Debian/GNU Linux Introduction II.

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Károly Erdei — Debian/GNU Linux

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1 File management

2 Editing

3 X Window

4 KDE

Agenda

1 File management

2 Editing

3 X Window

4 KDE

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File and directory management Commands and File Managers

using a terminal window (on a command line)

- create directory: mkdir -v -m 755 directoryname ...
- create, remove: mkdir directory; rmdir directory;
- touch file; rm file
- cp file1 file2; mv file1 file2; mv directory1 directory2
- change permissions
- create symbolic links (for files, directories)

File and directory management Commands and File Managers

using a GUI, i.e. a File Manager

- there are a lot of file managers in Debian
 - get list with grep "file manager " lenny-packages.txt
 - check them for features, looks, etc.
- some of them: konqueror, bsc, mc, filerunner, xfe

```
hades:sysadmin!16> man -k "file manager"
filerunner (1) - simple and efficient file manager with FTP
fr (1) - simple and efficient file manager with FTP
gnome-commander (1) - A GNOME file manager
konqueror (1) - Web browser, file manager, ...
nautilus (1) - the GNOME File Manager
hades:sysadmin!17>
```

File managers in details I

File Managers

- bsc: BeeSoft Commander
 - graphical file manager with two panels
- mc: midnight commander
 - a powerful file manager
- filerunner:
 - X-Based FTP program and file manager, very powerful
- xfe: X file explorer
 - a lightweight file manager for X11, like Windows Explorer
- konqueror:
 - advanced file manager and the central unit in KDE
 - a web browser, document viewer, application starter
 - Desktop configurator, etc.

File Managers BeeSoft Commander

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File Managers xfe - X File Explorer

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File Managers xfe - X File Explorer

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Konqueror - Start window



Konqueror - Configuration Behavior

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Behavior	You can configure how Konqueror behaves as a file manager here
Appearance	 Open folders in separate windows Show network operations in a single window Show file tips Show previews in file tips Rename icons inline
Dile Associations	Home <u>U</u> RL: ~
Web Behavior	Show 'Delete' context menu entries which bypass the trashcan Ask Confirmation For Move to trash
Java & JavaScript	■ Move to trasm X Delete
AdBlocK Filters	
Help Defaults	Cancel Apply Cancel

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Konqueror - Configuration File associations

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Behavior		General Embedding
Appearance	Known Types	Filename Patterns *.pdf *.PDF Remove
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ی Web Behavior		Application Preference Order Adobe Reader Add
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Fonts		
8 Web Shortcuts		
	Add <u>R</u> emove	L'
Help Defaults		OK Apply Cancel

Konqueror - Configuration Plugins

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Web Shortcuts	Configure the browser plugins	
	Global Settings	
	Enable plugins globally	
History Sidebar	Only allow HTTP and HTTPS URLs for plugins	
📥 👘 👘	Load plugins on demand only	
Cookies	CPU priority for plugins: highest	
Cache		
Cache	Domain-Specific Settings	
No. of the second secon		
Proxy		
CSS	Scan Plugins	
Stylesheets	Scan for New Plugins	
0	□ Scan for new plugins at KDE startup	
	- Scan Folders	
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<u> </u>	<u>New</u>	
Browser Identification	\$HOME/.netscape/plugins	
	/usr/lib/browser-plugins	
Plugins	/usr/lib/browser-plugins /usr/local/netscape/plugins	
	/opt/mozilla/plugins	
🚿 🖣		
Performance		
Help Defaults	OK Apply Cancel	

Agenda

1 File management

2 Editing

3 X Window

4 KDE

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Editing function in Linux

Editing

- what kind of object do we want to edit
 - text file, audio file, jpeg image file, etc.
 - cd, dvd contents
- dozens of editor are available
 - check them with grep editor lenny-packages.txt
 - 236 lenny packages, with 'editor'
- general purpose text editors of different power
- special editors for specific objects
 - audacity, gimp, kguitar, xfig
 - K3B CD/DVD creator

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Office suites

Suites

- Open Office (OO)
 - oowriter (Word processor)
 - oocalc (Spreadsheet)
 - ooimpress (Presentation)
 - oodraw (Drawing)
 - oobase (Database), oomath (Equation editor)
- K-Office (KDE Office suite)
 - kwriter
 - kspread
 - kpresenter
 - kformula, kthesaurus, etc.

