Future of Scientific Linux CERN

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on the behalf of Linux Support Team

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Agenda

● Introduction,
● Centos project status update,
● Scientific Linux Cern 5 and 6,
● Scientific Linux Cern 7,
● Future directions,
● Questions.
Beginning of 2014, the CentOS Project is joining forces with Red Hat.

- The core team is now part of the “open source and standards team” at RedHat.
- Development will be overseen by the new CentOS Governing Board.

http://www.centos.org/about/governance/
Some of the things that are not planned to change:

- The CentOS Linux platform isn't changing, it become more open, more inclusive and transparent.
- The sponsor driven content network that has been central to the success of the CentOS stays intact.
- The bugs, issues, and incident handling process stays as it.
- Efforts are still isolated from the RHEL Groups inside Red Hat (source path tracking: they retain an upstream).
Some of the key things that are changing:

- The team work for Red Hat, but not RHEL.
- Red Hat is offering to sponsor some of the buildsystem and initial content delivery resources.
- git.centos.org: centralize all development effort.
- The entire build, test and delivery chain open to anyone.
- Possibility to have Special Interest Group to extend Centos core.
Just want to confirm that CentOS Linux as the core distro is going to remain a RHEL rebuild. No Changes in mainline that everyone trusts.
SLC 5 and 6

Implications for Scientific Linux Cern 5 and 6

- Source packages may have to be generated from git repositories, instead of the actual FTP availability. However no official announcement on how to do this has been done yet.
- No other changes, using our actual tool chain, same release process.
- We hope to make this transparent.
Detail discussion with Fermilab is ongoing.

Alternative approaches are being evaluated.

1. Rebuild from source as planned for 5 and 6,
2. Create a Scientific Centos variant,
3. Adopt Centos core.
Use Centos source from git to build SLC 7.
- Continue to maintain our build system and repositories management tools.
② Use the variant infrastructure of Centos
   • Create a Special Interest Group
   • SIG board member define rules (package inclusion policy, newer versions) and can diverge from core.
   • Override package version e.g. security patches,
   • Scientific Branding (e.g. logos),
   • Centos build system and tools available.
Why consider Centos 7 now:

- Minimal modification compare to Centos core (openafs + few other packages).
- Open process.
- Better quality, more QA provided by a wider community.
- More Centos tools are developed (openstack cloud images, build system, repositories mgmt, etc...).
- Low impact on users since it is a new release.
Approaches considered by CERN and Fermilab:

1. Keep the same process: build from source with our actual tool chain.
2. Create a Special Interest Group for our variant.
3. SL become an add-on repository to CentOS core.

Schedule:

- Centos 7 Beta in preparation,
- RHEL7 production due in the summer,
- Source RPMs not guaranteed after the summer.
QUESTIONS ?

http://cern.ch/linux

Thank you !