

Lance Davis, CentOS Project Leader Fosdem February 2007



CentOS is a volunteer project.

All infrastructure is donated.

CentOS volunteers manage 33 donated servers worlwide that are used for a variety of purposes.

ALL of them run CentOS



Servers are donated by universities and hosting companies, which are the main sponsors of the project.

In return they get promotion on CentOS website.

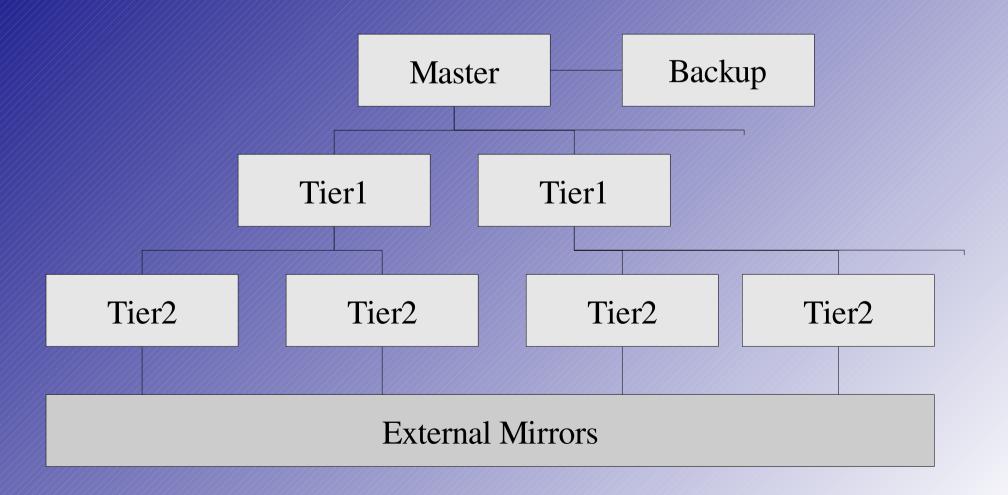


Servers are used for:dns, website, wiki, mirror masters, vault, mailman,
beta masters, build masters

Servers are administered by a small team of volunteers – each server is managed separately for redundancy – looking at puppet etc



Mirror servers synchronise in a tree





External mirrors sync to msync.centos.org that uses Geo::IP enabled pdns to give geographically close internal mirror server.

CentOS has 153 external mirror sites spread around the world.



#### CentOS Mirror Locations

Australia – 3

Austria – 2

Bangladesh -1

Belgium -2

Brazil -1

Bulgaria -1

Canada -3

Chile – 4

China – 5

Czech Republic - 4

Denmark - 2

Finland - 2

France - 5

Germany - 6

Greece - 4

Hungary - 1

India - 1

Indonesia - 1

Ireland - 1

Israel - 3

Italy - 3

Japan - 5

Korea, Republic of – 3

Luxembourg -1

Netherlands – 4

New Zealand -1

Norway -1

Poland -4

Portugal -2

Puerto Rico 1

Romania -3

Russian Federation -1

Singapore – 2

Slovenia -2

South Africa – 1

Spain – 3

Sweden -2

Taiwan – 5

Turkey -1

Ukraine -1

United Kingdom – 6

United States – 49

Venezuela -1



Not all mirrors are available all the time.

CentOS has background tasks that check mirror availability and currency and update dynamic mirror lists.

