
epel8	RHEL 8.6	.el8	epel/8
epel8-next	CentOS Stream 8	.el8.next	epel/next/8

# EPEL 8 branching

branch	built against	dist tag	repo path
epel8	RHEL 8.7	.el8	epel/8
epel8-next	CentOS Stream 8	.el8.next	epel/next/8



# EPEL 8 branching

branch	built against	dist tag	repo path
epel8	RHEL 8.8	.el8	epel/8
epel8-next	CentOS Stream 8	.el8.next	epel/next/8

# EPEL 8 branching

branch	built against	dist tag	repo path
epel8	RHEL 8.9	.el8	epel/8
epel8-next	CentOS Stream 8	.el8.next	epel/next/8

# EPEL 8 branching

branch	built against	dist tag	repo path
epel8	RHEL 8.10	.el8	epel/8

# EPEL 9 branching

# EPEL 9 branching

branch	built against	dist tag	repo path
epel9	CentOS Stream 9	.el9	epel/9

# EPEL 9 branching

branch	built against	dist tag	repo path
epel9	RHEL 9.0	.el9	epel/9
epel9-next	CentOS Stream 9	.el9.next	epel/next/9

# EPEL 9 branching

branch	built against	dist tag	repo path
epel9	RHEL 9.1	.el9	epel/9
epel9-next	CentOS Stream 9	.el9.next	epel/next/9

# EPEL 9 branching

branch	built against	dist tag	repo path
epel9	RHEL 9.2	.el9	epel/9
epel9-next	CentOS Stream 9	.el9.next	epel/next/9



# EPEL 9 branching

branch	built against	dist tag	repo path
epel9	RHEL 9.3	.el9	epel/9
epel9-next	CentOS Stream 9	.el9.next	epel/next/9

# EPEL 9 branching

branch	built against	dist tag	repo path
epel9	RHEL 9.4	.el9	epel/9
epel9-next	CentOS Stream 9	.el9.next	epel/next/9

# EPEL 9 branching

branch	built against	dist tag	repo path
epel9	RHEL 9.5	.el9	epel/9
epel9-next	CentOS Stream 9	.el9.next	epel/next/9

# EPEL 9 branching

branch	built against	dist tag	repo path
epel9	RHEL 9.6	.el9	epel/9
epel9-next	CentOS Stream 9	.el9.next	epel/next/9

# EPEL 9 branching

branch	built against	dist tag	repo path
epel9	RHEL 9.7	.el9	epel/9
epel9-next	CentOS Stream 9	.el9.next	epel/next/9

# EPEL 9 branching

branch	built against	dist tag	repo path
epel9	RHEL 9.8	.el9	epel/9
epel9-next	CentOS Stream 9	.el9.next	epel/next/9

# EPEL 9 branching

branch	built against	dist tag	repo path
epel9	RHEL 9.9	.el9	epel/9
epel9-next	CentOS Stream 9	.el9.next	epel/next/9

# EPEL 9 branching

branch	built against	dist tag	repo path
epel9	RHEL 9.10	.el9	epel/9



# EPEL Next drawbacks

# EPEL Next drawbacks

- ▶ Easily misunderstood
  - Often confused as a standalone repo
  - Branches had to be requested
  - Decision process for when to use it
- ▶ Duplicate work
  - Libraries changes require packages be rebuilt twice
  - Packages rebuilt in EPEL Next can't be inherited in EPEL

# Fedora branching

# Fedora branching

branch	built against	dist tag	repo path
f37	Fedora 37	.fc37	fedora/linux/{releases,updates}/37
f38	Fedora 38	.fc38	fedora/linux/{releases,updates}/38
rawhide	Fedora Rawhide	.fc39	fedora/linux/development/rawhide

# Fedora branching

branch	built against	dist tag	repo path
f38	Fedora 38	.fc38	fedora/linux/{releases,updates}/38
f39	Fedora 39	.fc39	fedora/linux/{releases,updates}/39
rawhide	Fedora Rawhide	.fc40	fedora/linux/development/rawhide

# EPEL 10 overview

# EPEL 10 overview

- ▶ Separate EPEL repos for each minor version of RHEL 10
- ▶ Corresponding package source (distgit) branches
- ▶ User experience should be nearly the same
- ▶ Maintainer experience should be more intuitive and more flexible

# EPEL 10 branching



# EPEL 10 branching

branch	built against	dist tag	repo path
epel10	CentOS Stream 10	.el10_0	epel/10.0

# EPEL 10 branching

branch	built against	dist tag	repo path
epel10.0	RHEL 10.0	.el10_0	epel/10.0
epel10	CentOS Stream 10	.el10_1	epel/10.1

