# NTFS disk working in cross-platform environment

Hard disks configured with MS NTFS file format will not be working properly in dual boot working environment. In Linux they could be visible as read-only. There are few ways for making them working properly [1]:

1) temporaly perform full shutdown of Windows 10: hold SHIFT key during clicking on "Shut down" WinMenu button, or execute in Cmd (force quit of running applications + full shutdown + timeout):

```
#shutdown /f  /r /t 0
```

2) pernamently disable fast startup of Windows:

WinMenu->type "Control Panel"->Hardware and Sound-> Power Options -> Choose what the power button do-> Change settings that currently are not avaiable-> **disable** Turn on fast start-up(recommended)

3) temporaly fix device in Linux:

```
#sudo apt-get remove ntfsprogs && sudo apt-get install ntfs-3g
#lsblk
#sudo ntfsfix /dev/sdX
```

[1]https://askubuntu.com/questions/70281/why-does-my-ntfs-partition-mount-as-read-only