How do I resize a disk image (Raspbian SD/USB image)?

To resize the last partition in a disk image, for example a Raspberry Pi SD card image first increase the size of the file on disk using truncate, here we're going to increase it by 500MB.

```
truncate 2019-06-20-raspbian-buster-full.img --size=+500M
```

Once the file size has been increased the size of the second partition need to be updated to use all of the remaining space.

```
parted --script ./2019-06-20-raspbian-buster-full.img resizepart 2 100%
```

And then the filesystem will need to be extended to the size of the new partition, first enable access to the partitions in the disk image.

```
losetup -fP --show 2019-06-20-raspbian-buster-full.img
```

This will return the loop device name, in this example we're going to assume it's "/dev/loop1".

Then check the filesystem.

```
e2fsck -f /dev/loop1p2
```

Now we can do the actual filesystem resize.

```
resize2fs /dev/loop1p2
```

If you see no errors then we're done and we can remove the loop interface.

```
losetup -d /dev/loop1
```

The size of the disk image has now been extended and the second partition has been increased to use all of the space.

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