



UNIX, Linux and Ubuntu

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- UNIX
 - History
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 - History
 - Distributions
 - Differences
 - Examples

Preview (2)



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- The UNIX Operating System (OS) is a large program (mostly coded in C) that turns the computer into a useable machine.
- It provides a number of facilities:
 - management of hardware resources
 - directory and file system
 - loading / execution / suspension of programs

History of UNIX



- 1969 First UNIX at Bell Lab
- 1975 Bell Labs makes UNIX freeware
- 1970's Berkeley UNIX (BSD)
- 1980's TCP/IP, MIT X-Windows
- 1990's The Web, Linux
- UNIX nowadays is a "standard".



- Linux is the most frequently heard FOSS buzzword in the mass media today.
- Linux also known as GNU/Linux.
- Linux is a UNIX-like Operating System.
- Linux aim to provide maximum compatibility with other systems.

History of Linux



- Started by Linus Torvalds in 1991.
- Started as a hobby/learning experiment since Linus found DOS inadequate and UNIX expensive for his i386 machine

Distributions



- Linux is the kernel.
- Distributions = Kernel + Applications + Branding.
 - Select, compile and package applications
 - Test
 - Provide Installer
 - Technical support: phone, email, web

Differences in distros



- Packaging
- Support
- Price
- Supported architectures
- Target customers

Popular Distributions



- Debian
 - Ubuntu
- Redhat
 - Fedora
- Slackware
 - SUSE

Debian



- 1993 by Ian Murdock
- "Debbara" + "Ian" = Debian
- 100% Free Software
- 15,000 Packages
- 1,000 Official Developers

Debian Advantage



- Support many CPU architectures
- Many packages
- All Free Software
- Package Management (apt-get)
- Very Stable for Server

Debian Disadvantage



- Difficult to use/install
- Not for Desktop
- Very Slow Release Cycle
 - (Debian 3.0 Woody – July 2002)
 - (Debian 3.1 Etch – July 2007)



- Ubuntu is an African word.
- Meaning 'Humanity to others', or 'I am what I am because of who we all are'.

Ubuntu Policy



- Based on Debian Sid
- 6 Months Release Cycle
- 18 Months Support
- Desktop User (Gnome)
- Chosen Applications
- Single CD

Ubuntu Derivatives



- Kubuntu - Ubuntu with the K Desktop Environment
- Edubuntu - Ubuntu for Education
- Xubuntu - Ubuntu with the XFCE desktop environment
- Ubuntu Server Edition - Ubuntu for Servers

Why Ubuntu?



- There are no virus.
- Easy to install by only 7 steps.
- Your system won't crash so often.
- Faster system.
- You will save money.
- You will be cool.

Resource



- Grid Beginner, ThaiGrid
- <http://www.slideshare.net/Tshare/linux>
- <http://www.slideshare.net/markpeak/ubuntu>



Q&A