

PCLinuxOS - A Little Walk Down History Lane Ubuntu's Hype is Misleading [Real Test] Do Faster Downloads with ProZilla! A Beginner's Guide to Linux, Part 1 A Word to the New and Frustrated How to Make a List of Installed Packages How to Understand and Edit etc/fstab Kopete to IRC Howto KDE, User Guide, Chapter 8 I'm in Your Leenux Box

Gill- Quarte



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ello everyone! My name is Papawoob, and as Tim mentioned in this space last month, I am assuming the position of Chief Editor. Tim's leadership will be missed, but the show will go on.

We have several more interesting articles for your reading pleasure this month. We have another chapter in the ongoing KDE User Guide series, an explanation of that mysterious file, etc/fstab, and a brief history of PCLinuxOS by Texstar himself!

We are also in the process of moving from mag.mypclinuxos.com to pclosmag.com. I am inviting everyone to visit the new site and sign up at the forums. You can let us know what subjects you would like to see in the magazine, comment on things you have read, or just browse through the articles from the past year.

I would also like to welcome two new members to the staff. Sean Harrison and Vivek Srivastava. Sean will be assisting in the production of the PDF version of the mag, and some writing and proofreading. Vivek will also be writing and is responsible for the great progress going on at our new website.

Time to end this so that you can get on to reading all these great articles. Thanks to all our readers for your continuing support and I hope to see everyone at www.pclosmag.com!

Anyone who feels the need to write a note or letter to the editor can e-mail me at: jpaxton@nc.rr.com.

Papawoob

Written by Texstar, Sunday, 20 May 2007

Texstar and the Ripper Gang are pleased to announce the final release of PCLinuxOS 2007. Featuring kernel 2.6.18.8, KDE 3.5.6, Open Office 2.2.0, Firefox 2.0.0.3,



Thunderbird 2.0, Frostwire, Ktorrent, Amarok, Flash, Java JRE, Beryl 3D and much much more. Almost 2 gigs of software compressed on a single self bootable livecd that can be installed to your hard drive provided it is compatible with your system and you like the distribution. Over 5000+ additional packages available after hard drive install through our Synaptic Software Manager. Please note PCLinuxOS does not ship with Win32codes or DVD decryption software. Proprietary Nvidia and ATI drivers available after hard drive install.

In addition we'd like to give out a special thanks to the PCLinuxOS community who stepped up last month to help us out and kept us going. Thank you for all your support and we'll keep working hard to bring you a good Linux distribution you can be proud of. We also want to thank Enki Consulting for providing hosting for our website and ibiblio.org for hosting our distribution. PCLinuxOS Magazine is a community project of MyPCLinuxOS.com to provide an additional means of communication to the PCLinuxOS community.

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DEAR OL' DAD GOT A NEW COMPUTER... WITH LINUX

Back in the 20th century, my dad took notice of all the commotion about this newfangled thing call the Internet, and decided he wanted to see what it was all about. Being retired and in his 70's at the time, he wanted to make sure he didn't turn into an "old fogey" and get left behind. He bought what was then a fairly high end home computer – a 350MHz Pentium II, with 64MB (count 'em, 64MB) RAM, and a huge 6GB hard drive, running Windows 98SE. He had been using it ever since... until recently, that is.

During our conversations over Mothers' Day dinner, he mentioned that he hadn't turned the thing on for six weeks. Seems it just wasn't any fun anymore. With all the necessary anti-virus and anti-spyware software running, coupled with the huge downloads of signature updates that greeted him at every boot, it was taking forever just to get to a usable desktop. Couple that with a slow dialup account trying to load web pages that were by now much more content heavy than back in the old days, and the once fun and exciting Internet experience had turned to drudgery. And then there was the spam...

He told me it was time to either do something different, or get out. So that's when I made my pitch:

I told him that if he got himself hooked up to a high speed connection, that I would fix him up with a new computer, running Linux, that would be faster, be just as easy to use as his old one, and wouldn't be vulnerable to viruses and spyware and all that nonsense. And that we'd take care of his spam problem, too.

The old goof took me up on it! A week or so after we'd talked, he called me to say that he'd ordered DSL, and that the kit would be delivered within the week. It was time for me to make good on my promise.

Hardware wasn't a problem – I have a collection of old, "obsolete" computers that I've rescued from the landfill or been given directly. I've taken to refurbishing these old machines, upgrading their hardware with pieces from other old machines that I've cannibalized, and finding good homes for them. Dad was to become the proud owner of an old Dell PIII/700MHz, with 384MB RAM, and a 13GB hard drive. What I had to do was decide on the particular flavor of Linux operating system I wanted to put on it.

I've been dabbling in Linux for over two years now, and recently made a wholesale transition to desktop Linux for my personal computing environment. I'm no guru, but what I am able to do is install and configure most any mainstream distribution. Believe me, I've tried a bunch, and have come to the conclusion that for the unsophisticated home user looking to transition from Windows you can't beat PCLinuxOS. I won't bother you with all the technical details – suffice it to say that PCLinuxOS looks, acts, and feels like Windows, only better.

That's what he got – a PCLinuxOS Linux computer, set up for basic email, Internet, and word processing. The high speed connection setup was automagic – once the DSL modem was configured (which did require using Windows, but blame that on AT&T, not Linux), PCLinuxOS connected immediately on the first boot. The icing on the cake was when I crossed my fingers and went to set up his old Lexmark printer, and it was already there!

What followed was a short session that consisted of showing him what buttons to click to do what -- "click this button to go on the Internet", "click this button to read your email", and "click this button to write letters". That's been it.

He's been on his own for a month now. So far, so good. You must understand that my dad barely knew how to operate his old Windows computer – he never learned to save documents (all those scathing Letters to the Editor got printed and snailmailed), never learned how to use the Internet Explorer Favorites, and never learned how to use the Address Book in Outlook Express. He actually is the perfect candidate for desktop Linux, as he doesn't have any ingrained expectations about how a computer should behave. I'm encouraged by the fact that he recently said he'd spent two hours reading sports blogs just that day, and then asked me how to find the Daily Kos. I've gotten two "support" calls so far, both having to do with setting up his Address Book. He's got the hang of it now.

Once again, you may ask "what's the point?" There are several, but for the purposes of this essay, I'll be brief and leave it at this:

Desktop Linux is ready. If Dad can do it, anybody can.

Mark Warner, Bloomington, Indiana, USA

Thanks for the inspirational story, Mark. Many of us have similar stories, but few of us have put them into words as succinctly as you. Papawoob

Our grateful appreciation to MyPCLinuxOS.com and Devnet for making this project possible.



Letters to the Editor

I would like to thank you guys for publishing the magazine that you do. I've taken a look at it from time and time and have been very impressed with the heart-felt stories being told by living, breathing, everyday people. I think you might find this tidbit interesting. I have been distro-hopping for quite some time now. The purpose: find the distro that would work right for me as I am working on THE *NIXED REPORT, the online magazine. Debian 4.0 Etch almost became the main distro of choice. Almost. There was one thing holding it back: Skype 1.4 beta. I did not wish to use that version of Skype as I figured out very quickly that it had tremendous problems (i.e. sounding like a tin can, etc...). 1.3 works perfectly, but skype.com never offered 1.3 at that point... it was either 1.4 or don't bother at all.

I also do a radio show and podcast with my co-host Justin Breithaupt of mindblowingidea.com. For that reason, I have chosen the main distro for business related things: PCLinuxOS 2007. Not only does it work very well, but it also detects my media card reader, external drives (hard drive and DVD-burner), and my HP scanner/copier/printer. Finally, there is a copy of Skype 1.3 in the PCLinuxOS repositories. Thanks so much for offering an excellent publication, and may there be many more issues to come. :)

Thomas Holbrook II Founder and Editor in Chief THE *NIXED REPORT: Unix and Overlooked Pop Culture

Thank you very much, Mr. Holbrook for your inspirational letter. The staff and myself greatly appreciate when someone has found value in our labors, as do the development team. Papawoob

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from a post by Texstar http://www.pclinuxos.com/index.php?option=com_smf&Itemid=26&topic=29104.msg223220

In the summer of 2003, I became interested in LiveCD technology after looking at Knoppix and a fresh distribution from a fellow named Warren called Mepis. I was interested in helping Warren with Mepis at the time but I had no clue how to build Debian files. Coming from 5 years of packaging RPMs and not really wanting to learn a new packaging system, I happened to come across a South African fellow by the name of Jaco Greef. He was developing a script called mklivecd and porting it to Mandrake Linux. I, along with Buchanan Milne (Mandrake contributor), and a few others began working with Jaco to help debug the scripts. I got an idea to make a LiveCD based on Mandrake Linux 9.2 along with all my customizations just for fun. I had previously provided an unofficial 3rd party repository for the users of Mandrake for many years but had since parted ways. Since Mandrake was a trademarked name, I and others decided to name the LiveCD after our news site and forum pclinuxonline, thus PCLinuxOS.

