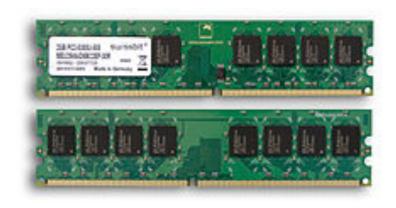
[320] Storage

Tyler Caraza-Harter

Terms: memory, storage, disk, partition, file system, virtual disk

Memory





00000000 11110000



01010101 00000000 10101010 00000000



```
00000000
         10101010
                   00000000 11110000
         0000000
01010101
                   11110000
                            11001011
00000000
         10101010
                   0000000
                            11110000
                            11001011
01010101
         0000000
                   11110000
                   0000000
                            11110000
0000000
         10101010
01010101
         0000000
                  11110000
                            11001011
0000000
         10101010
                   0000000
                            11110000
         0000000
01010101
                   11110000
                            11001011
00000000
         10101010
                   0000000
                            11110000
01010101
         0000000
                            11001011
                   11110000
0000000
         10101010
                   0000000
                            11110000
01010101
         0000000
                   11110000
                            11001011
```



C drive



D drive

```
0000000
         10101010
                  0000000
                            11110000
         0000000
01010101
                  11110000
                            11001011
0000000
         10101010
                  0000000
                            11110000
01010101 00000000
                  11110000
                            11001011
0000000
         10101010
                  0000000
                            11110000
01010101 00000000
                  11110000
                            11001011
0000000
         10101010
                  0000000
                            11110000
```

```
00000000 11110000
                  10101010
        00000000
        01010101
                  0000000
                            11110000
                                      11001011
        00000000
                  10101010
                            0000000
                                      11110000
        01010101
                            11110000
                                      11001011
    sda I
                  0000000
                            0000000
                                      11110000
        00000000
                  10101010
[partition]
         01010101
                  0000000
                            11110000
                                      11001011
                                      11110000
         0000000
                  10101010
                            0000000
         01010101
                  0000000
                            11110000
                                      11001011
        00000000
                  10101010
                            0000000
                                      11110000
                  0000000
        01010101
                            11110000
                                      11001011
   sda2
         0000000
                  10101010
                            0000000
                                      11110000
         01010101
                  0000000
                            11110000
                                      11001011
```

sdb

```
0000000
         10101010
                  0000000
                            11110000
01010101
                            11001011
         0000000
                  11110000
0000000
         10101010
                  0000000
                            11110000
01010101 00000000
                  11110000
                            11001011
         10101010
0000000
                  0000000
                            11110000
01010101 00000000
                  11110000
                            11001011
0000000
                  0000000
                            11110000
         10101010
```

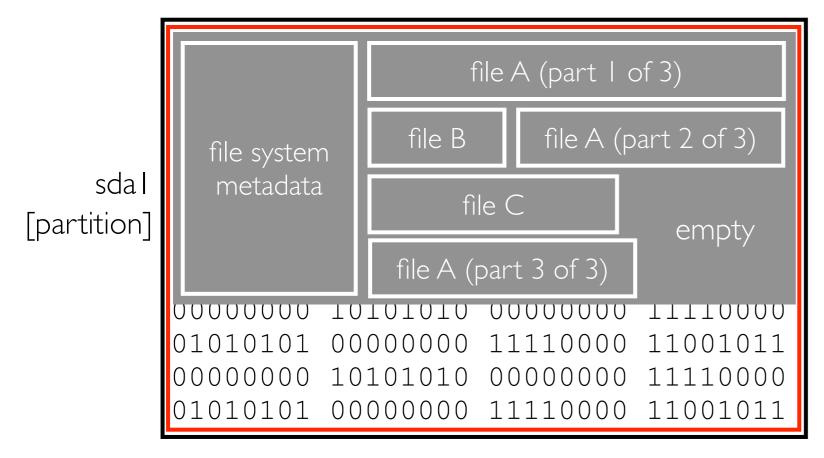
```
00000000 11110000
         10101010
00000000
         0000000
01010101
                   11110000
                            11001011
00000000
         10101010
                   0000000
                            11110000
                   11110000
                            11001011
01010101
         0000000
00000000
                   0000000
                            11110000
         10101010
01010101
         00000000 11110000
                            11001011
00000000
         10101010
                   0000000
                            11110000
01010101
         0000000
                   11110000
                            11001011
0000000
         10101010
                   0000000
                            11110000
01010101
         0000000
                   11110000
                            11001011
0000000
         10101010
                   0000000
                            11110000
01010101
         0000000
                   11110000
                            11001011
```

