

In most cases, using a second USB hard drive to host your ROMs separately from the Batocera system should be totally transparent when you [use the dedicated menu item](#) to enable it. You can prepare the drive in the right format by using **Main Menu > System Settings > Developer > Format a disk**. For which file system you should use, [check here](#).

However, when tinkering with the systems, things can go wrong. This page is here to help you troubleshoot and fix those cases.

## Manual external storage configuration with batocera-boot.conf

Say you are running Batocera off a USB pendrive (or SD card) but want to host your ROM files on a different hard drive. In that case, you need to edit `/boot/batocera-boot.conf` and provide the information of the hard drive that hosts your ROMs. In order to do that, you can list the UUID of the drive that hosts the ROMs by typing the `blkid` [command](#):

```
/dev/sdb2: LABEL="SHARE" UUID="12e46ca9-xxxx-xxxx-xxxx-xxxxxxxxxxx"
TYPE="ext4"
/dev/sdb1: LABEL="BATOCERA" UUID="zzzz-zzzz" TYPE="vfat"
/dev/sda1: LABEL="SHARE" UUID="2efa1068-yyyy-yyyy-yyyy-yyyyyyyyyy"
TYPE="ext4"
```

In that example, `/dev/sdb1` is my Batocera boot partition, `/dev/sdb2` is the rest of my Batocera USB pendrive (that I don't want to use) and `/dev/sda1` if the partition hosting my ROM files. In order to use that partition, I need to edit `/boot/batocera-boot.conf` and put:

```
# device to the share data (userdata)
sharedevice=DEV 2efa1068-yyyy-yyyy-yyyy-yyyyyyyyyy
```

Otherwise you can also choose the drive, where you want your ROM files to be located, directly in Batocera EmulationStation Menu, by going to System Settings and select the drive under Storage Device and then reboot. The file structure for the ROM files will then (during the reboot) be created automatically (if not already present) on this drive.

If you are using an external hard drive and it is not recognized correctly after doing this, then it might be that your external hard drive needs more time to spin up while Batocera boots. In those cases you have to edit the `/boot/batocera-boot.conf` file and add the line: `sharewait=15` (if it still does not work, try with a higher number like `sharewait=20` for example).

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