Preview .3 was my first attempt to make a LiveCD. I distributed it initially to about 20 people to get their reaction and feedback. Everyone who tested it loved the LiveCD but there was one thing missing. There wasn't a way to install the thing to the hard drive! srlinuxx from tuxmachines.org came up with a novel way to copy the LiveCD to the hard drive and posted it on our forums. Jaco utilized this information and inspiration from the Mepis installer and wrote a PyQt script to make the LiveCD installable thus the birth of a new distribution.

On October 24, 2003, PCLinuxOS Preview .4 was released as a fork of Linux Mandrake (Mandriva) 9.2 utilizing mklivecd scripts from Jaco Greef, a multimedia kernel from Thomas Buckland (2.4.22–tmb) and a customized KDE (3.1.4–tex). Preview .5 through .93 were built upon on previous PCLinuxOS releases. After 3 years of updating one release from the other using the same gcc and glibc core libraries, we found too many programs would no longer compile or work properly against this aging codebase.

In November 2006, we utilized a one time source code snapshot from our friends at Mandriva to pull in an updated glibc/gcc core and associated libraries. We spent the following 6 months rebuilding, debugging, customizing, patching and updating our new code base. We pulled in stuff from our old code base, utilized patches/code from Fedora, Gentoo and Debian just to name a few. This is why you will never see me distro bashing as it would be hypocritical to do such a thing since we are still dependent in many areas on other distros development processes due to our limited but hardworking volunteer development team.

On May 20th 2007, we felt we had reached a pretty stable base and released PCLinuxOS 2007 utilizing our own kernel from Oclient1, KDE built by MDE

PCLinuxOS - A little walk down history lane

developer Ze, updated mklivecd scripts from IKerekes & Ejtr, a heavily patched Control Center, graphics from the PCLinuxOS Beautification Team and many application updates from Thac and Neverstopdreaming. Development continues as work is being done for a MiniMe release and an international DVD. A future release of PCLinuxOS will feature an updated kernel, KDE 4, fresh Xorg server and all the latest applications. All in all it has been a great ride and we have made many friends along the way. Some have gone on to other distributions and many are still here from our first release. As I've always said, we're just enjoying Linux technology and sharing it with friends who might like it too. We hope you have enjoyed the ride as well.

Here are some screenshots from some of our previous releases. (Click on the thumbnail to view the 640 x 480 image on your browser)









Preview 7 brought in KDE 3.2.3. We were still on the 2.4 kernel using devfs as udev didn't exist as yet.



Preview 8 had my favorite LiveCD boot splash with Tux in a cowboy hat and a 6 shooter. Preview 8 was a troublesome update for many as we switched to the 2.6 kernel series along with udev replacing devfs.

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PCLinuxOS - A little walk down history lane



Preview .91 brought in the 2.6.11 kernel from ocilent1, graphics from J Rangels and KDE 3.4.1









Preview .92 was probably my favorite release graphically until our 2007 release. Some of our friends said it was really pretty if you like blue! This release provided updated kernel to 2.6.12 and KDE 3.4.3.









PCLinuxOS International





by Anant Gowerdhan

I'm running a computer institute and I have new, middle and advanced users. People who know Linux very well and those who don't even know "L" of Linux. Recently I'm trying different distros. Trying a distro is always based on the reviews I read on the web. Most of the reviews are based on stability and performance but none of them I found which is meant for a normal user who is a new user in the Linux world. This time I thought, lets do it practically, give different distros to my people in the Institute and get their opinion. For this I chose Ubuntu, PCLinuxOS 2007, Dreamlinux, and Mandriva One.

The most misleading hype I got is about Ubuntu, they say that "its a replacement for Windows", "Windows users will feel they are home". I don't know why they have created such hype when it's not at all true. I agree that Ubuntu has the largest community and they are have a stable OS, but back to reality, I'm testing different distros from the normal user point of view. Users who'll like Linux and leave Windows, means it should be as easy as Windows for them. I've given each distro a day and asked everybody to do their daily work on it.

MANDRIVA ONE

A beautifully designed distro, looks pretty, and its fast and stable. My users gave me a good feedback for this distro when it comes to stability and performance, but they were not able to run websites like YouTube and some of the online News channels. They were not able to run DVDs and some of the Win32 format avi files. It is because this distro doesn't contain any proprietary software. They reported another problem that is when they click on "My Computer" they see only Linux partitions, but no Windows partitions (not even FAT32 partitions) are there, so accessing files from a Windows drive is a pain. Installing software from the repository is easy, but the repository is not very good, a normal user doesn't find Skype, Gizmo and Win32Codecs, which is proprietary software in their non free section.

So at the end my users (Normal and Advanced) both rejected it to replace windows for their personal use.

DREAMLINUX MMGL

Its a fantastic distro with lots of eye candy and full of multimedia features. It uses Debian's repository so a normal user can find everything in the repository. My users tried it for a day and they were very happy with the performance, it was 20 times faster than Windows on the same machine. Everything worked smoothly. Websites like Youtube worked out of the box, and it was supporting all the media format. There were some difficulties because XFCE works differently than

📕 Ubuntu's Hype is Misleading [Real Test]

Windows desktop (like right clicking on the desktop to change the desktop wallpaper.) Other than small issues my users were very happy with this distro, but there are a few stability issues. When they tried to run Amarok, it ran and suddenly it crashed, it happened to most of the users, I think its because KDE libs are not supported properly by XFCE. Killing a running application is also a pain, because if you press CTRL+ALT+ESC, you can kill an application which is stuck, but not when the program is stuck in memory and you don't have any GUI to work with. Some of my new users used the above key combination and when they clicked on the desktop, their desktop was gone. When they restarted, it came back.

Well the overall review of this distro was very good and 6 out of 10 users said they may think of replacing Windows on their personal laptop or home computer.

PCLINUXOS 2007

PClinuxOS 2007 is my all-time favorite and I wanted my people to test it and give me some positive feedback. When I gave it to them to test for a day, they gave me extremely strong feedback. They were able to share their Window drives and it was as fast as Dreamlinux, all the media were running flawlessly and it didn't crash in all day use. CTRL+ESC worked as good as CTRL+ALT+DELETE in Windows and in fact, it worked better than that. They found everything worked out of the box, Messenger with Video chat to Yahoo, The best CD burning program K3B and KTorrent is the best torrent tool. It was able to detect plug and play devices as good as Windows. One of my users attached his Digi Cam and his photos opened in DgigiKam. He was very impressed because for the same thing he had to install a driver plus the album software on Windows.

Well, the overall review of this distro was fantastic (as I knew) and 10 out of 10 users said they will (not may) be replacing Windows on their personal laptop or home computer immediately.

UBUNTU 7.04

Well, what is there to say about this distro? It has a hype that it's for the user who are switching from Windows. I gave it to my users for a day and the review was like this. One guy told me that "If this is what best Linux is, I'll never move from Windows because its not as user friendly as PCLOS and Dreamlinux." My 10 out of 10 users reported that it is running slower than Windows on the same machines. It doesn't support any proprietary tools or software out of the box and for many things you need to know the Linux command. It expects you to go back to the command line and do some tweaking there. The experiences of my users were not good, they said its not at all user-friendly and it's slower and doesn't act like Windows at any point. It's not a replacement of Windows. They said, "it could be a stable OS but I'll never move to Ubuntu even if it's the only distro in the Linux world." They also said that they would prefer "Mandriva One over Ubuntu 7.04 because its at least faster and it doesn't expect users to go to command line."

So overall review of Ubuntu was the worst from new user point of view and PCLOS wins here. My users say that in their opinion, Ubuntu has misleading hype, it's not for the normal user. It is for those users who knows Lnux very well and have high end systems (with over 1Gb RAM).

That ended the 4 days of testing. All of my 10 users took PCLOS LiveCD from me and they installed it on their home PCs and personal laptops. I wish Texstar & PCLOS team the best of luck for the future releases and I believe we'll be able to see some more stable, fast, and user friendly releases.





The PCLinuxOS Hardware Database



by Jerry L Kreps, aka GreyGeek

One evening a few weeks ago I was engaged in one of my favorite pastime activities: surfing the repository to read the descriptions of the applications it contains! One application raised my curiosity. It was named "ProZilla". The description stated:

A multithreaded download accelerator

ProZilla is a multi-threaded download accelerator for Linux which supports both HTTP and FTP protocols. It makes multiple connections to the server and downloads the file in portions, thus giving a much better speed rate than the conventional download programs which use a single connection. Resuming connections is fully supported and customizable.

