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.

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