Text editors

- ed: The classic Unix line editor
- vi: historical times, but very powerful
- gvim: emacs-like, very powerful (www.vim.org)
- emacs: very powerful
- axe, nedit
- kedit, gedit: basic editors 4 KDE,GNOME
- kate: advanced text editor for KDE
- bluefish: html, php, etc
- conglomerate: XML editor
- kile: KDE Integrated LaTeX Environment
 - Latex Editor (XP: TexnicsCenter)

```
File management Editing X Window KDE
Text editors
vi
vi modes: command mode, editing mode
```

change to command mode: ESC from editing

command mode

- file: read: :e file; write: :w file reread: :e! file; insert: :r file
- file: exit: :q, ZZ; starting vi: vi filename;

change to edit mode

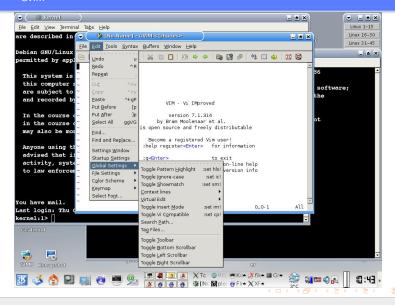
i - insert text; a append text to line;

editing commands

5yy - mark 5 lines; **p** insert marked lines; **r**2w - replace two words;

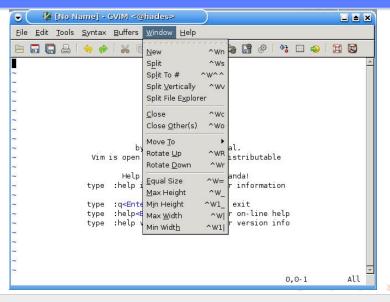
advantage of vi for emergency case:

- you can always connect to Linux computer by ssh
- you can always use vi in the terminal window

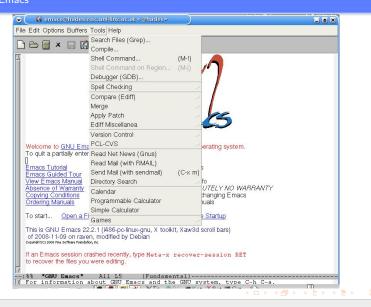


Text editors

Gvim







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recover-session RET	to recover the files you were editing.	:%% *GNU Emacs*	All L5 (Fundamental)		

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	Apply Backlighting		Csh Fortran	
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Text editors Kate - KDE advanced text editor

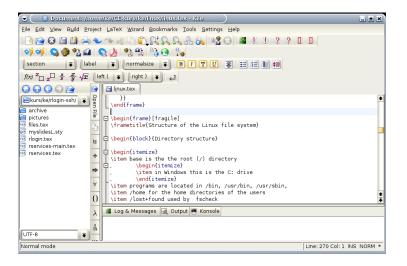
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Text editors Bluefish - html, php, etc. edito

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Text editors Kile - KDE Integrated Latex Environment



Special editors For object types

Object Editors

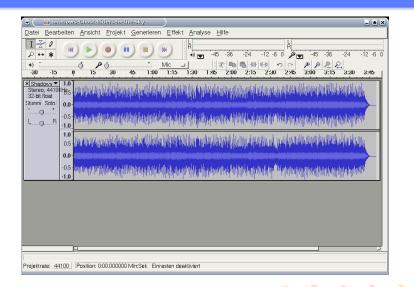
audacity: a fast, cross-platform audio editor

- audio recorder, converter, audio file manipulator
- Linux, Windows, Mac versions available
- dia: diagram editor
- etktab: ASCII guitar tab editor
- kguitar: Stringed instrument tablature editor KDE
- pixmap: a pixmap editor
- GIMP: the Gnu Image Manipulation Program
- K3B: the KDE CD and DVD creator

Special program - ksnapshot

to create screen shots about different parts of the screen

Object Editors - Audacity



Object Editors _{Kguitar}

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Object Editors - K3B CD-DVD creator



Special program - ksnapshot screen shot creator

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Agenda

1 File management

2 Editing

3 X Window

4 KDE

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X Window System The X-Server

X Window System

- X-Windows, Version 11: X11 today: X.org
- Developed in 1984 at MIT
 - supported by DEC, HP, SUN, IBM
- Network-based graphics window system for Unix
- Uses the multitasking function of Unix
- A client-server model

X server

- runs on a host (in the network)
- controls the display (=graphics card) and keyboard/mouse
- binds to the D-K-M (in contrast to XVNCServer)
- intermediator between X-clients (applications) and D-K-M
- accepts client connections from local host (remote host)

X Window System The X-client

X client

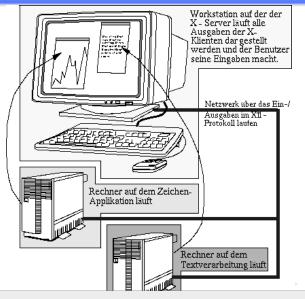
- connects to the X-server, to display its GUI
- most important X-clients
 - the X Window Manager; Xterm the terminal emulator
- name begins with x (xterm, xclock, xcalc, etc.)
- any window on the screen is an X-client !