INSTALLING PROZILLA, AND TRYING TO INSTALL ITS GUI

I installed ProZilla using Synaptic and began looking for its GUI in the menu structure. No joy. So, I ran the KDE menu update tool. Still no joy. Then it dawned on me: ProZilla didn't include a GUI. I went to the ProZilla website, http://prozilla.genesys.ro, and found a GUI there. I also noticed that development for ProZilla had essentially ceased more than three years ago on that site. The GUI offered was the Mandrake version, dated June 29, 2004. I tried to install the Mandrake version with KPackage and got an error message about missing dependencies. Despite that error message it appeared that a GUI of some sort was installed! I ran it only to find that it crashed when I directed it to an ISO file on the Internet. I removed it using KPackage, and ran "fix broken packages" just for good measure. Then I tried the static GUI rpm. A test install gave the message:

```
<ds/prozgui-2.0.4beta-static.i386.rpm';echo RESULT=$?
    file /usr/include/prozilla.h from install of
prozgui-2.0.4beta-static conflicts with file from package
prozilla-devel-2.0.4-1pclos2007
    file /usr/lib/libprozilla.a from install of prozgui-
2.0.4beta-static conflicts with file from package prozilla-
devel-2.0.4-1pclos2007
    file /usr/lib/libprozilla.la from install of
prozgui-2.0.4beta-static conflicts with file from package
prozilla-devel-2.0.4-1pclos2007
    file /usr/lib/libprozilla.la from install of
prozgui-2.0.4beta-static conflicts with file from package
prozilla-devel-2.0.4-1pclos2007
    RESULT=1</pre>
```

I used Synaptic to remove prozilla-devel-2.0.4-1pclos2007, because I had no plans to do any development on ProZilla. Then I did a test install of prozgui, which gave a "Result=0". However, alas, the ACTUAL install resulted in the message:

```
</home/jerry/downloads/prozgui-2.0.4beta-
static.i386.rpm';echo RESULT=$?
    /var/tmp/rpm-tmp.77695: line 1: fg: no job control
    error: %post(prozgui-2.0.4beta-static.i386)
scriptlet failed, exit status 1
    RESULT=1</pre>
```

No problem. I'll just uninstall it. The uninstall gave me the same message!

Uh oh! An application that won't uninstall! The RPM package was improperly built. That is a problem when one uses RPMs that are not from the PCLinuxOS repository. I usually use KPackage when installing foreign RPMs. One of the options is to run or not run the package scripts. I unchecked the scripts option and redid the uninstall. The package was removed.

RUNNING PROZ

This left me with only one way to run the program, the command line. I opened a Konsole and typed in "prozilla". I was greeted with "bash: prozilla: command not found". So, it was named "ProZilla" in the repository but is saved under a different name in the directory.

Note to New Users: I didn't enter "ProZilla" because Linux binaries are rarely named using mixed or upper case characters.

Knowing that most executable applications or scripts are usually located in a bin directory, I gave the Konsole another command:

```
[jerry@GreyGeek Laptop ~]$ locate bin/pro
/bin/procps3-kill
/bin/progress
/usr/bin/procmail
/usr/bin/profiles
/usr/bin/promisc_check
/usr/bin/protoize
/usr/bin/protoize
/usr/bin/proz
[jerry@GreyGeek Laptop ~]$
```

And there it was, the last entry! Now I needed to learn how to run it. Because I know now that it is a curses or text based program I also know that I can use the "man" pages to learn about it. I issued "man proz" in the Konsole window and started reading.

The basic command sequence I decided to use first was:

proz -v -f -s URL/to/distro.iso

where "-v" is the verbose mode, "-f" suppresses prompts on save, and "-s" does an ftp search for faster mirrors. I had seen the announcement about the PCLinuxOS Business Enterprise distro and decided to download it using proz.

Here is the command I issued:

proz -v -f -s http://pclosbe.org/BELServerBasicRC3.iso

I obtained the URL by browsing to the download directory, right mousing on the file listing of BELServerBasicRC3.iso, and selecting "Copy link location" from the pop up menu options. Then I typed in the first part of the command:

proz -v -f -s

and selected "Paste" from the Konsole "Edit" menu to form the complete command.

When I issued the command the lines in the Konsole window were re-organized and began displaying the results of the command. Here is what I saw:

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Do Faster Downloads With ProZilla!

My first result was surprising. ProZilla's web page indicated that it would improve download speeds by 200% to 300%. Since my download speed using FireFox just after I used proz was around 230Kb/s, this was almost a 330% improvement! The download time dropped from 53 minutes to 15 minutes.

I tried the same download again, this time using 20 threads. Here is the result:

Connection Server Status Received) pclosbe.org Downloading 1258; JK of 35907, 5K 2 pclosbe.org Downloading 1377; JK of 35907, 5K 3 pclosbe.org Downloading 2399; JK of 35907, 5K 4 pclosbe.org Downloading 1121; SK of 35907, 5K 5 pclosbe.org Downloading 1121; SK of 35907, 5K 7 pclosbe.org Downloading 1124; SK of 35907, 5K 8 pclosbe.org Downloading 1149; SK of 35907, 5K 9 pclosbe.org Downloading 2405; JK of 35907, 5K 10 pclosbe.org Downloading 2405; JK of 35907, 5K 11 pclosbe.org Downloading 2977, JK of 35907, 5K 12 pclosbe.org Downloading 2977, JK of 35907, 5K 13 pclosbe.org Downloading 2977, JK of 35907, 5K 14 pclosbe.org Downloading 3698; SK of 35907, 5K 15 pclosbe.org Downloading 3698; SK of 35907, 5K 16 pclosbe.org Downloading 3698; SK of 35907, 5K 17 pclosbe.org Downloading 3698; SK of 35907, 5K 18 pclosbe.org Downloading 1212, SK of 35907, 5K 19 pclosbe.org Downloading 3698; SK of 35907, 5K 19 pclosbe.org Downloading 3199; JK of 35907, 5K 19 pclosbe.org Downloading 3199; JK of 35907, 5K 19 pclosbe.org Downloading 211, SK of 35907, 5K 19 pclosbe.org Downloading 211, SK of 35907, 5K 19 pclosbe.org Downloading 213, SK of 35907, 5K 19 pclosbe.org Downloading 310, 3K of 35907, 5K 10 pclosbe.org Downloading 310, 3K of 3			turigs risip		
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The speed was at least 430% of my FireFox download time!! I'd much rather have a 12 minute download time than a 53 minute time.

I tried the download on my T3 line at work during my breaks Here are the results for several thread counts:

Number of Threads	Time	Ave Kb/s DL Speed
4 (default)	6 min 15 sec	2000
10	2 min 30 sec	4290
20	2 min 5 sec	4700
40	1 min 40 sec	6250

Obviously a T3 line is significantly faster than a 10Mb/s cable connection. Again, I'd take less than 2 minutes over 53 minutes anytime, if I could afford a T3 line.

I decided to try downloading something from another site to see the difference a site would make. I chose KNOPPIX:

proz -v -f -s -k=10 ftp://ftp.freenet.de/pub/ftp.unikl.de/pub/linux/knoppix/KNOPPIX_V5.1.1CD-2007-01-04-EN.iso

And here are the initial results, just a few seconds into the download:

			jerry@Gre	Geek: /hor	ne/jerry - Shell - Kons	sole	- + 3
Session E	dit	View	Bookmarks	Settings	Help		
Connecti	on	Serve	r		Status	Received	
1		ftp.f	reenet.de		Login Denied	0.0K of 7130	6.4K
2		ftp.f	reenet.de		Downloading	4810.8K of 7130	6.4K
-3		ftp.f	reenet.de		Downloading	5117.6K of 7130	6.4K
4		ftp.f	reenet.de		Login Denied	0.0K of 7130	6.4K
5		ftp.f	reenet.de		Downloading	4884.6K of 7130	6.4K
6		ftp.f	reenet.de		Downloading	4594.2K of 7130	6.4K
7		ftp.f	reenet.de		Downloading	4647.8K of 7130	6.4K
8		ftp.f	reenet.de		Login Denied	0.0K of 7130	6.4K
9		ftp.f	reenet.de		Downloading	5023.7K of 7130	6.4K
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Total By Current Time Rem Resume S	tes spec aini uppo	received = 1 ing 11	ved 34187 K 428.00Kb/s, Minutes 35	b (4.79%) Average Seconds	D/L speed = 976.5	55Kb/s	
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Notice that three of the threads were denied login. Later, as threads fulfilled their quota, the denied threads were allowed to login and download their segments, as shown below:

jerry@GreyGeek: /ho					me/jerry - Shell - Konsole			
Session	Edit	View	Bookmarks	Settings	Help			
Connect	tinn	Serve	r		Status	Received		
1	CLOIT	ftn f	reenet de		Downloading	20579 4K of 7130	6 4K	
5		ftp.f	reenet de		Completed	71386.4K of 7138	6 4K	
1		ftp.f	reenet de		Completed	71305 4K of 7130	6.4K	
4		ftn f	reenet de		Downloading	20040 4K of 7130	6.4K	
5		ftp.f	reenet de		Completed	71386.4K of 7136	6.4K	
6		ftp.f	reenet de		Completed	71305.4K of 7130	6.4K	
7		ftp.f	reenet de		Completed	71306.4K of 7130	6.4K	
8		ftp.f	reenet.de		Downloading	18391.7K of 7130	6.4K	
9		ftp.f	reenet.de		Completed	71306.4K of 7130	6.4K	
10		ftp.f	reenet.de		Completed	71306.4K of 7136	6.4K	
ftp://f 01-04-EM File Si	ftp.f N.1so ize =	reenet 71306	.de/pub/ftp 4K	.uni-kl.d	e/pub/linux/knop	ppix/KNOPPIX_V5.1.1CD	-2007-	
Total E Current Time Re	Bytes t spece emain	recei ed = 8 ing 2	ved 558156 92.00Kb/s, Minutes 50	Kb (78.28 Average D Seconds	%) /L speed = 909.1	13Kb/s		
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Do Faster Downloads With ProZilla!

