



LABO LINUX

Installatie Ubuntu

project 1

Door:

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1^{ste} fase bachelor
electronica-ICT

2014-2014

1 Inhoud

Inhoudsopgave

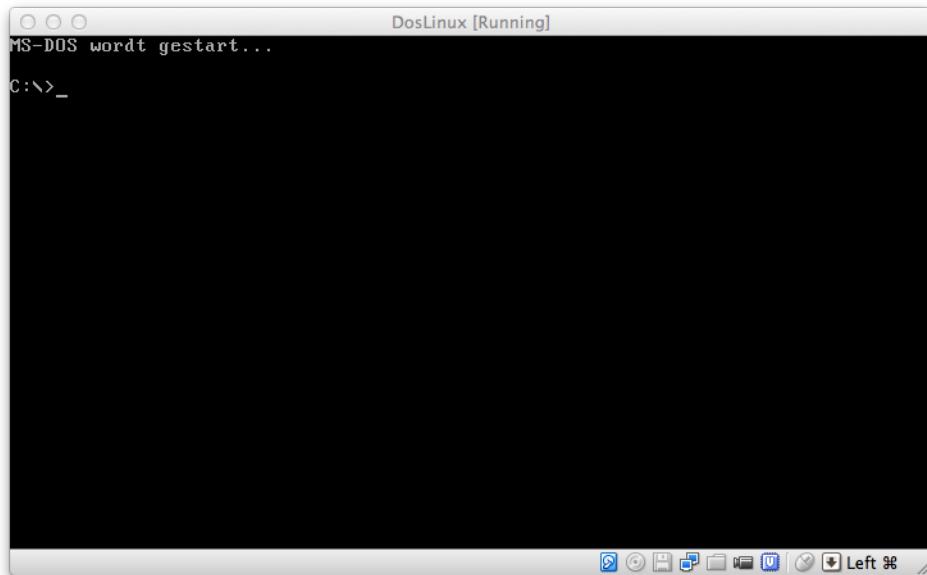
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2 Doelstelling

Het doel is om Ubuntu te installeren op een installatie van DOS, die later nog steeds bruikbaar moet zijn. Ik heb VirtualBox gebruikt, en ik heb gemerkt dat de inhoud van het .vmx-bestand niet veranderd is voor en na het opstarten, installeren en gebruiken van Ubuntu. Ik heb het daarom niet bijgevoegd.

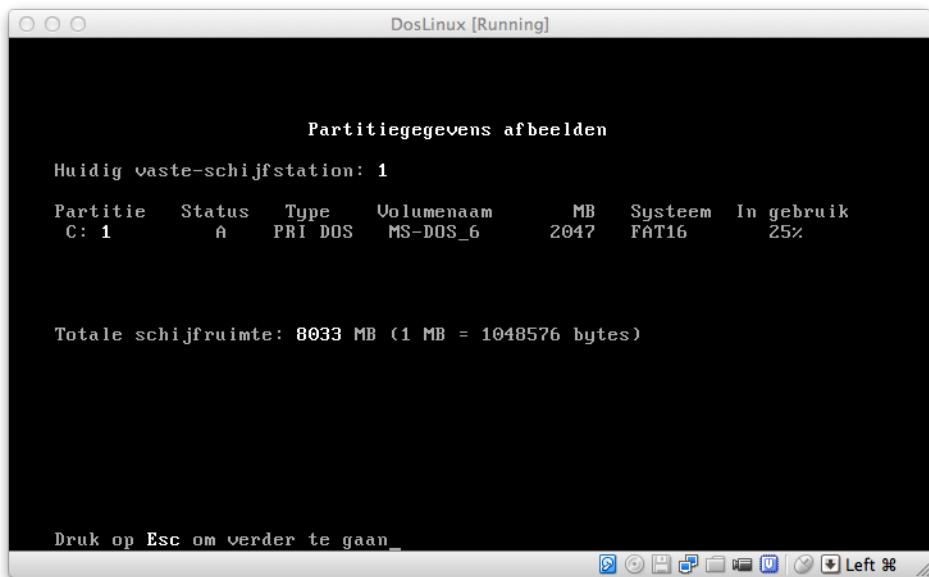
3 Installatie van Ubuntu

Eerst wordt DOS opgestart in VirtualBox. Dit doen we door de .vmdk te openen die op Toledo te vinden is.



Figuur 1: DOS-Venster

In DOS wordt de vrije ruimte bekijken met 'fdisk'



DosLinux [Running]

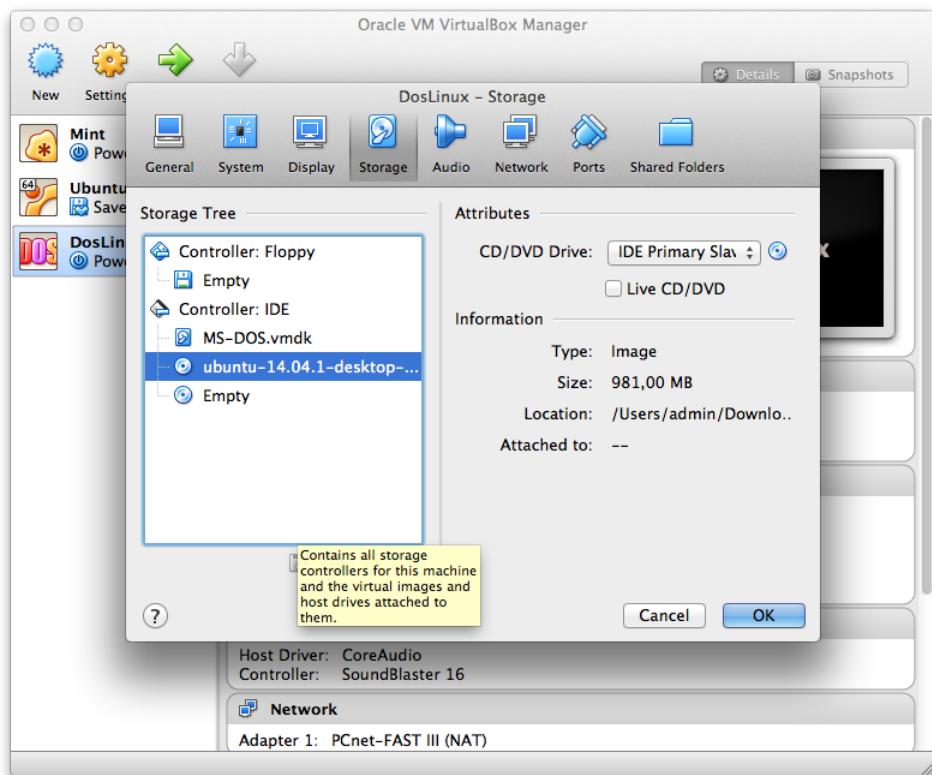
```
Partitiegegevens afbeelden
Huidig vaste-schijfstation: 1
Partitie   Status    Type      Volumenaam      MB     Systeem   In gebruik
C: 1       A        PRI DOS  MS-DOS_6      2047    FAT16     25%
Totale schijfruimte: 8033 MB (1 MB = 1048576 bytes)

Druk op Esc om verder te gaan_

