



# Scientific Linux Status Update

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# Updates since last HEPiX

- New group leader: Bonnie King
- Distributed publishing responsibilities
  - errata, releases
  - Now part of Primary rotation duties

# Updates since last HEPiX - SL5

- Less than 6 months remain for SL 5
  - **March 31, 2017**
- Current status is Production Phase 3
  - During the Production 3 Phase, Critical Impact Security Advisories and selected Urgent Priority Bug Fix Advisories may be released as they become available. Other errata advisories may be delivered as appropriate.

# Updates since last HEPiX - SL6

- SL 6.8 released July 15
  - SL provides dual layer single disk media
- Upstream changes:
  - Updates to pacemaker clustering
  - OpenSCAP updates
  - Hardware support updates
  - Includes "Relax-and-Recover" backup tools
    - Relax-and-Recover is a recovery and system migration utility. Written in bash, it allows you to use tools already present on your system to continuously create recovery images which can be saved locally or on a remote server, and to use these images to easily restore the system in case of software or hardware failure.

# Updates since last HEPiX - SL 7

- RHEL 7.3 in private BETA
  - Custodia
    - Distributes secrets safely to hosts
    - Targeted at cloud images, should work for anything
  - XFS Updates
    - XFS Statistics in /sys/fs
    - XFS tools rebased to much newer version
      - v3.2.2 -> v4.5.0
      - Enables Metadata CRC by default
  - Significant performance updates for auditd
    - New Setting: incremental\_async should boost performance
    - Allow audit traps by process name
  - BETA Kernel has GPIO support enabled
    - No specific hardware drivers packaged

# Scientific Linux Contexts(SL7)

- Our Goal:

Support scientific research by providing a method to integrate scientific applications with the operating environment.

If you need some behavior, consider making a context!

For example:

- Fermilab's onsite environment is a context
- CVMFS could be added as a context (sponsor?)
- Run control tools could be deployed via a context

# Container/VM provisioning

- Docker, Vagrant
- Considering providing 'official' images
  - Feedback requested

# Software Collections and Devtoolset

- Currently publishing for SL6, SL7
- Were not freely available when we first provided them
- Now freely available from [softwarecollections.org](https://softwarecollections.org)
  - Built by Red Hat engineers
    - <https://www.softwarecollections.org/en/scls/user/rhscl/>
  - Will no longer be provided or maintained by Scientific Linux
  - We'll archive them from SL yum repositories



# Thanks to

## Ongoing Collaborators:

- Stephan Wiesand / DESY – OpenAFS
- Chris Brown / GE Medical / HELiOS – ZFS
- Urs Beyerle / ETHZ – Live Images
- Akemi Yagi – Functional testing and community contributions

## Upstream:

- Danny Climo, Red Hat
- Dan McGuan, Red Hat
- Rick Ring, Red Hat

# Thanks For Participating!

Any Questions?