Also notice that the initial download speed was a respectable 970Kb/s, which is about 4 times my current FireFox rate. Some threads were faster than others, sometimes by a factor of two. While testing other downloads I found that it was normal for the download speed to taper off near the end as individual threads finished their work, so ending up with a download rate of 903Kb/s isn't bad. I also noticed that the "Current Speed" could be as much as 1.5 to 2 times the average download speed. When the current speed drops below the average speed you know that the majority of threads are finished and the download is near completion.

Another comparison between a 10Mb/s cable and a T3 line

Here's the download of the 4.2 GB DVD version of Ubuntu-7.04 from my 10Mb/s account using 20 threads:

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session Eart	view Bookmarks Setti	ngs Help		
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2	mirror.mcs.anl.gov	Downloading	2627.4K of 208194.5K	
з	mirror.mcs.anl.gov	Downloading	1710.7K of 208194.5K	
4	mirror.mcs.anl.gov	Downloading	1937.3K of 208194.5K	
	mirror.mcs.anl.gov	Downloading	2784.7K of 208194.5K	
6	mirror.mcs.anl.gov	Downloading	1545.6K of 208194.5K	
7	mirror.mcs.anl.gov	Downloading	1603.2K of 208194.5K	
8	mirror.mcs.anl.gov	Downloading	2336.4K of 268194.5K	
	mirror.mcs.anl.gov	Downloading	2573.3K of 208194.5K	
10	mirror.mcs.anl.gov	Downloading	1295.3K of 208194.5K	
11	mirror.mcs.anl.gov	Downloading	1624.4K of 208194.5K	
12	mirror.mcs.anl.gov	Downloading	1303.4K of 208194.5K	
13	mirror.mcs.anl.gov	Downloading	2208.4K of 208194.5K	
14	mirror.mcs.anl.gov	Downloading	1401.0K of 208194.5K	
15	mirror.mcs.anl.gov	Downloading	1727.7K of 208194.5K	
16	mirror.mcs.anl.gov	Downloading	3008.0K of 208194.5K	
17	mirror.mcs.anl.gov	Downloading	1111.1K of 200194.5K	
18	mirror.mcs.anl.gov	Downloading	1652.7K of 208194.5K	
19	mirror.mcs.anl.gov	Downloading	1550.9K of 208194.5K	
20	mirror.mcs.anl.gov	Downloading	1849.3K of 208194.5K	
http://mirn so File Size =	or.mcs.anl.gov/pub/ubun 4163890K	tu-iso/DVDs/ubuntu/	feisty/release/ubuntu-7.04-dv	1-1386
	received 38118 Kb (0.9 ed = 655.00Kb/s, Averag ing 1 Hours 17 minutes			
Resume Supp	orted			
ESUME suppo	rted			
Shell				

The snapshot on the next page is the same download from my T3 connection:

Do Faster Downloads With ProZilla!



The download time dropped from over 1 hour and an half to under 15 minutes, which gives you a good idea about the differences between a 10Mb/s connection and a T3 line.

If I set "k=1" then proz downloads the Ubuntu DVD offering in 31 minutes and 10 seconds on the T3 line. If I use FireFox, even with 8 pipelines, I get only 483Kb/s on the T3 line and FireFox reports it will take 2 hours 22 minutes and change.

SUMMARY

Using ProZilla is a definite time saver no matter what your connection bandwidth. Occasionally ProZilla would stop downloading before completing its task and the average speed rate would gradually diminish as time progressed. I noticed this happened sometimes when I opened Snapshot on top of the Konsole window.

I googled around to see if there were other download accelerators available for Linux and discovered two more: Prosilla and Axel. Neither are in development or maintenance. Prosilla is also a command line application but has a slightly different display format, as shown by snapshots on its web page, which show ETA's on individual threads. I did not download and try Prosilla, but I did download Axel from the repository. Unfortunately, it would crash every time I ran it.

by Vivek Srivastava

If you are reading this, I will assume that you are a newbie to Linux. Now, that means that either you have bought a new computer with Linux preinstalled, or a friend of yours told you to migrate from Windows to Linux. In the second case, either you simply removed Windows and installed Linux, or created a dual-boot system (one which gives you a choice to start Linux or Windows). Whatever the case may be, you must read on further if you think yourself to be least knowledgeable about the mysterious Linux world! I'm simply saying, "Welcome to Linux".

One question that few newbies ask me is "Is Linux some form of Windows?" NO! Linux is an entire Operating System in itself. What is an Operating System? It is a set of computer programs meant to manage the hardware and software of a computer you want to run. Most of the distributions of Linux are freely available through their websites, or through CDs/DVDs. "Distributions!! What are they?" I know some of you might have had this thought. Linux is provided by many organizations, or developers. They take the Linux kernel (the core of Linux), combine it with a GUI/DE (Graphical User Interface or Desktop Environment) and other software (which is also available for free), customize and optimize the combination and make the entire combination available in the form of a Distribution, or Flavor, free of cost. This entire "free" thing is the result of hard work by many people who devote their time to make things available for us. A few famous distributions are PCLinuxOS, Ubuntu, Fedora and Debian. There are many more.

There are many Desktop Environments used by Linux Distributions. Some of them are GNOME and KDE which are large and highly customizable, or Xfce and Blockbox, which are smaller and use less resources. A few distributions offer a choice in desktop environments, while many come with a default installation of a particular desktop environment. For example PCLinuxOS comes with KDE and Ubuntu comes with GNOME.

When you boot Linux, you are, in almost all Distributions, presented with a login screen. If you installed Linux yourself, you would have chosen a root password during the installation process. Or in the other case, your vendor must have provided a root password to you. What's root? The root file system is kind of like a file drawer that all other files are in. Before discussing root, let me explain the concept of users in Linux. Linux is a multiuser system. Users can either have administrative privileges where they can do anything, or they can have the privileges of a normal user with restricted usage. Administrative users are called super users, and the built-in super user account has the username 'root'. Linux employs the concept of a home directory for each user. It is most useful for those with restricted access. It is a directory containing the files of a user over which he

has total control. Other users, barring super users, cannot alter the contents of that directory, unless specifically permitted by the owner.

Once you have logged in with the correct user name and password, open the file manager to observe the file system used by Linux. If you are, or were, a Windows user, you might be totally confused by not finding your drives (C:, D: etc.). Linux uses a different structure to store files. Your hard disk is divided into partitions, or slices. Each partition has its own file-system, or a way of storing files. File systems can be FAT, ext2, ext3, etc. Among the partitions you have is the one on which you have installed your Linux. It is called the root file system (this "root" is different from username "root"). When Linux is started, this root file system becomes the main file system of the computer (and the main directory is "/", also known as root directory). Other directories are mounted in the /mnt directory. The /bin contains binary and other executable files. The /home contains home directories of all users other than root. The /root is the home directory of root user. File permissions determine if a file is executable or not. Extension restriction is generally imposed by the application using the file.

You might have heard a few of your geek friends talking about how the real power of Unix/Linux lies in the command line. So where do you find the command line? Here comes the role of the Shell, or Terminal. The shell is a command line interface (like the old DOS) that takes command through typing. You may find the shell or terminal located in the menu of the Distribution you are using. In PCLinuxOS, go to Menu --> System --> Terminal --> Konsole to open a terminal shell. Here you can type commands to be executed. For example, use Is to list the content of a directory, cd to change a directory, and so on.