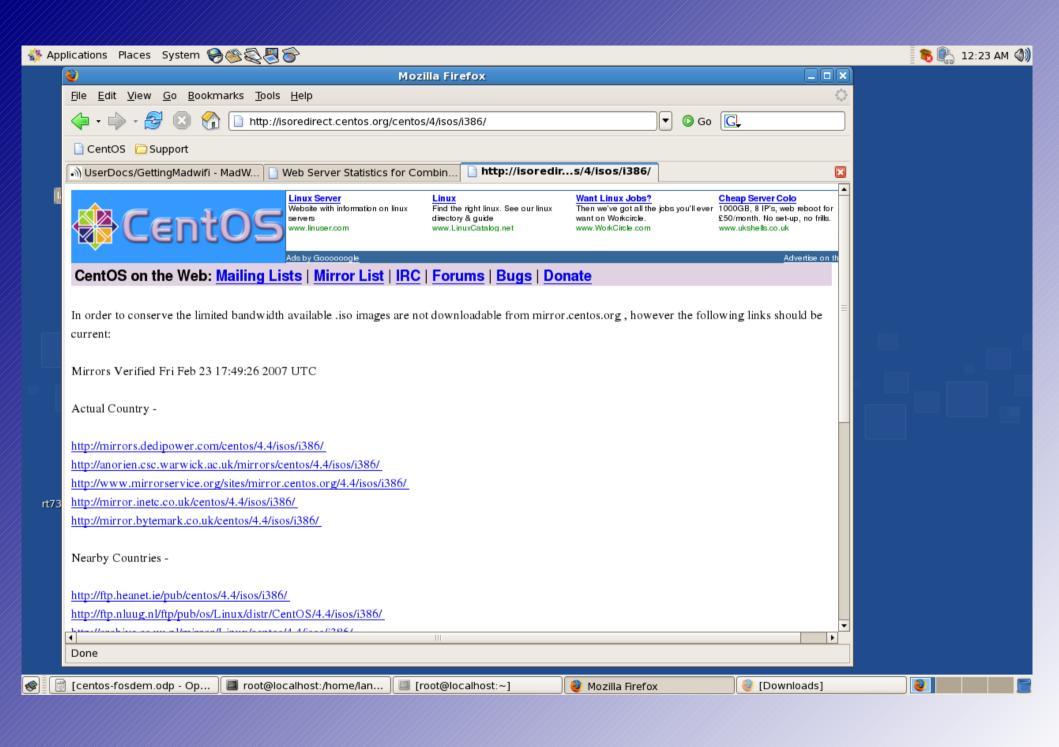
So the end user (and yum) should always get a current list of mirrors.



To limit internal server bandwidth use, CentOS redirects iso downloads to a list of current external mirrors close to client.

Currency of isos is checked for both version and architecture and individual .iso files are redirected to mirrors that have them.

isos are also available by Bittorrent





CentOS uses nagios for server monitoring and cacti for server bandwidth monitoring.



CentOS busiest week so far was when 4.4 was released and our internal mirrors pushed out 20.74

Terabytes.

External mirrors will have pushed out considerably more that week.

We expect an exponential increase from 4 to 5, as there was from 3 to 4.



CentOS is consistently among the top 10-15 projects downloaded from mirrorservice.org.uk

Our Geo:IP enabled mirror redirect system spreads that load amongst our geographically diverse mirrors and gives better download for clients.



Best estimate of CentOS usage is that it is installed on many millions of servers and workstations worldwide.

Cluster users that we know of run CentOS on in excess of 2000 nodes.



CentOS is the 15<sup>th</sup> most popular Linux distribution on Distrowatch.

(12 months 2006)

notes; Asterisk PBX and VoIP modules. This release is alpha quality. There are still a few missing features and only preliminary testing has been completed. Please do not install this version in a production or live environment!" See the project's testing page for details about known issues and ways to report bugs. Download: community-4.1-alpha1.iso (440MB, MD5).

#### Distribution Release: BOSS GNU/Linux 1.1

The BOSS development team has announced the release of BOSS GNU/Linux 1.1, India's first operating system with an ambitious goal of supporting all official languages in the country: "BOSS Tarang v1.1 released with the following features: refined set of packages; Firefox (v2.0b2) compiled with Indic language printing support; Thunderbird replaces Evolution; update-manager added for daily system updates; Java Runtime included; read and write facility with NTFS partitions; USB webcam modules included; now we can install BOSS from Windows; graphical installer; faster system start-up and login; user-friendly GNOME desktop; simplified menu organization...." Visit the project's main Wiki page to read the full release announcement. Download the installation or live CD from here: BOSS-11Tarang-i386-v1.1-220207.iso (690MB, MD5).