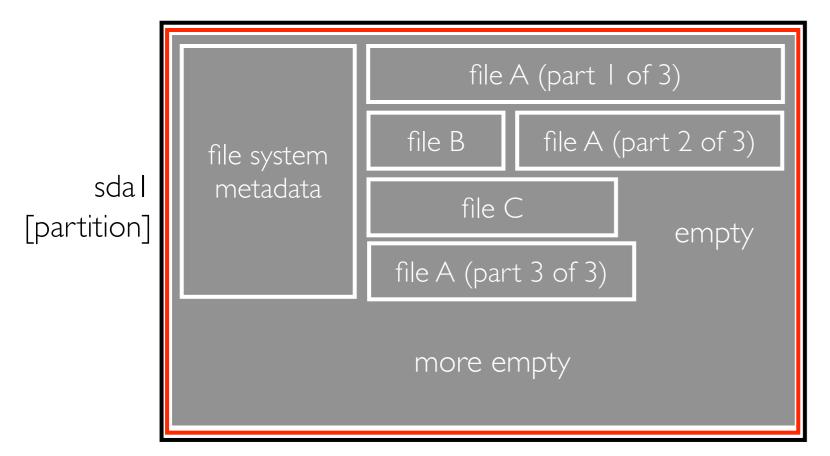
sdb

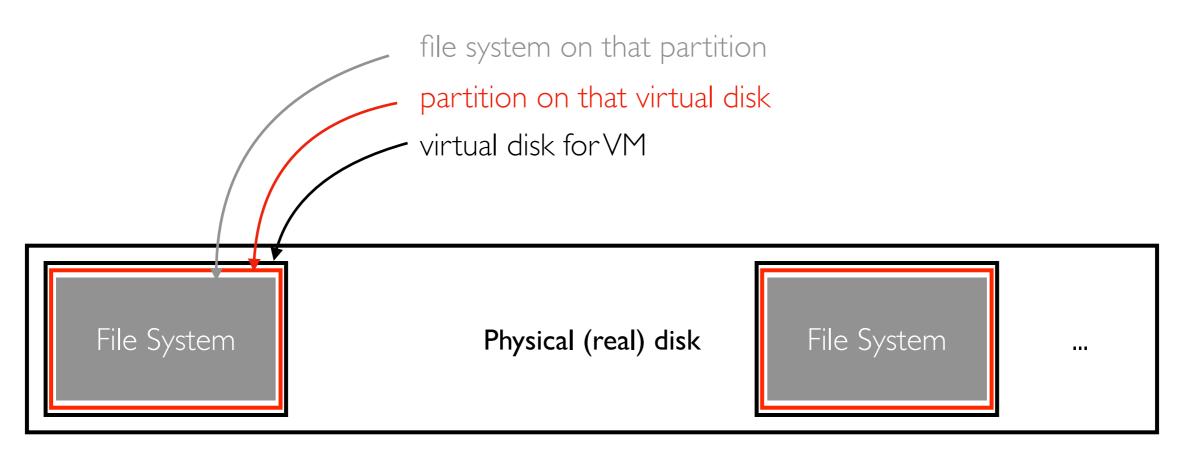
sda l

[partition]

```
0000000
         10101010
                  0000000
                            11110000
01010101
         0000000
                  11110000
                            11001011
0000000
         10101010
                  0000000
                            11110000
01010101 00000000
                  11110000
                            11001011
0000000
         10101010
                  0000000
                            11110000
01010101 00000000
                  11110000
                            11001011
0000000
                            11110000
         10101010
                  0000000
```



