

FermiLinux STS

Scientific Linux 6

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FermiLinux STS /Scientific Linux 6

Presentation Overview

- Fermi Linux STS 10/11
- Scientific Linux 6 issues



FermiLinux STS

- STS – Short Term Support
- STS 10 Based on Fedora 10
- Changed graphics for trademark issues
- Fermi stuff
 - Added Kerberos and Security Baseline packages
 - Added SL_desktop_tweaks
 - Remove items against our Security Baseline
 - Enable auto yum security updates to FNAL mirror



FermiLinux STS

Why

- New Hardware that SL 5x doesn't work on
 - Desktop and laptops only
- Fermi wanted a kerberized Live CD
- Investigate the release itself since SL 6 will have features from Fedora 10/11



FermiLinux STS

What

- Only DVD install created, i386 and x86_64
 - Created quarterly
- Only i386 Live CD created
 - Created monthly
 - Gnome and KDE versions
- Same support policy as Fedora



FermiLinux STS

How

- Use Revisor to build a custom release
- Revisor contains code from punji, imgcreate
 - Bugs in live CD creation, so used imgcreate instead
 - Issues with rpms in the distro that “break” builds, mostly dependency errors



FermiLinux STS

How

- Created scripts to make rebuilds easy
- run 1 script per arch for install DVD
- 1 script for Gnome and KDE Live
- Works well unless the “distro” is broken, mostly dependency problems
 - Fedora updates distro frequently with new features and bugs fixes



FermiLinux STS

Issues and Things learned

- Kerberized Live CD is popular
- Users use STS when they really should be using SLF 5x
- Experience on newer SL base is valuable
- Plan on creating STS 11 based on Fedora 11



Scientific Linux 6

Note before we proceed

- Fedora 10 or 11 is not the same as RHEL 6
 - RHEL 6 is based off the latest release of Fedora
 - RedHat can change anything they want
- We do not know RedHat's time line
 - They could base RHEL6 off Fedora 11 or 12



Scientific Linux 6 Issues

We wanted to look at what might be in SL 6

- New Packages
- New Boot Up Structure
- New Installer
- How Can We Do Sites
- Experience with SL rpms on Fedora 10/11



Scientific Linux 6 Issues

Packages

- KDE 4.2 , major update
- KVM vs XEN
- Package-Kit added and Yum updated
- Other Misc Packages that RedHat added
- Porting of current SL rpms
- AFS and XFS , do they work?



Scientific Linux 6 Issues

New Boot Up Structure

- Starting Packages In Parallel
 - How do we configure past customized packages
- Plymouth Graphical Startup
 - How do we configure this
 - How do we change the graphics



Scientific Linux 6 Issues

New installer

- Become familiar with the code
- See if our old changes still work or are needed
- How are they doing kernel modules now



Scientific Linux 6 Issues

Revisor

- Can we use Revisor to build the installation CD's
- Can we use Revisor to build live CD's
- Can Revisor be used to replace sites
 - We think it's worth the effort to try



FermiLinux STS

Issues and Things learned

- Once the scripts and config files were created it works well unless distro is broken, this should not be a issue with SL 6 since it is less volatile
- Revisor has bugs
- Revisor was not updated for Fedora 10 until after Fedora 10 was released