```

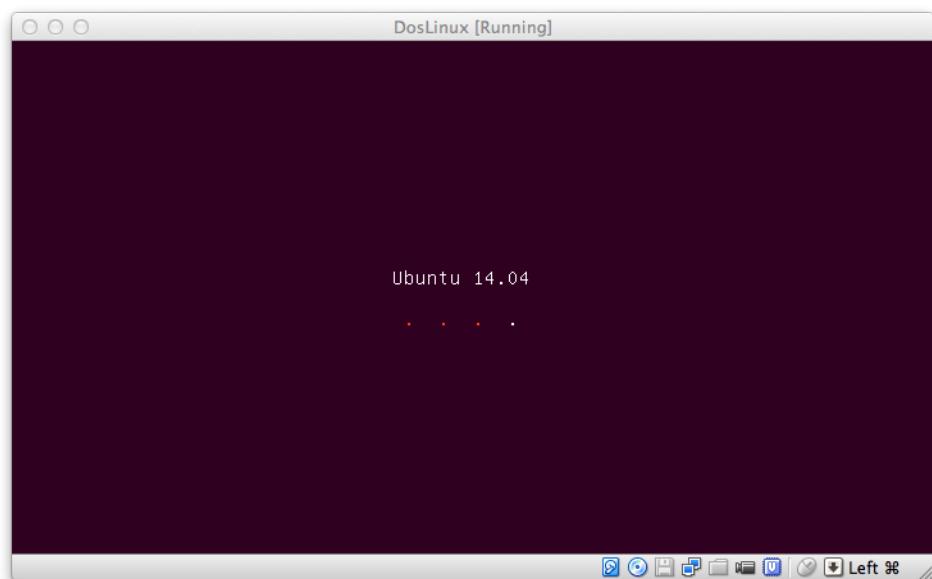
Figuur 2: *fdisk*

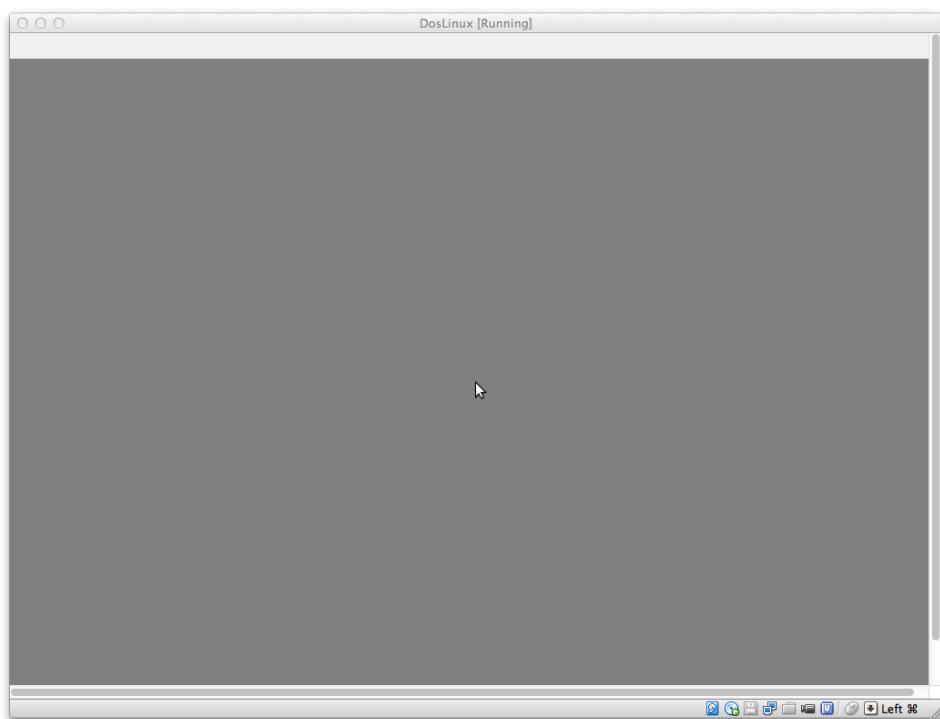
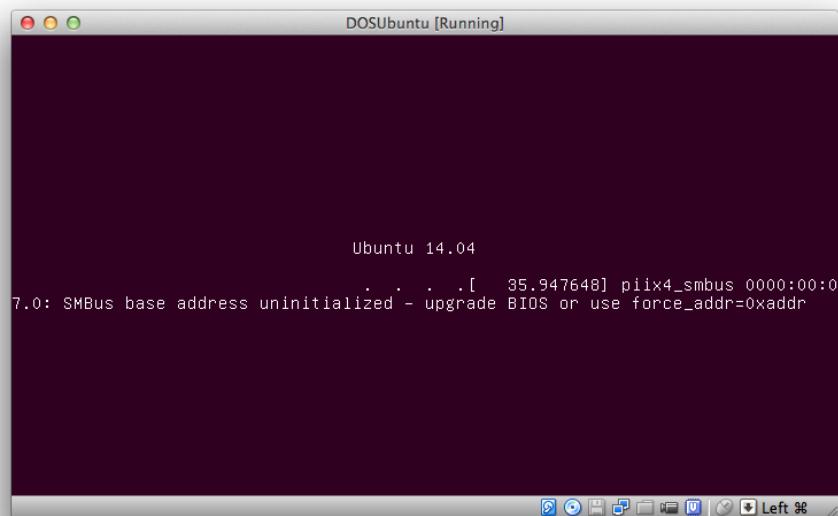
Dan wordt de live-cd van Ubuntu gekoppeld:

