

Fix EFI boot manager ignores boot order

Problem

Boot order cannot be altered by “efibootmgr”. After rebooting Windows 10 is again the first OS that is booted. This problem is caused by laptop UEFI firmware which hardcoded looks for: `/boot/efi/EFI/Microsoft/Boot/bootmgfw.efi`.

Fix

Step 1: replace bootmgfw.efi

```
cd /boot/efi/EFI/Microsoft/Boot
mv bootmgfw.efi bootmgfw.original.efi
cp /boot/efi/EFI/debian/grubx64.efi ./bootmgfw.efi
```

Step 2: Make Grub entry for original bootmgfw.efi Problem with this is that the Windows 10 entry in the grub boot menu is now also pointing to a grubx64.efi copy. Looping into grub again when you select “Windows 10”. So we need to make an extra grub menu entry pointing to the original bootmgfw.efi

```
nano /etc/grub.d/40_custom
```

Add the following to the bottom of the file:

```
menuentry 'Windows 10-fix' {
    search --fs-uuid --no-floppy --set=root 502B-5BC6
    chainloader (${root})/EFI/Microsoft/Boot/bootmgfw.original.efi
}
```

Where 502B-5BC6 is obtained from finding the EFI partition with `fdisk -l` and the UUID with `blkid`:

```
fdisk -l
```

Device	Start	End	Sectors	Size	Type
/dev/sda1	2048	534527	532480	260M	EFI System
/dev/sda2	534528	567295	32768	16M	Microsoft reserved
/dev/sda3	567296	99554804	98987509	47.2G	Microsoft basic data
/dev/sda4	248051712	250058751	2007040	980M	Windows recovery environment
/dev/sda5	99555328	99557375	2048	1M	BIOS boot
/dev/sda6	99557376	239837183	140279808	66.9G	Linux filesystem
/dev/sda7	239837184	248051711	8214528	3.9G	Linux swap

```
blkid /dev/sda1
```

```
/dev/sda1: UUID="502B-5BC6" TYPE="vfat" PARTLABEL="EFI system partition"
PARTUUID="91ffaa62-7eed- 4257-99f0-1d5ce807e80f"
```

Update grub on disk

update-grub

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