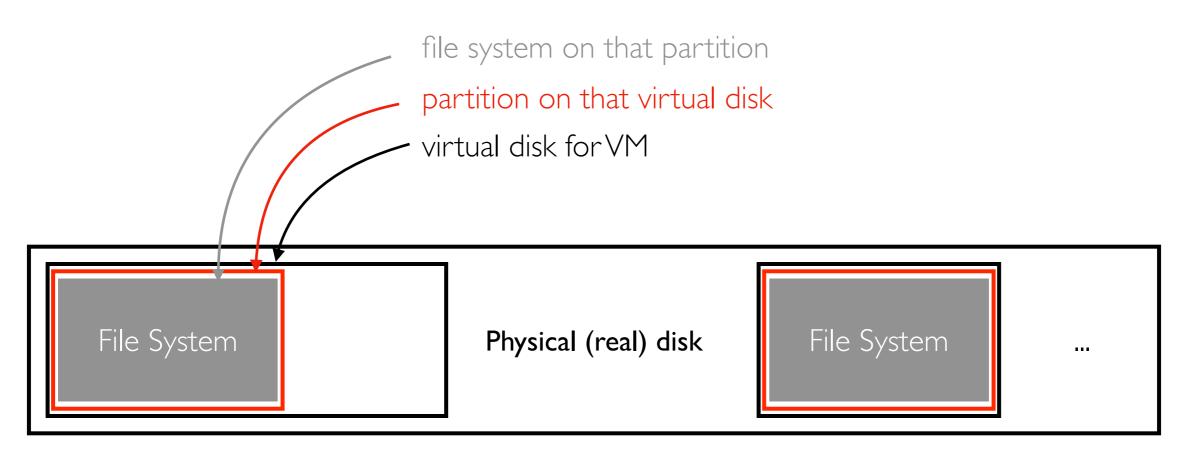




for virtual machine 2

Cloud Server

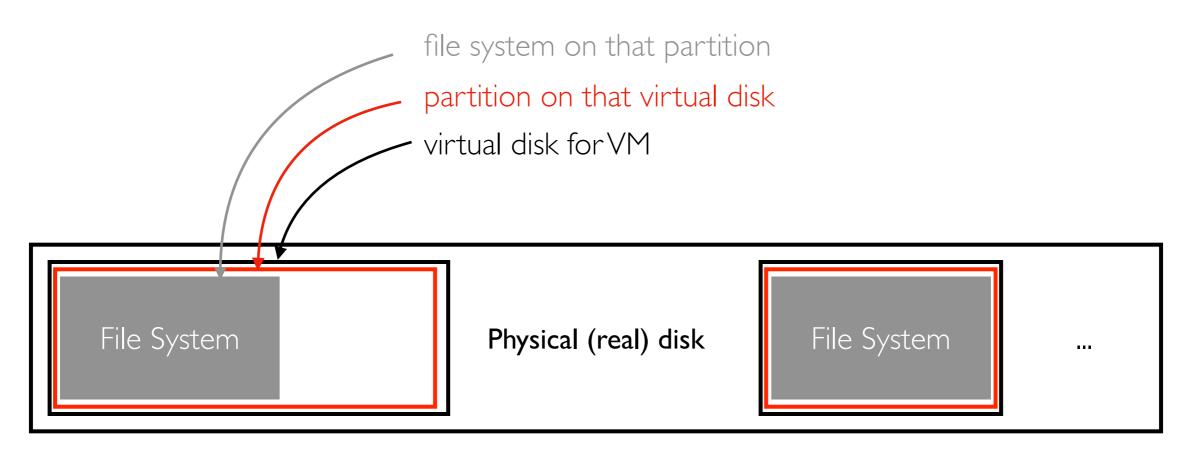
Unlike real disks, virtual disks (for VMs) can be resized, if you pay for it!



for virtual machine 2

Cloud Server

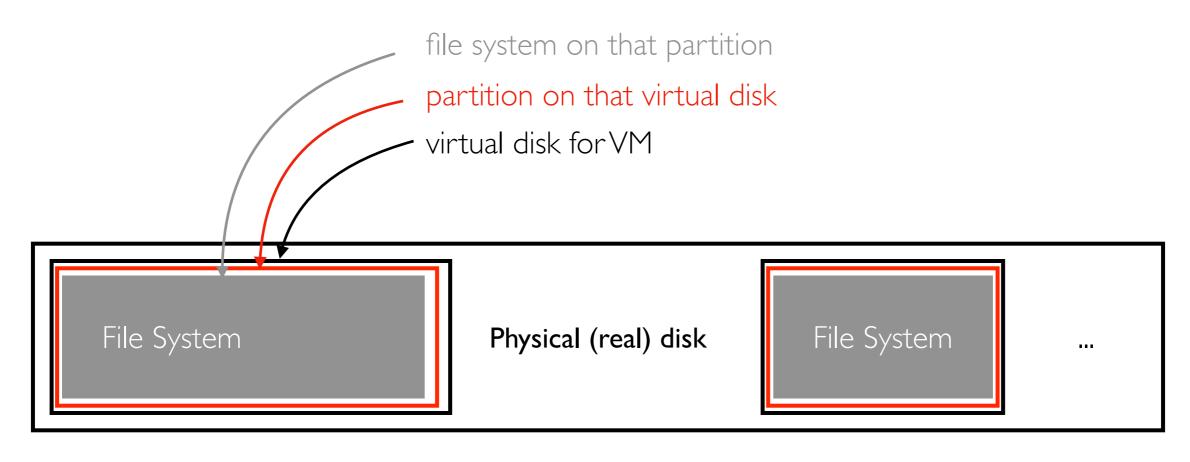
step I: grow disk in cloud console (and pay for it!)



for virtual machine 2

Cloud Server

step 2: grow partition with growpart



for virtual machine 2

Cloud Server

step 3: grow file system with resize2fs