

installatie **Kubuntu LINUX**

(naast bestaand Windows™)

hcc Venlo 6 mei 2008

Wat gaan we doen?

(een overzicht)

Wat gaan we doen?

1. hardware verkennen (BIOS en Knoppix)

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- 2. veilig stellen van het Master Boot Record**

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- 4. Kubuntu Live-CD starten**

Wat gaan we doen?

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- 5. Kubuntu 7.10 installeren**

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 7. aanvullende software installeren
- eventueel:**
8. Kubuntu deïnstalleren
 9. herstellen MBR met Knoppix

Wat is noodzakelijk?

G E D U L D

spooj dich langzaam...gebroek diene kiebus

Wat gaan we doen?

1. hardware verkennen (BIOS en Knoppix)

Wat gaan we doen?

1. hardware verkennen (BIOS)

'piep' [Pause] -knop

Wat gaan we doen?

1. hardware verkennen (BIOS)

'piep' [Pause] -knop

daarna: snel 2 x

naar bios-settings: [Del] of [F2] of [F10] o.i.d.



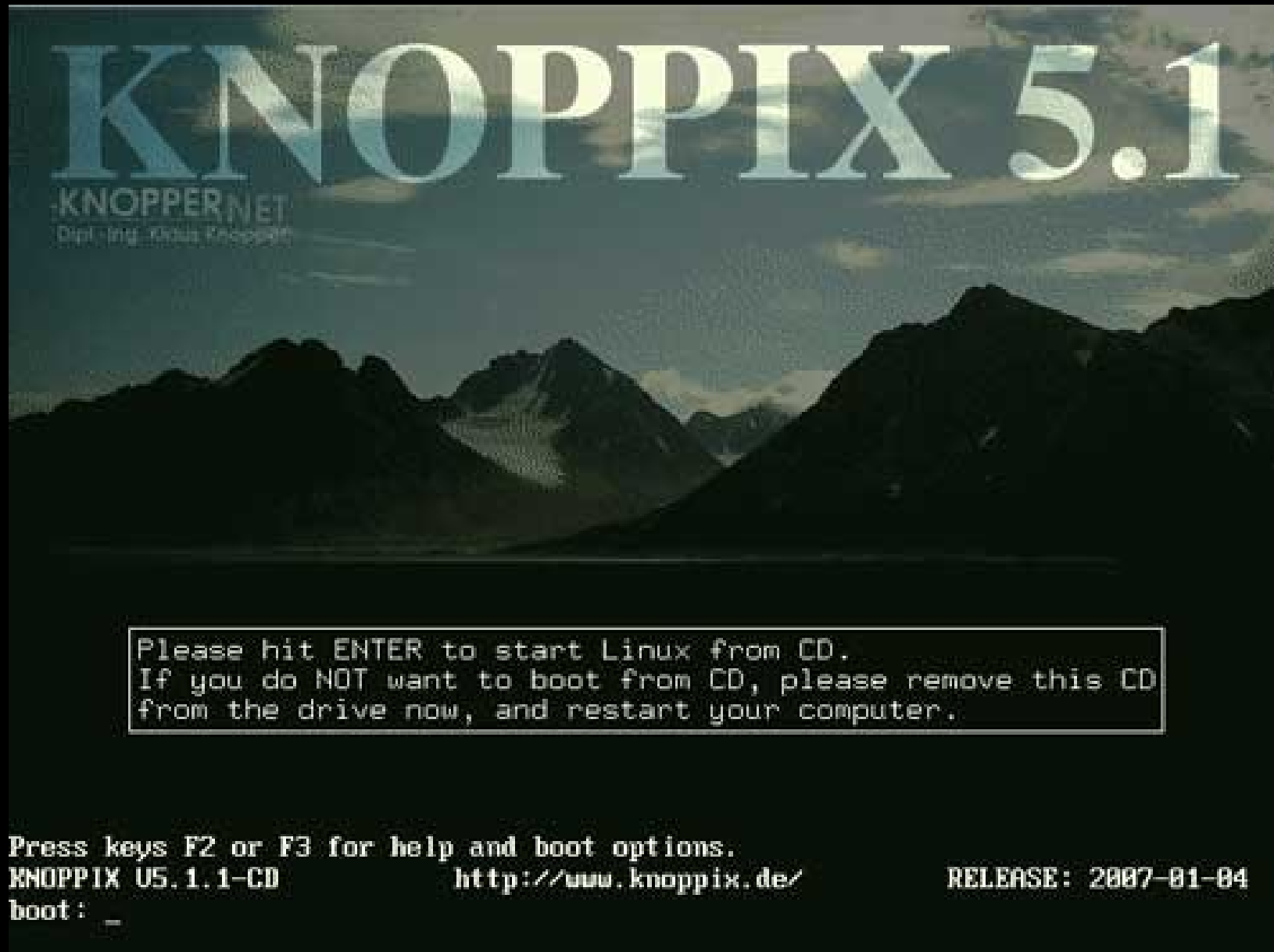
KNOPPIX Live CD

d.w.z.

pc opstarten vanaf cd (F8 of F11 of F12 o.i.d.?)



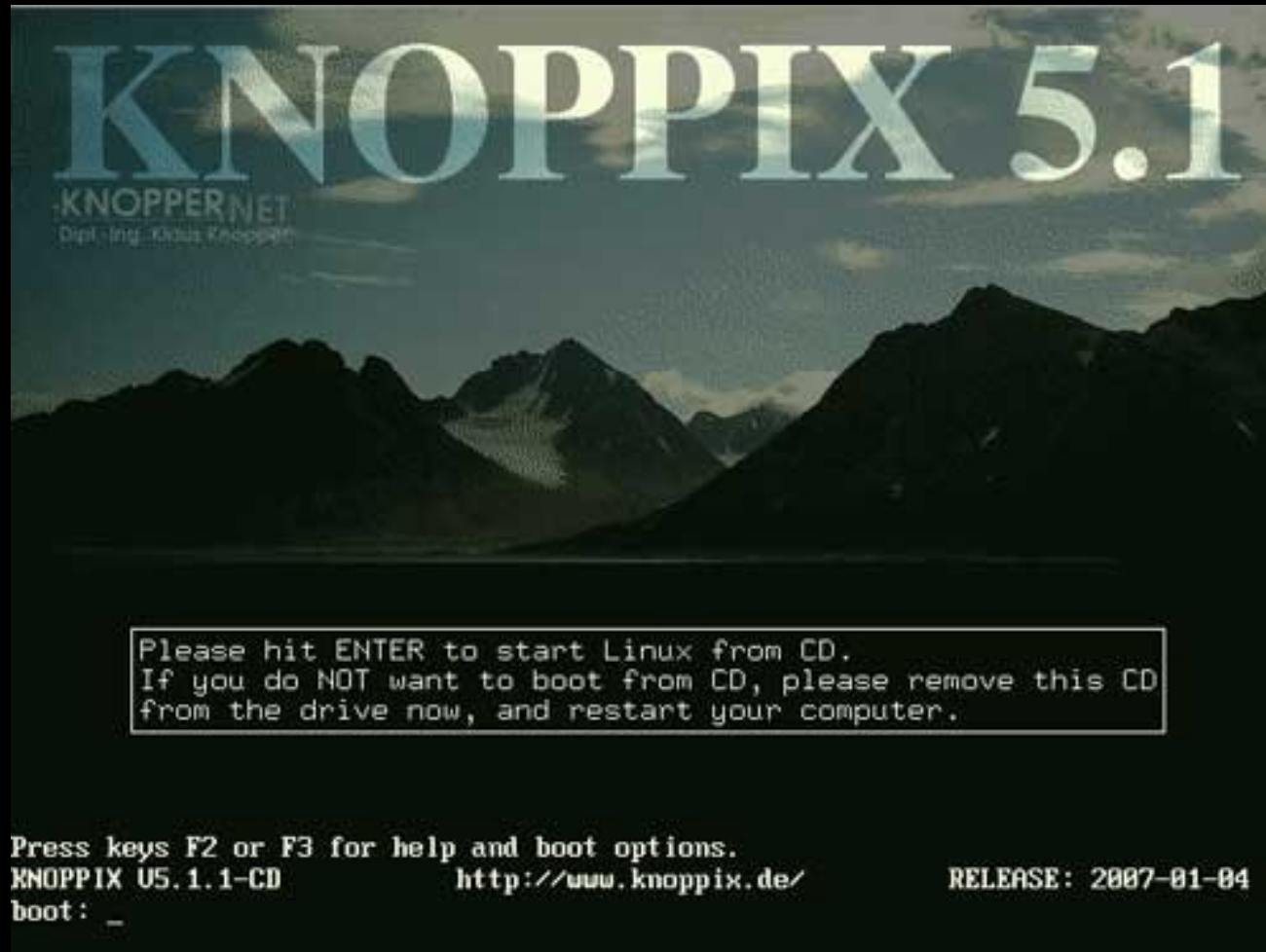
na pc opstarten vanaf cd (F8 of F11 of F12 o.i.d.?)



Please hit ENTER to start Linux from CD.
If you do NOT want to boot from CD, please remove this CD
from the drive now, and restart your computer.

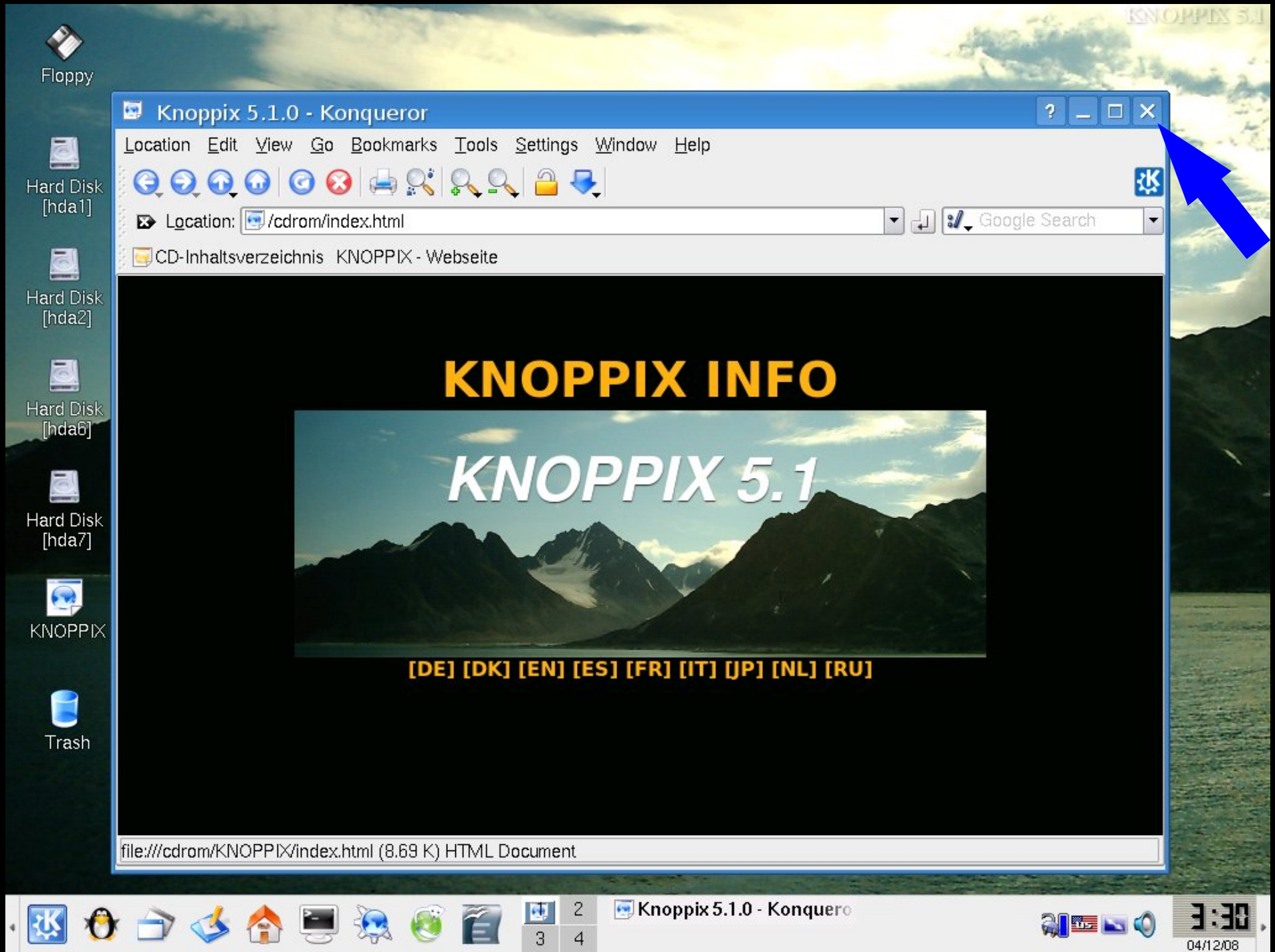
Press keys F2 or F3 for help and boot options.
KNOPPIX US.1.1-CD <http://www.knoppix.de/> RELEASE: 2007-01-04
boot: _

als Knoppix bleef hangen: RESET



boot: knoppix noapic [Enter]

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Wat gaan we doen?

1. hardware verkennen (met Knoppix)

[Ctrl]+[ALT]+[F1]

Wat gaan we doen?

1. hardware verkennen (met Knoppix)

[Ctrl]+[ALT]+[F1]

videokaart (graphics adapter)

monitor resolutie (Hor + Ver)

netwerkkkaart

etc.

Wat gaan we doen?

1. hardware verkennen (met Knoppix)

[Ctrl]+[ALT]+[F1]

terug:

[Alt]+[F5]

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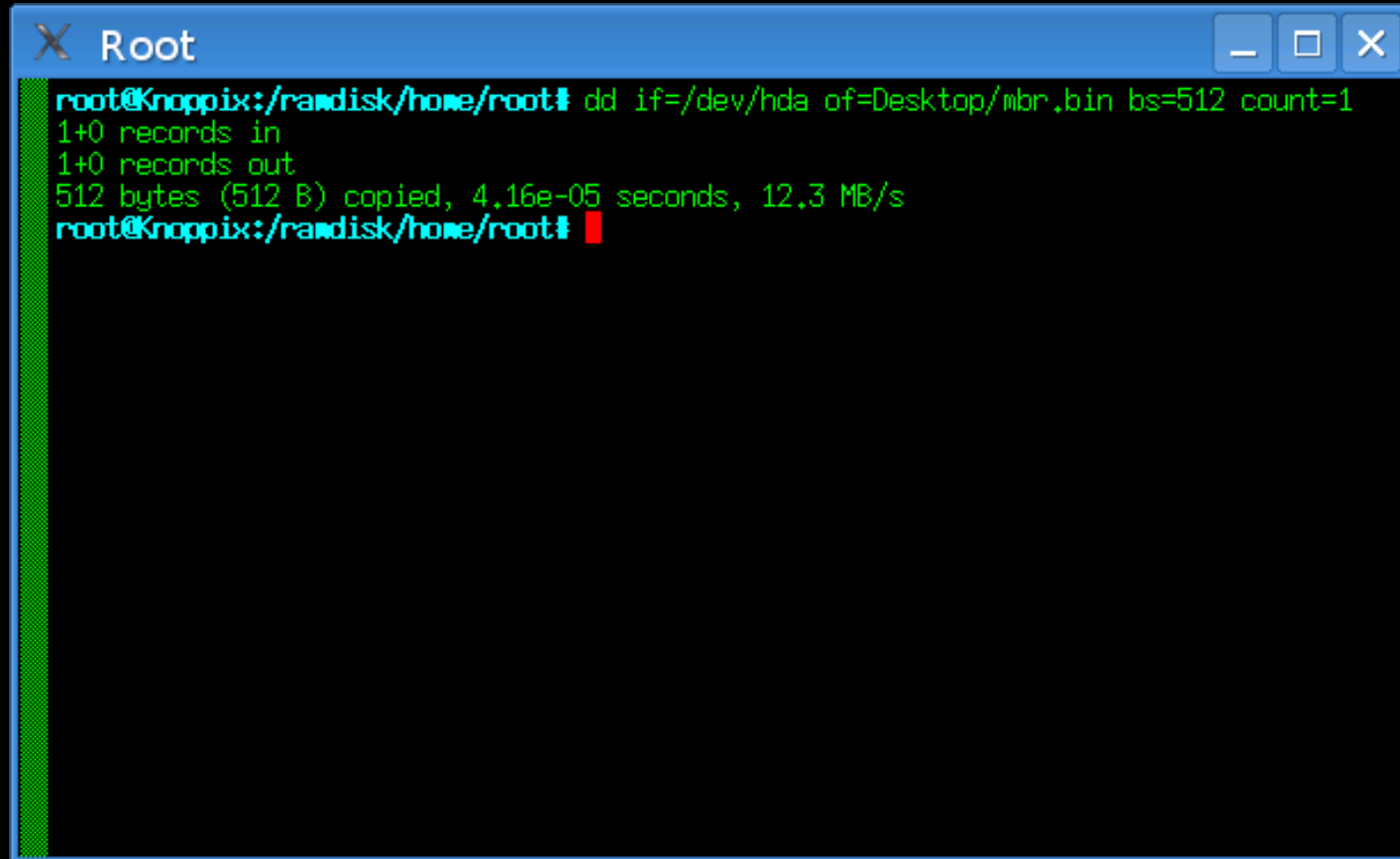
Knoppix desktop met menu

Wat gaan we doen?

1. hardware verkennen (BIOS en Knoppix)
- 2. veilig stellen van het Master Boot Record**

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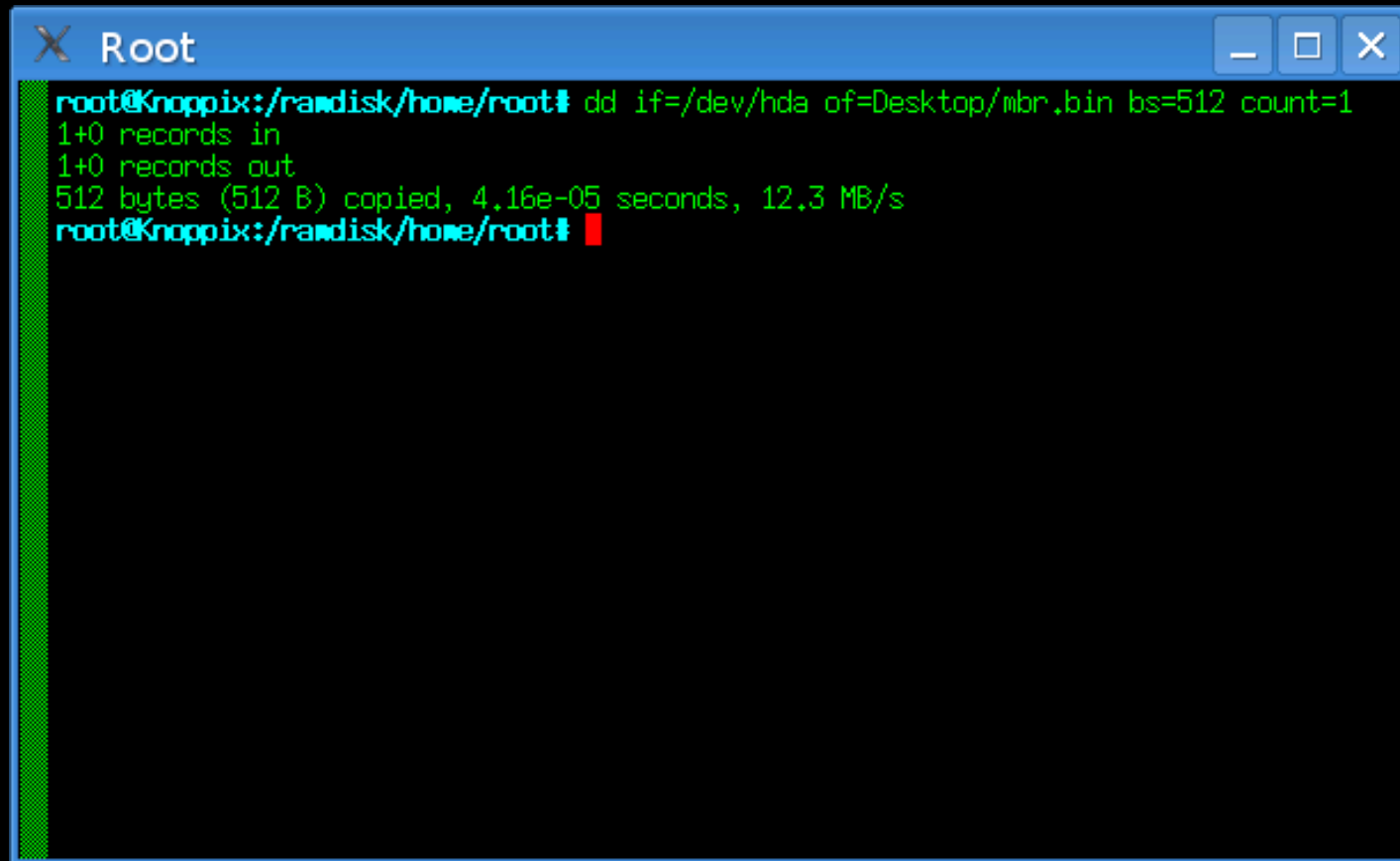




```
Root
root@Knoppix:/raidisk/home/root# dd if=/dev/hda of=Desktop/mbr.bin bs=512 count=1
1+0 records in
1+0 records out
512 bytes (512 B) copied, 4.16e-05 seconds, 12.3 MB/s
root@Knoppix:/raidisk/home/root#
```

