Future of Scientific Linux CERN

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on the behalf of Linux Support Team

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Agenda

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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).

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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.

Centos project updates

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.

① 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.

③ 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 !