

Fixing missing EFI Boot Entry on mainboard firmware

Somehow my laptop did not want to boot into my Arch Linux installation anymore. The only message i received was an "No Operating System found" error. After backing up the data on the disk, i booted into an Ubuntu live image to investigate further.

First, I verified that a valid EFI partition was on the disk and if the EFI/GRUB/grubx64.efi file was on it. EFI boot partition looked fine, however, the laptop itself did not have any valid UEFI selection entry for the disk except the entire disk itself.

Using the tool 'efibootmgr', I check all UEFI entries for the laptop, and surprise, there was none for Arch Linux. So I added one using the following efibootmgr command.

```
sudo efibootmgr --create --disk /dev/nvme0n1 --part 1 --label "Arch Linux" --loader \\EFI\\GRUB\\grubx64.efi
```

Relevant text from source on reddit:

Not sure if it's the same problem, but I think it's worth checking anyway.

I had trouble booting from an SSD when I tried to put it into another PC and it wouldn't see it as a bootable device.

Turns out I had to add a corresponding boot entry to the so-called NVRAM on the motherboard.

You may have skipped this step during the installation process somehow.

Try running efibootmgr from a live environment to see the current entries.

If it's not listed there, you can create it by doing something like this:

```
sudo efibootmgr --create --disk /dev/nvme0n1 --part 1 --label "Arch Linux" --loader \\EFI\\GRUB\\grubx64.efi
```

where /dev/nvme0n1 is the device with the EFI partition, and \\EFI\\GRUB\\grubx64.efi is the path to your loader's EFI application.

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