Kopiëren Master Boot Record

dd if=/dev/hda of=Desktop/mbr.bin bs=512 count=1



```
Root
root@Knoppix:/rawdisk/home/root# dd if=/dev/hda of=Desktop/mbr.bin bs=512 count=1
1+0 records in
1+0 records out
512 bytes (512 B) copied, 4.16e-05 seconds, 12.3 MB/s
root@Knoppix:/rawdisk/home/root#
```

Kopiëren Master Boot Record

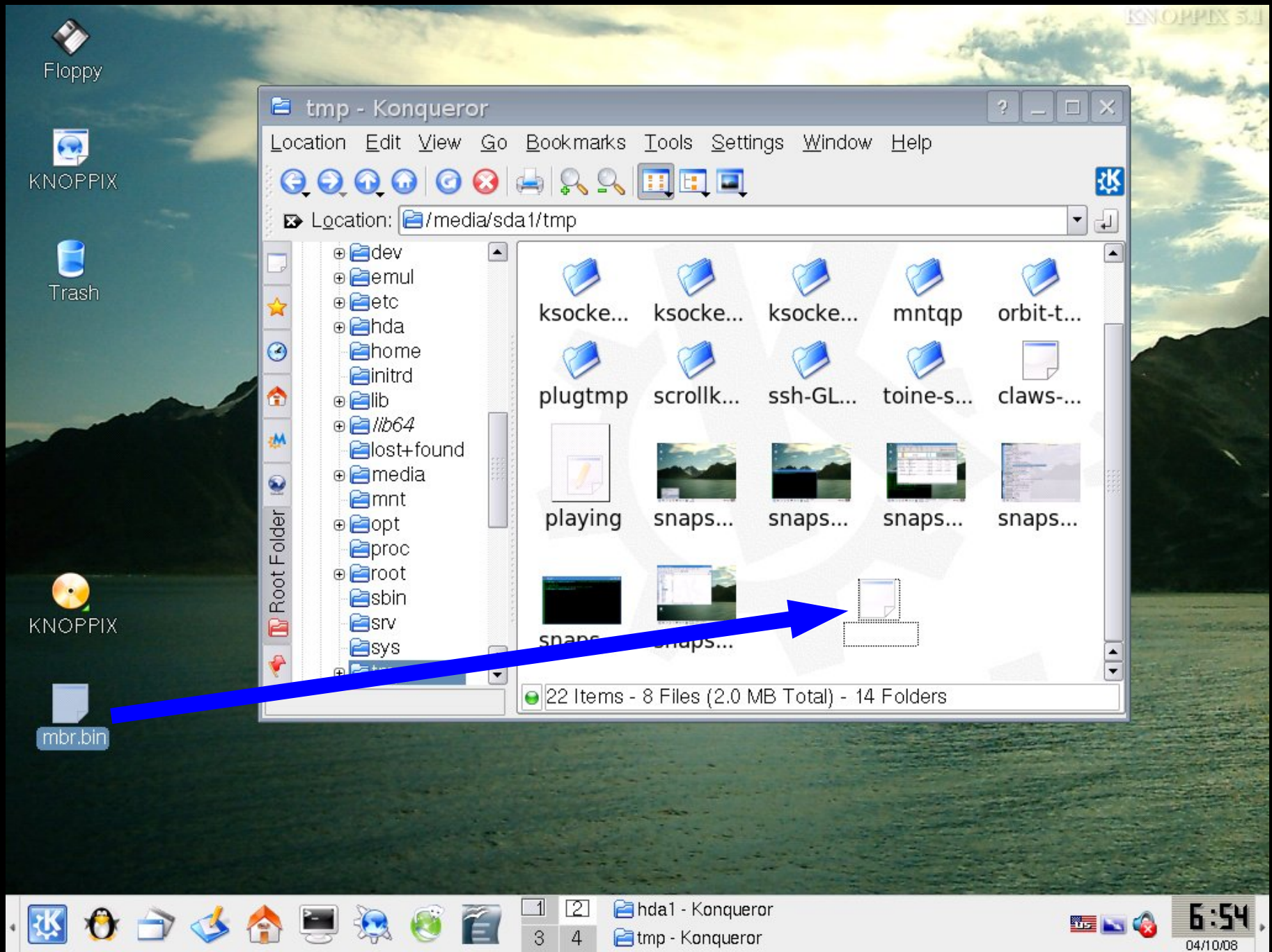
```
dd if=/dev/hda of=Desktop/mbr.bin bs=512 count=1
[Enter]
```

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KNOPPIX 5.1.1

The screenshot shows a Linux desktop environment with a background image of a landscape. On the left side, there is a vertical dock containing icons for Floppy, Hard Disk [hda1], Hard Disk [hda2], Hard Disk [hda3], Hard Disk [hda4], Hard Disk [hda5], KNOPPIX, and a Trash icon. A blue arrow points to the Hard Disk [hda4] icon. A context menu is open over this icon, listing the following options: Open, Cut (Ctrl+X), Copy (Ctrl+C), Rename (F2), Move to Trash (Delete), Delete (Shift+Delete), Open With..., Actions, Unmount, Change read/write mode (highlighted), Compress, Copy To, Move To, and Properties. In the center, a Konqueror window titled 'toine - Konqueror' is open, displaying the directory '/media/hda7/toine'. The window's address bar shows the location. The main pane shows a file manager view with icons for folders (bin, Desktop, Downlo...) and files (kubunt..., mbr.bin, snapsh..., snapsh...). The status bar at the bottom indicates '17 items - 4 Files (7.4 MB Total) - 3 Folders'. The taskbar at the bottom contains several application icons, including the system menu, a penguin icon, a mail icon, a document icon, a home icon, a terminal icon, a network icon, a volume icon, and a system tray with a clock showing 3:35 and the date 04/12/08.

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installatie **Kubuntu LINUX**

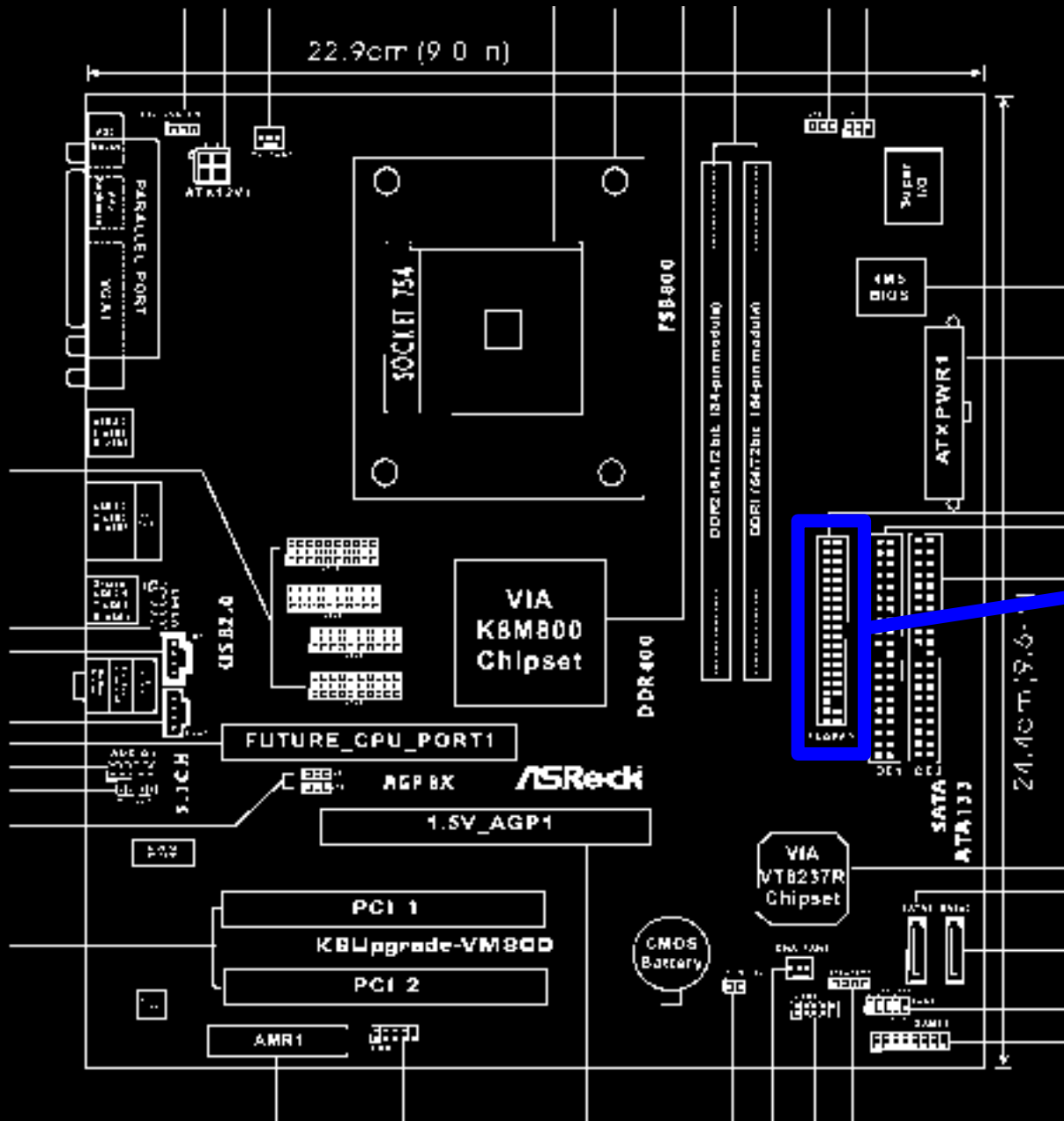
achtergrondinformatie

hcc Venlo 6 mei 2008

installatie **Kubuntu LINUX**

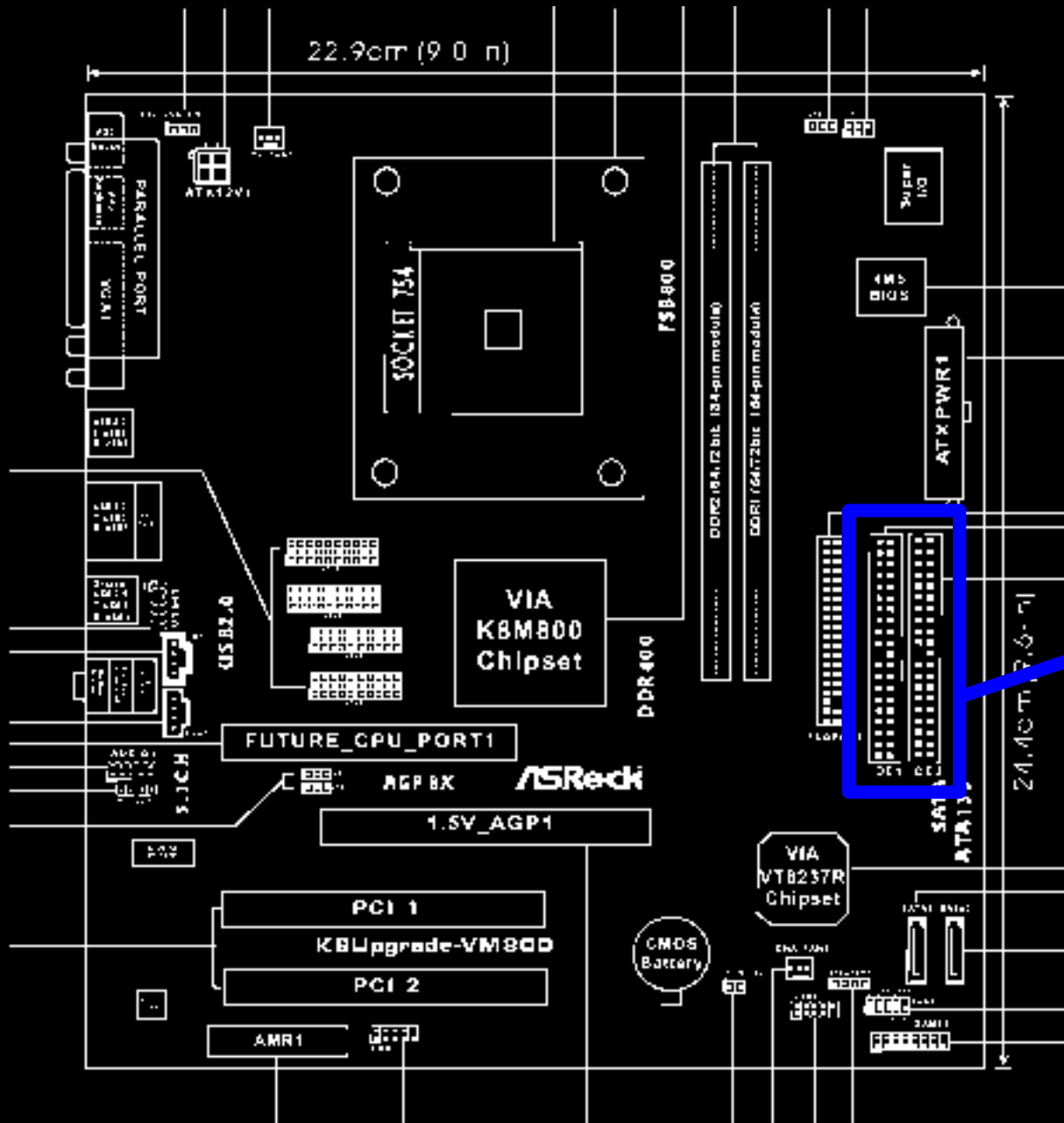
achtergrondinformatie

1a. DISKBENOEMING



Floppy controller

fd0 (A:)
fd1 (B:)

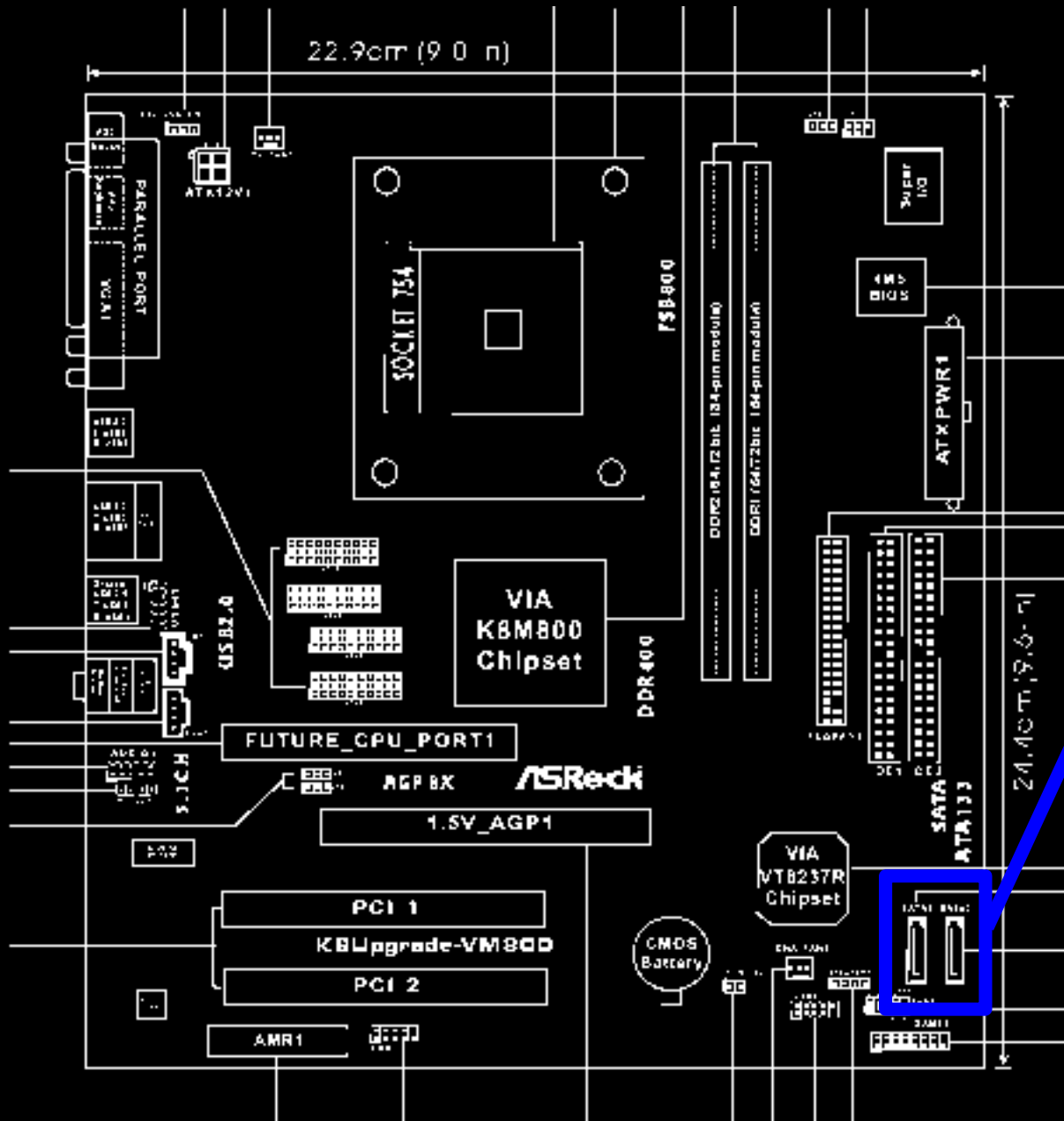


2 PATA controllers:

ide1 master hda
slave hdb

ide2 master hdc
slave hdd

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2 SATA controllers:

sata1 sda

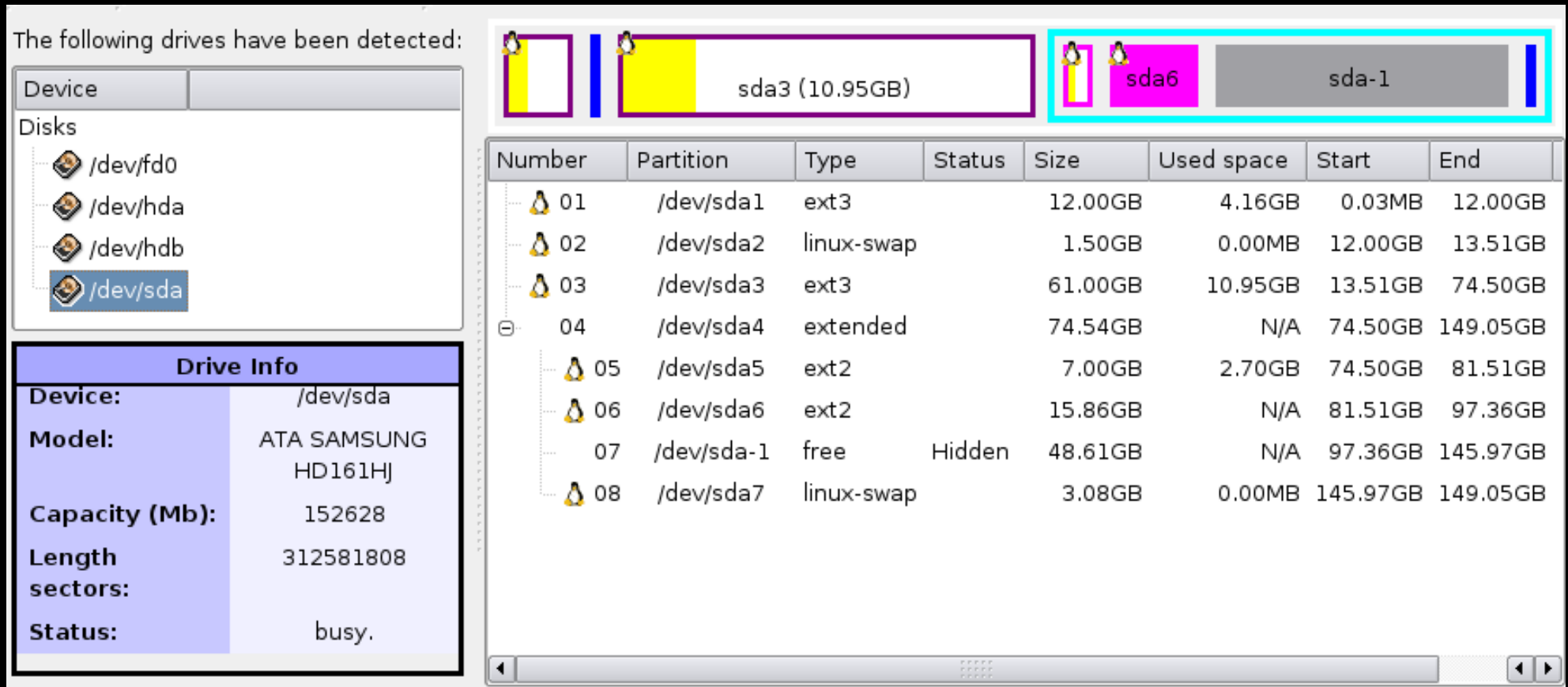
sata2 sdb

installatie **Kubuntu LINUX**

achtergrondinformatie

1b. PARTITIEBENOEMING

The following drives have been detected:



Device

Disks

- /dev/fd0
- /dev/hda
- /dev/hdb
- /dev/sda

Drive Info

Device: /dev/sda

Model: ATA SAMSUNG HD161HJ

Capacity (Mb): 152628

Length sectors: 312581808

Status: busy.