Now that you understand some of the basics of Linux, it is time to update Linux. Update helps us to keep the computer secure in many ways. Moreover, you may also want to install new software. That is why it is important to understand the concept of packages. Linux uses .deb, .rpm, etc. files to install new packages. These files are like installers in Windows. They contain the required binaries and source code to be installed on the system for particular software. A good website to find rpm files is rpmfind.net. The other method of updating your installation is through package manager like apt, yum etc. These package managers also have GUI front ends like Synaptic and KPackage. Many distributions use package managers which keep a database of all the installed versions of packages. Updating through package managers is the safest way to update and install software as they also take care of dependencies (packages on which your software depends). If you install without using package managers, you will have to manually take care of all the dependencies yourself, which can be a hectic task. Look on your distro's (short form of distribution's) website for help using the package manager on your distro. In PCLinuxOS, go to Menu --> System --> Configuration --> Packaging --> Synaptic Package Manager to open Synaptic.

A Beginner's Guide to Linux, Part 1

All said and done, we now come to a very important topic: Text Editors. Linux has many text editors present like vim (I personally never recommend it to a newbie; only mentioning it here because of its apparent popularity in the Linux community amongst advanced users), Emacs, Gedit, Kwrite and many more. For editing office documents, making presentations etc., office suites like OpenOffice, KOffice, etc. are used.

With this, we come to the end of part I of this tutorial. We will see more of this in the next issue. Till then, explore Linux as much as possible; but avoid doing so with the root account. Make a new account for yourself with restricted usage permissions unless you want to affect your installation badly (I remember my beginner's days, when I once had to install Linux seven times on a single day!).





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ACT NOW!

and help develop PCLinuxOS! Contact us for your pricing.

by Scooter

I've read a few posts in the Forum by newcomers to PCLinuxOS, who have, of course, been acquainted beforehand with Windows. They speak of becoming frustrated early on with learning how to use a new and different OS. Some elect to return to the familiarity of Windows. I have a couple of points to make for novices deciding to give up on the effort of learning Linux: a) Linux is not harder than Windows, and b) with Windows, unless you know how to "harden" and secure it properly, you and your data are in a position of serious risk.

Now this article isn't to bash Windows. I gain nothing from participating in that kind of debate. In reality, Windows is fine to use, but it needs to be secured, configured properly, and regularly maintained with security programs. Without this advanced knowledge – which takes just as much time and learning as getting to know Linux – using it is risky. A Linux install is relatively simple and quick to secure, and inherently has no such vulnerabilities. A person who has come home with a shiny new computer with Windows should know that their machine is not secure and ready to go. There is much work to be done.

My sister-in-law's recent situation is a brilliant example of this. She brought her Windows XP machine to me because her OS was in critical shape. After much effort to just get it started, I found she had a reputable firewall and anti-virus installed. Despite that, this is what I pried out of her XP: 126 Trojan viruses, 3 rootkit viruses, 389 spy-ware programs (dataminers, keyloggers) and 27 hijacks (Trojans meant to allow hijacking of the machine by a remote user). Those were just the ones I could actually find. In the end, after recovering her important files, her drive had to be reformatted and XP reinstalled.

The following week, I performed similar surgery on another person's machine. Same story. What did they have in common? Simple: both users had little or no knowledge of how to properly secure the machine and perform regular checks, or even of computers in general. Their personal data (passwords, financial info) and files may have been stolen by these infections. Indeed, their machines may even have been used by hackers for more evil purposes, all silently and without their owners' knowledge.

This doesn't happen in Linux. And that is why I recommend it for new or less (yes, I said less) technically-minded computer users.

With Linux, there is a learning curve, but it is no less than that of other operating systems. Remember the first time you were faced with Windows? I do, way back in 1990, and I was just as lost as with my first gaze at Linux in 2005.

In Windows, most peripheral devices come with driver install CD's. Spin them up

and Win easily does the rest for you. But security is up to you, and you better know it before you even plug that Internet connection in (an improperly secured Win box can get infected within 10 seconds of being connected to the Net).

In Linux, there is some simple user device configuration needed, unless you have exotic hardware, and for more difficult issues there is a huge user support base. However, security is as easy as clicking "Set Up A Firewall" in the PCLinuxOS Control Center. Since viruses and spy-ware can't be run in Linux unless intentionally made to do so by the user, or by installing compromised non-repository third-party software (both of which require more advanced knowledge), the only concern is closing up those open ports with the inbuilt firewall and not running as the Root user.

Windows has the dreaded Regedit. Linux has the Command Line, but also the man and apropos commands to explain to you in plain language how you use the commands if you're stuck.

So this is for those beginners who want to walk away. Linux is not difficult, only different from what you are used to. The frustration you feel is related to your newness, it's not the fault of the OS. Learning takes time, just as it did with Windows. Stay with it, be patient, don't let yourself get frustrated, and shortly it will all make sense. And you have peace of mind knowing that you and your data are very secure. Ten thousand plus members in PCLinuxOS alone, and many more in the other distros combined, can't be wrong. And take note that we love to jump in and help when 'New Friends' have questions or issues.

PCLinuxOS International





by Hooke

There's a wonderful tool called "remasterme" that lets you build an installable live CD or DVD from your current PCLOS system. However, there are times when you may need something more lightweight, like a list of your installed packages that you can later use to reinstall them using apt-get. Maybe you don't have a DVD burner, or you want to make several slightly different versions, and don't want to spend a DVD for each one. Another reason may be that you want to get a list of installed packages from a PCLOS .93a system and install those packages (by name, not version) in a PCLOS 2007 system.

Users of distros that have APT with the DPKG packaging system, which handles ".deb" packages (like Debian and Ubuntu) can use the commands: dpkg --get-selections and dpkg --set-selections to do the trick. PCLOS has the APT package manager, but not DPKG (it has RPM instead) and RPM seems to lack this feature. But we can do it anyway, as follows:

First, let's save the package names to a file, say, in your desktop. Open a terminal as root and type:

rpm -qa --queryformat %{name} \n > ~/Desktop/installed.log

This command tells the RPM program to query the names of installed packages, building a list with the name of each package followed by a carriage return, and then to redirect the output of this query to the file /home/yourusername/Desktop/installed.log. Of course, you can save it elsewhere. It's a text file. You can inspect it with cat ~/Desktop/installed.log or kwrite ~/Desktop/installed.log

Then, when you want to use the list, just type (as root):

apt-get -y install \$(cat ~/Desktop/installed.log)

This tells apt-get to install the result of reading the package list we just created. You can check the argument passed to apt-get by typing:

echo \$(cat ~/Desktop/installed.log). You will see all the names of the packages, separated by whitespace (the carriage returns go away), which is the way you tell apt-get to install more than one package. The "-y" option is indeed optional. It tells apt-get not to ask questions as long as nothing dangerous happens, such as trying to remove essential packages. If you want to test this command without actually installing anything, you can use the "simulate" option. Just type:

apt-get --simulate -y install \$(cat ~/Desktop/installed.log)

For more information, just type man apt and man rpm. Have fun!

by Nana Långstedt <nana.langstedt at gmail.com> Many other great articles can be found at Nana´s website, Tuxfiles.org.

There's a file called /etc/fstab in your Linux system. Learn what its contents mean and how it's used in conjunction with the mount command. When you learn to understand the fstab file, you'll be able to edit its contents yourself, too. In this tuXfile I assume you already know how to mount file systems and partitions with the mount command. If you don't, I suggest reading the Mounting tuXfile before reading this one.

WHAT IS FSTAB AND WHY IT'S USEFUL

fstab is a configuration file that contains information of all the partitions and storage devices in your computer. The file is located under /etc, so the full path to this file is /etc/fstab.

/etc/fstab contains information of where your partitions and storage devices should be mounted and how. If you can't access your Windows partition from Linux, aren't able to mount your CD or write to your floppy as a normal user, or have problems with your CD-RW, you probably have a misconfigured /etc/fstab file. So, you can usually fix your mounting problems by editing your fstab file.

/etc/fstab is just a plain text file, so you can open and edit it with any text editor you're familiar with. However, note that you must have the root privileges before editing fstab. So, in order to edit the file, you must either log in as root or use the su command to become root.

< OVERVIEW OF THE FILE >

Of course everybody has a bit different /etc/fstab file because the partitions, devices and their properties are different on different systems. But the basic structure of fstab is always the same. Here's an example of the contents of /etc/fstab:

/dev/hda2	/	ext2	defaults	11
/dev/hdb1	/home	ext2	defaults	12
/dev/cdrom	/media/cdrom	auto	ro,noauto	,user,exec 00
/dev/fd0	/media/floppy	auto	rw,noauto	user, sync 00
proc	/proc	proc	defaults	0 0
/dev/hda1	swap	swap	pri=42	0 0

What does all this gibberish mean? As you see, every line (or row) contains the information of one device or partition. The first column contains the device name, the second one its mount point, third its file system type, fourth the mount

options, fifth (a number) dump options, and sixth (another number) file system check options. Let's take a closer look at this stuff.