Data span:		
	Year 2006	▼
Refresh		
Rank	Distribution	H.P.D*
1	<u>Ubuntu</u>	2640-
2	openSUSE	2027▲
3	<u>Fedora</u>	1444▲
4	<u>MEPIS</u>	1045▲
5	<u>Mandriva</u>	1015-
6	Damn Small	841-
7	<u>Debian</u>	819▲
8	PCLinuxOS	774▲
9	Slackware	648-
10	Gentoo	618-
11	KNOPPIX	615▲
12	FreeBSD	499▲
13	Kubuntu	480-
14	<u>Vector</u>	413-
15	CentOS	409-
16	<u>Zenwalk</u>	404-
17	Duppu	204=

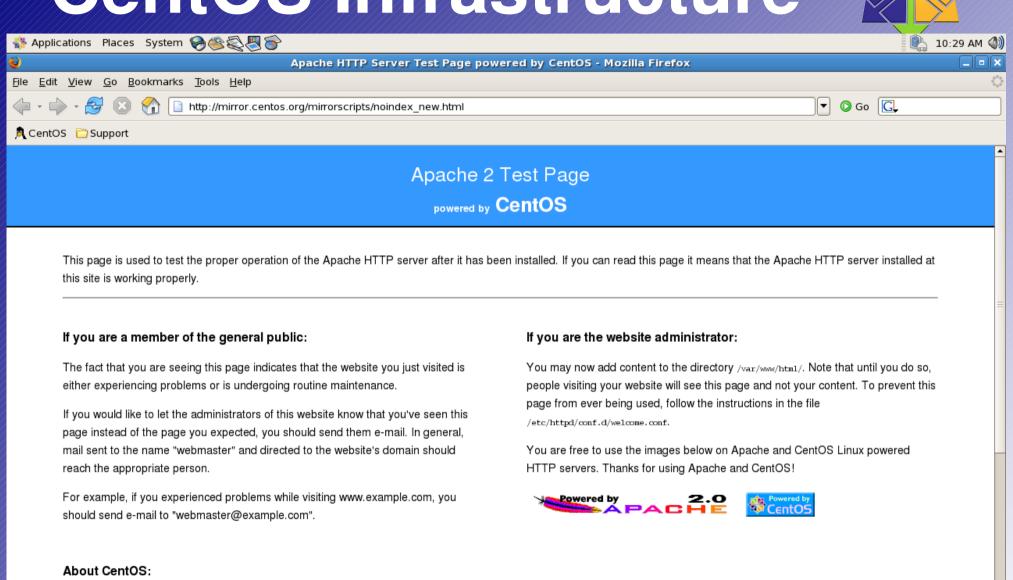


With success comes responsibilty ...

Tuttle .... Hey CentOS has invaded my website – get your stuff off or I'll call the FBI ...

I am the city manager from Tuttle, Oklahoma ...
I am computer literate and have 22 years in computer systems engineering and operation ...