Number	Partition	Type	Status	Size	Used space	Start	End
01	/dev/sda1	ext3		12.00GB	4.16GB	0.03MB	12.00GB
02	/dev/sda2	linux-swap		1.50GB	0.00MB	12.00GB	13.51GB
03	/dev/sda3	ext3		61.00GB	10.95GB	13.51GB	74.50GB
04	/dev/sda4	extended		74.54GB	N/A	74.50GB	149.05GB
05	/dev/sda5	ext2		7.00GB	2.70GB	74.50GB	81.51GB
06	/dev/sda6	ext2		15.86GB	N/A	81.51GB	97.36GB
07	/dev/sda-1	free	Hidden	48.61GB	N/A	97.36GB	145.97GB
08	/dev/sda7	linux-swap		3.08GB	0.00MB	145.97GB	149.05GB

maximaal 4 primaire partities:

hda1 hda2 hda3 hda4 (waarvan ev. 1 extended)

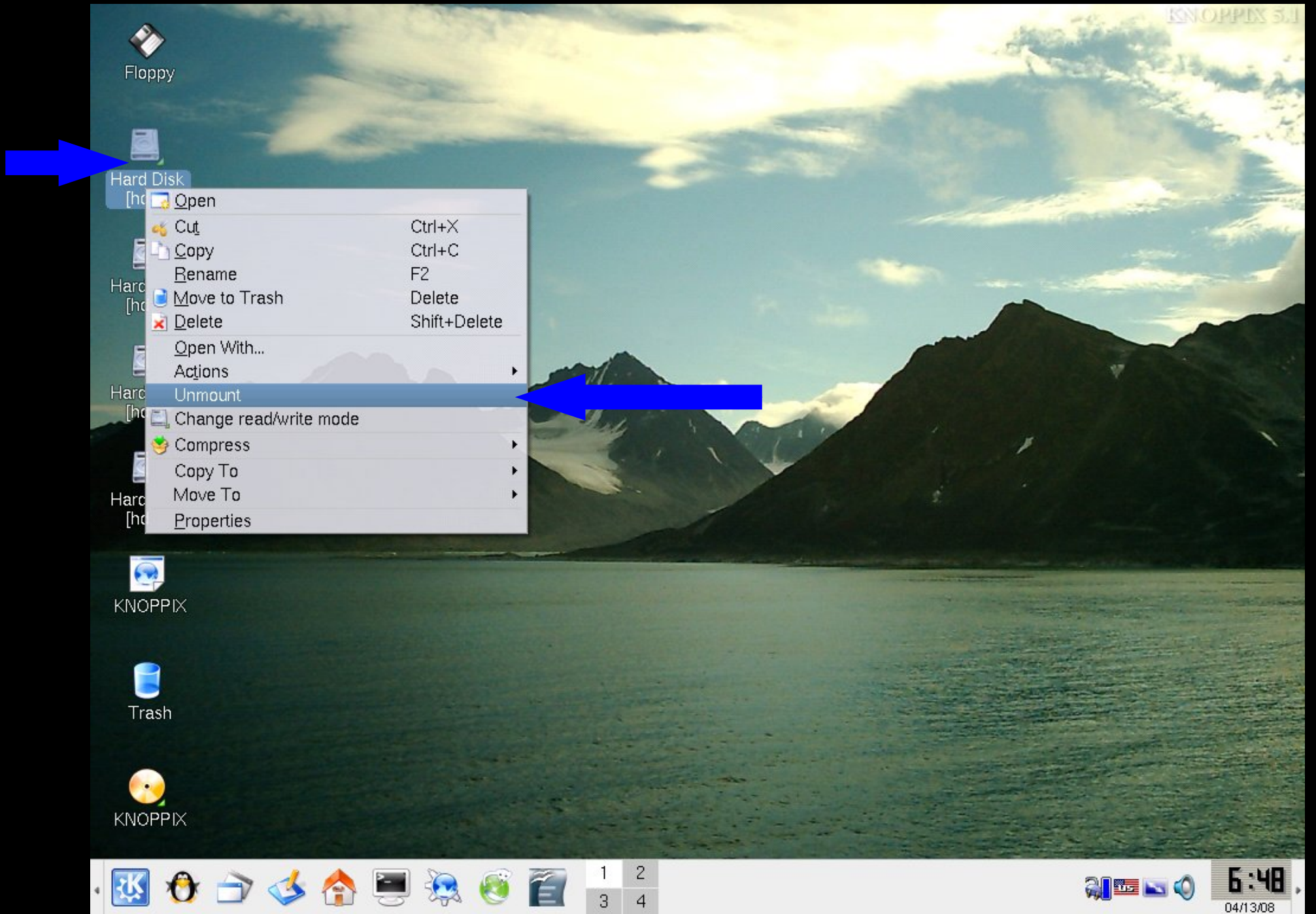
maximaal 24 logical

(in extended:) hda5 ... hda28

Wat gaan we doen?

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2. veilig stellen van het Master Boot Record
- 3. extra partities maken met Knoppix en gparted**

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The image shows a Knoppix 5.11 desktop environment. The background is a scenic landscape with mountains and a lake. In the top right corner, the text "KNOPPIX 5.11" is visible. A terminal window titled "Root" is open, showing the command prompt "root@Knoppix:~# gparted" and the text "gparted [Enter]" displayed in large white font. The desktop has several icons: "Hard Disk [hda7]", "KNOPPIX", "Trash", and another "KNOPPIX" icon. The taskbar at the bottom contains various application icons, a system tray with a clock showing "6:53" and "04/13/08", and a "Root" window indicator.

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/dev/sda - GParted

libparted : 1.7.0
automounting disks

Partition	Filesystem	Mountpoint	Size	Used	Unused	Flags
/dev/sda1	ext3	/media/sda1	12.00 GiB	3.75 GiB	8.25 GiB	
/dev/sda2	linux-swap		1.50 GiB	---	---	
/dev/sda3	ext3	/media/sda3	61.00 GiB	8.91 GiB	52.09 GiB	
▼ /dev/sda4	extended		74.54 GiB	---	---	
/dev/sda5	ext2	/media/sda5	7.00 GiB	2.60 GiB	4.40 GiB	
/dev/sda7	ext2	/media/sda7	15.86 GiB	309.20 MiB	15.56 GiB	
unallocated	unallocated		48.61 GiB	---	---	
/dev/sda6	linux-swap		3.08 GiB	---	---	

```
root@Knoppix:/ra
=====
libparted : 1.7.0
automounting disks
=====
Unable to open /dev/cloopb - unrecognized disk label.
Unable to open /dev/cloop7 - unrecognized disk label.
Unable to open /dev/hdb read-write (Read-only file system). /dev/hdb has been opened read-only.
Unable to open /dev/hdb - unrecognized disk label.
0 operations pending
```

system:/media/sda1 - Konqueror
6:40
04/10/08

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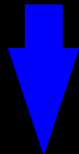
The screenshot displays the GParted partition manager interface. The main window shows a disk layout with several partitions and a large unallocated space. A blue arrow points to the unallocated space. Below the visual representation is a table of partitions.

Partition	Filesystem	Mountpoint	Size	Used	Unused	Flags
/dev/sda1	ext3	/media/sda1	12.00 GiB	3.75 GiB	8.25 GiB	
/dev/sda2	linux-swap		1.50 GiB	---	---	
/dev/sda3	ext3	/media/sda3	61.00 GiB	8.91 GiB	52.09 GiB	
▼ /dev/sda4	extended		74.54 GiB	---	---	
/dev/sda5	ext2	/media/sda5	7.00 GiB	2.60 GiB	4.40 GiB	
/dev/sda7	ext2	/media/sda7	15.86 GiB	309.20 MiB	15.56 GiB	
unallocated	unallocated		48.61 GiB	---	---	
/dev/sda6	linux-swap		3.08 GiB	---	---	

Terminal output (bottom left):

```
root@Knoppix:/ra
=====
libparted : 1.7.
automounting dis
=====
Unable to open /
Unable to open /
Unable to open /
Unable to open /
Unable to open /
Unable to open /
0 operations pending
Unable to open /dev/cloopb - unrecognized disk label.
Unable to open /dev/cloop7 - unrecognized disk label.
Unable to open /dev/hdb read-write (Read-only file system). /dev/hdb has been o
pened read-only.
Unable to open /dev/hdb - unrecognized disk label.
█
```

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GParted Edit View Device Partition Help

Device Information Pending Operations

/dev/sda (149.05 GiB)

/dev/sda3 61.00 GiB

/dev/sda6 15.86 GiB

unallocated 51.68 GiB

Device Information:
Model: ATA SAMSUNG HD161HJ
Size: 149.05 GiB
Path: /dev/sda
DiskLabelType: msdos
Heads: 255
Sectors/Track: 63
Cylinders: 19457
Total Sectors: 312576705

Partition	Filesystem	Mountpoint	Size	Used	Unused	Flags
/dev/sda1	ext3	/	12.00 GiB	3.99 GiB	8.01 GiB	
/dev/sda2	linux-swap		1.50 GiB	---	---	
/dev/sda3	ext3	/home	61.00 GiB	10.30 GiB	50.70 GiB	
▼ /dev/sda4	extended		22.86 GiB	---	---	
/dev/sda5	ext3		7.00 GiB	2.99 GiB	4.02 GiB	
/dev/sda6	ext3		15.86 GiB	540.19 MiB	15.33 GiB	
unallocated	unallocated		51.68 GiB	---	---	

0 operations pending

PARTITIONEREN

Wat is tenminste nodig voor Kubuntu Linux?

PARTITIONEREN

Wat is tenminste nodig voor Kubuntu Linux?

3 GB voor systeem (/)

PARTITIONEREN

Wat is tenminste nodig voor Kubuntu Linux?

3 GB voor systeem (/)

0,5 GB voor virtueel geheugen (swap)

PARTITIONEREN

Wat is tenminste nodig voor Kubuntu Linux?

3 GB voor systeem (/)

0,5 GB voor virtueel geheugen (swap)

4 GB voor gebruiker(s) (/home)

PARTITIONEREN

1. win-partitie kleiner maken (shrink) tot 20 GB

PARTITIONEREN

1. win-partitie kleiner maken (shrink) tot 20 GB
2. maken (create) 80 GB fat32 voor My Documents

PARTITIONEREN

1. win-partitie kleiner maken (shrink) tot 20 GB
2. maken (create) 80 GB fat32 voor My Documents
3. maken 1,5 GB Linux Swap

PARTITIONEREN

1. win-partitie kleiner maken (shrink) tot 20 GB
2. maken (create) 80 GB fat32 voor My Documents
3. maken 1,5 GB Linux Swap
4. rest: maken Extended (voor Kubuntu)

PARTITIONEREN

1. win-partitie kleiner maken (shrink) tot 20 GB
2. maken (create) 80 GB fat32 voor My Documents
3. maken 1,5 GB Linux Swap
4. rest: maken Extended (voor Kubuntu)
5. in Extended: maken 12 GB ext3 voor / (root)

PARTITIONEREN

1. win-partitie kleiner maken (shrink) tot 20 GB
2. maken (create) 80 GB fat32 voor My Documents
3. maken 1,5 GB Linux Swap
4. rest: maken Extended (voor Kubuntu)
5. in Extended: maken 12 GB ext3 voor / (root)
6. in Extended: maken rest ext3 voor /home

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The screenshot shows the GParted application window titled "/dev/sda - GParted". The interface includes a menu bar (GParted, Edit, View, Device, Partition, Help), a toolbar with icons for New, Delete, Resize/Move, Copy, Paste, Undo, and Apply, and a dropdown menu showing "/dev/sda (149.05 GiB)".

The main display area shows a graphical representation of the disk layout. A blue arrow points to the unallocated space within the /dev/sda4 extended partition, which is 48.61 GiB in size. The table below provides detailed information about the partitions.

Partition	Filesystem	Mountpoint	Size	Used	Unused	Flags
/dev/sda1	ext3	/media/sda1	12.00 GiB	3.75 GiB	8.25 GiB	
/dev/sda2	linux-swap		1.50 GiB	---	---	
/dev/sda3	ext3	/media/sda3	61.00 GiB	8.91 GiB	52.09 GiB	
▼ /dev/sda4	extended		74.54 GiB	---	---	
/dev/sda5	ext2	/media/sda5	7.00 GiB	2.60 GiB	4.40 GiB	
/dev/sda7	ext2	/media/sda7	15.86 GiB	309.20 MiB	15.56 GiB	
unallocated	unallocated		48.61 GiB	---	---	
/dev/sda6	linux-swap		3.08 GiB	---	---	

The terminal window at the bottom left shows the following output:

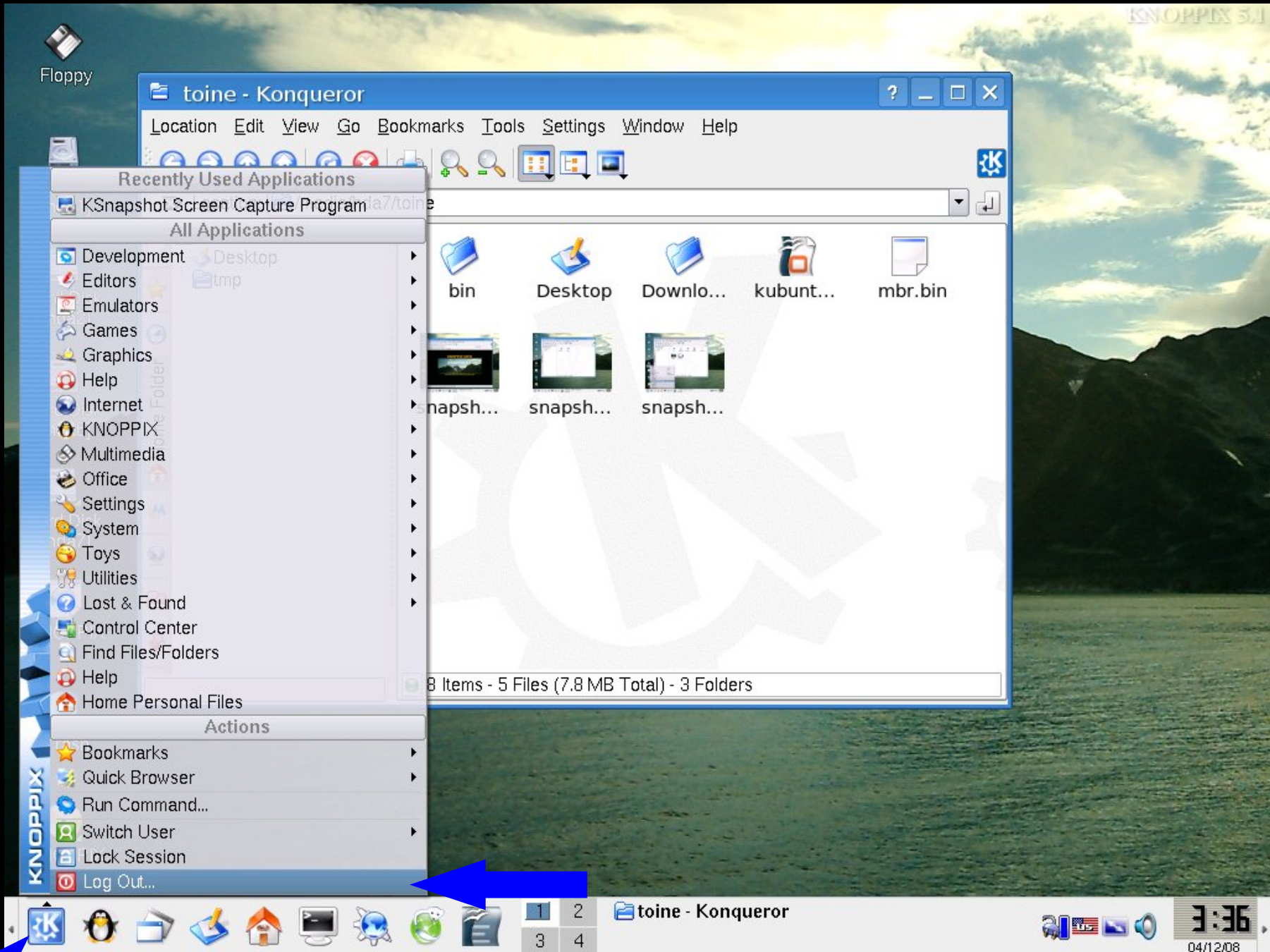
```
root@Knoppix:/ra
=====
libparted : 1.7.
automounting dis
=====
Unable to open /
Unable to open /
Unable to open /
Unable to open /
Unable to open /
Unable to open /
Unable to open /
0 operations pending
Unable to open /dev/cloopb - unrecognized disk label.
Unable to open /dev/cloop7 - unrecognized disk label.
Unable to open /dev/hdb read-write (Read-only file system). /dev/hdb has been o
pened read-only.
Unable to open /dev/hdb - unrecognized disk label.
█
```

6:40

04/10/08

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KNOPPIX 5.1



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The image shows a Knoppix desktop environment with a dark, mountainous background. On the left side, there are several desktop icons: Floppy, Hard Disk [hda1], Hard Disk [hda2], Hard Disk [hda5], Hard Disk [hda6], Hard Disk [hda7], KNOPPIX, and Trash. In the center, a dialog box titled "End Session for 'knoppix'" is open. The dialog box contains a Knoppix logo (a blue square with a white 'K' and a gear) and a green dragon-like creature flying in front of a yellow crescent moon against a dark blue sky with stars. To the right of the image are four buttons: "End Current Session" (with a blue arrow icon), "Turn Off Computer" (with a red power icon), "Restart Computer" (with a circular arrow icon), and "Cancel" (with a red 'X' icon). A large blue arrow points to the "Restart Computer" button. At the bottom of the screen, there is a taskbar with several icons, including the Knoppix logo, a penguin, a folder, a document, a house, a monitor, a globe, and a terminal. The taskbar also shows a window manager with buttons labeled 1, 2, 3, and 4. On the right side of the taskbar, there are system icons for network, volume, and power, along with a clock showing 10:50 and the date 04/13/08.

End Session for "knoppix"

End Current Session

Turn Off Computer

Restart Computer

Cancel

1 2
3 4

10:50
04/13/08

installatie **Kubuntu LINUX**

achtergrondinformatie

2. BESTURINGSSYSTEEM

Definitie besturingssysteem:

“An operating system (OS) is a software that manages computer resources and provides an interface used to access those resources.”

M.a.w. de **kernel + modules** (drivers)
+ enkele tools als een bootloader e.d.

HARDWARE

bios + settings

HARDWARE

bios + settings

HARDWARE

BESTURINGSSYSTEEM

bios + settings

HARDWARE

BESTURINGSSYSTEEM

bios + settings

HARDWARE

APPLICATIES

BESTURINGSSYSTEEM

bios + settings

HARDWARE

APPLICATIES:

text-mode
(niet grafische)
applicaties

BESTURINGSSYSTEEM

bios + settings

HARDWARE

APPLICATIES:

text-mode
(niet grafische)
applicaties

grafisch systeem:

X-server

BESTURINGSSYSTEEM

bios + settings

HARDWARE

APPLICATIES:

text-mode
(niet grafische)
applicaties

grafisch systeem:

windowmanager

X-server

BESTURINGSSYSTEEM

bios + settings

HARDWARE

APPLICATIES:

text-mode
(niet grafische)
applicaties

grafisch systeem:

desktopmanager

windowmanager

X-server

BESTURINGSSYSTEEM

bios + settings

HARDWARE

APPLICATIES:

text-mode (niet grafische) applicaties	grafische applicaties
	desktopmanager
	windowmanager
	X-server

BESTURINGSSYSTEEM

bios + settings

HARDWARE

Wat gaan we doen?

1. hardware verkennen (BIOS en Knoppix)
2. veilig stellen van het Master Boot Record
3. extra partities maken met Knoppix en gparted

4. Kubuntu Live-CD starten

d.w.z pc starten vanaf de Kubuntu-CD
(F8 of F11 of F12 o.i.d.?)



