

Booting from the Hard Drive



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Is this Right for You?

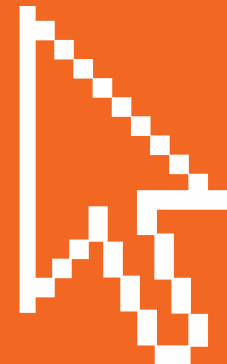
Booting from the SD Card

- Convenient
- Portable
- Simple backups
- Finite SD lifespan

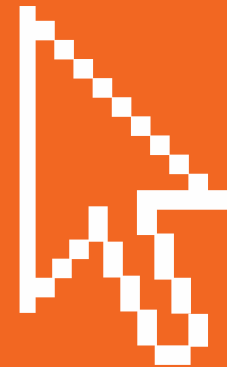
Booting from the Hard Drive

- Faster than an SD card
- Longer lifespan
- Hard Drive must remain attached
- Larger backup files

Demo: Checking the Root Filesystem



Demo: Booting From The Hard Drive



Sometimes Things Go Wrong

- Not all hard drives are suitable for booting (Power-saving drives, especially)
- `cmdline.txt` is on the FAT partition, which can be read by any modern OS
- Put it back to `"root=/dev/mmcblk0p2"`
- Take backups whenever you change things

Demo: Expanding The Swap File

Edit the swap configuration file



Make A Backup

Windows

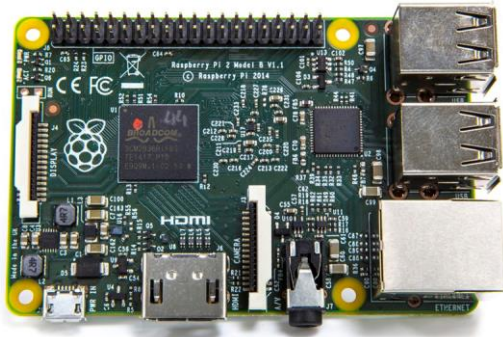
Win32DiskImager

Mac / Linux

```
sudo dd if=/dev/diskn of=~/.pi.img bs=1m
```



Summary



- Checked the root filesystem for errors
- Copied the root filesystem to the HDD
- Checked the new filesystem for errors
- Configured the Pi to boot from the HDD
- Updated fstab to mount new root
- Expanded the swap file

What's Next?

It's up to you

<http://www.pluralsight.com/tag/raspberry-pi>

<http://www.pluralsight.com/tag/linux>