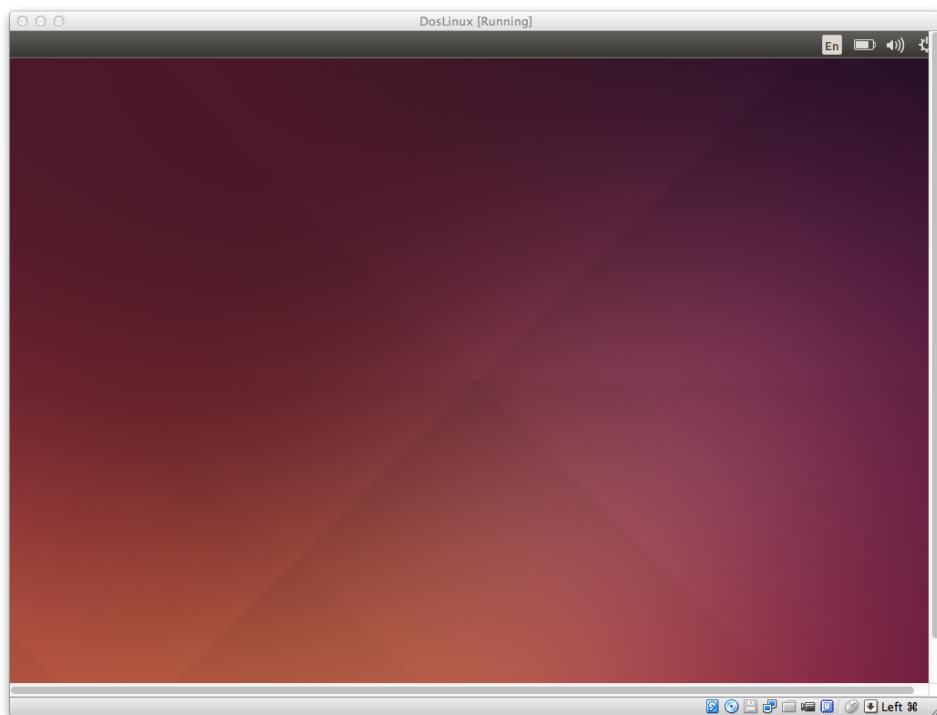


Figuur 3: VirtualBox instellingen

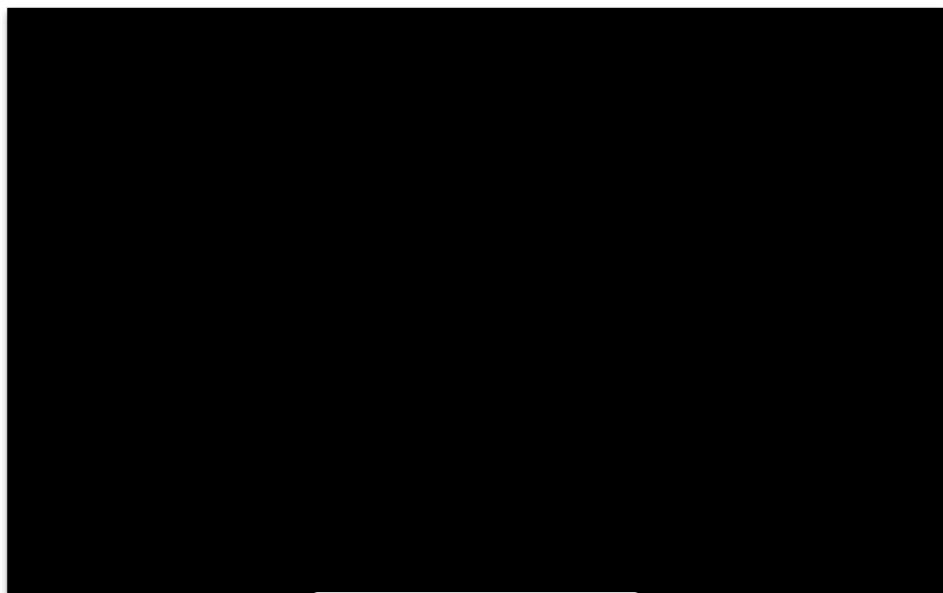
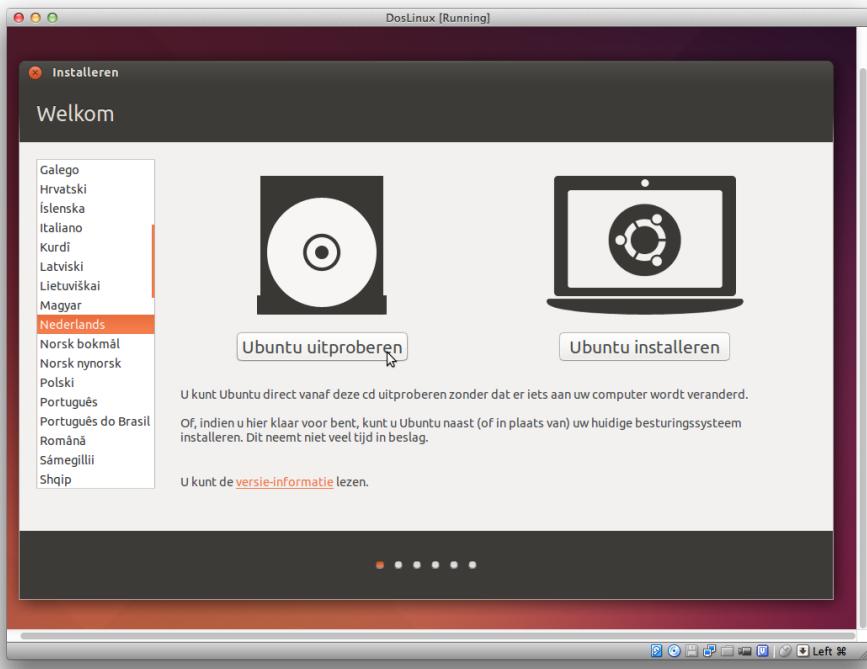
Hierna start Ubuntu op:

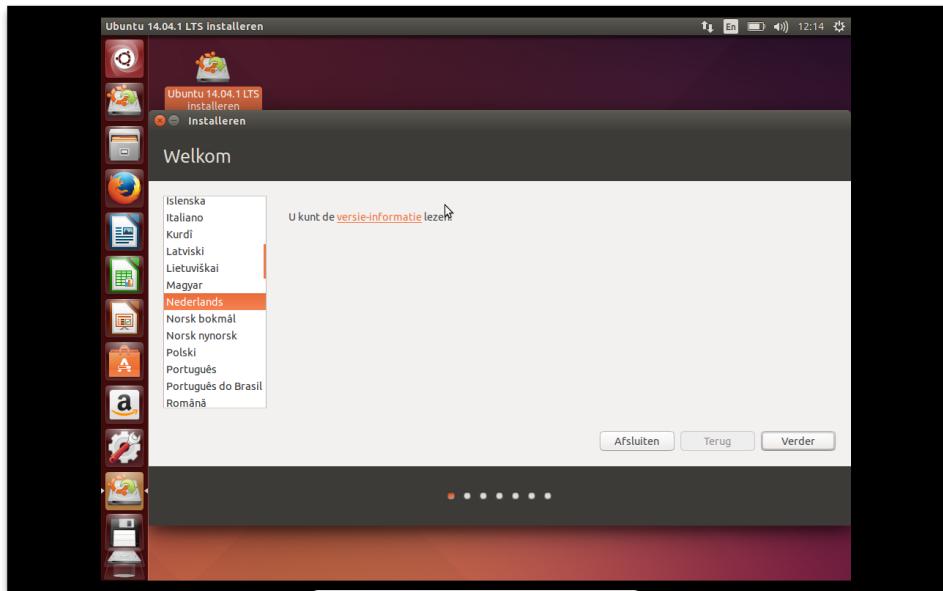
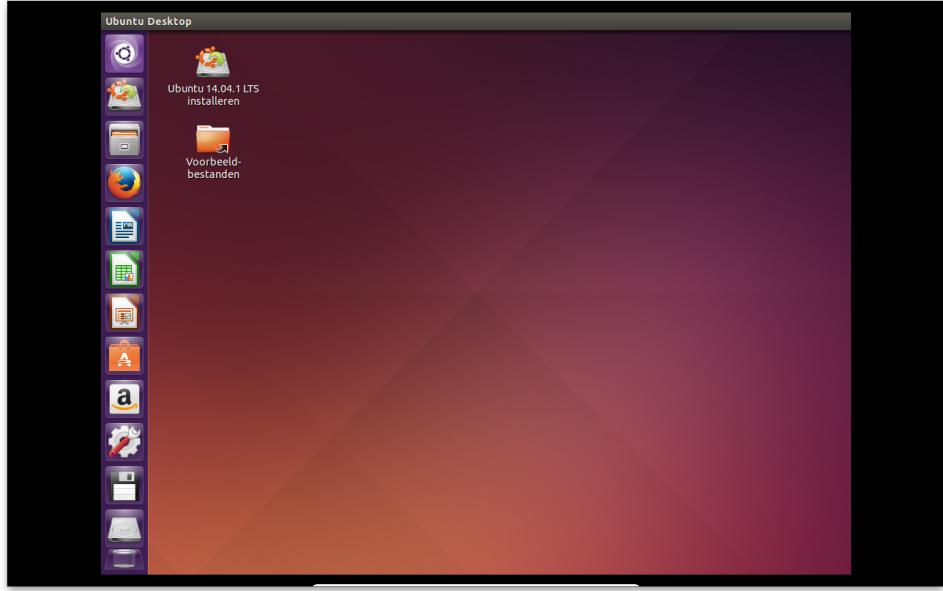