Start or install Kubuntu

Start Kubuntu in safe graphics mode

Install with driver update CD

Check CD for defects

Memory test

Boot from first hard disk

F1 Help F2 Language F3 Keymap F4 VGA F5 Accessibility F6 Other Options

www.Linux.com



Check CD for defects
Memory test
Boot from first hard disk

F1 Help F2 Language F3 Keymap F4 VGA F5 Accessibility F6 Other Options

www.Linux.com



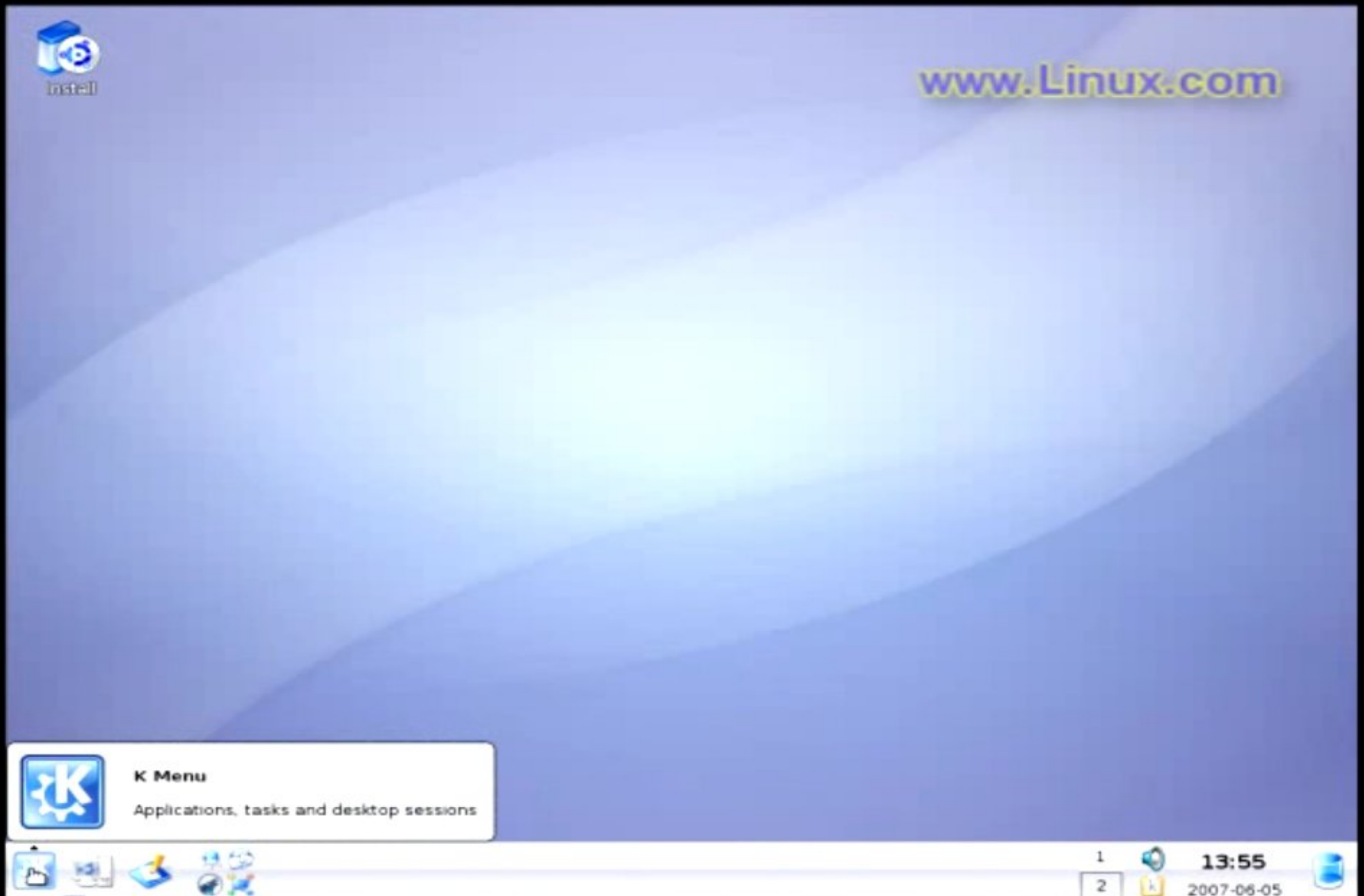
www.Linux.com



initializing system services



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... als het beeld er niet uitziet ...



menu

System Settings

All Applications

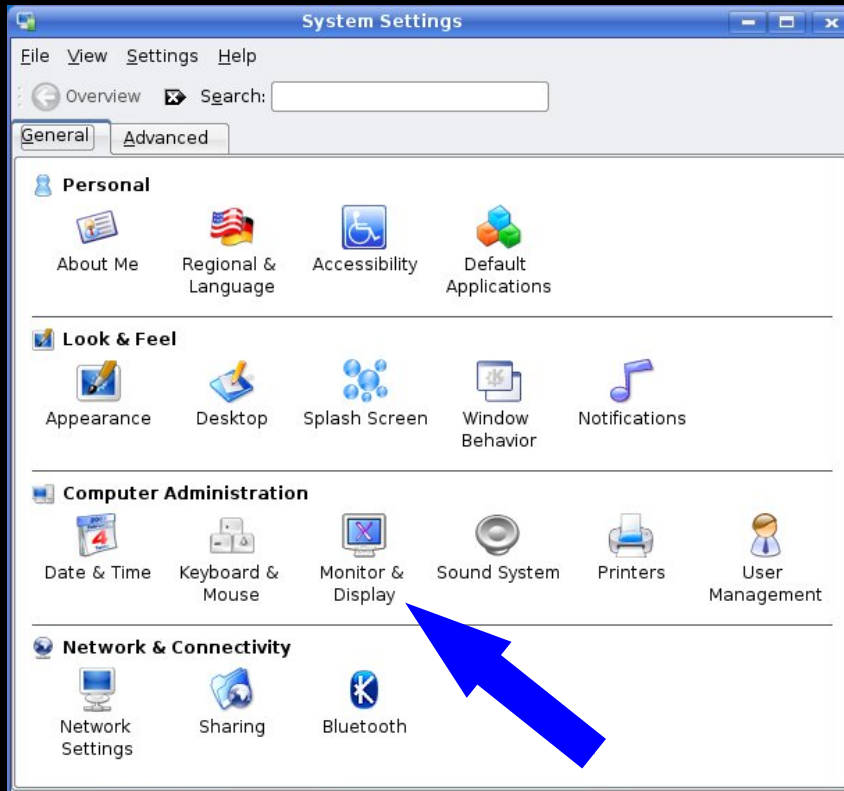
- Graphics
- Internet
- Multimedia
- Office
- System
- Utilities
- Add/Remove Programs
- Help
- Strigi - Desktop Search
- System Settings**

Actions

- Run Command...
- Switch User
- Lock Session
- Log Out...

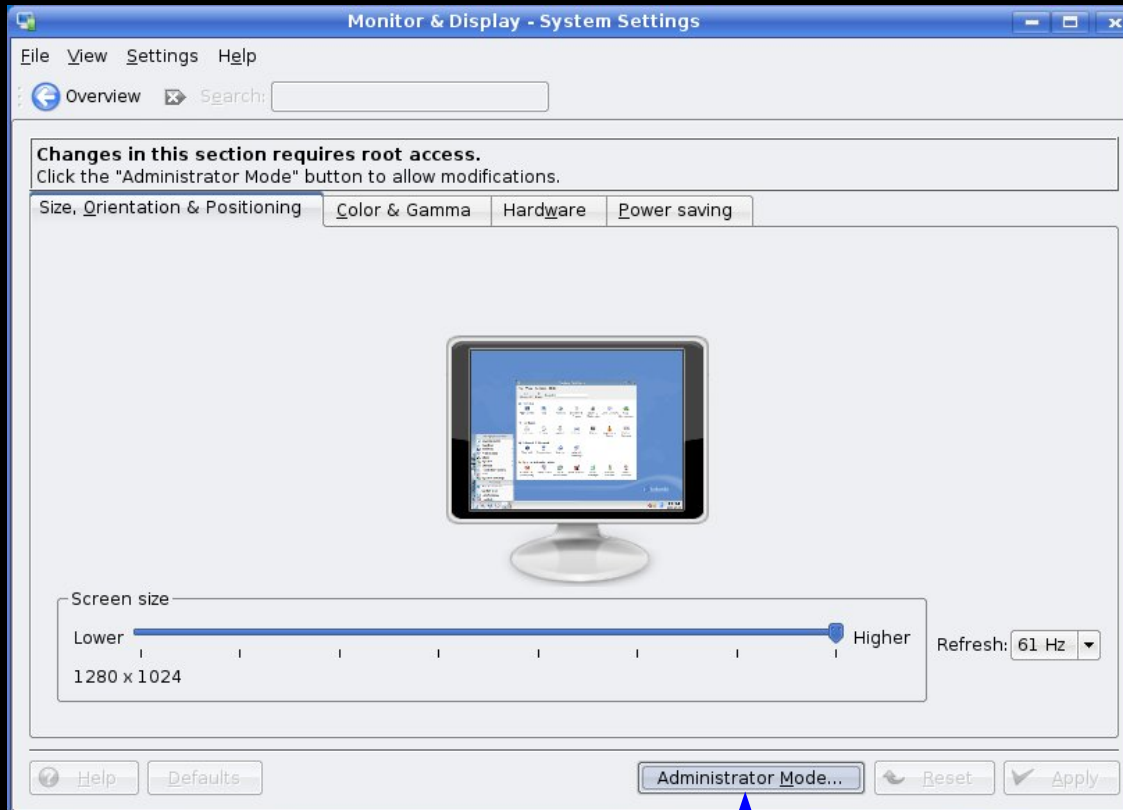


1 11:49
2 k 2008-04-14



Monitor &
Display

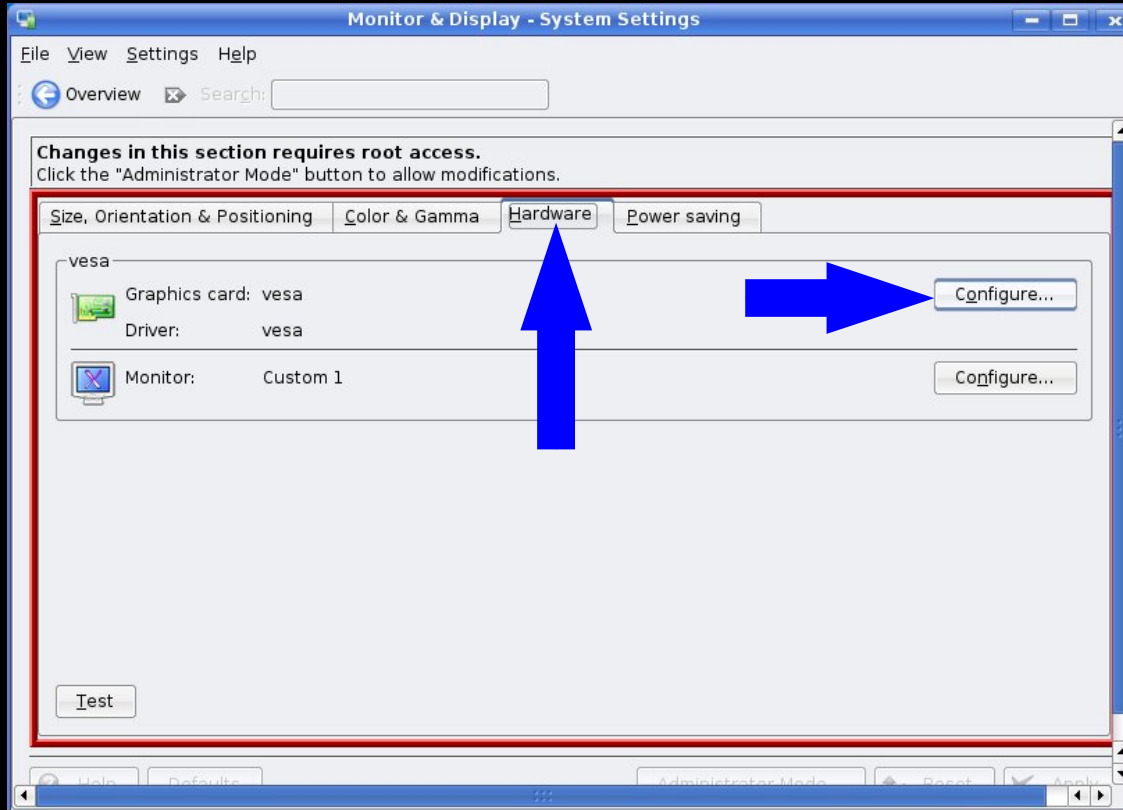
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Administrator Mode

snapshot2.png

installatie **Kubuntu** **LINUX** hcc Venlo 6 mei 2008



snapshot2.png

Hardware Configure...

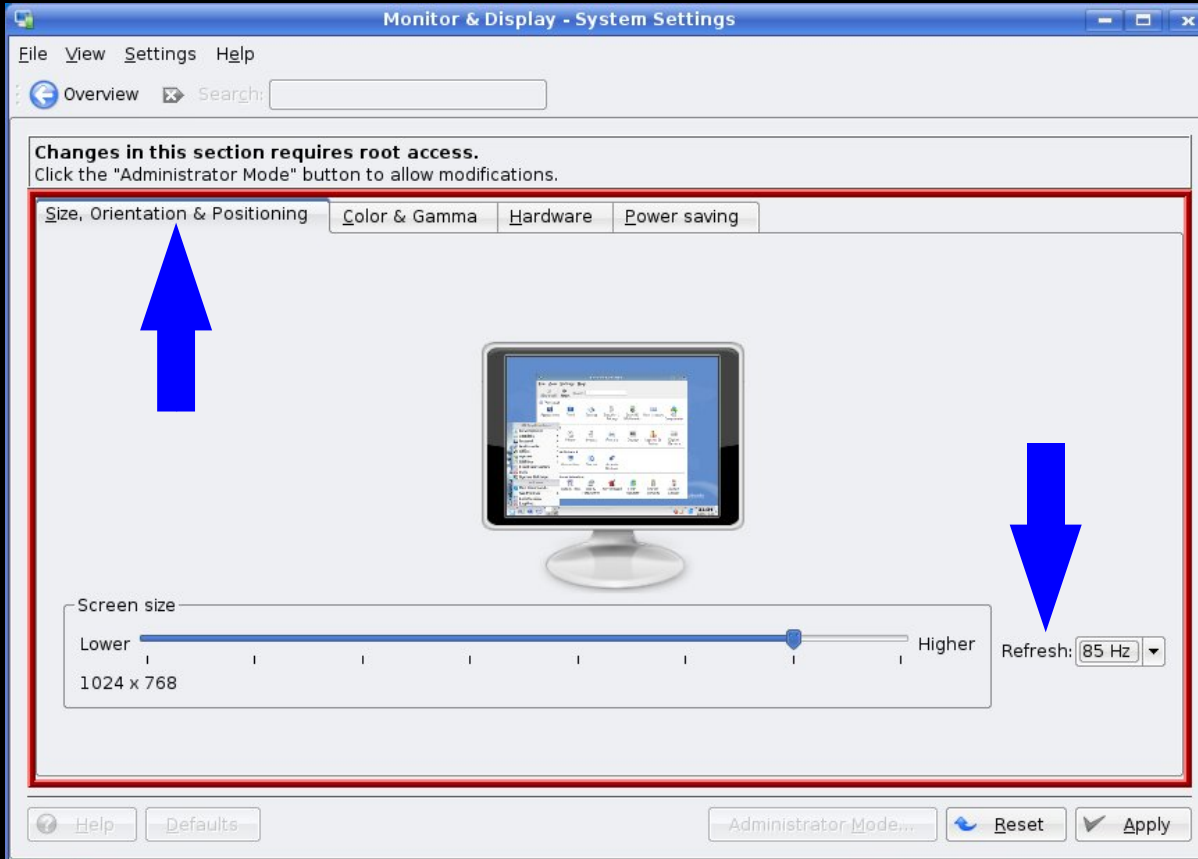
installatie **Kubuntu** **LINUX** hcc Venlo 6 mei 2008

The screenshot shows the Kubuntu desktop environment with a blue background. Two windows are open:

- Monitor & Display - System Settings:** This window is in the foreground. It has a menu bar with 'File', 'View', 'Settings', and 'Help'. Below the menu bar is a search field. A red border highlights the main content area. At the top, it says "Changes in this section requires root access. Click the 'Administrator Mode' button to allow modifications." There are four tabs: "Size, Orientation & Positioning", "Color & Gamma", "Hardware", and "Power saving". The "Hardware" tab is selected. It shows two sections: "vesa" and "Monitor". The "vesa" section has a "Graphics card: vesa" and "Driver: vesa" with a "Configure..." button. The "Monitor" section has "Monitor: Custom 1" with a "Configure..." button. A "Test" button is at the bottom left.
- Choose Graphics Card - KDE Control Module:** This dialog box is open in front of the System Settings window. It has a title bar with a question mark, minimize, maximize, and close buttons. The main area is titled "Select Graphics Card:" and contains a list box with the following items: i740, i810, imstt, intel, mga, neomagic, newport, nsc, nv, r128, and radeon. The "nv" item is selected. Below the list box, it says "Detected graphics card: 'VESA driver (generic)'." with a "Select" button. To the right, there are radio buttons for "Standard" (selected) and "Proprietary". Below that is a "Video RAM:" dropdown menu set to "256 kB". At the bottom are "OK" and "Cancel" buttons.

The desktop has two icons: "snapshot5.png" on the left and "snapshot2.png" on the right. The taskbar at the bottom shows the Kubuntu logo, a taskbar with icons for "Monitor & Display - System Settings" and "Choose Graphics Card - KDE Control Module", and a system tray with a volume icon, a network icon, and a clock showing "11:56" and "2008-04-14".

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snapshot5.png

snapshot6.png

snapshot7.png

snapshot8.png

Size, Orientation & Positioning

Refresh:

snapshot2.png

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Monitor & Display - System Settings

File View Settings Help

Overview Search:

Changes in this section requires root access.
Click the "Administrator Mode" button to allow modifications.

Size, Orientation & Positioning | Color & Gamma | Hardware | Power saving

Screen size: 1024 x 768

Refresh: 85 Hz

Administrator Mode... Reset **Apply**

Confirm Display Setting Change - KDE Control Center

Trying new screen settings. Keep these new settings?
(Automatically cancelling in 15 seconds.)

12 seconds remaining:

Keep Cancel



Apply

- snapshot5.png
- snapshot6.png
- snapshot7.png
- snapshot8.png



a. herstarten van de X-server: [Ctrl+[Alt]+[Backspace]