Networking feature of X-Window system

- host runs an X-server
- any X-client executed on the host connects to X-server
- any X-client executed on a remote host can connect to the X-server
 - it displays its GUI on the remote server !
- client and server (may) run on different hosts

Seperation between where a program runs and where its display is!

X Window System X11 scenario



X Window System Some components

Display Manager

- displays the graphical login window ("login manager")
- after successfull authentication starts an x-session
- restarting the display manager (Ctrl+Alt+Backspace)
 - finishes all programs in the session (new login window)

X Window Manager

- provides the frame around a window with its functions
- responsible to move, resixe, minimize, maximize, close any window
- responsible for the pointing device input
- provides part of GUI: look and feel; lot of WM; grep for it

X terminal emulator

- a window that functions as a standard terminal
- xterm the first version; try, use: gnome-terminal, konsole

Agenda

1 File management

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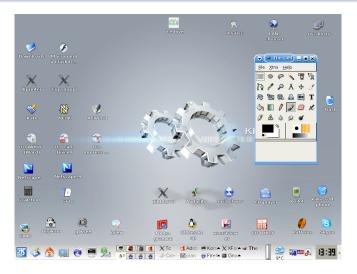
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The KDE Desktop, details

Desktop KDE

- KDE is a very big, powerful system (desktop environment)
- explore the KDE menu Application tree
- explore the KDE Application Debian tree
- customizing the menu bar
 - adding new applications and applets
 - virtual desktops
- creating desktop icons
- learn the KDE Control Center
- learn the KDE components
- learn the Help in KDE

My KDE Screen

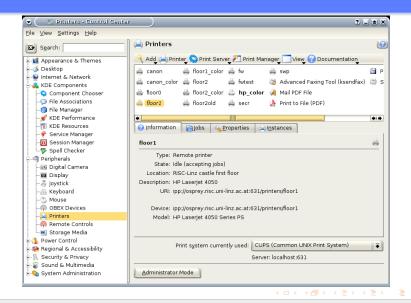


The KDE Control Center

Main KDE components:

- Desktop (Multiple Desktops)
- Internet and Network
 - bluetooth, WLAN, Samba
- KDE Components (File Association)
- Peripherals (Display, Keyboard, Printers, etc.)
- Power Control (Laptop Battery)
- Regional settings
- etc: Security, Sound, System Administration

KDE Control Center - Printer



KDE Control Center - Service Manager

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Search:			
Appearance & Themes	Service Description	Status	
S Desktop		Status	
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KDE Components		Running	
🤪 Component Chooser	KDED KMRML Daemon Watcher Starts daemons on demand and resta		
💬 File Associations		Running	
- 🧐 File Manager		Running	
- 🖋 KDE Performance		Not running	
🛐 KDE Resources		Not running	
- 🖗 Service Manager	have the second state of t	numera li	
🔟 Session Manager	- Startup Services		
🍄 Spell Checker	Use Service Description	Status	
Peripherals	DNS-SD Services Watcher Keeps track of DNS-SD services and		
📧 Digital Camera	KDED Home Base URL Notifier		
🖬 Display		Running	
🕹 Joystick	KDED Media Manager Keep track of media activities and all.		
🔠 Keyboard	KDED Remote Base URL Notifier	Running	
- 🖄 Mouse	KDED System Base URL Notifier	Running	
- @ OBEX Devices	KDE Internet Daemon An Internet daemon that starts netw.		
- 🚔 Printers	KDE Write Daemon Watch for messages from local users.		
Remote Controls	KMilo KDE special key notifier	Running	
- Storage Media	Media Notifier Daemon A media plugged notifier	Running	
Power Control	Network Status Daemon Tracks status of network interfaces a.	Running	
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KDE Control Center - Security and Privacy

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End of Overview

Thanks for your attention !