**DUAL BOOTING EXERCISES**

1. Create a virtual machine with two operating systems, Windows 7 and Windows 10 (in this order). Choose Windows 7 as the default operating system, which will boot after 5 seconds unless Windows 10 is manually selected.
2. Create a virtual machine with two operating systems, Windows 7 and Ubuntu 19.04 (in this order) and configure the bootloader to:
   1. Set Windows as default entry and boot after 15 seconds if the user does not select another option in the menu.
   2. Boot Ubuntu after displaying a 10 seconds countdown.
   3. Boot Ubuntu without displaying the menu.
   4. Boot Windows without displaying the menu.

a.

GRUB\_DEFAULT=4

GRUB\_TIMEOUT=15

GRUB\_TIMEOUT\_STYLE=menu

´´´´´´´es por defecto, si lo quito se va a ejecutar como menu’’’’’’’’’’’’’’’’’

The parameter GRUB\_TIMEOUT\_STYLE is not necessary, since “menu” is the default value

For b, c and d, it is required to comment the following lines in /boot/grub/grub.cfg after running update-grub

set timeout\_style=menu

if [ "${timeout}" = 0 ]; then

set timeout=10

fi

b.

GRUB\_DEFAULT=0

GRUB\_TIMEOUT=10

GRUB\_TIMEOUT\_STYLE=countdown

Another option that is deprecated:

GRUB\_DEFAULT=0

GRUB\_TIMEOUT=0

GRUB\_HIDDEN\_TIMEOUT=10

GRUB\_HIDDEN\_TIMEOUT\_QUIET=false

c.

GRUB\_DEFAULT=0

GRUB\_TIMEOUT=0

GRUB\_TIMEOUT\_STYLE=hidden

Another option that is deprecated:

GRUB\_DEFAULT=0

GRUB\_TIMEOUT=0

GRUB\_HIDDEN\_TIMEOUT=0

GRUB\_HIDDEN\_TIMEOUT\_QUIET=true

d.

GRUB\_DEFAULT=4

GRUB\_TIMEOUT=0

GRUB\_TIMEOUT\_STYLE=hidden

Another option that is deprecated:

GRUB\_DEFAULT=4

GRUB\_TIMEOUT=0

GRUB\_HIDDEN\_TIMEOUT=0

GRUB\_HIDDEN\_TIMEOUT\_QUIET=true

1. If you lose the bootloader in exercise 2, use the tool “Boot-Repair”, which will let you solve the issue. If necessary, use the following the instructions in the URL: <https://help.ubuntu.com/community/Boot-Repair>

The first option is to use this tool to repair GRUB.

But what is actually happening is that we are hiding the menu. If we type “ESC” as soon as we start the machine, we will finally be able to show the menu to start Ubuntu and modifying the GRUB configuration as a result.