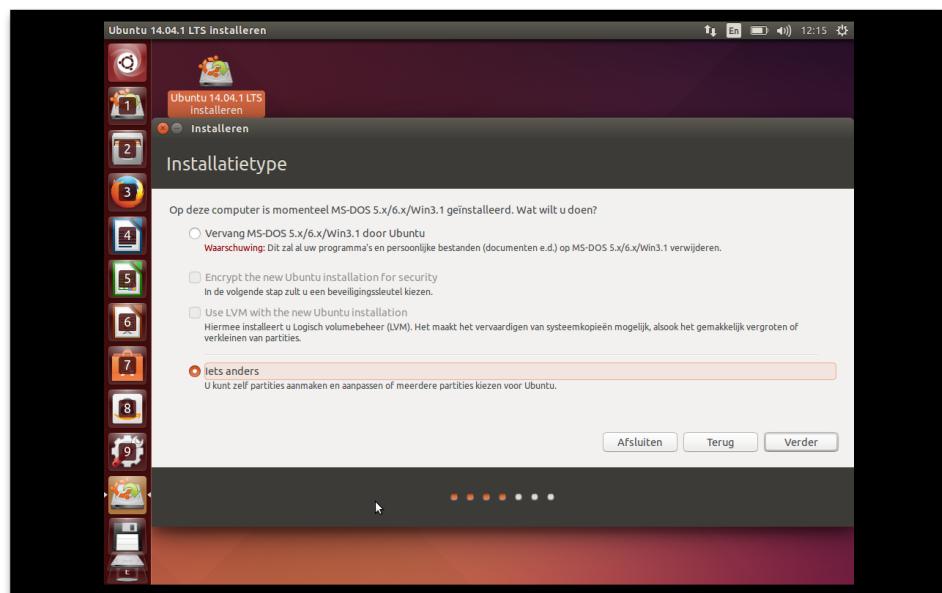
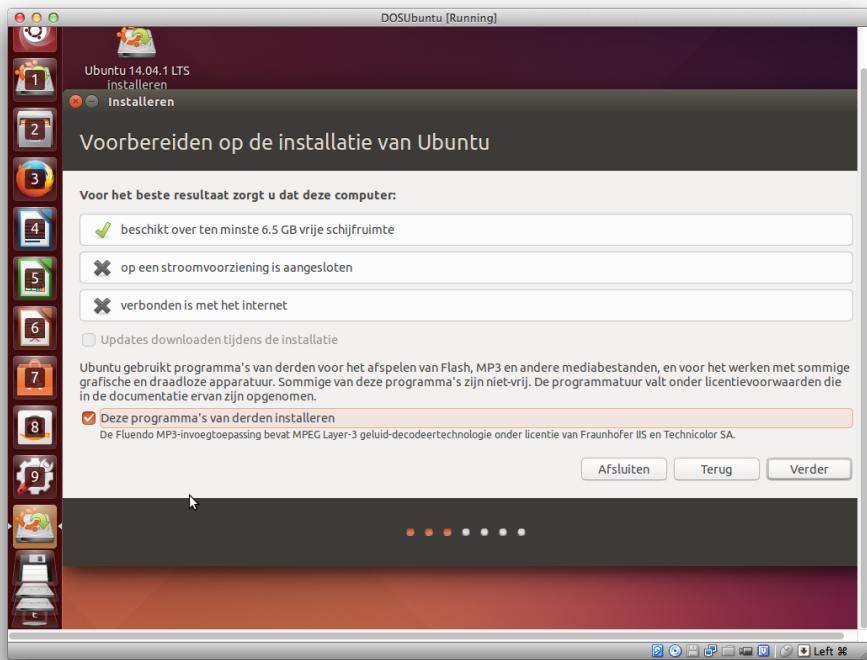


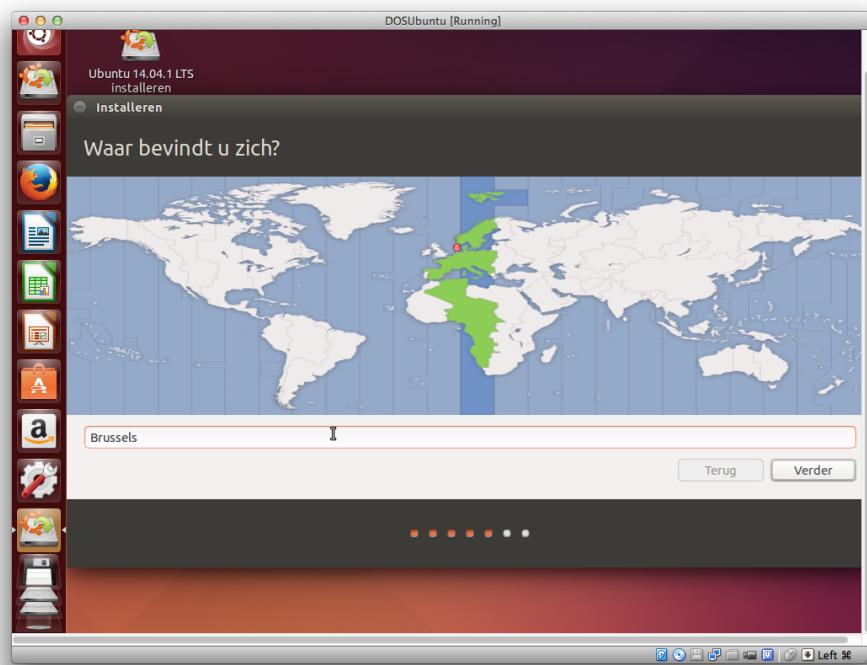
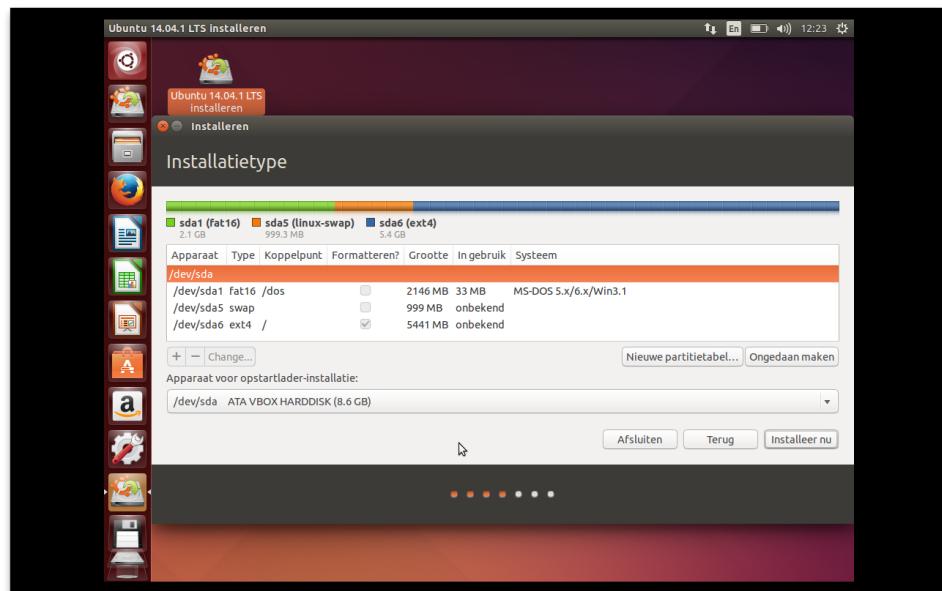