# EPEL 10 branching

branch	built against	dist tag	repo path
epel10.1	RHEL 10.1	.el10_1	epel/10.1
epel10	CentOS Stream 10	.el10_2	epel/10.2

# EPEL 10 branching

branch	built against	dist tag	repo path
epel10.2	RHEL 10.2	.el10_2	epel/10.2
epel10	CentOS Stream 10	.el10_3	epel/10.3

# EPEL 10 branching

branch	built against	dist tag	repo path
epel10.3	RHEL 10.3	.el10_3	epel/10.3
epel10	CentOS Stream 10	.el10_4	epel/10.4

# EPEL 10 branching

branch	built against	dist tag	repo path
epel10.4	RHEL 10.4	.el10_4	epel/10.4
epel10	CentOS Stream 10	.el10_5	epel/10.5

# EPEL 10 branching

branch	built against	dist tag	repo path
epel10.5	RHEL 10.5	.el10_5	epel/10.5
epel10	CentOS Stream 10	.el10_6	epel/10.6

# EPEL 10 branching

branch	built against	dist tag	repo path
epel10.6	RHEL 10.6	.el10_6	epel/10.6
epel10	CentOS Stream 10	.el10_7	epel/10.7



# EPEL 10 branching

branch	built against	dist tag	repo path
epel10.7	RHEL 10.7	.el10_7	epel/10.7
epel10	CentOS Stream 10	.el10_8	epel/10.8

# EPEL 10 branching

branch	built against	dist tag	repo path
epel10.8	RHEL 10.8	.el10_8	epel/10.8
epel10	CentOS Stream 10	.el10_9	epel/10.9

# EPEL 10 branching

branch	built against	dist tag	repo path
epel10.9	RHEL 10.9	.el10_9	epel/10.9
epel10	CentOS Stream 10	.el10_10	epel/10.10

# EPEL 10 branching

branch	built against	dist tag	repo path
epel10.10	RHEL 10.10	.el10_10	epel/10.10

# EPEL 10 branching (alternate)

branch	built against	dist tag	repo path
epel10	RHEL 10.10	.el10_10	epel/10.10

# Benefits and drawbacks

# Benefits

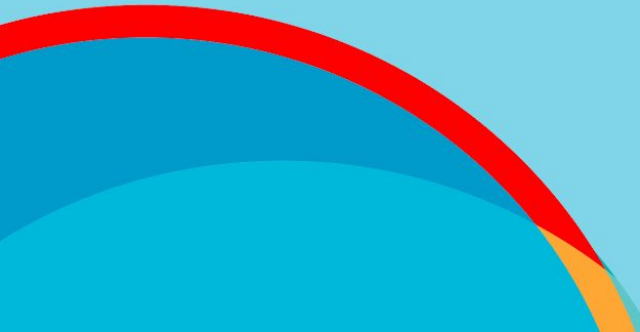
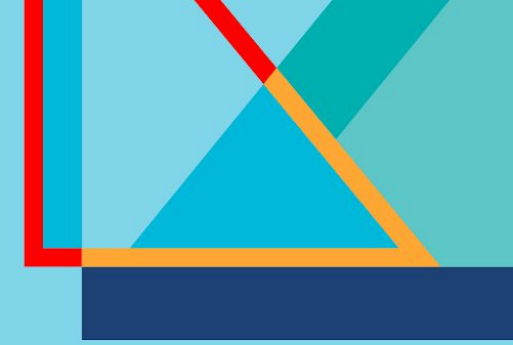
- ▶ Intuitive structure similar to Fedora
- ▶ Inherited builds reduce rebuild work
- ▶ No EPEL Next branching decisions
- ▶ Reliable archive repos
- ▶ Fewer uninstallable packages
- ▶ Per minor version retirement

# Drawbacks

- ▶ More branches
- ▶ More composes
- ▶ Snapshot management near release time
- ▶ Change is hard



# Status and bikeshedding



# Status

- ▶ General direction approved by the EPEL Steering Committee
- ▶ Bikeshedding specific implementation details now

# Moving between repos

- ▶ Symlinks
  - needs MirrorManager changes
- ▶ dnf variables
  - \$releasever\_major and \$releasever\_minor
  - dnf feature request
  - If not implemented in dnf, could create our own variables with RPM file triggers

# Release packages

- ▶ `epel-release-rhel` → `epel/10.0`
- ▶ `epel-release-centos` → `epel/10.1`

[red.ht/epel10](https://red.ht/epel10)

# Q & A

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# Thank you



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