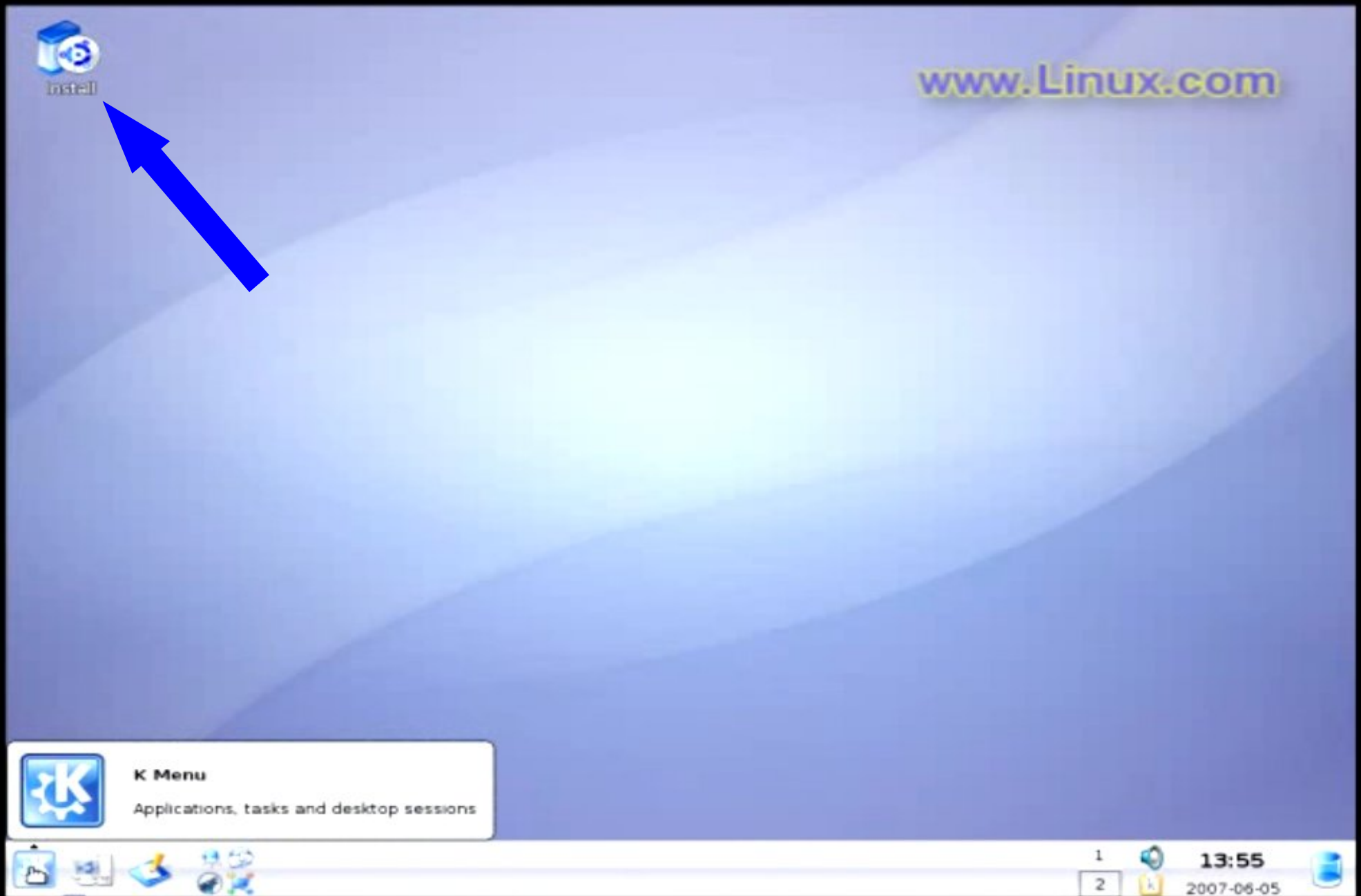


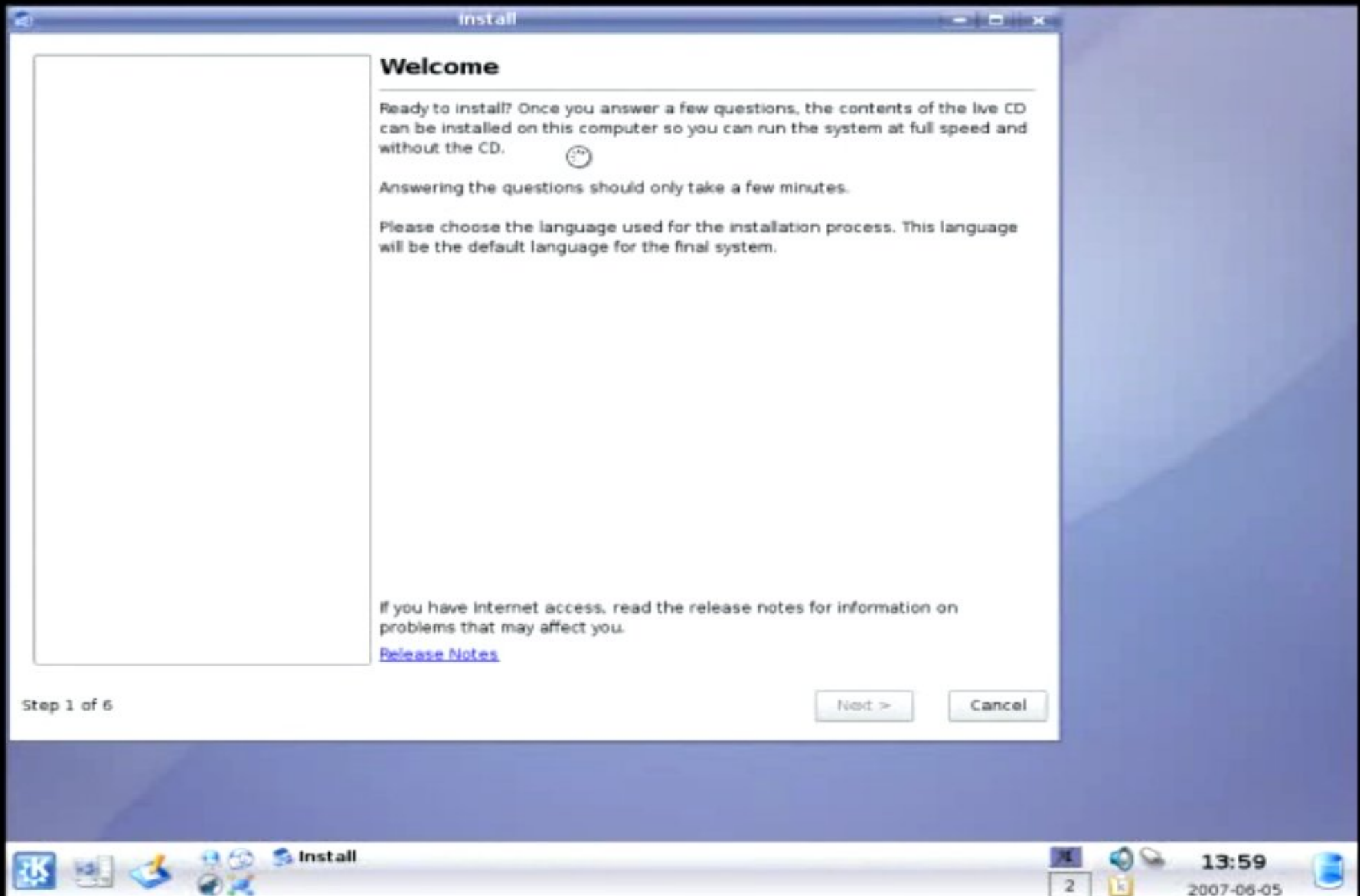
b. opnieuw inloggen: Username: **ubuntu**
[Enter] [Enter]

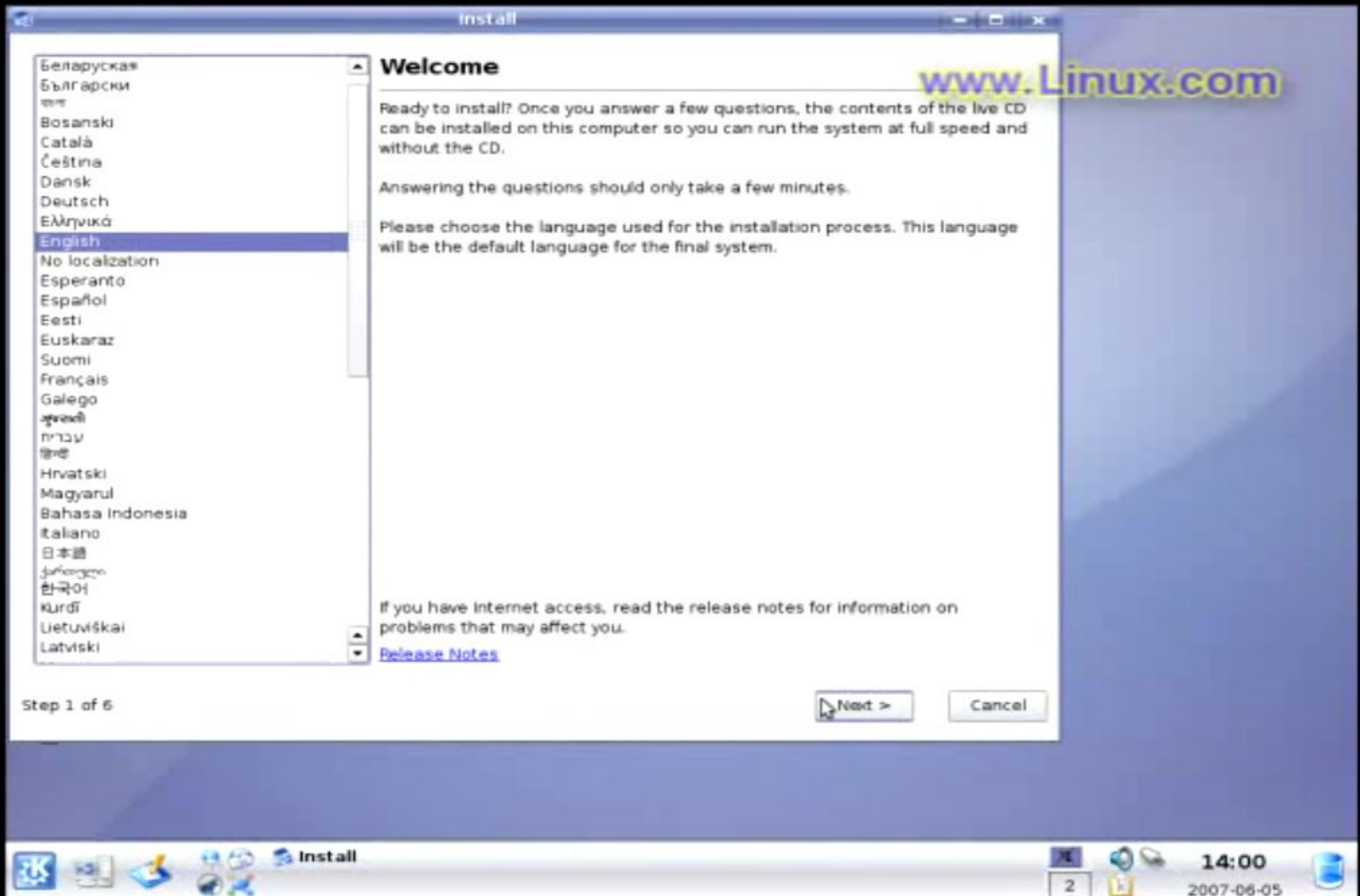
Wat gaan we doen?

1. hardware verkennen (BIOS en Knoppix)
2. veilig stellen van het Master Boot Record
3. extra partities maken met Knoppix en gparted
4. Kubuntu Live-CD starten
- 5. Kubuntu 7.10 installeren**

installatie **Kubuntu LINUX** hcc Venlo 6 mei 2008








install

Where are you?

Select a city in your country and time zone. If the indicated current time is incorrect even after selecting the correct time zone, you can adjust it after rebooting into the installed system.

www.Linux.com

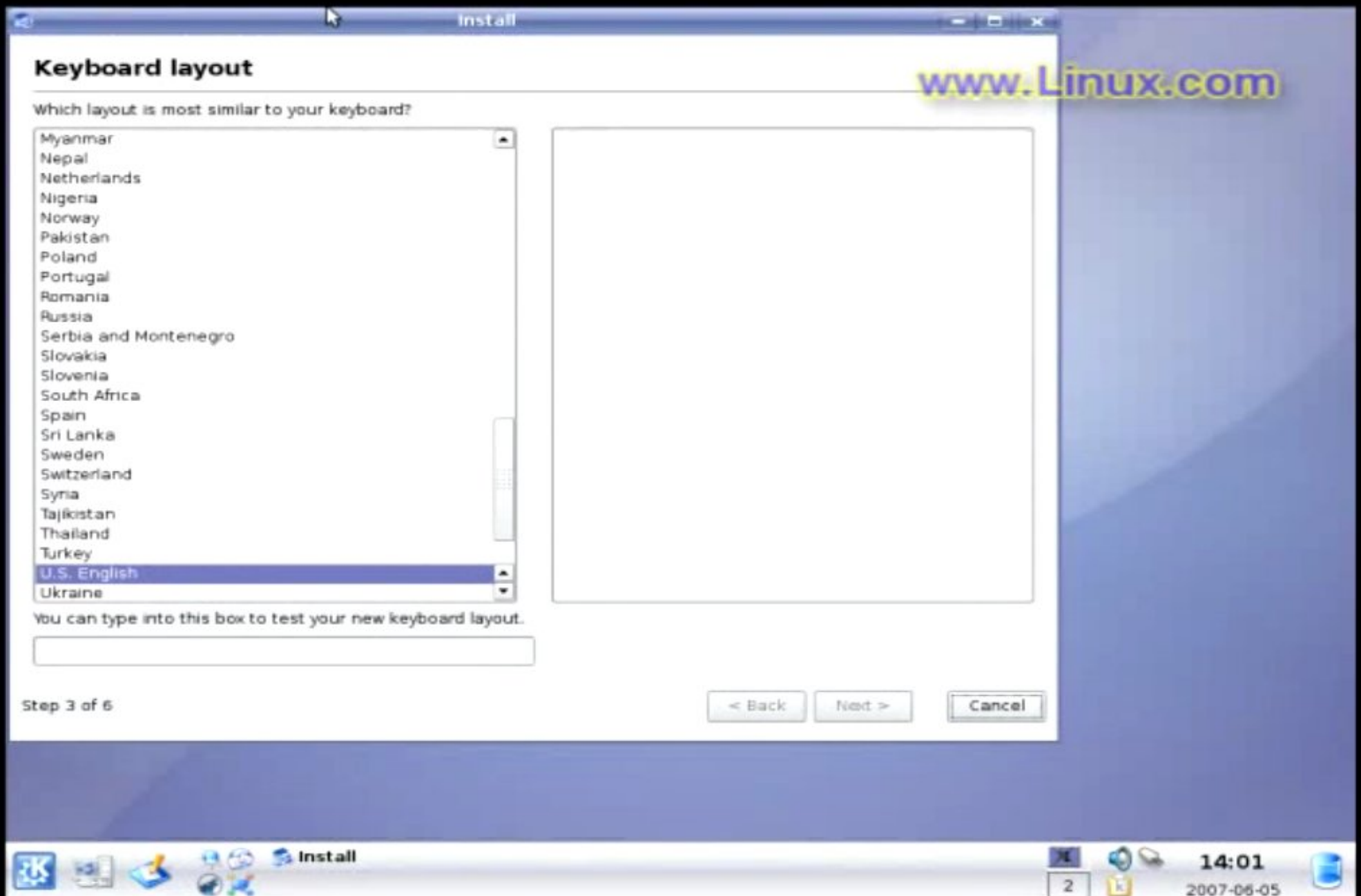


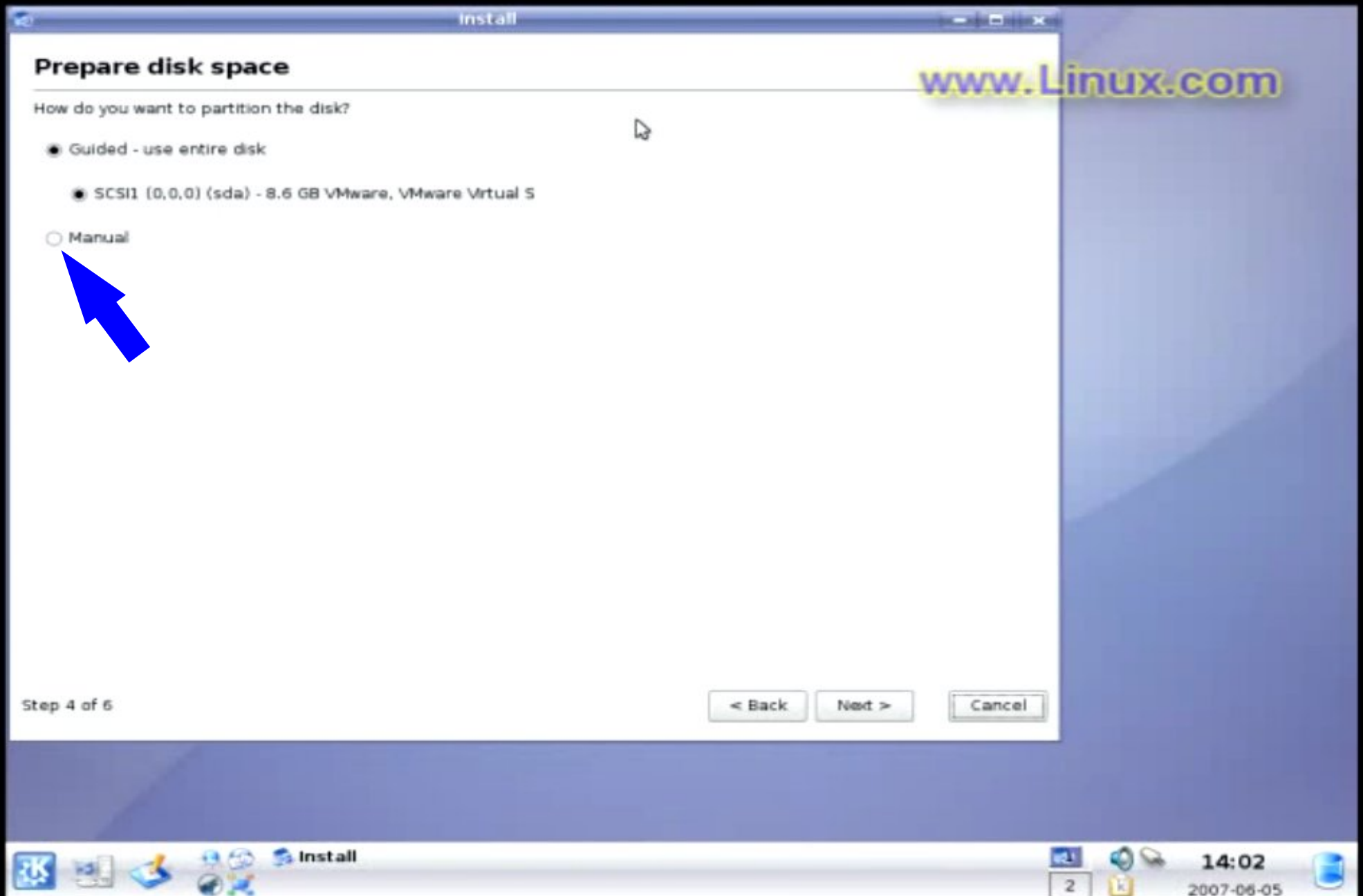
Selected city: Selected region: United States
Time zone: EDT (GMT-4:00) Current time: 10:01:30 AM

Step 2 of 6

Install


14:01
2007-06-05





Install

Prepare partitions



hda1 hda2 hda3 hda4

sda1 sda2 sda3 sda5 sda6 free

Device	Type	Mount point	Format?	Size	Used
/dev/hda			<input type="checkbox"/>		
/dev/hda1	ext3	/media/hda1	<input type="checkbox"/>	9500 MB	4300 MB
/dev/hda2	swap		<input type="checkbox"/>	1003 MB	0 MB
/dev/hda3	ext3	/media/hda3	<input type="checkbox"/>	40501 MB	15200 MB
/dev/hda4	ext2	/media/hda4	<input type="checkbox"/>	29018 MB	7900 MB
/dev/sda			<input type="checkbox"/>		
/dev/sda1	ext3	/media/sda1	<input type="checkbox"/>	12888 MB	4200 MB
/dev/sda2	swap		<input type="checkbox"/>	1612 MB	0 MB
/dev/sda3	ext3	/media/sda3	<input type="checkbox"/>	65497 MB	9800 MB
/dev/sda5	ext3	/media/sda5	<input type="checkbox"/>	7517 MB	2700 MB
/dev/sda6	ext3	/media/sda6	<input type="checkbox"/>	17026 MB	459 MB
free space			<input type="checkbox"/>	55495 MB	

Edit partition Delete partition Undo changes to partitions

You need to specify a partition for the root file system (mount point "/") with a minimum size of 2 GB, and a swap partition of at least 256 MB. You may also set up other partitions if you wish.

Step 4 of 6

< Back Next > Cancel

installatie **Kubuntu LINUX** hcc Venlo 6 mei 2008

Install

Prepare partitions

hda1 hda2 hda3 hda4

sda1 sda2 sda3 sda5 sda6 free


Device	Type	Mount point	Format?	Size	Used
/dev/hda			<input type="checkbox"/>		
/dev/hda1	ext3	/media/hda1	<input type="checkbox"/>	9500 MB	4300 MB
/dev/hda2	swap		<input type="checkbox"/>	1003 MB	0 MB
/dev/hda3	ext3	/media/hda3	<input type="checkbox"/>	40501 MB	15200 MB
/dev/hda4	ext2	/media/hda4	<input type="checkbox"/>	29018 MB	7900 MB
/dev/sda			<input type="checkbox"/>		
/dev/sda1	ext3	/media/sda1	<input type="checkbox"/>	12888 MB	4200 MB
/dev/sda2	swap		<input type="checkbox"/>	1612 MB	0 MB
/dev/sda3	ext3	/media/sda3	<input type="checkbox"/>	65497 MB	9800 MB
/dev/sda5	ext3	/media/sda5	<input type="checkbox"/>	7517 MB	2700 MB
/dev/sda6	ext3	/media/sda6	<input type="checkbox"/>	17026 MB	459 MB
free space			<input type="checkbox"/>	55495 MB	

Edit partition Delete partition Undo changes to partitions

You need to specify a partition for the root file system (mount point "/") with a minimum size of 2 GB, and a swap partition of at least 256 MB. You may also set up other partitions if you wish.

Step 4 of 6

< Back Next > Cancel



installatie **Kubuntu LINUX** hcc Venlo 6 mei 2008

Install

Prepare partitions

hda1 hda2 hda3 hda4

sda1 sda2 sda3 sda5 sda6 free

Device	Type	Mount point	Format?	Size	Used
/dev/hda					
/dev/hda1	ext3				
/dev/hda2	swap				
/dev/hda3	ext3				
/dev/hda4	ext2				
/dev/sda					
/dev/sda1	ext3				
/dev/sda2	swap				
/dev/sda3	ext3				
/dev/sda5	ext3				
/dev/sda6	ext3				
free space					

Edit Partition

Edit a partition

New partition size in megabytes (1000000 bytes):

Use as:

Mount point:

- /
- /boot
- /home
- /tmp
- /usr
- /var
- /srv
- /opt
- /usr/local
- /media/sda5**

Edit partition Delete partition Apply changes to partitions

You need to specify a partition for the root file system (mount point /) with a minimum size of 2 GB, and a swap partition of at least 256 MB. You may also set up other partitions if you wish.