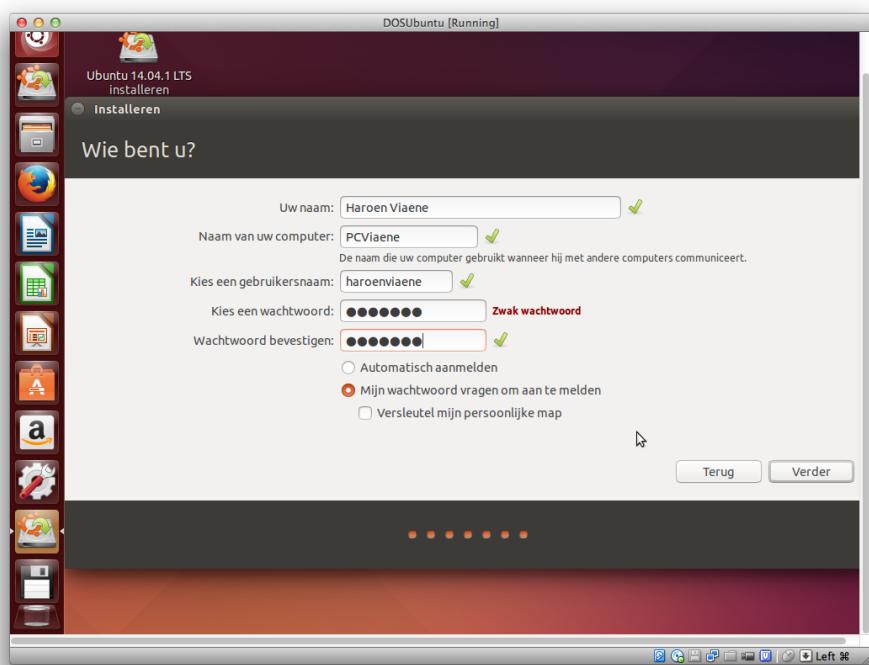
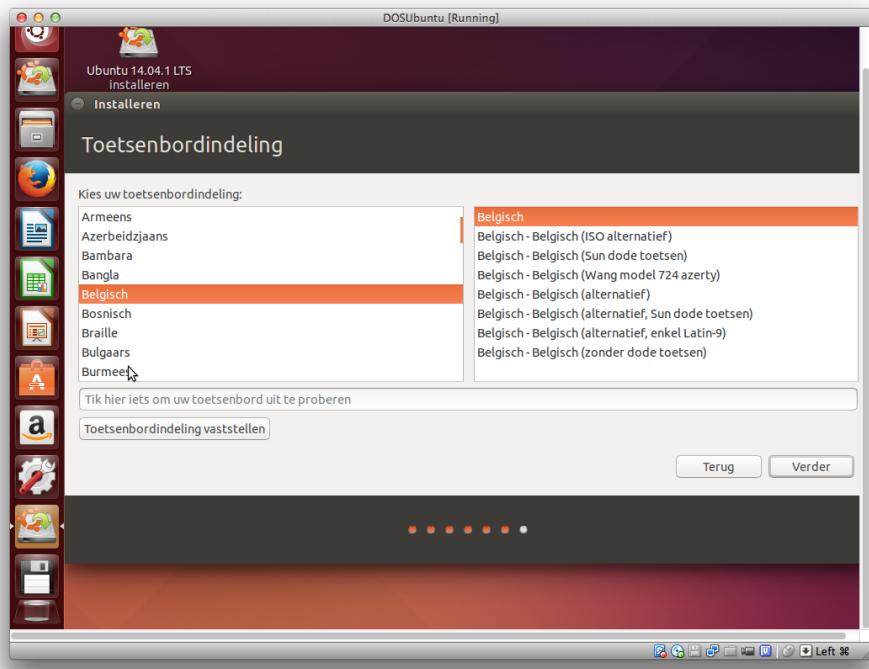
Nu kan Ubuntu echt geïnstalleerd worden.