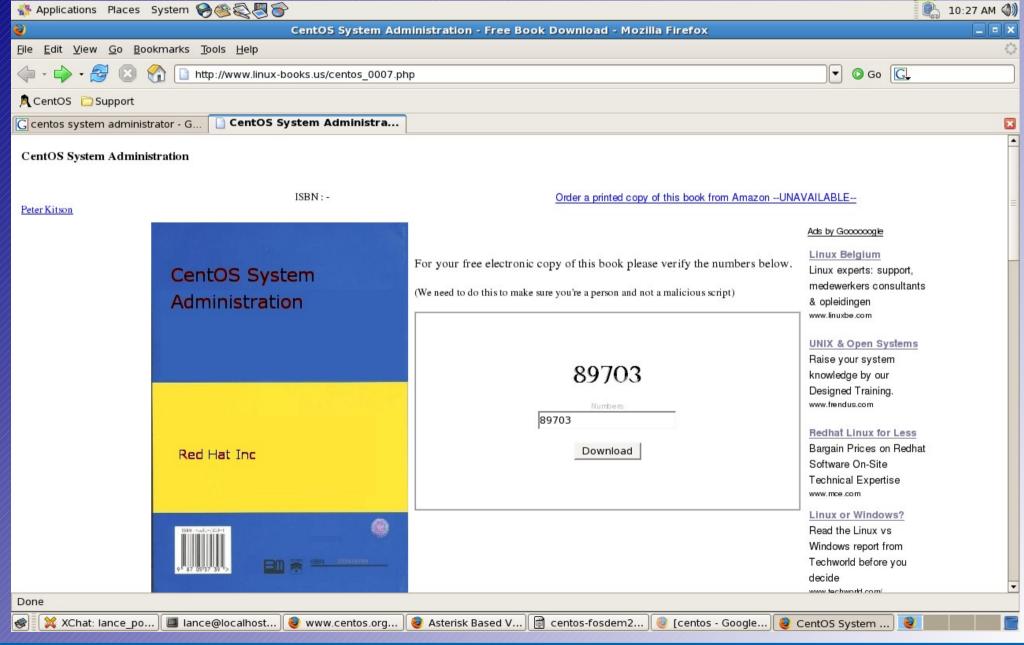


The Community ENTerprise Operating System (CentOS) is an Enterprise-class Linux Distribution derived from sources freely provided to the public by a prominent North American Enterprise Linux vendor. CentOS conforms fully with the upstream vendors redistribution policy and aims to be 100% binary compatible. (CentOS mainly changes

Done

😸 💢 XChat: lance... 🔳 lance@localh... 😻 www.centos.... 😻 Asterisk Base... 🗟 centos-fosde... 🗐 centos - Goo... 😻 www.centos....







CentOS community is CentOS biggest asset
Wikipedia says :-

There are other distributions derived from RHEL's source as well, but they have not attained the surrounding community which CentOS has built; CentOS is generally the one most current with Red Hat's changes.



CentOS must be doing something right ...

Projects that are based on CentOS

Asterisk at Home / trixbox

Rocks Cluster Strongbolt Linux

Nuonce Bluequartz BU Linux

SME Server Literom ERP

Elastix



Applications that run on CentOS:

any that run on Red Hat Enterprise Linux (some may not be certified – oracle,db2 etc – but they do work, and work the same as they do on RHEL.)



Applications that say they run on CentOS:

cpanel
ispconfig
greenplum/bizgres



So what of the future for CentOS?



CentOS will always be free

free as in GPL freedoms
free as in free to download and use



CentOS resists change

The aim is to be 100% identical to upstream.



CentOS will continue to track upstream, release as often and update for as long.

CentOS already provides fasttrack repos and will support 4.5.x releases



CentOS will expand the range of additional software that can be used, in additional CentOS repos and by working with dag, rpmforge, karan.org, fedora extras



CentOS will look to provide migration tools from previous (and current) Redhat, Fedora and Oracle releases, as well as tools for upgrades between CentOS versions.



CentOS has a newly created qa team that will improve the quality of releases.

The qa team is composed of different people than the developers.

Some have been on upstream qa team since 5.0 days and earlier.



CentOS will develop income streams by providing consultancy services and establishing CentOS approved support, hosting, consulting and training networks.



Income will be used to manage and pay developers for development and consultancy work.

It is hoped to employ core developers full time on CentOS within 1 to 2 years.



Expect to see CentOS on more architectures :sparc, niagara, ppc, ppc64, itanium,
embedded – arm



Expect to see a new CentOS website ..... soon