Step 4 of 6

< Back Next > Cancel

Install

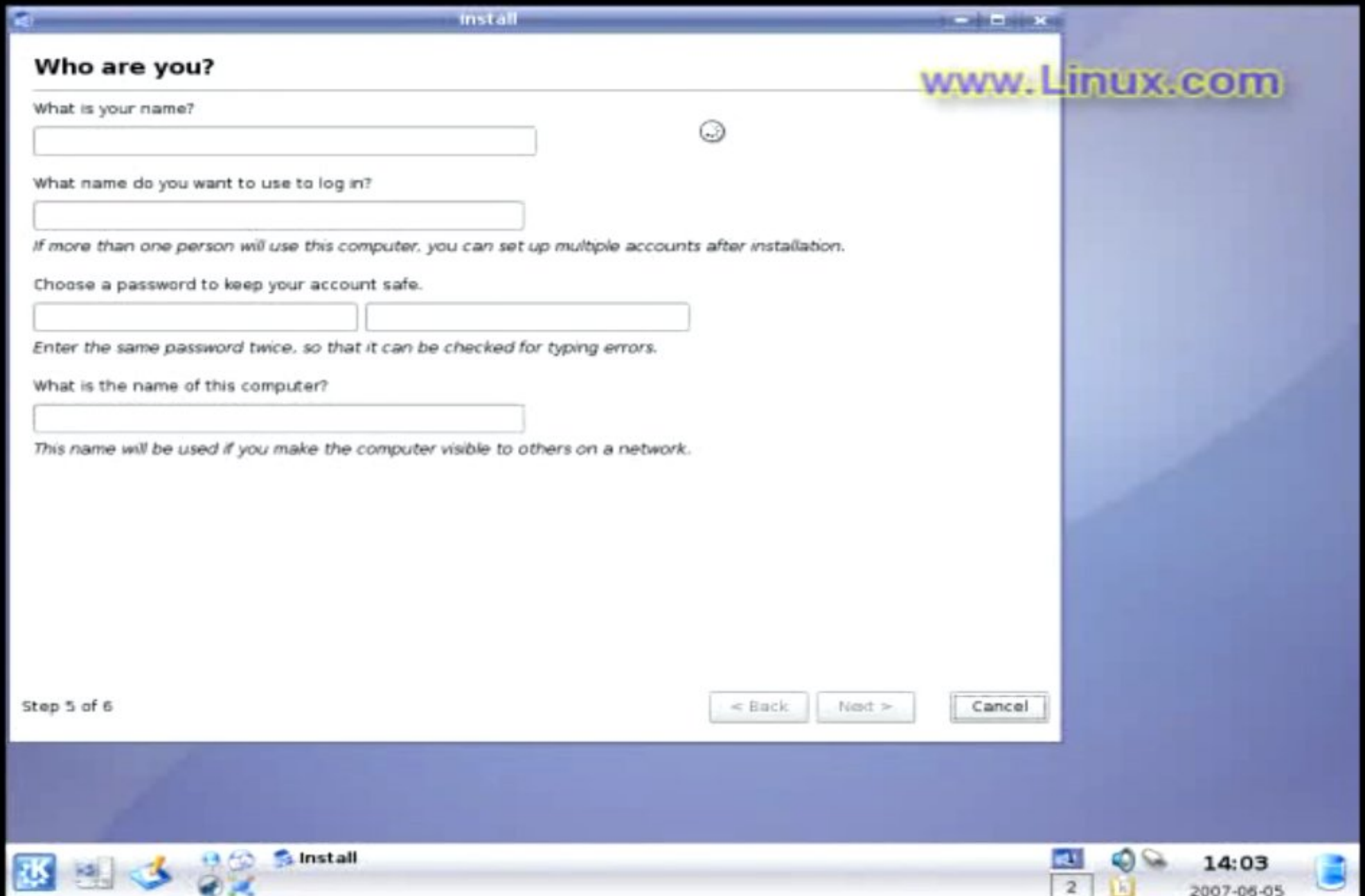
Prepare partitions

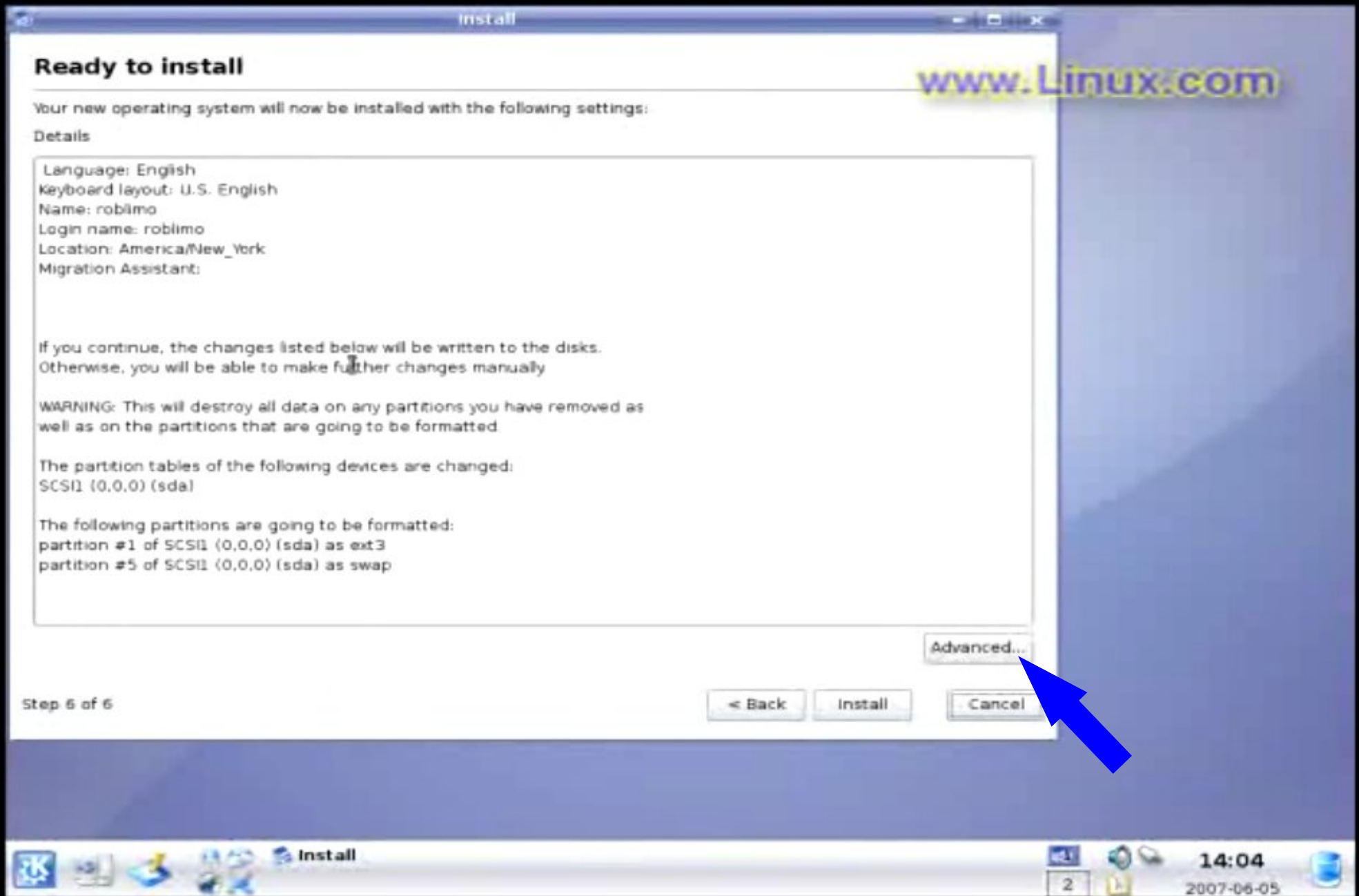
The diagram shows two hard drives: hda and sda. hda1, hda2, and hda3 are teal. hda4 is light grey. sda1, sda2, and sda3 are teal. sda5 and sda6 are teal. The 'free' space is yellow.

Device	Type	Mount point	Format?	Size	Used
/dev/hda			<input type="checkbox"/>		
/dev/hda1	ext3	/media/hda1	<input type="checkbox"/>	9500 MB	4300 MB
/dev/hda2	swap		<input type="checkbox"/>	1003 MB	0 MB
/dev/hda3	ext3	/media/hda3	<input type="checkbox"/>	40501 MB	15200 MB
/dev/hda4	ext2	/media/hda4	<input type="checkbox"/>	29018 MB	7900 MB
/dev/sda			<input type="checkbox"/>		
/dev/sda1	ext3	/media/sda1	<input type="checkbox"/>	12888 MB	4200 MB
/dev/sda2	swap		<input type="checkbox"/>	1612 MB	0 MB
/dev/sda3	ext3	/media/sda3	<input type="checkbox"/>	65497 MB	9800 MB
/dev/sda5	ext3	/	<input checked="" type="checkbox"/>	7517 MB	2700 MB
/dev/sda6	ext3	/home	<input checked="" type="checkbox"/>	17026 MB	459 MB
free space			<input type="checkbox"/>	55495 MB	

You need to specify a partition for the root file system (mount point "/") with a minimum size of 2 GB, and a swap partition of at least 256 MB. You may also set up other partitions if you wish.

Step 4 of 6





The screenshot shows the 'Ready to install' window in the Kubuntu installer. The window title is 'install'. The main heading is 'Ready to install'. Below this, it states: 'Your new operating system will now be installed with the following settings:'. Under the 'Details' section, the following settings are listed: Language: English, Keyboard layout: U.S. English, Name: robilmo, Login name: robilmo, Location: America/New_York, and Migration Assistant: (empty). A warning message reads: 'WARNING: This will destroy all data on the partitions that you are formatting. If you continue, the changes will be permanent. Otherwise, you will be able to undo the changes.' Below the warning, it says: 'The partition tables of the following partitions are going to be formatted: partition #1 of SCSI (0,0,0) (sda) as ext3, partition #5 of SCSI (0,0,0) (sda) as swap'. An 'Advanced...' button is located at the bottom right of the main window. An 'Advanced Options' dialog box is open in the foreground. It has a title bar with 'Advanced Options' and standard window controls. The dialog contains a 'Boot loader' section with the text 'Help for GRUB device selection goes here.' and a text input field containing '(hd0)'. Below this is a 'Popularity contest' section with a checkbox labeled 'Participate in the package usage survey?' which is currently unchecked. At the bottom of the dialog are 'OK' and 'Cancel' buttons. The main window has a '< Back' button, an 'Install' button, and a 'Cancel' button at the bottom right. The system tray at the bottom of the screen shows the 'Install' application icon, a taskbar with the number '2', the time '14:05', and the date '2007-06-05'. A watermark 'www.Linux.com' is visible in the top right corner of the screen.

```
Ubuntu, kernel 2.6.28-15-generic  
Ubuntu, kernel 2.6.28-15-generic (recovery mode)  
Ubuntu, hmtest86+  
Other operating systems:  
Windows Vista/Longhorn (loader)
```

Use the ↑ and ↓ keys to select which entry is highlighted.
Press enter to boot the selected OS, 'e' to edit the
commands before booting, or 'c' for a command-line.

Ready to install

Your new operating system will now be installed with the following settings:

Details

Language: English
Keyboard layout: U.S. English
Name: robilmo
Login name: robilmo
Location: America/New_York
Migration Assistant:

Starting up 1
Detecting file systems...
10%
Cancel

WARNING: This will destroy all data on any partitions that are going to be formatted. If you are unsure, please back up your data before continuing.

The partition tables of the following devices are changed:
SCSI (0,0,0) (sda)

The following partitions are going to be formatted:
partition #1 of SCSI (0,0,0) (sda) as ext3
partition #5 of SCSI (0,0,0) (sda) as swap

Advanced...

Step 6 of 6

< Back Install Cancel

www.Linux.com

14:05
2007-06-05

Install

Ready to install

Your new operating system will now be installed with the following settings:

Details

Language: English
Keyboard layout: U.S. English
Name: roblimo
Login name: roblimo
Location: America/New_York
Migration Assistant:

If you continue, the
Otherwise, you will b

WARNING: This will d
well as on the partit


The partition tables
SCSI1 (0,0,0) (sda)

The following partitions are going to be formatted:
partition #1 of SCSI1 (0,0,0) (sda) as ext3
partition #5 of SCSI1 (0,0,0) (sda) as swap

Advanced...

Step 6 of 6

< Back Install Cancel



Installation complete

Installation is complete. You need to restart the computer in order to use the new installation. You can continue to use this live CD, although any changes you make or documents you save will not be preserved. Be sure to remove the CD when restarting the computer, otherwise it will start back up using this live CD rather than the newly-installed system.

OK

installatie **Kubuntu LINUX** hcc Venlo 6 mei 2008

GNU GRUB version 0.95 (638K lower / 522688K upper memory)

```
Ubuntu, kernel 2.6.12-9-386
Ubuntu, kernel 2.6.12-9-386 (recovery mode)
Ubuntu, memtest86+
Other operating systems:
Windows NT/2000/XP (loader)
```

Use the ↑ and ↓ keys to select which entry is highlighted.
Press enter to boot the selected OS, 'e' to edit the
commands before booting, or 'c' for a command-line.

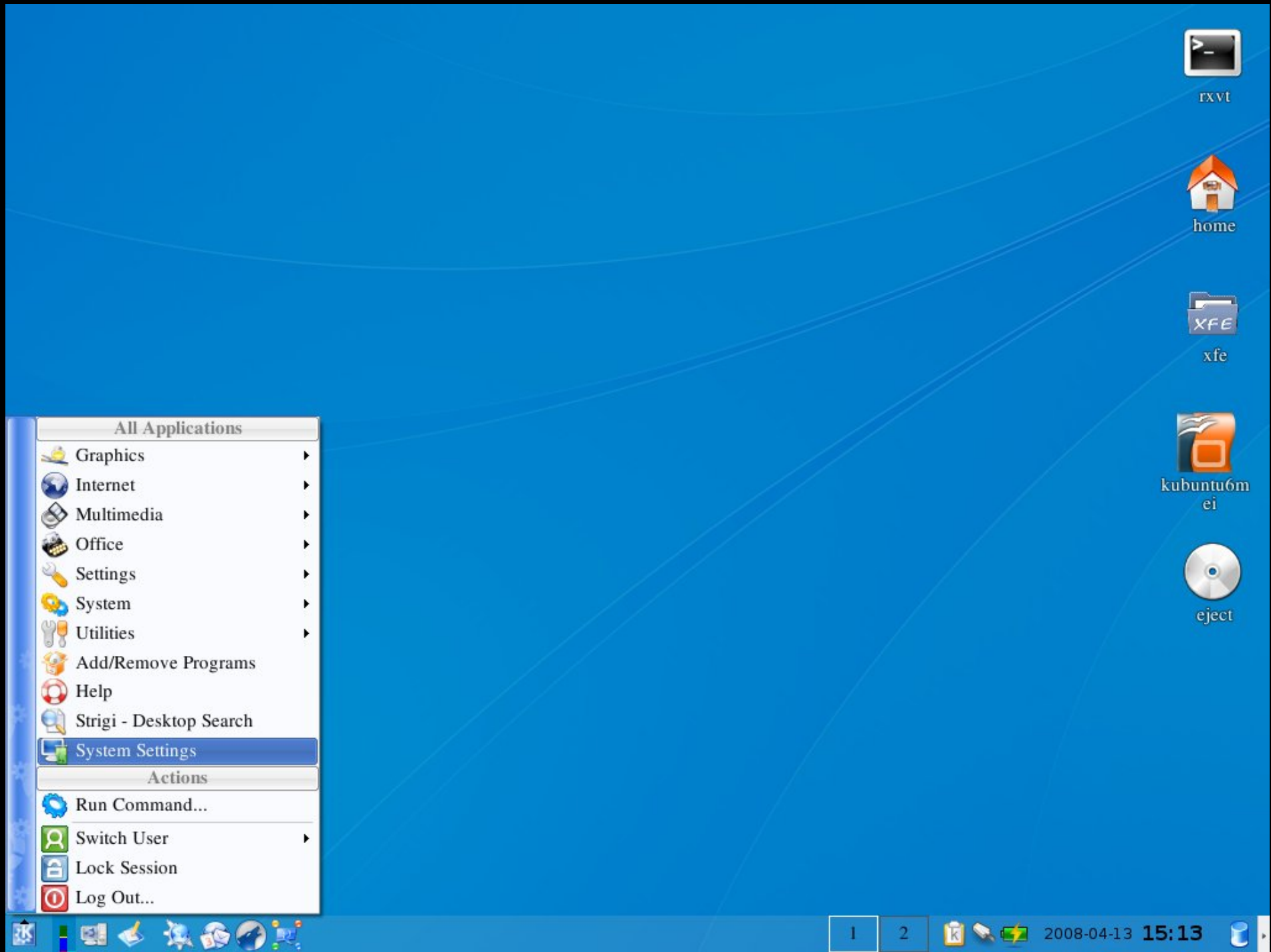
The highlighted entry will be booted automatically in 9 seconds.

installatie **Kubuntu LINUX** hcc Venlo 6 mei 2008



Wat gaan we doen?

1. hardware verkennen (BIOS en Knoppix)
2. veilig stellen van het Master Boot Record
3. extra partities maken met Knoppix en gparted
4. Kubuntu Live-CD starten
5. Kubuntu 7.10 installeren
- 6. geïnstalleerd Kubuntu een beetje aanpassen**



System Settings

File View Settings Help

Overview Search:

General Advanced

Personal

- About Me
- Regional & Language
- Accessibility
- Default Applications

Look & Feel

- Appearance
- Desktop
- Splash Screen
- Window Behavior
- Notifications

Computer Administration

- Date & Time
- Keyboard & Mouse
- Monitor & Display
- Sound System
- Printers
- User Management

Network & Connectivity

- Network Settings
- Sharing
- Bluetooth

installatie **Kubuntu LINUX** hcc Venlo 6 mei 2008

The screenshot shows a Kubuntu desktop environment with a blue background. A terminal window at the top left shows the command `kcontrol` being executed. The main window is the 'Keyboard Layout - KDE Control Center', which is open to the 'Xkb Options' tab. The 'Compose Key Position' section is expanded, and the 'Menu is Compose' option is checked. The command field at the bottom of the window shows `setxkbmap -option compose:menu,altwin:menu`. The desktop has several icons on the right side, including 'home', 'xfe', 'install demo', and 'eject'. The taskbar at the bottom shows various application icons and the system tray with the date and time '2008-04-13 17:34'.

1

2

3

4

```
toine@Kacer: ~  
toine@Kacer:~$ kcontrol  
toine@Kacer:~$
```

Keyboard Layout - KDE Control Center

File View Settings Help

Search:

Keyboard Layout

Layout Switching Options **Xkb Options**

Enable xkb options

Xkb Options

Reset old options

Options

- Four win-keys switch group while pressed.
- Both Ctrl keys together change group.
- Left Alt key switches group while pressed.
- Japanese Keyboard Options
 - Kana Lock key is locking
- Use keyboard LED to show alternative group.
 - CapsLock LED shows alternative group.
 - NumLock LED shows alternative group.
 - ScrollLock LED shows alternative group.
- Compose Key Position
 - Right Ctrl is Compose.
 - Menu is Compose.
 - Left Win-key is Compose.
 - Right Alt is Compose.
 - Caps Lock is Compose.
 - Right Win-key is Compose.
- numpad
 - Shift with numpad keys works as in MS Windows.

Command:

Help Defaults Apply Reset

rxvt

home

xfe

install demo

eject

2008-04-13 17:34

Wat gaan we doen?

1. hardware verkennen (BIOS en Knoppix)
2. veilig stellen van het Master Boot Record
3. extra partities maken met Knoppix en gparted
4. Kubuntu Live-CD starten
5. Kubuntu 7.10 installeren
6. geïnstalleerd Kubuntu een beetje aanpassen
- 7. aanvullende software installeren**

The image shows a Kubuntu Linux desktop environment with a blue background. The application menu is open, displaying a list of applications under the 'System' category. The desktop features several icons: 'rxvt', 'home', 'xfe', 'kubuntu6mei', and 'eject'. The system tray at the bottom right shows the date and time as '2008-04-13 15:11'.

Application Menu (System Category):

- Adept Manager - Manage Packages
- Dolphin - File Manager
- HPLIP Toolbox - Printer Toolbox
- kbluetooth - Bluetooth Server
- KCron - Task Scheduler
- Keep - Backup System
- KInfoCenter - Info Center
- Konsole - Terminal Program
- KPackage - Package Manager
- KSysGuard - Performance Monitor
- KSystemLog - System Logs Viewer
- Kubuntu Device Database
- KWiFiManager - Wireless LAN Manager
- Synaptic Package Manager

Desktop Icons:

- rxvt
- home
- xfe
- kubuntu6mei
- eject

System Tray: 2008-04-13 15:11

installatie **Kubuntu LINUX** hcc Venlo 6 mei 2008

Adept Manager

Adept Edit View Settings Help

Fetch Updates Preview Changes Apply Changes Full Upgrade Undo Redo

Active filters

Search: Match: package name, description, maintainer

Show: not installed, installed, upgradable packages,
with: no changes, install, removal, upgrade requested.

Tags I Want (drop tags here) Tags I Do Not Want (drop tags here)

[none] [none]

Package	Status	Requested	Description
2vcards	not installed	no change	A little perl scr...
3270-common	not installed	no change	Common files f...
3dchess	not installed	no change	3D chess for X...
4digits	not installed	no change	A guess-the-n...
4d9	not installed	no change	Packet Captur...

Smart Simple All

Available Tags

- [devel] Software ...
- [library] Librar...
- [implemented-in]...