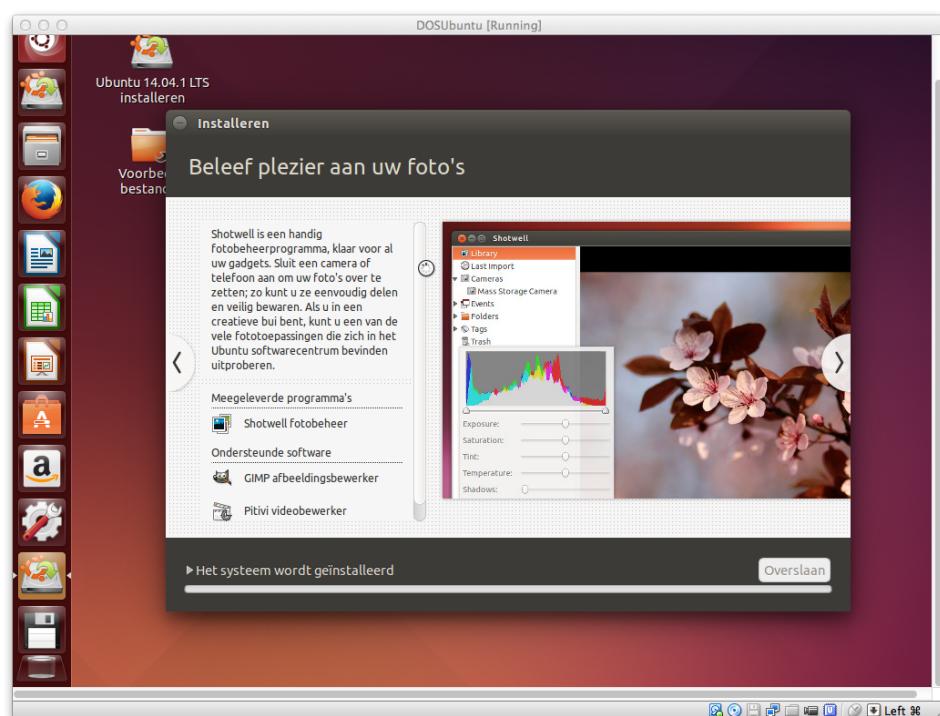




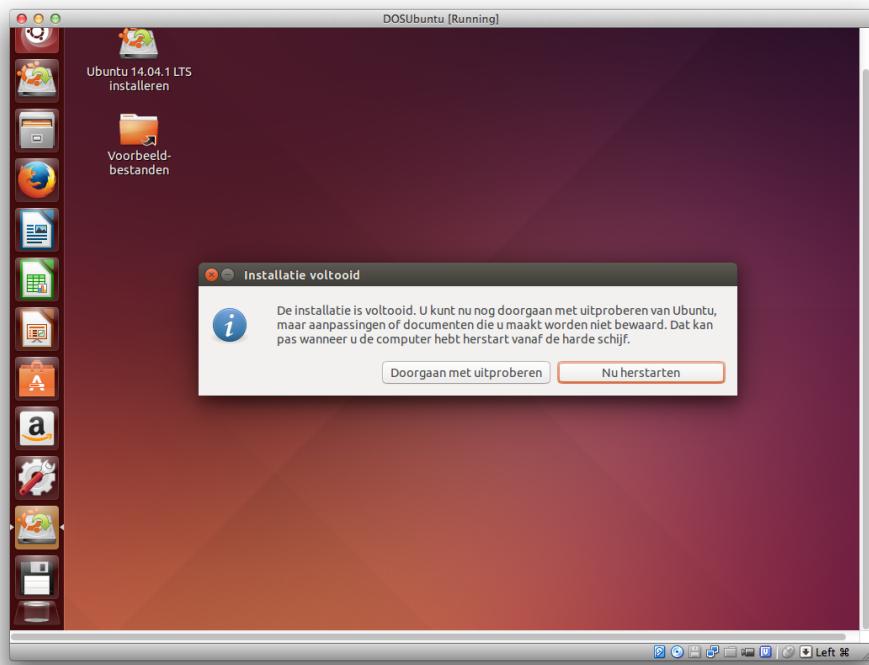




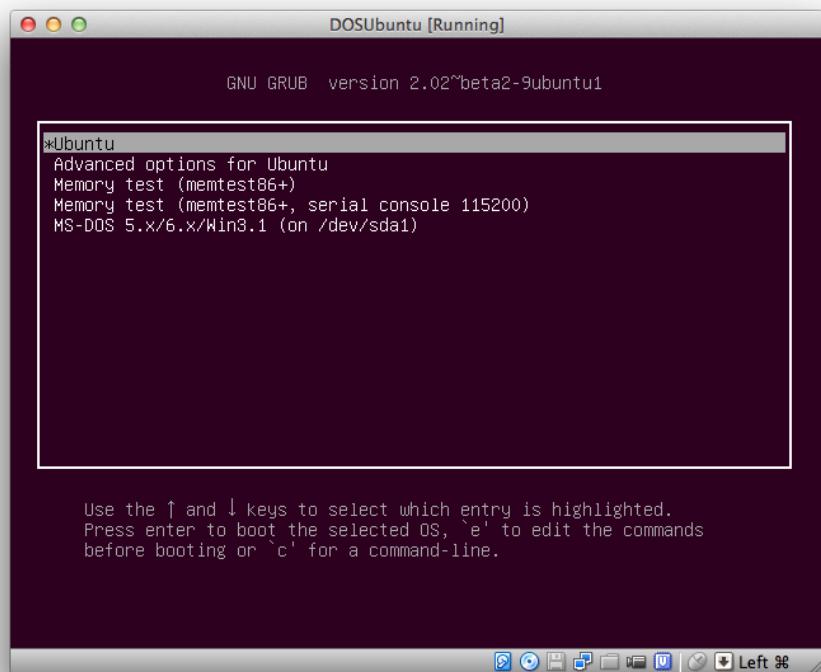




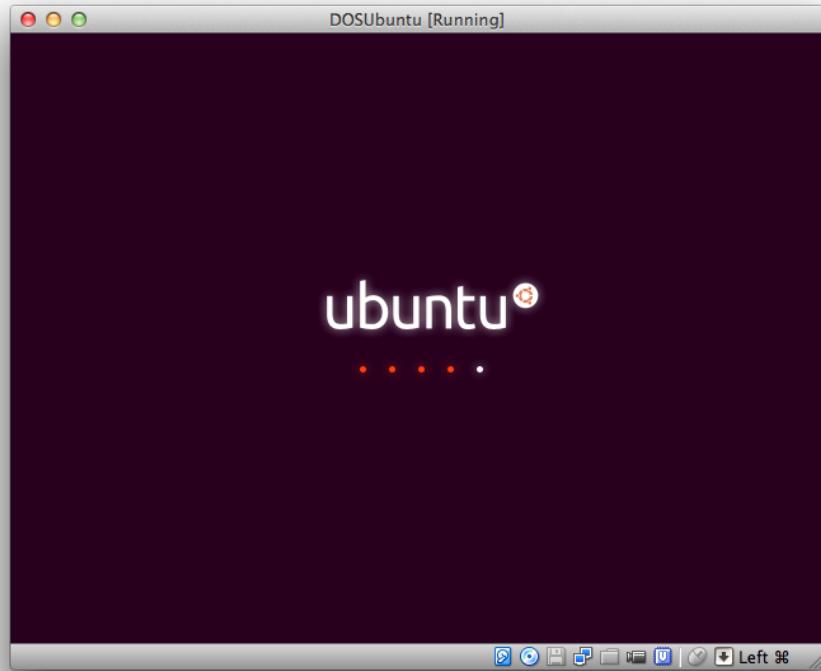
Nu moet de VM herstarten:

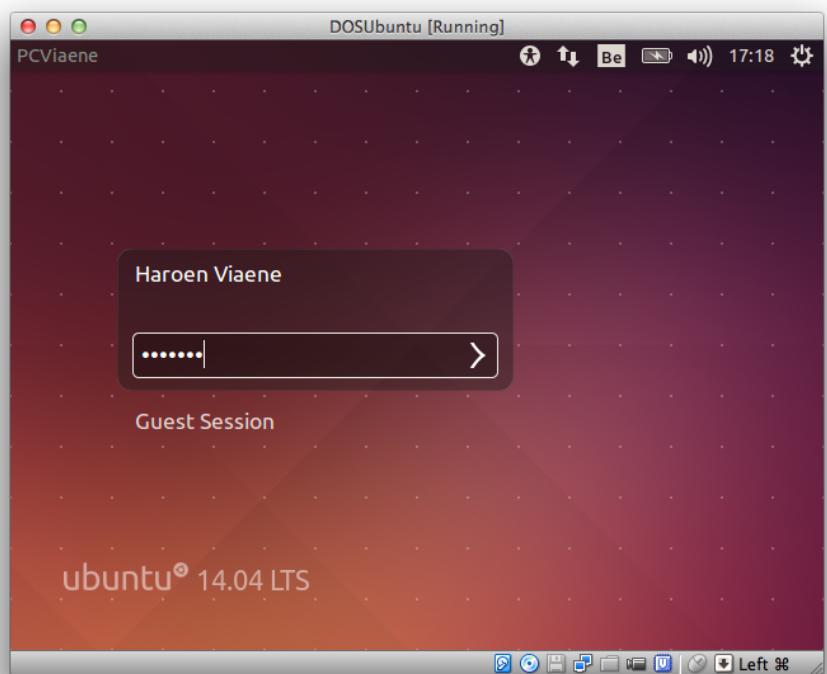


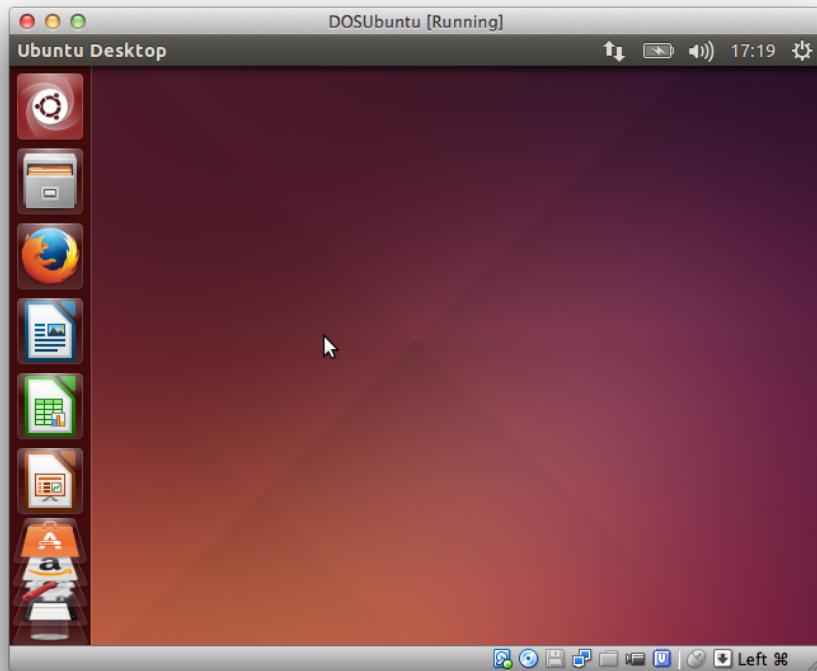
Waarna de ISO uit de virtuele schijf verwijderd moet worden.



De rest van de boot verloopt goed.







