

Introduction to Linux

And Fedora Core

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What will be covered?

- Intended usage of Fedora Core
- Factors to consider
- Hardware support
- Familiarity with Unix-like environment

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Introduction to the movement

- Started by Richard Stallman with GNU
- Linus Torvalds got cheeky one day
- Others contributed with:
 - Perl, Python, X.org, Mozilla, OpenOffice.org, and many more packages
- Red Hat one of the first "distributions"
- Fedora is the community spin-off

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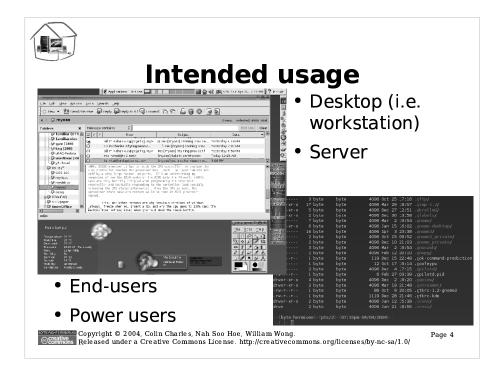
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- To learn more about the GNU's Not Unix (GNU) movement, you can read more at http://www.gnu.org/.
- The history of Linux in general is written out very nicely at Linux International (http://www.li.org/linuxhistory.php)
- Linux Journal, in 2002, wrote up a fairly accurate time line of Linux-based history at http://www.linuxjournal.com/article.php?sid=6000.
- Remember, Linux itself is just a kernel (http://www.kernel.org/) a
 distribution is what makes Linux usable for the average user.

Red Hat & Fedora

- Red Hat Linux has become very popular, and one of the first distributions to survive all the years. They always provided a free download-able copy, with no support.
- To avoid confusion (it was basically a marketing decision), the Fedora Project was created.
- A history of Red Hat releases: http://fedora.redhat.com/about/history/
- Good set of objectives, only for high quality software to be included: http://fedora.redhat.com/about/objectives.html.



- Linux scales be it if you need to be using it on the desktop as a complete end-user for a simple task as reading e-mail, or if you want to run a server that will serve an entire company their e-mail!
- This course is designed for end-users and managing end-users, and will not cover administering your system or even running services.
- So, notions that Linux is console-based (i.e. text) alone isn't very useful any longer we have very good graphical environments that users find very easy to use.



Factors to consider

- New user?
- Migrating user?
 - Microsoft Windows environment?
 - Mac OS X or Classic environment?
- Different tools to achieve similar tasks
 - Know how to use a word processor, rather than using a word processing application
 - Principles are similar

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- Usability studies have shown that it's no harder to master a Linux-based desktop than it is to learn Windows XP. So if you were a new computer user with no prior knowledge, it's all going to be a genuine learning curve.
- If you or your users are upgrading, there are some good articles that will benefit.
- IBM's Windows to Linux series: http://www-106.ibm.com/developerworks/linux/library/l-roadmap.html
- Tom's Hardware Guide Migration: http://www.tomshardware.com/howto/20040329/index.html
- Linux pre-installation checklist: http://members.tripod.com/~algolog/lnxchk.htm



Hardware Support

- Sound cards
- Video cards
- Winmodems
- Printers
- Scanners
- USB devices
- CDROM drives, NIC cards, are generally no problem
- Device drivers are required

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- In terms of requirements, Linux generally likes averagely new hardware. Minimum requirements of a Pentium II class processor, with at least 64MB of RAM and about 2.5GB of hard disk space would be appropriate – but for comfortable usage, at least 128MB of RAM must exist (256MB and above better), with more disk space so that all the other packages can be installed.
- A good place to check for hardware compatibility is the Red Hat Hardware Compatibility List at http://hardware.redhat.com/hcl/.
- Most sound cards work out of the box, as do video cards Nvidia make their own drivers for video cards (these are proprietary binary only modules). Winmodems are also supported but downloading drivers might be necessary.



Familiarity with a Unixlike environment helps

- Used Unix before?
 - This is the command line interface
- We have many available applications in the default distribution, to achieve things in the GUI
- Many things done quicker & easier via scripts

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- Tuxfiles has a CLI introduction: http://www.tuxfiles.org/linuxhelp/cli.html
- Mandrake Linux Command Line reference: http://www.mandrakeuser.org/docs/mdoc/ref/cmdline.html
- Linux Shell Scripting Tutorial: http://www.freeos.com/guides/lsst/
- And there are many more...



Thank You!

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http://training.bytebot.net/linux/

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