< 1st and 2nd columns: Device and default mount point >

The first and second columns should be pretty straightforward. They tell the mount command exactly the same things that you tell mount when you mount stuff manually: what is the device or partition, and what is the mount point. The mount point specified for a device in /etc/fstab is its default mount point. That is the directory where the device will be mounted if you don't specify any other mount point when mounting the device.

Like you already learned from the Mounting tuXfile, most Linux distros create special directories for mount points. Most distros create them under /mnt, but some (at least SuSE) under /media. As you probably noticed when looking at the example fstab, I use SuSE's mount points as an example.

What does all this mean? If I type the following command:

\$ mount /dev/fd0

my floppy will be mounted in /media/floppy, because that's the default mount point specified in /etc/fstab. If there is no entry for /dev/fd0 in my fstab when I issue the command above, mount gets very confused because it doesn't know where to mount the floppy.

You can freely change the default mount points listed in /etc/fstab if you're not satisfied with the defaults your distro has given you. Just make sure the mount point is a directory that already exists on your system. If it doesn't, simply create it.

Some partitions and devices are also automatically mounted when your Linux system boots up. For example, have a look at the example fstab above. There are lines that look like this:

/dev/hda2 / ext2 defaults 1 1 /dev/hdb1 /home ext2 defaults 1 2

As you've learned, these lines mean that /dev/hda2 will be mounted to / and /dev/hdb1 to /home. This is done automatically when your Linux system boots up... if it wouldn't, you'd have a hard time using your cool Linux system because all the programs you use are in / and you wouldn't be able to run them if / wasn't mounted! But how does the system know where you want to mount /dev/hda2 and /dev/hdb1? By looking at the /etc/fstab file of course.

< 3rd column: Filesystem type >

The third column in /etc/fstab specifies the file system type of the device or partition. Many different file systems are supported but we'll take a look at the most common ones only.

ext2 and **ext3** Very likely your Linux partitions are Ext3. Ext2 used to be the standard file system for Linux, but these days, Ext3 and ReiserFS are usually the default file systems for almost every new Linux distro. Ext3 is a newer file system type that differs from Ext2 in that it's journaled, meaning that if you turn the computer off without properly shutting down, you shouldn't lose any data and your system shouldn't spend ages doing file system checks the next time you boot up.

reiserfs Your Linux partitions may very well be formatted as ReiserFS. Like Ext3, ReiserFS is a journaled file system, but it's much more advanced than Ext3. Many Linux distros (including SuSE) have started using ReiserFS as their default file system for Linux partitions.

swap The file system name is self-explanatory. The file system type "swap" is used in your swap partitions.

vfat and **ntfs** Your Windows partitions are probably either Vfat or NTFS. The 9x series (95, 98, ME) all use Vfat (more widely known as FAT32), and the NT series (NT, 2000, XP) use NTFS. In 2000 and XP you can choose the file system type, so 2000 and XP partitions may be formatted as Vfat, too. If you want to be able to write to your Windows partitions from Linux, I suggest formatting them as Vfat, because Linux's support for writing to NTFS partitions is a bit shabby at this moment.

auto No, this isn't a file system type :-) The option "auto" simply means that the file system type is detected automatically. If you take a look at the example fstab above, you'll see that the floppy and CD-ROM both have "auto" as their file system type. Why? Their file system type may vary. One floppy might be formatted for Windows and the other for Linux's Ext2. That's why it's wise to let the system automatically detect the file system type of media such as floppies and cdroms.

< 4TH COLUMN: MOUNT OPTIONS >

The fourth column in fstab lists all the mount options for the device or partition. This is also the most confusing column in the fstab file, but knowing what some of the most common options mean, saves you from a big headache. Yes, there are many options available, but I'll take a look at the most widely used ones only. For more information, check out the man page of mount.

How to Understand and Edit etc/fstab

auto and **noauto** With the auto option, the device will be mounted automatically (at bootup, just like I told you a bit earlier, or when you issue the mount –a command). auto is the default option. If you don't want the device to be mounted automatically, use the noauto option in /etc/fstab. With noauto, the device can be mounted only explicitly.

user and **nouser** These are very useful options. The user option allows normal users to mount the device, whereas nouser lets only the root to mount the device. nouser is the default, which is a major cause of headache for new Linux users. If you're not able to mount your cdrom, floppy, Windows partition, or something else as a normal user, add the user option into /etc/fstab.

exec and **noexec** exec lets you execute binaries that are on that partition, whereas noexec doesn't let you do that. noexec might be useful for a partition that contains binaries you don't want to execute on your system, or that can't even be executed on your system. This might be the case of a Windows partition.

exec is the default option, which is a good thing. Imagine what would happen if you accidentally used the noexec option with your Linux root partition...

ro Mount the file system read-only.

rw Mount the file system read-write. Again, using this option might cure the headache of many new Linux users who are tearing their hair off because they can't write to their floppies, Windows partitions, or something else.

sync and **async** How the input and output to the file system should be done. sync means it's done synchronously. If you look at the example fstab, you'll notice that this is the option used with the floppy. In plain English, this means that when you, for example, copy a file to the floppy, the changes are physically written to the floppy at the same time you issue the copy command.

However, if you have the async option in /etc/fstab, input and output is done asynchronously. Now when you copy a file to the floppy, the changes may be physically written to it long time after issuing the command. This isn't bad, and may sometimes be favorable, but can cause some nasty accidents: if you just remove the floppy without unmounting it first, the copied file may not physically exist on the floppy yet!

async is the default. However, it may be wise to use sync with the floppy, especially if you're used to the way it's done in Windows and have a tendency to remove floppies before unmounting them first.

defaults Uses the default options that are rw, suid, dev, exec, auto, nouser, and async.

< 5TH AND 6TH COLUMNS: DUMP AND FSCK OPTIONS >

Dump and, uh, what options? Well, dump is a backup utility and fsck is a file system check utility. I won't discuss them in great length here (they would both need their own tuXfile), but I'll mention them, because otherwise you'd spend the rest of the day wondering what on God's green Earth do these things mean.

The 5th column in /etc/fstab is the dump option. Dump checks it and uses the number to decide if a file system should be backed up. If it's zero, dump will ignore that file system. If you take a look at the example fstab, you'll notice that the 5th column is zero in most cases.

The 6th column is a fsck option. fsck looks at the number in the 6th column to determine in which order the file systems should be checked. If it's zero, fsck won't check the file system.

< EXAMPLE /ETC/FSTAB ENTRIES >

As an example, we'll take a look at a couple of fstab entries that have been a source of endless frustration for new Linux users: floppy and CD-ROM (although these days floppies aren't that important anymore).

/dev/fd0 /media/floppy auto rw,noauto,user,sync 0 0

This line means that the floppy is mounted to /media/floppy by default and that its file system type is detected automatically. This is useful because the type of the floppy may wary. Note especially the rw and user options: they must be there if you want to be able to mount and write to the floppy as a normal user. If you have trouble with this, check your fstab file to see if these options are there. Also note the sync option. It can be async just as well, but it's sync because of reasons discussed a bit earlier.

/dev/cdrom /media/cdrom auto ro,noauto,user,exec 0 0

Note, again, the user option that enables you to mount the CD as a normal user. The CD-ROM has the ro option because it's no use mounting a CD-ROM readwrite because you wouldn't be able to write to it anyway. Also note the exec option. It's especially useful if you'd like to be able to execute something from your CD.

Also note that the noauto option is used with the floppy and CD-ROM. This means that they won't be automatically mounted when your Linux system boots up. This is useful for removable media, because sometimes there won't be any floppy or CD-ROM when you boot up your system, so there isn't any reason to try to mount something that doesn't even exist.

by Rifter

1. Start Kopete

2. Right-click on the Kopete icon in the kde system tray area and select configure OR if the Kopete window is open, under the settings menu, go down to configure

- 3. Once the configure menu is open, make sure accounts is selected in the sidebar
- 4. Click the New button in the accounts area
- 5. Select IRC from the list of protocols and click Next
- 6. Make sure the basic setup tab is highlighted.

7. Type in what you want to be called in channel in the Nickname box and what you want to be called if your other nickname is taken in the Alternate Nickname box.

8.Click the Connection tab

9. Click the network drop-down list, and select FreeNode

10. Click Next

11. Make sure the Connect Now box is highlighted

12. Click Finish

13. Right-click on the Kopete icon in the system tray area and highlight the new irc network name OR click on its icon in the lower right-hand corner of the Kopete window.

14. In the sub-menu that appears in either case, click on the entry Join Channel. 15. Type "#PClinuxOS" without the quotation marks into the box that appears16. Click Ok

17. Chat

PCLinuxOS International





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This guide has been modified by Papawoob to reflect the Linux distribution of PCLinuxOS 2007.

