

Introduction to CentOS

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Agenda



- A brief history
- Defining an Enterprise Linux distribution
- What is the current status ?
- How to contribute ?



History line

Back in 2003, Red Hat announced that they stop providing the traditional Red Hat Linux distribution

Users had to make a choice:

- * use Red Hat Enterprise Linux (only available through RHN subscriptions)
- use the newly created Fedora project



History line

Several projects came to life (Whitebox Linux,

TaoLinux,) at that time.

cAos project announced the birth of the CentOS project:

http://caos.caosity.org/pipermail/caos/2003-December/001205.html

The goal was to provide a compatible distribution rebuild

from the RHEL SRPMs

2005: CentOS project now independant from cAos:

http://lists.centos.org/pipermail/centos/2005-March/003752.html

Enterprise Linux?



- Long support cycles
- Security updates (low risk) for seven years
- ABI/API stability patches get backported
- Support by Hardware/Software vendors
- Certifications are compatible

The need for an Enterprise distribution?



- You cannot afford to update all your servers each year
- Some software you use requires a supported distribution
- Your own software needs a stable interface
- You need stable Desktop software for your business

Project goals



- Easy maintenance via yum
- Building a self hosting distribution CentOS
 RPMs are built on a CentOS environment
- Build up a friendly environment for users and maintainers
- Long-term support of the base distribution
- Community infrastructure

CentOS Pros and Cons



• Pros:

- Freely available (no licenses)
- Everything in one 'channel'
- Strong and big community support
- Stable/tested
- No need to upgrade to the next major release
- Not limited by Upstream restrictions





Cons:

- No official support from upstream
- No RHN TM (SpaceWalk alternative available now)
- Not bleeding edge
- Newer softwares will require maybe newer underlying software in the future (all enterprise distros)
- 'small' delay for the security releases (2h -24h)

Supported architectures



- CentOS 2 only supports x86.
- CentOS 3 currently supports x86, x86_64 (AMD64 and Intel EM64T), s390, s390x, ia64 (Intel Itanium2).
- CentOS 4 currently supports x86, x86_64, s390, s390x and ia64. ppc (PowerPC), alpha (DEC Alpha) and sparc are released in beta for CentOS 4.
- CentOS 5 currently supports x86 and x86_64. ia64, ppc (PowerPC) and sparc are being developed.

Eol timeline



- 7 years of updates :
- CentOS-2 updates until May 31 2009
- CentOS-3 updates until Oct 31, 2010
- CentOS-4 updates until Feb 29, 2012
- CentOS-5 updates until Mar 31, 2014

CentOS projects



- CentOS LiveCD
- CDS (Centos Directory Server –in the testing repo now –IPA planned too)
- Project Cranberry: an effort started by a few people associated with the CentOS Project, to try and create a general purpose sysadmin toolkit which tries to provide most recovery resources required by people.
- Pandora: a package browser for the CentOS repositories that is currently under development.
- Dasha: the CentOS extra drivers project, aims to bring wider hardware availability to CentOS users.
- Yours?: read http://wiki.centos.org/Projects





- Base: the RPMS released on the iso/tree
- Updates: updates to the [base] repo
- Extras: items produced only by CentOS (not upstream) and that don't overwrite [base] packages. Examples: FreeNX, Heartbeat, DRBD...
- CentosPlus: items produced by CentOS (not upstream) and that overwrite [base] packages! (centosplus kernels, jfs, xfs, reiserfs, postfix with MySQL, Postgresql support, higher php and mysql for Centos 4,)



External repositories

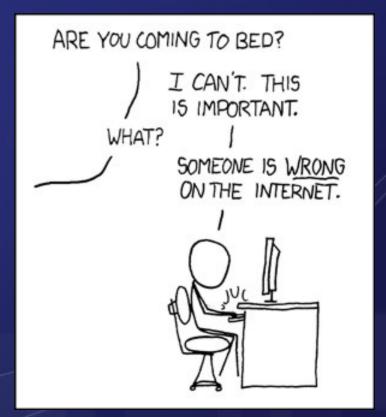
- RPMforge: This repository is a collaboration of Dag, Dries, and other packagers. They provide over 4000 packages for CentOS. http://www.rpmforge.net
- ATrpms: This repository provides many bleeding-edge applications and media utilities such as mythty. This repository is available at http://atrpms.net (use the stable repo!)
- KBS-Extras: This site provides a rebuild of Fedora Extras for CentOS, as well as number of other packages http://centos.karan.org
- EPEL: This repository (See http://fedoraproject.org/wiki/EPEL) provides rebuilds of Fedora packages for EL4 and EL5
- !!! use the yum priorities plugin !!! see http://wiki.centos.org/Repositories



How to contribute

Help other CentOS users/community:

- Mailing-lists (localized) http://lists.centos.org
- Forum http://www.centos.org/modules/newbb/
- **IC** #centos on irc.freenode.net see also http://www.centos.org/irc



How to contribute



- Provide mirrors/bandwidth (if you have)
- Provide HW (ia64, sparc and ppc/ppc64)
- Donate ;-)
- Report bugs on http://bugs.centos.org (! not a support website)
- Submit patches ;-)
- Submit spec files to be included in Extras
- QA team
- Write articles/translate them on the wiki

Centos Links



- http://www.centos.org
- http://wiki.centos.org
- http://planet.centos.org
- http://lists.centos.org
- http://mirror.centos.org
- http://isoredirect.centos.org



Questions?