Dual Booting Exercises

2. Create a virtual machine with two operating systems, Windows 7 (or Windows 10) and Ubuntu 16.04 (in this order) and configure the bootloader to:

VirtualBox Graphical User Interface Version 6.1.14 r140239 (Qt5.6.2) en_windows_10_professional_x64_dvd ubuntu-20.04.1-desktop-amd64

Initial setup

```
GRUB_DEFAULT=0 (start Ubuntu)
GRUB_TIMEOUT_STYLE=hidden (Panel)
GRUB_TIMEOUT=10 (10 second beafore start)
```

a. Set Windows as default entry and boot after 15 seconds if the user does not select another option in the menu.

list menuentries

```
awk -F\' '/menuentry / {print $2}' /boot/grub/grub.cfg
```

```
Ubuntu, with Linux 5.8.0-25-generic
Ubuntu, with Linux 5.8.0-25-generic (recovery mode)
Memory test (memtest86+)
Memory test (memtest86+, serial console 115200)
Windows 10 (on /dev/sda1)
```

list seting grub options

sudo nano /etc/default/grub

```
GRUB_DEFAULT=4

GRUB_TIMEOUT_STYLE=hidden

GRUB_TIMEOUT=15

GRUB_DISTRIBUTOR=`lsb_release -i -s 2> /dev/null || echo Debian`

GRUB_CMDLINE_LINUX_DEFAULT="quiet splash"

GRUB_CMDLINE_LINUX=""
```

sudo update-grub

b. Boot Ubuntu without displaying the menu after showing a 10 seconds countdown.

sudo nano /etc/default/grub

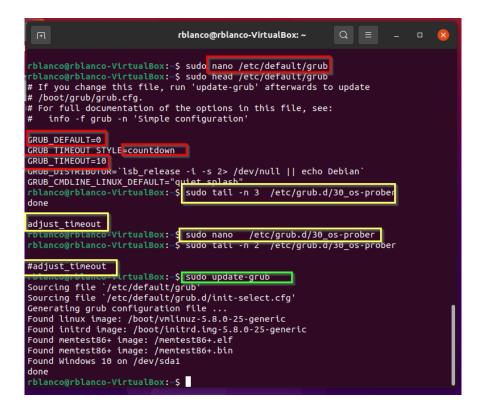
```
GRUB_DEFAULT=0
GRUB_TIMEOUT_STYLE=countdown
GRUB_TIMEOUT=10
GRUB_DISTRIBUTOR=`lsb_release -i -s 2> /dev/null || echo Debian`
GRUB_CMDLINE_LINUX_DEFAULT="quiet splash"
GRUB_CMDLINE_LINUX=""
```

Only by doing It does not work. It's because /etc/grub.d/30_os-prober overrides them by setting timeout to 10 (if it's 0 in /etc/default/grub) and always to display menu.

sudo nano /etc/grub.d/30 os-prober

```
#adjust timeout
```

sudo update-grub

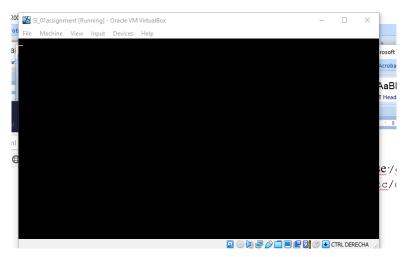




c. Boot Ubuntu without displaying the menu.

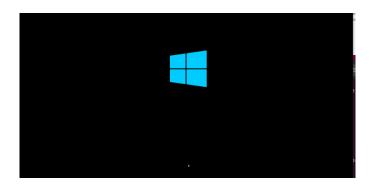
```
# If you change this file, run 'update-grub' afterwards to update
# /boot/grub/grub.cfg.
# For full documentation of the options in this file, see:
# info -f grub -n 'Simple configuration'

CRUB_DEFAULT=0
GRUB_TIMEOUT_STYLE=hidden
GRUB_TIMEOUT=0
GRUB_CMDLINE_LINUX_DEFAULT="quiet splash"
rblanco@rblanco-VirtualBox:-$ sudo nano /etc/grub.d/30_os-prober
#blanco@rblanco-VirtualBox:-$ sudo tail -n 1 /etc/grub.d/30_os-prober
#adjust_timeout
rotancogrotanco-VirtualBox: $ sudo update-grub
Sourcing file '/etc/default/grub.d/init-select.cfg'
Generating grub configuration file ...
Found linux image: /boot/ymlinuz-5.8.0-25-generic
Found initrd image: /boot/initrd.img-5.8.0-25-generic
Found memtest86+ image: /memtest86+.elf
Found memtest86+ image: /memtest86+.bin
Found Windows 10 on /dev/sda1
done
rblanco@rblanco-VirtualBox:-$
```



d. Boot Windows without displaying the menu.

```
Q =
                               rblanco@rblanco-VirtualBox: ~
rblanco@rblanco-VirtualBox:~$ sudo head /etc/default/grub
# If you change this file, run 'update-grub' afterwards to update
# /boot/grub/grub.cfg.
# For full documentation of the options in this file, see:
   info -f grub -n 'Simple configuration'
CRUB_DEFAULT=4
GRUB_TIMEOUT_STYLE=hidden
GRUB_TIMEOUT=0
GRUB_DISTRIBUTOR=`lsb_release -i -s 2> /dev/null || echo Debian`
GRUB_CMDLINE_LINUX_DEFAULT="quiet splash'
                   tualBox:~$ sudo tail -n 1 /etc/grub.d/30_os-prober
#adjust_timeout
 blanco@rblanco-VirtualBox:~$ sudo update-grub
Sourcing file `/etc/default/grub.d/init-select.cfg'
Generating grub configuration file ...
Found linux image: /boot/vmlinuz-5.8.0-25-generic
Found initrd image: /boot/initrd.img-5.8.0-25-generic
Found memtest86+ image: /memtest86+.elf
Found memtest86+ image: /memtest86+.bin
Found Windows 10 on /dev/sda1
done
rblanco@rblanco-VirtualBox:~$
```



References:

https://help.ubuntu.com/community/Boot-Repair https://itectec.com/ubuntu/ubuntu-how-to-hide-grub-menu-in-ubuntu-14-04/ http://ubuntuhandbook.org/index.php/2020/06/hide-grub-boot-menu-ubuntu-20-04-lts/ https://www.gnu.org/software/grub/manual/grub/html node/Simple-configuration.html