Install 0, upgrade 0, remove 0 | 957 installed, 0 upgradable, 23142 available | download: 0B, installation: 0B



rxvt



home



xfe



kubuntu6m
ei



eject

installatie **Kubuntu LINUX** hcc Venlo 6 mei 2008

The screenshot shows the Adept Manager window with the following details:

- Menu:** Adept, Edit, View, Settings, Help
- Toolbar:** Fetch Updates, Preview Changes, Apply Changes, Full Upgrade, Undo, Redo
- Active filters:** Search: [empty] Match: package name, description, maintainer.
- Show:** not installed, installed, upgradable packages, with: no changes, install, removal, upgrade requested.
- Tags:** Tags I Want (drop tags here) [none], Tags I Do Not Want (drop tags here) [none]
- Table:**

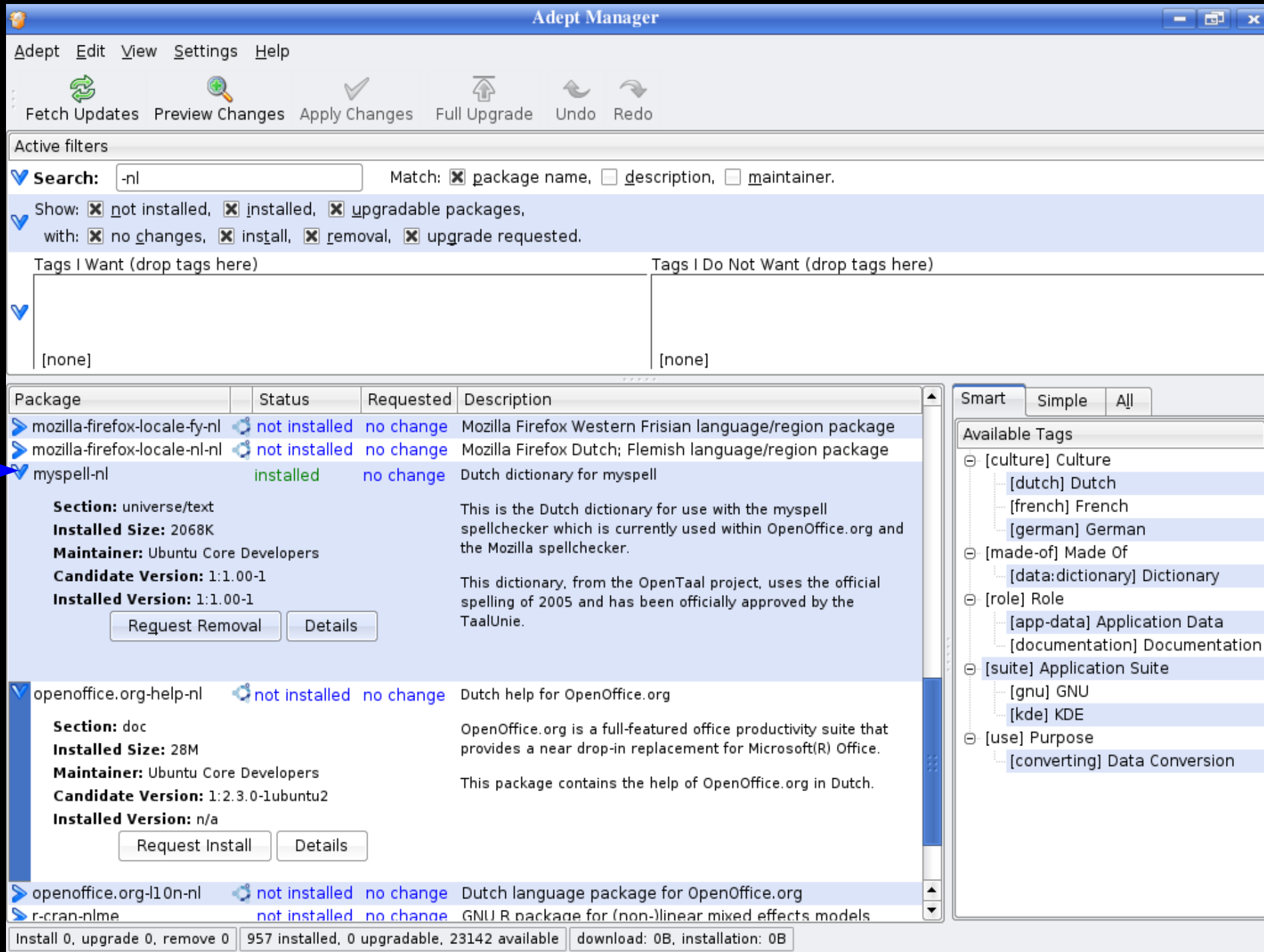
Package	Status	Requested	Description
2vcard	not installed	no change	A little perl script to convert an addressbook to VCARD fil...
3270-common	not installed	no change	Common files for IBM 3270 emulators and pr3287
3dchess	not installed	no change	3D chess for X11
4digits	not installed	no change	A guess-the-number game, aka Bulls and Cows
4g8	not installed	no change	Packet Capture and Interception for Switched Networks
6tunnel	not installed	no change	TCP proxy for non-IPv6 applications
915resolution	not installed	no change	resolution modification tool for Intel graphic chipset
9base	not installed	no change	Plan 9 userland tools
9menu	not installed	no change	Creates X menus from the shell
9wm	not installed	no change	emulation of the Plan 9 window manager 8-1/2
a2mp3	not installed	no change	program to optimize your music for your mp3-player
a2ps	not installed	no change	GNU a2ps - 'Anything to PostScript' converter and pretty-...
a2ps-perl-ja	not installed	no change	perl version of Miguel Santana's a2ps (supports KANJI)
aa3d	not installed	no change	ASCII art stereogram generator
aap	not installed	no change	make-like "expert system" for building software
aap-doc	not installed	no change	make-like "expert system" for building software (docume...
aatv	not installed	no change	A program to watch TV in a text-based console
abakus	not installed	no change	calculator for KDE
abcde	not installed	no change	A Better CD Encoder
abcm2ps	not installed	no change	Translates ABC music description files to PostScript
abcmidi	not installed	no change	converter from ABC to MIDI format and back
abcmidi-yaps	not installed	no change	yet another ABC to PostScript converter

Install 0, upgrade 0, remove 0 | 957 installed, 0 upgradable, 23142 available | download: 0B, installation: 0B

Available Tags:

- [devel] Software Development
 - [library] Libraries
- [implemented-in] Implemented in
 - [c] C
- [interface] User Interface
 - [commandline] Command Line
 - [x11] X Window System
- [role] Role
 - [program] Program
 - [shared-lib] Shared Library
- [scope] Scope
 - [utility] Utility
- [uitoolkit] Interface Toolkit
 - [gtk] GTK
- [x11] X Windowing System
 - [application] Application

installatie **Kubuntu LINUX** hcc Venlo 6 mei 2008

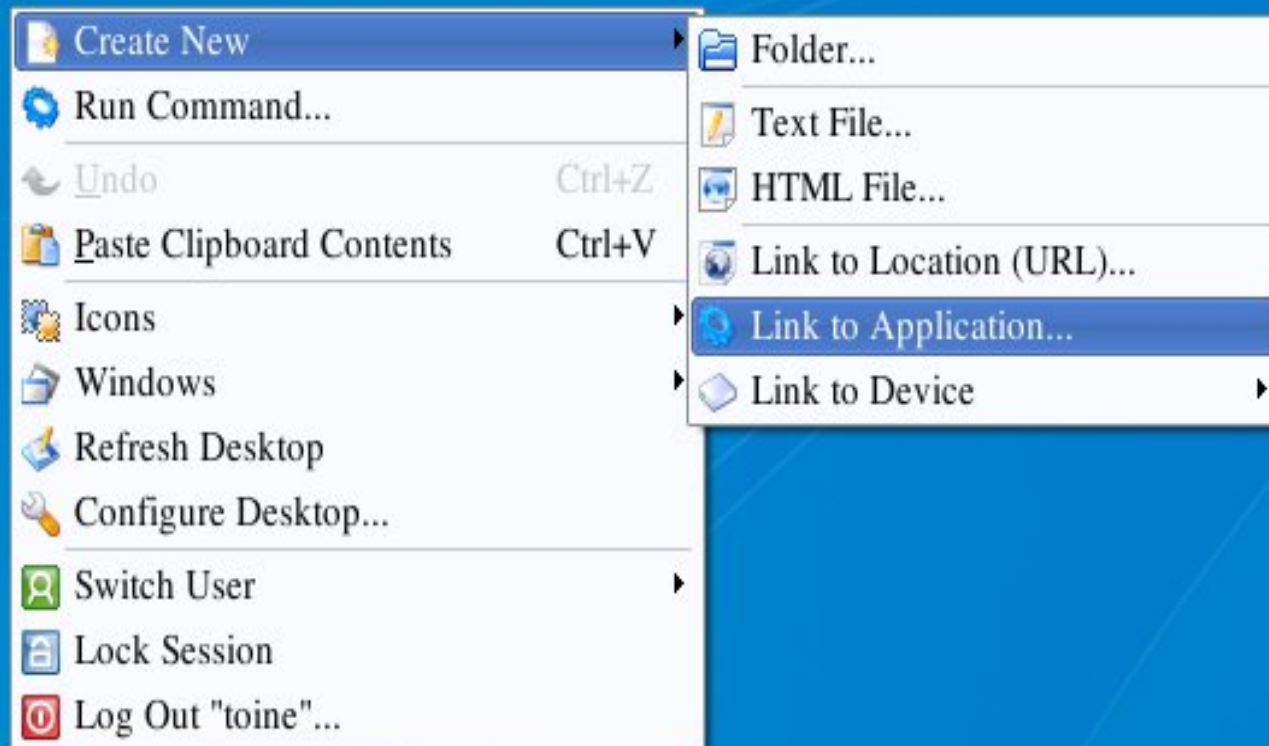


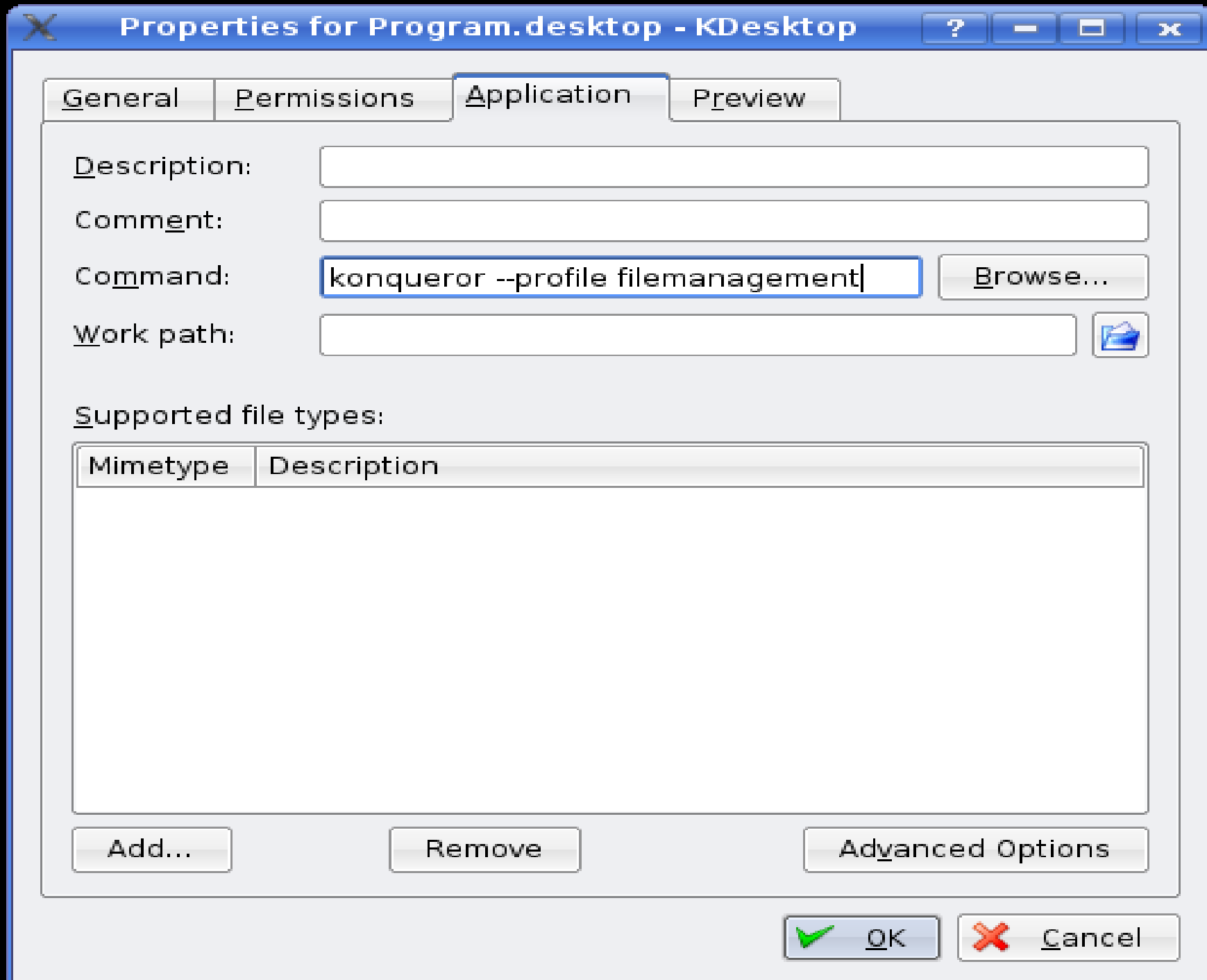
The screenshot shows the Adept Manager window with the following details:

- Menu:** Adept, Edit, View, Settings, Help
- Toolbar:** Fetch Updates, Preview Changes, Apply Changes, Full Upgrade, Undo, Redo
- Active filters:** Search: -nl; Match: package name, description, maintainer.
- Show:** not installed, installed, upgradable packages.
- with:** no changes, install, removal, upgrade requested.
- Tags I Want / I Do Not Want:** [none]
- Package List:**

Package	Status	Requested	Description
mozilla-firefox-locale-fy-nl	not installed	no change	Mozilla Firefox Western Frisian language/region package
mozilla-firefox-locale-nl-nl	not installed	no change	Mozilla Firefox Dutch; Flemish language/region package
myspell-nl	installed	no change	Dutch dictionary for myspell
openoffice.org-help-nl	not installed	no change	Dutch help for OpenOffice.org
openoffice.org-l10n-nl	not installed	no change	Dutch language package for OpenOffice.org
r-cran-nlme	not installed	no change	GNU R package for (non-)linear mixed effects models
- Details for myspell-nl:**
 - Section: universe/text
 - Installed Size: 2068K
 - Maintainer: Ubuntu Core Developers
 - Candidate Version: 1:1.00-1
 - Installed Version: 1:1.00-1
 - Buttons: Request Removal, Details
- Details for openoffice.org-help-nl:**
 - Section: doc
 - Installed Size: 28M
 - Maintainer: Ubuntu Core Developers
 - Candidate Version: 1:2.3.0-1ubuntu2
 - Installed Version: n/a
 - Buttons: Request Install, Details
- Available Tags (Smart view):**
 - [culture] Culture
 - [dutch] Dutch
 - [french] French
 - [german] German
 - [made-of] Made Of
 - [data:dictionary] Dictionary
 - [role] Role
 - [app-data] Application Data
 - [documentation] Documentation
 - [suite] Application Suite
 - [gnu] GNU
 - [kde] KDE
 - [use] Purpose
 - [converting] Data Conversion

- Status Bar:** Install 0, upgrade 0, remove 0 | 957 installed, 0 upgradable, 23142 available | download: 0B, installation: 0B





installatie **Kubuntu LINUX** hcc Venlo 6 mei 2008

The image shows a Kubuntu Linux desktop environment with a blue background. An application menu is open on the left side, displaying various categories and actions. On the right side of the desktop, there are several icons: a terminal window labeled 'rxvt', a home directory icon labeled 'home', a folder icon labeled 'xfe', an 'install demo' icon, and a CD icon labeled 'eject'. The taskbar at the bottom shows the system tray with the date and time '2008-04-13 16:33' and the active window title 'kubuntu6mei - OpenOffice'.

All Applications

- Graphics
- Internet
- Multimedia
- Office
- Settings
- System
- Utilities
- Add/Remove Programs
- Help
- Strigi - Desktop Search
- System Settings

Actions

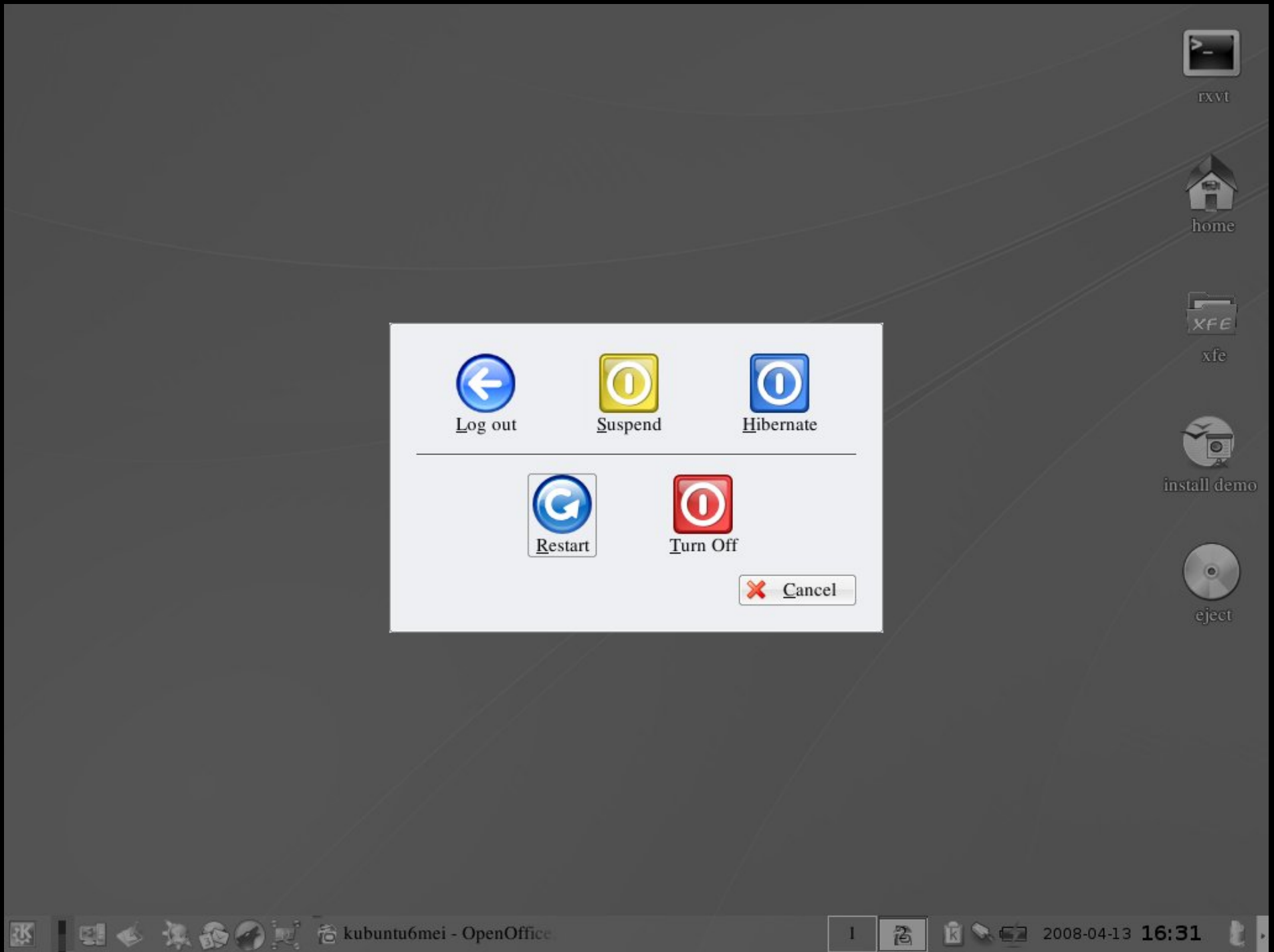
- Run Command...
- Switch User
- Lock Session
- Log Out...

Desktop icons:

- rxvt
- home
- xfe
- install demo
- eject

Taskbar: 1 | [Icons] | 2008-04-13 16:33 | kubuntu6mei - OpenOffice

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installatie **Kubuntu LINUX**

achtergrondinformatie

3. DISTRIBUTIE

Definitie distributie:

“A software distribution is a bundle of a specific software, already compiled and configured. It is generally the closest thing to a turnkey form of a usually open source source code for a software.”