4 Tijdens de installatie

1. LTS betekent long term support. Bij Ubuntu is er elke twee jaar een nieuwe grote versie. Sinds Ubuntu 12.04 worden de grote versies 5 jaar ondersteund. Vroeger was Desktop 2 jaar en Server 5 jaar.
2. man ifconfig:

IFCONFIG(8)	BSD System Manager's Manual	IFCONFIG(8)
-------------	-----------------------------	-------------

NAME
ifconfig -- configure network interface parameters

SYNOPSIS

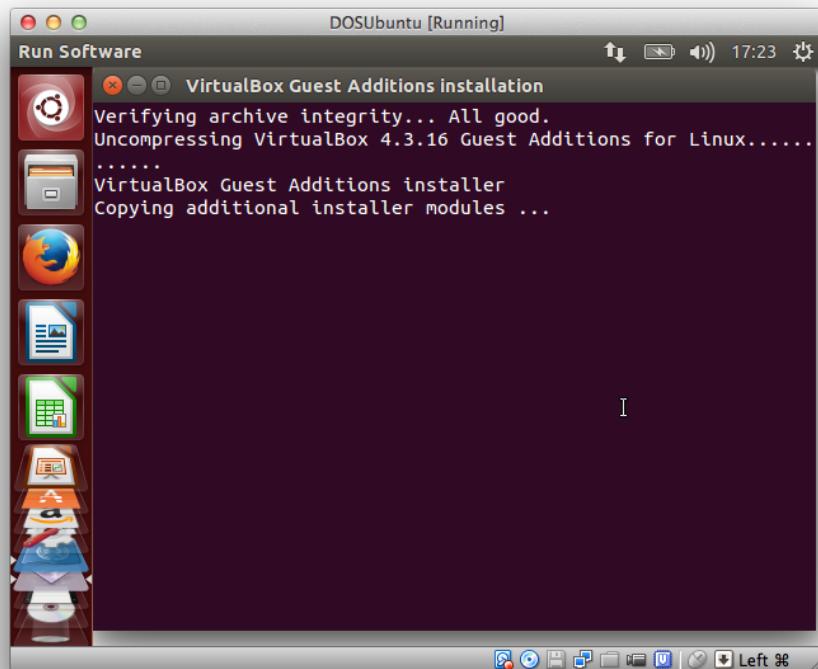
```
ifconfig [-L] [-m] [-r] interface [create] [address_family] [address
[dest_address]] [parameters]
ifconfig interface destroy
ifconfig -a [-L] [-d] [-m] [-r] [-u] [-v] [address_family]
ifconfig -l [-d] [-u] [address_family]
ifconfig [-L] [-d] [-m] [-r] [-u] [-v] [-C]
```

```
ifconfig interface wlan wlan-tag wlan-dev iface
```

3. main officially supported software, restricted is niet helemaal gratis software die wel volledig ondersteund is, universe is community maintained software, multiverse is betalende software
4. sudo adduser <username> sudo

5 Uittesten

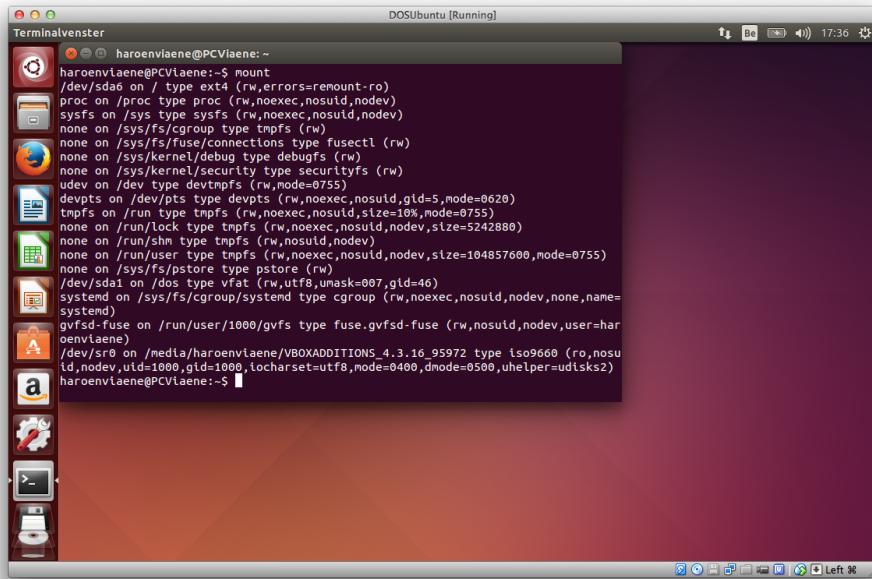
Allereerst wordten de VirtualBox guest additions geïnstalleerd, zodat onder andere de schermresolutie in een iets verdraagbare grootte is en de muis uit het venster kan gaan zonder van programma te wisselen.



Figuur 4: Installatie van de Guest Additions

Na een restart kunnen we nu echt beginnen.

In een terminalvenster wordt mount ingevoerd:



```
DOSUbuntu [Running]
Terminalvenster
haroenvlaene@PCVlaene:~$ mount
/dev/sda6 on / type ext4 (rw,noexec,nosuid,nodev)
proc on /proc type proc (rw,noexec,nosuid,nodev)
sysfs on /sys type sysfs (rw,noexec,nosuid,nodev)
none on /sys/fs/cgroup type tmpfs (rw)
none on /sys/fs/fuse/connections type fusectl (rw)
none on /sys/kernel/debug type debugfs (rw)
none on /sys/kernel/security type securityfs (rw)
udev on /dev type devtmpfs (rw,mode=0755)
devpts on /dev/pts type devpts (rw,noexec,nosuid,gid=5,mode=0620)
tmpfs on /run type tmpfs (rw,noexec,nosuid,size=10%,mode=0755)
none on /run/lock type tmpfs (rw,noexec,nosuid,nodev,size=5242880)
none on /run/shm type tmpfs (rw,nosuid,nodev)
none on /run/user type tmpfs (rw,noexec,nosuid,nodev,size=104857600,mode=0755)
none on /sys/fs/pstore type pstore (rw)
/dev/sda1 on /dos type vfat (rw,utf8,umask=007,gid=46)
systemd on /sys/fs/cgroup/systemd type cgroup (rw,noexec,nosuid,nodev,none,name=
systemd)
gvfsd-fuse on /run/user/1000/gvfs type fuse.gvfsd-fuse (rw,nosuid,nodev,user=haroenvlaene)
/dev/sr0 on /media/haroenvlaene/BOXADDITIONS_4.3.16_95972 type iso9660 (ro,nosuid,nodev,uid=1000,gid=1000,iocharset=utf8,mode=0400,dkname=/dev/sr0,uhelper=udisks2)
haroenvlaene@PCVlaene:~$
```

Figuur 5: *mount*

En daarna via openssh (die eerst geïnstalleerd werd) verbinding gemaakt met 127.0.0.1, waarna de cd-romdrive gekoppeld werd via VirtualBox, en dan ge-eject.

```

haroenvlaene@PCVlaene:~$ ssh start/running, process 3007
Instellen van python-urllib3 (1.7.1-1build1) ...
Instellen van python-requests (2.2.1-1) ...
Instellen van ssh-import-id (3.21-0ubuntu1) ...
Processing triggers for libc-bin (2.19-0ubuntu6) ...
Processing triggers for ureadahead (0.100.0-16) ...
Processing triggers for ufw (0.34-rc-0ubuntu2) ...
haroenvlaene@PCVlaene:~$ ssh haroenvlaene@andromeda.local
ssh: Could not resolve hostname andromeda.local: Name or service not known
haroenvlaene@PCVlaene:~$ ssh 127.0.0.1
The authenticity of host '127.0.0.1 (127.0.0.1)' can't be established.
EDDSA key fingerprint is c9:f4:64:16:6a:9d:2e:45:0f:38:23:f6:89:d5:83:b4.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '127.0.0.1' (EDDSA) to the list of known hosts.
haroenvlaene@127.0.0.1's password:
Welcome to Ubuntu 14.04.1 LTS (GNU/Linux 3.13.0-32-generic x86_64)

 * Documentation: https://help.ubuntu.com/

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

haroenvlaene@PCVlaene:~$ eject /dev/sr0
haroenvlaene@PCVlaene:~$ eject /dev/sr0
eject: kon niet uitwerpen, laatste fout: Ongepaste ioctl() voor apparaat
haroenvlaene@PCVlaene:~$ eject /dev/sr1
eject: kon apparaat niet openen of vinden voor: '/dev/sr1'
haroenvlaene@PCVlaene:~$ eject /dev/sr1
eject: kon apparaat niet openen of vinden voor: '/dev/sr1'
haroenvlaene@PCVlaene:~$ eject /dev/sr0
haroenvlaene@PCVlaene:~$ 