CHAPTER 8: THE WORLD WIDE WEB (WWW)

The Internet has much to offer in terms of information on almost any subject matter imaginable and interaction with people and organizations from all over the world. Much of this access and interaction make use of the environment which is popularly known as the World Wide Web (WWW) or web. The WWW is an interlinked network of systems, called web servers, offering multimedia services and information. A user can access these using what is known as web browser software.

THE MOZILLA FIREFOX WEB BROWSER

Firefox is a full-featured integrated web browser, news reader and web page composer program, and is the default web browser for PCLinuxOS 2007. Using Firefox a user can be exposed to the richness and diversity of multimedia content and services available on the WWW.

Firefox is a relatively lightweight and fast browser. The most distinguishing and advantageous feature is the sheer number (literally hundreds) of extensions (add-ons) that can be downloaded and installed. Using these add-ons; the user can personalize Firefox exactly how they want Firefox to be. For more information and descriptions of the over one thousand available add-ons take a look at http://www.firefox.com/firefox.

To start Firefox, click on the Firefox icon on the panel or launch the application from the menu system:

Main Menu -> Internet -> Web Browsers -> Mozilla Firefox



Fig. The Firefox Web Browser

By default the web browser component of Firefox will be executed and displayed. The navigation window has the following main parts by default.

the navigation toolbar the menu bar the display panel the side bar (optional)

(Firefox has many features and only a brief description of its main functionalities and features can be given here. The user should refer to the Help button on the menu bar for more details.)

THE NAVIGATION TOOLBAR

The navigation toolbar allows you to access a website by entering its Uniform Resource Locater (URL) or more informally known as its web address, e.g. http://Distrowatch.com in the address box provided. Actually you need to enter only the name of the host i.e. "Distrowatch.com" and Firefox is smart enough to figure out that you want to access the web server on that host. 0 · 0 · 0 8 0 h HTTP://DISTROWATCH.COM

Fig. The Navigation Toolbar

GOOGLE

Clicking on the arrow at the right edge of the address box will open a pull-down menu showing a history of websites visited previously. You can click on an entry in the list to select that website.

Also present on the navigation toolbar are the Back, Forward, Reload and Stop buttons.

The Back button enables you to go back to the previous web page displayed.

The Forward button enables you to go forward to the next web page that you have already accessed.

The Reload button forces Firefox to re-access the website and load the current web page.

The Stop button halts the loading of a web page that is currently proceeding.

Next to the address box in the navigation toolbar is the Search button. This button enables you to perform searches for relevant web pages on the Internet by making use of the Google search engine. To search for some particular information, you can enter the keywords for the search into the address box and then click on the Search button. As you type each letter a list of possible searches will be displayed below the search box. Quite often, what you are searching for will show up in the list before you finish typing. If so, simply click on the one you want to try. The results of the search will be displayed in the display panel. You can configure the search engine to use with this search button in the Firefox configuration setup (see Configuring Firefox below).

THE MENU BAR

FILE EDIT VIEW HISTORY BOOKMARKS TOOLS HELP

Fig. The Menu Bar

The menu bar has several menu buttons. Clicking on one will open up a dropdown menu selection where selected operations can be performed.

The File button caters to the performance of file level operations like the printing and saving of web pages, the opening of web pages, files etc.

The Edit button allows you to find strings of text on the displayed page as well as to edit the Firefox configuration to you personal preferences.

KDE Users Guide, Chapter 8

The View button allows you to control the viewing of the various toolbars as well as the zooming of text and full page display of the display panel. The HTML source code of the currently displayed page can also be viewed using the selection "Page Source" under this button.

The History button performs similar navigational functions as the navigation toolbar described earlier. A history of previously visited sites can also be accessed by this button. The menu shows a list of previously visited websites and you can click on one of these to open up the selected web page.

FORWARD	ALT+RIGHT ARROW
HOME	ALT+HOME
HELLO - GOOGLE SEARCH	
DISTROWATCH.COM PUT TH	E FUN BACK INTO COMPUTE
FIREFOX - REDISCOVER THE	WEB
POLINUXOS	
POLINUXOS	
POLINUXOS	
POUNUXOS	
POUNUXOS	
POLINUXOS	
PCLINUXOS	
SHOW IN SIDEBAR	CTRLAH

Fig. The History Pop-up Window

The Bookmarks button enables you to manage your bookmarks and personal folder. You can add frequently visited sites to the bookmark and/or personal folder. To manage and organize your bookmarks you can select the "Organize Bookmarks" item in the drop-down menu.



Fig. The Bookmark Manager Pop-up Window

The bookmarks can be organized into folders by dragging and dropping them into the desired folder. New folders can be created by clicking on the New Folder button at the top. Folders can have a name and description. To separate and group together related folders, a separator line can be drawn by selecting the "New Separator" button. The Tools button enables you to navigate and use specific tools and add ons in Firefox.

The Help button contains the Firefox help files arranged in user-friendly web page style and format.

THE SIDE BAR

Under the View button you will find an option to add a side bar. The Side Bar is displayed on the left of the main display panel. This side bar can display your History, or your Bookmarks for quicker access.

The side bar can be turned on/off by selecting from the main menu at the top,

View -> Sidebar

THE MAIN DISPLAY PANEL

This is the area where the contents of a web page are rendered and displayed. This display area can be made full screen by either selecting the View -> Full Screen selection from the top menu bar or pressing the F11 key. To disable full screen display either press F11 again or click on the "Restore" window button on the top right corner of the menu bar.

NAVIGATION TAB BAR

Firefox allows you to browse multiple websites within one browser window by using navigational tabs. This overcomes the inconvenience of opening several windows under Firefox to view multiple sites. To do this, either choose under the menu bar:

Edit -> Preferences -> Tabs -> New Pages Should Be Opened In -> A New Tab

or enter CONTROL-T.

If you open different web pages using this navigation tab feature, they will all be displayed under the same window. You can then use the tab bar to move between each tab screen.

CONFIGURING FIREFOX

Firefox is highly configurable. To configure Firefox, select from the main menu:

Edit -> Preferences



The categories available for configuration are listed on the top panel of the main configuration window as seen below:



Fig. Firefox Preferences

The **Main** tab allows you to set your homepage and where to save files that you download.

The **Tabs** tab allows you to set all the options related to tabbed browsing.

The **Content** tab lets you block pop-ups, whether you would like to have images load automatically, and java script control. You can also set your default fonts and configure how Firefox handles different file types.

The **Feeds** tab allows you to choose which feed reader to use when accessing live feeds from the Internet.

The **Privacy** tab lets you manage your History, Cookies, and Personal Data.

The **Security** tab allows management of passwords for different websites, warning messages, and whether websites are real or not.

The **Advanced** tab lets you control encryption, updates, and navigation within web pages.

EXERCISES

1. Start up the Firefox browser and visit the websites listed below. Use the navigation tab bar feature so that you open up the websites all in the same window, but under different tab pages.

www.Firefox.org www.yahoo.com

- 2. Bookmark the sites visited above.
- 3. Configure Firefox so that it starts with your preferred homepage.
- 4. Finding Information on the Internet

The Internet is a treasure house of information. Information on virtually any topic under the sun (and more!) can be found on the Internet. However, while information is easily available, it may not be so easy to find the information you want. This is because the information may be available from very many sites, often in varying details, and varying aspects of the same piece of information. To assist us in finding information more effectively, a search engine or Internet portal may be used.

Note: Information obtained from the Internet should be scrutinized carefully and not taken as "correct" in all cases. This is because due to its free flowing nature and easy means of access and creation, anyone can publish information on the Internet. As such, unless one is certain that the information is from an authoritative and reliable source, it should be verified by another source or means as far as possible.

USING A PORTAL

The term portal is used to denote a website that acts as an gateway for providing information about a subject area or group of subjects. From this portal site, information as well as links to other sites providing information about the topics in question may be found. Portals are useful starting places for new web users who do not know where and how to go and look for information about a specific topic or subject.

Many major ISPs provide portal-like information services for their subscribers so that if the latter make this their home page for their web browser, on launching their browser the ISP's portal page is opened. The subject areas covered by these ISP portals are typically subjects of general interest like shopping, local and foreign news, entertainment etc.

KDE Users Guide, Chapter 8



Fig. Home Page for an ISP

Other portals offering general information as well as links to other more subjectspecific portals and websites include:

Yahoo (www.yahoo.com) Netscape Network (www.netscape.com) Microsoft Network (www.msn.com) Angelfire (www.angelfire.lycos.com)

USING AN INTERNET SEARCH ENGINE

While portals provide a guided and categorized means to access information, sometimes we want to be more specific about the topic we want to find and portals generally are not able to provide this in a timely and efficient manner. An alternative is to utilize a search engine.