M.a.w. **kernel + modules + programma's**

keuze distributie

desktop

<->

server

keuze distributie

desktop

<->

server
stabiel

keuze distributie

desktop
up-to-date

<->

server
stabiel

keuze distributie

desktop

<->

server

up-to-date

stabiel

gemakkelijke installatie

keuze distributie

desktop

<->

server

up-to-date

stabiel

gemakkelijke installatie

goede hardware herkenning

keuze distributie

desktop

<->

server

up-to-date

stabiel

gemakkelijke installatie

goede hardware herkenning

veel kernel modules (drivers)

keuze distributie

desktop

<->

server

up-to-date

stabiel

gemakkelijke installatie

goede hardware herkenning

veel kernel modules (drivers)

desktop manager

keuze distributie

desktop

<->

server

up-to-date

stabiel

gemakkelijke installatie

goede hardware herkenning

veel kernel modules (drivers)

desktop manager

actieve community

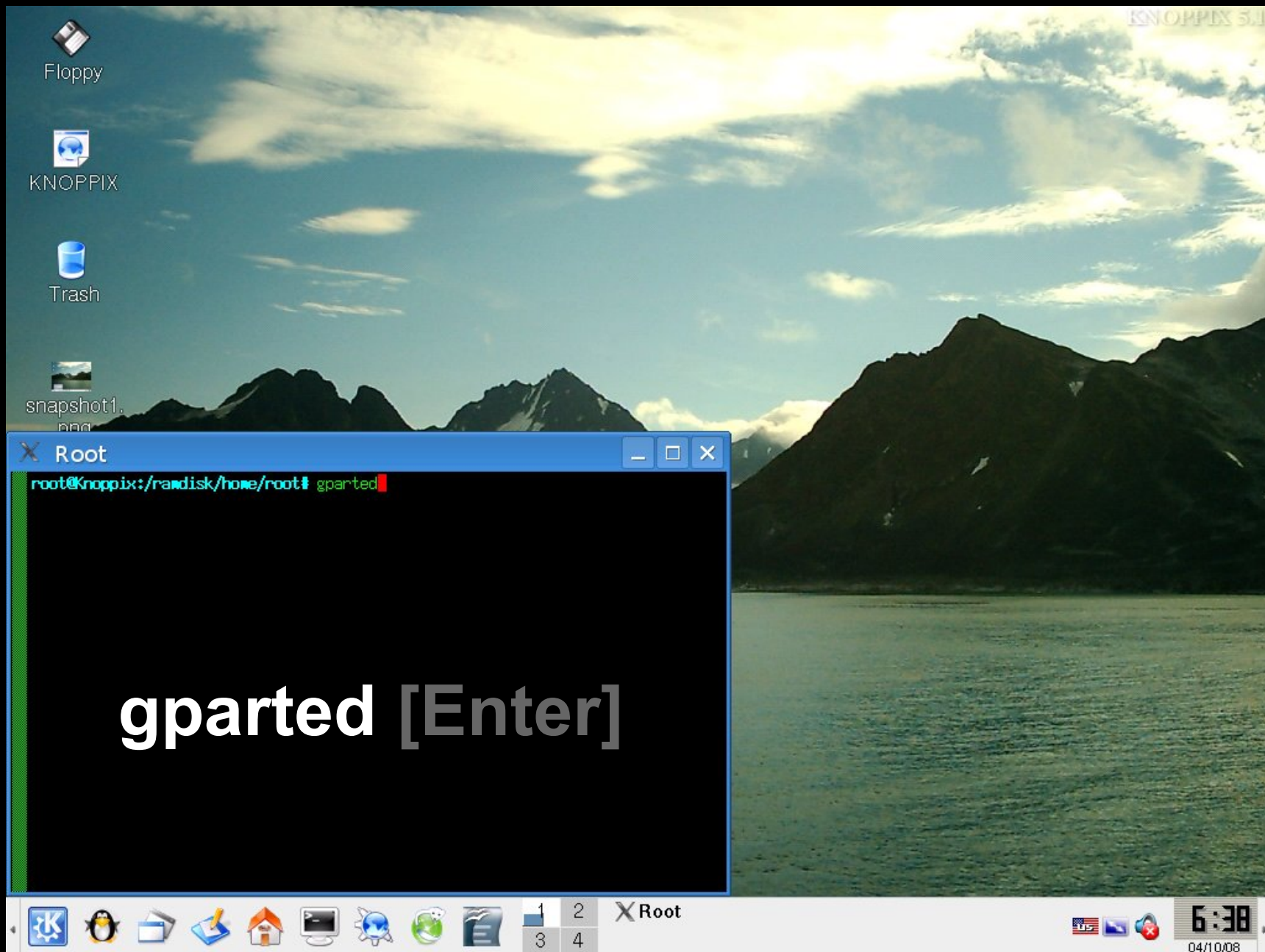
Wat gaan we doen?

1. hardware verkennen (BIOS en Knoppix)
 2. veilig stellen van het Master Boot Record
 3. extra partities maken met Knoppix en gparted
 4. Kubuntu Live-CD starten
 5. Kubuntu 7.10 installeren
 6. geïnstalleerd Kubuntu een beetje aanpassen
 7. aanvullende software installeren
- eventueel:**
- 8. Kubuntu deïnstalleren (met Knoppix en gparted)**

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Partition Table Data:

Partition	Filesystem	Mountpoint	Size	Used	Unused	Flags
/dev/sda1	ext3	/media/sda1	12.00 GiB	3.75 GiB	8.25 GiB	
/dev/sda2	linux-swap		1.50 GiB	---	---	
/dev/sda3	ext3	/media/sda3	61.00 GiB	8.91 GiB	52.09 GiB	
▼ /dev/sda4	extended		74.54 GiB	---	---	
/dev/sda5	ext2	/media/sda5	7.00 GiB	2.60 GiB	4.40 GiB	
/dev/sda7	ext2	/media/sda7	15.86 GiB	309.20 MiB	15.56 GiB	
unallocated	unallocated		48.61 GiB	---	---	
/dev/sda6	linux-swap		3.08 GiB	---	---	

Terminal Output:

```
root@Knoppix:/ra
=====
libparted : 1.7.
automounting dis
=====
Unable to open /
Unable to open /
Unable to open /
Unable to open /
Unable to open /
Unable to open /
0 operations pending
Unable to open /dev/cloopb - unrecognized disk label.
Unable to open /dev/cloop7 - unrecognized disk label.
Unable to open /dev/hdb read-write (Read-only file system). /dev/hdb has been o
pened read-only.
Unable to open /dev/hdb - unrecognized disk label.
█
```

Wat gaan we doen?

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- eventueel:*
8. Kubuntu deïnstalleren
- 9. herstellen MBR met Knoppix**

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The image shows a Kubuntu desktop environment with a Konqueror file manager window open. A blue arrow points to the 'Hard Disk [hda1]' icon in the left sidebar. The Konqueror window displays the contents of the '/media/hda7' location, showing two folders: 'lost+fo...' and 'toine'. The desktop background is a landscape with mountains and a cloudy sky. The taskbar at the bottom shows various application icons and the system tray with the date '04/12/08' and time '13:34'.

Location: /media/hda7

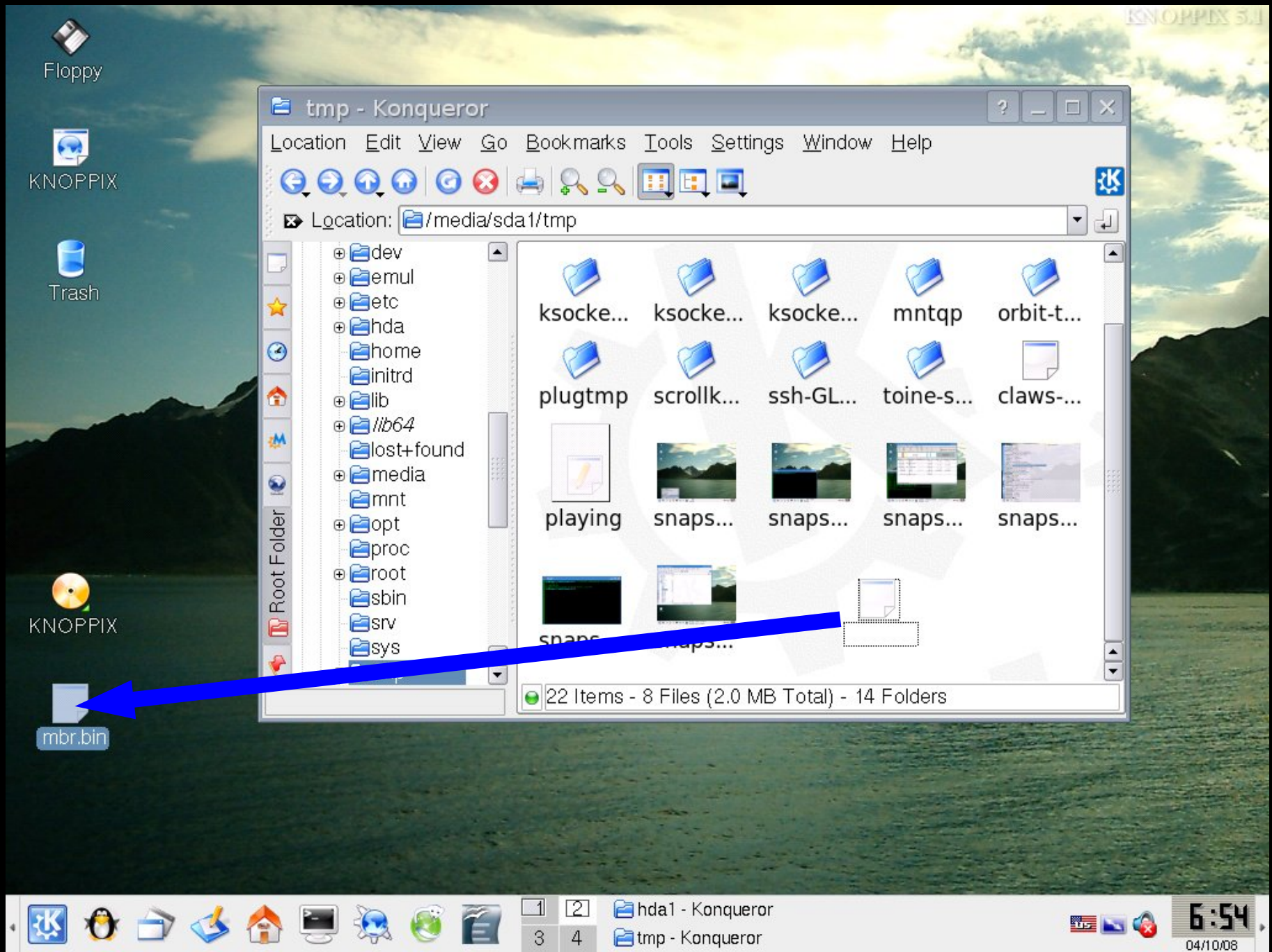
lost+fo... toine

2 Items - No Files - 2 Folders

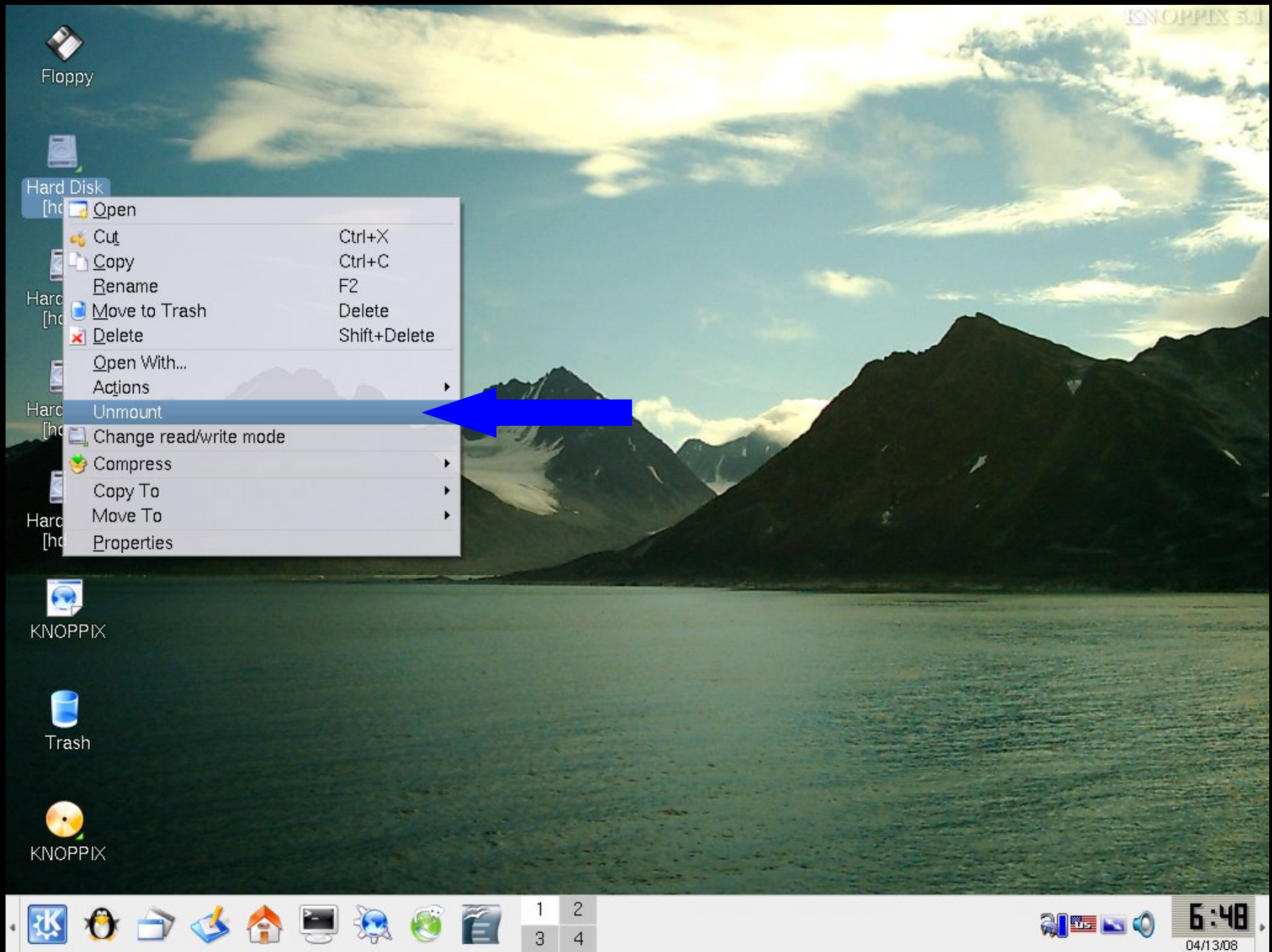
hda7 - Konqueror

04/12/08 13:34

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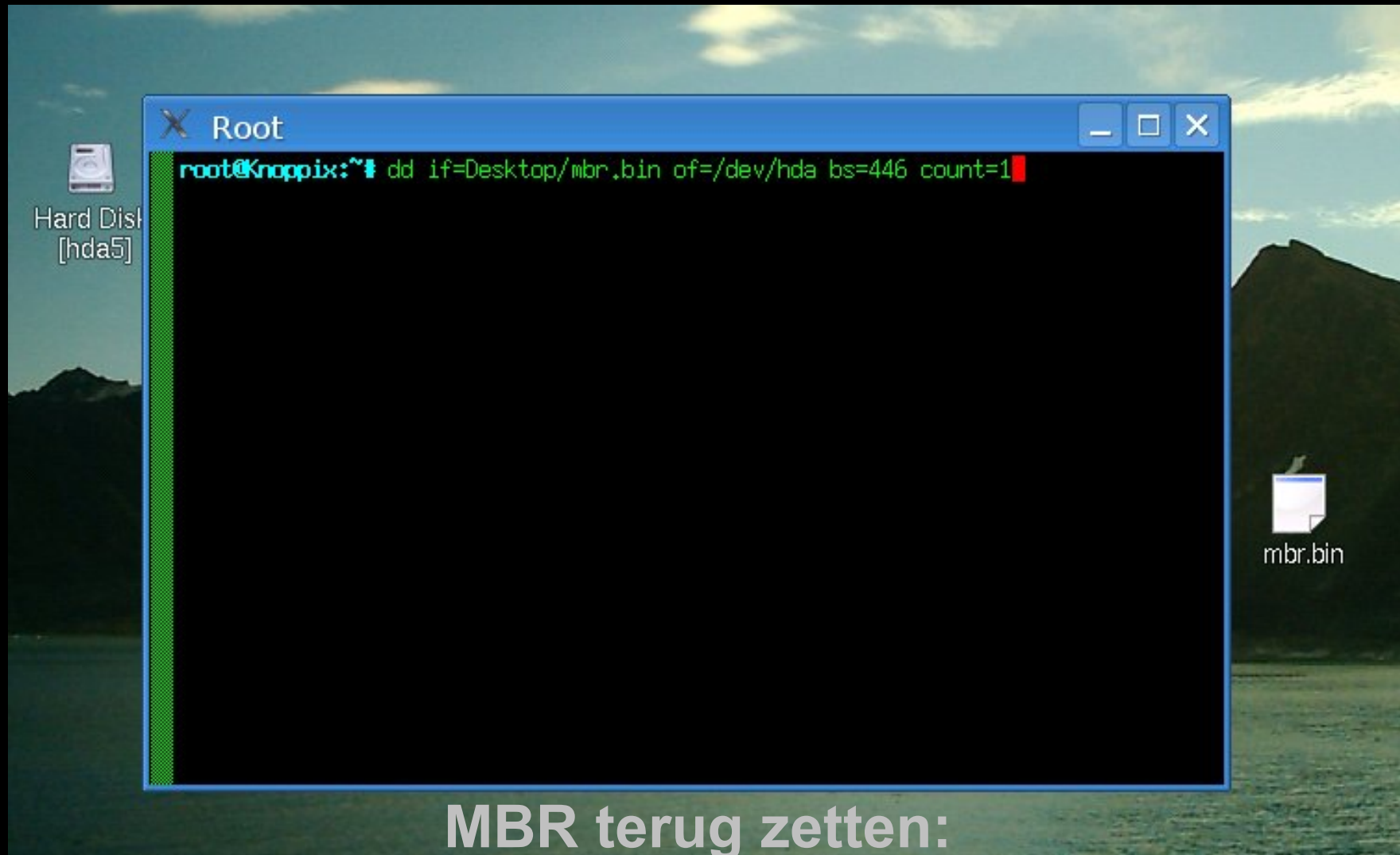


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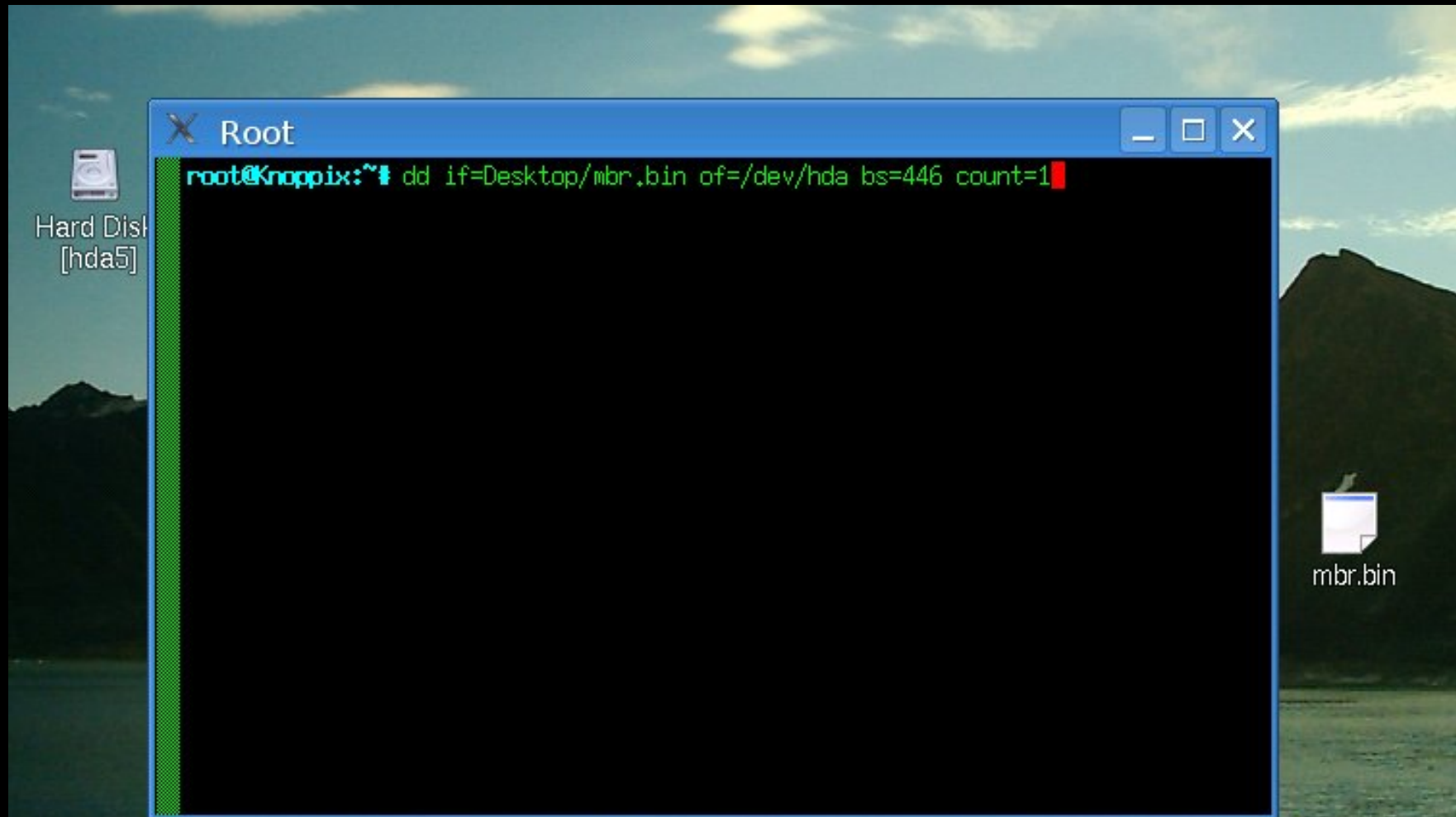
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MBR terug zetten:

`dd if=Desktop/mbr.bin of=/dev/hda bs=446 count=1`



MBR terug zetten:

```
dd if=Desktop/mbr.bin of=/dev/hda bs=446 count=1  
[Enter]
```

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