Resizing partitions

Why the fuck is there no one that can tell you how tf it works?

- How to do it
- How to online grow a ext4 partition

How to do it

Preperations

You need to be in a rescue system or have the disk unmounted. That is non negotiable!
Also make a snapshot/backup of you system!

Resizing

1. e2fsck -f /dev/sdXY
2. resize2fs /dev/sdXY XG
3. fdisk /dev/sdX

In fdisk you need to:

1. Delete the old partition (d)
2. Recreate it (n)
    1. Use +XG to resize it to the GB amount you choose when using resize2fs
3. Write it (w)

Now you should have a working partition that is resized to the amount you wanted.

How to online grow a ext4 partition

This tutorial uses Arch Linux so package names might vary

1. Install cloud-guest-utils which includes growpart
2. Backup your partition table so you can recover if needed
   `sudo sfdisk -d /dev/sda > partition_bak.dmp`
3. Use growpart to grow the partition
   `growpart /dev/sda 2`
4. Use resize2fs to grow your filesystem
   `resize2fs /dev/sda2`

Now you should have a ext4 partition that spans the entire rest of your drive.