A search engine, as the name implies, allows you to query it about some specific subject and it will try to retrieve links to web pages and resources which contain information about the subject matter being queried.

The popular search engines available are:

```
Google (www.google.com)
Altavista (www.altavista.com)
Lycos (www.lycos.com)
Yahoo (www.yahoo.com)
```

There are also sites which allow you to search using more than one search engine, e.g.

Search.com (www.search.com) Easysearcher (www.easysearcher.com)

SEARCH BASICS

While each search engine will have its own technology, its utilization to perform a simple and basic search is essentially the same, irrespective of which search engine is used.

To use a search engine for basic searches, you just type in a few descriptive words about the item/subject you are searching for. It will return to you a list of links to web pages and resources which contain all the words in the query string. Note that common words like "the", "a", "how", etc. are usually ignored by the search engine unless specifically told not to. Words are also not case sensitive unless enclosed by quotation marks. To refine and narrow down your search, you will need to add more words to the search terms you have already entered. Your new query will return a smaller subset of the pages found.



Fig. A Search Engine

The basics of using current search engines is essentially keyword matching and so it is important to be able to identify appropriate keywords so that your search is more efficient and false hits are minimized. The keywords entered should be as specific as possible in order to get better results. More details on how to use each particular search engine are available on their respective websites and they should be consulted so that you can make efficient use of them.

EXAMPLE

In this section we shall show an example of how to use a search engine.

In this example, assume that we have heard from a friend that she has been diagnosed with a foot condition in which her forefoot is in pain and there is numbness as a result of poor blood circulation in one of the toes. We also remembered her telling us that the doctor named the condition as Freiberg disease, or some name which sounds like that since the telephone line was not too clear.

Initially we try entering the following keywords, "foot pain", in the search engine.



Fig. Search using Common Keywords

As can be seen from the results of the search, what we got back was very general and we need to go through each of these links to check if it contains relevant information or links to relevant information. We can narrow down the search if we are more specific about where in the foot the pain is, e.g. "forefoot pain." This will give us better results, but the list of hits is still long.

📕 KDE Users Guide, Chapter 8



Fig. Search using Relevant Keywords

If we remember that the friend mentioned that the doctor gave the name of the condition as something sounding like Frieberg disease, we can try searching for this specific term. The search results improve immediately as can be seen below and in this particular example we have found several links which are directly related to the information we want.



Fig. Refined Search using Specific Keywords

That is the end of this chapter in our journey into the inner workings of KDE and PCLinuxOS 2007. In our next chapter we will be covering all of the ins and out of Internet e-mail including how to setup an e-mail account, manage your mail, and a couple of different e-mail clients. See you next month!

by Scrap

at http://blogs.ittoolbox.com/security/investigator/archives/im-in-your-leenucks-box-changing-your-password-17600

So I've been a professor at this 'little school' for a while now. I love my job. My classes contain students from all age groups. I have a few 17 year old high schoolers that are here because they are bored during the summer. I have a few seasoned folks that have IT experience. I also have a few people that are clearly here just for the three credit hours.

The classroom is set up in a 'lab' environment. Each student has a PC in front of them that netboots linux from a central box located near my desk at the front of the classroom. This setup works great because the students come into the classroom every day, power on their PC, and they get the exact OS load and lesson they need for our session. Not to gloat, but I designed it this way and I'm the envy of a few other professors *cough* Windows instructors *cough*.

I have this one student that I'll call "Pima". Yes, that's an acronym.

Pima is one of the 17 year olds in the class and considers himself an uber-haxOr. He constantly interrupts me during my lessons trying to make valid points that are somewhere between "WHAT?" and "OMG YOU ARE NOT USING THE DEBIAN!". For those of you that listen to the podcasts and remember my story about training some folks over in another country and some dude put my kevlar vest over top his... well, let's say if we were in combat and this kid dropped his kevlar I think I'd dig a hole and bury it so he couldn't find it.

This kid has the attention span of me at a Hooters restaurant. He's always doing "something" on his PC during class. Most of the time he's constructing poorly written bash scripts and trying to download stuff from an internet connection that really doesn't exist. I didn't say he was bright, did I? Right.

One day recently we had a special Saturday class that was very lab intensive. Right before the lunch break, I informed everyone that I'd be going around to each PC and "breaking" something that they'd have to fix when they got back. Usually I do something silly like screw with their /etc/resolv.conf file, comment out some things in a service's configuration file, or some other type of fun.

During the lunch hour, I wander around and start breaking stuff. When I got to Pima's machine and I can't login to the machine as root. My little uber-haxOr had changed the root password.

[Note from Scrap: All students have the root password to their workstations as

part of their lesson]

Let's keep in mind that this kid is NOT the ripest banana in the bunch by a long shot. Let's think about this, shall we?

1) The PC neboots to an image. Changing the root password is effective for the current 'session' only. I reboot the machine, I get a fresh load. Kapisch?

2) SSH is running on all of these boxes. Did I mention that I authenticate using a certificate to all of these machines? I don't NEED the password.

3) In /etc/passwd, there's this really cool user called (and I kid you not) "backdoor". Backdoor is authorized for 'su'.

Curiosity was killing me. I tried to login as "backdoor" and sure enough it worked and I could issue commands as root. Duh.

I wandered back to my instructor workstation and ssh'd to his box as root with no problems.

I had a decision to make. Do I just reboot the machine and carry on? Or do I teach this kid a lesson?

Oh yeah, he's getting a lesson.

I whipped out my microphone from my laptop bag and plugged it into my workstation. I recorded a few choice sound files and scp'd them to his workstation in a directory I made called "/tmp/.../Imao".

I then made sure that 'sox' was installed on the workstation. It was. I ran back over to Pima's workstation and made sure that the speaker volume was turned to 75% on his speakers. Just to be a jerk I used my trusty pocketknife to pry the volume knob off of the speakers. There will be no adjusting these bad boys!

The clock said that I had half an hour left before the students returned, so I quickly returned to breaking the rest of the students' workstations.

A half hour later it was show time.

The students filed back into the classroom. Pima was five minutes late as usual.

I instructed the class not to touch their keyboards until I gave them their instructions.

After I prattled on for five minutes with the assignment I sat back down at my

L'm in Your Leenux Box Changing Your Password

workstation and acted like I was busy. I noticed that Pima had a big grin on his face after he logged into his machine with his root password. The grin said "haha you didn't break MY stuff!".

I brought up the xterm that was ssh'd into Pima's workstation and issued the following commands:

\$ cd /tmp/.../lmao
\$ play haha1.wav

At that moment a loud booming voice commanded its way from Pima's speakers:

YOU SHOULDNT HAVE CHANGED MY ROOT PASSWORD BOY!

There was dead silence in the room. Pima jumped back about half a foot from his PC.

Laughter ensued.

I glanced up from my screen and glared at Pima.

"Is there a problem? You should be working on your assignment and not goofing around."

Pima squeaked out a "It wasn't MEEEEE!"

I glanced back down at my screen and waited another few minutes.

I then issued this: \$ play haha2.wav

The class was treated to a very high-pitched chimpmunk version of "MY HUMPS! MY HUMPS! MY ITTY BITTY HUMPS!"

At this point the class was dying in laughter.

I continued with my straight man act.

"Pima, if you interrupt this class one more time I'm walking you out. Have some respect."

He sat there and didn't say A WORD.

A few more minutes go by and Pima is typing like a mad man on his keyboard trying to figure out what the heck is going on.

It was now time for "Le Finale Grande".

\$ play haha3.wav

Pima's speakers blared the following in my own God-like voice:

"ATTENTION CLASS. THIS IS WHAT HAPPENS WHEN YOU DONT PAY ATTENTION TO THE INSTRUCTOR, CHANGE YOUR ROOT PASSWORD AND COMPLETELY DISREGARD YOUR ASSIGNED WORK. THAT IS ALL."

At that moment Pima figured it out and was treated to his classmates (and me) laughing hysterically at him. He stood up, put his arms up in the air and proclaimed "YOU GOT ME. YOU GOT ME. OKAY."

Pima has been a perfect gentleman since.

He even shows up to class five minutes early every day.

I was having trouble with my computer. So I called Harold, the computer guy, to come over. Harold clicked a couple of buttons and solved the problem. He gave me a bill for a minimum service call.

As he was walking away, I called after him, "So, what was wrong?"

He replied, "It was an 'ID ten T' error."

I didn't want to appear stupid, but I nonetheless inquired, "An ID ten T Error? What's that, in case I need to fix it again?"

Harold grinned. "Haven't you ever heard of an ID ten T error before?"

"No," I replied.

"Write it down," he said, "and I think you'll figure it out."

So I wrote it down.

I D 1 0 T

I used to like Harold...

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