```

Figuur 6: Screenshot nadat de cd ge-eject was

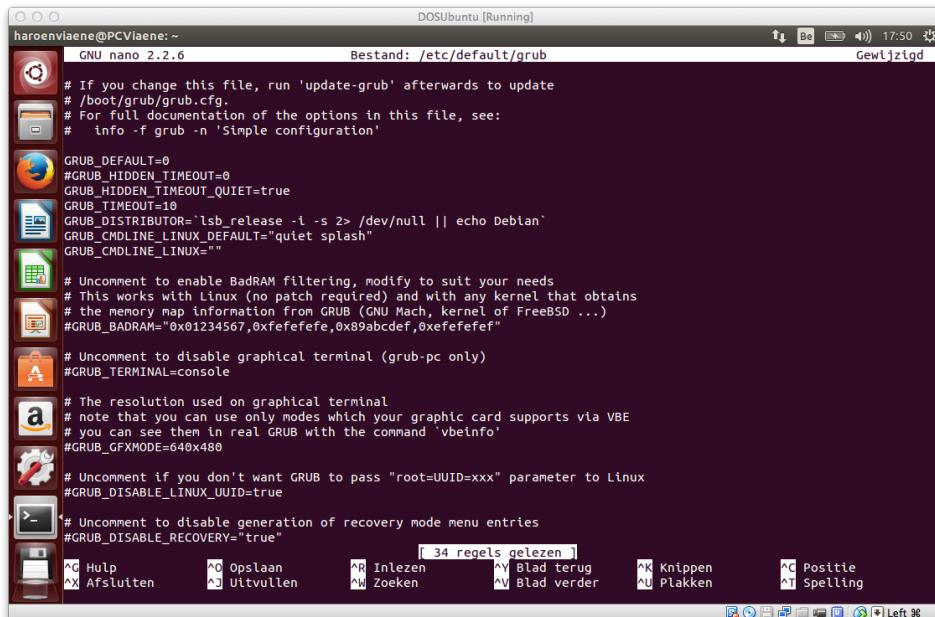
Hierna werd de DOS aan het opstartmenu toegevoegd:

```

haroenvlaene@PCVlaene:~$ 
GNU nano 2.2.6                                Bestand: /etc/grub.d/40_custom          Gewijzigd
#!/bin/sh
exec tail -n +3 $0
# This file provides an easy way to add custom menu entries. Simply type the
# menu entries you want to add after this comment. Be careful not to change
# the 'exec tail' line above.
menuentry "DOS van haroenvlaene" {
    set root=(hd0,1)
    chainloader +1
}

```

Figuur 7: 40_custom



Figuur 8: grub

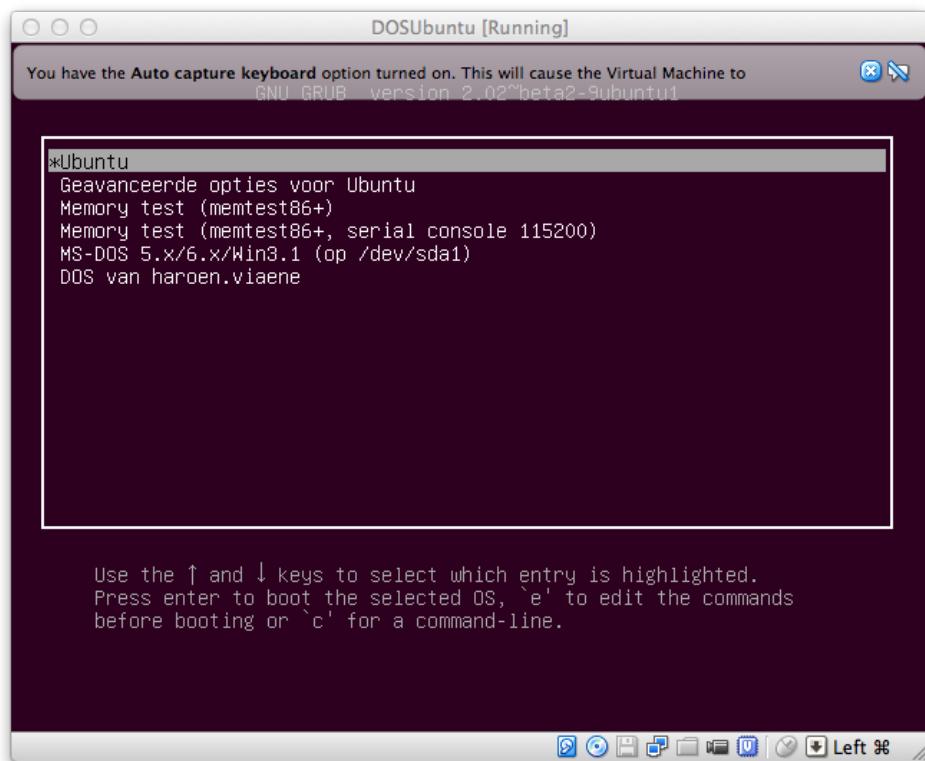
```

haroenviaene@PCViaene:~$ sudo update-grub
Grub-instellingenbestand aan het maken...
Linux-image gevonden: /boot/vmlinuz-3.13.0-32-generic
Initrd-image gevonden: /boot/initrd.img-3.13.0-32-generic
Found memtest86+ image: /boot/memtest86+.elf
Found memtest86+ image: /boot/memtest86+.bin
MS-DOS 5.x/6.x/Win3.1 gevonden op /dev/sda1
voltooid
haroenviaene@PCViaene:~$ █

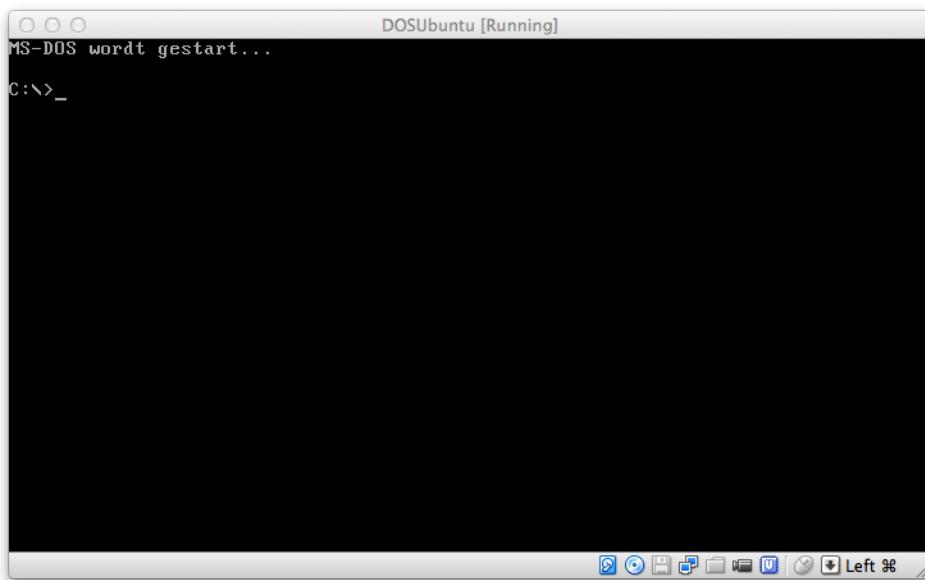
```

Figuur 9: grub-update

Daarna wordt DOS getest:



Figuur 10: *boot-venster*



Figuur 11: *DOS*