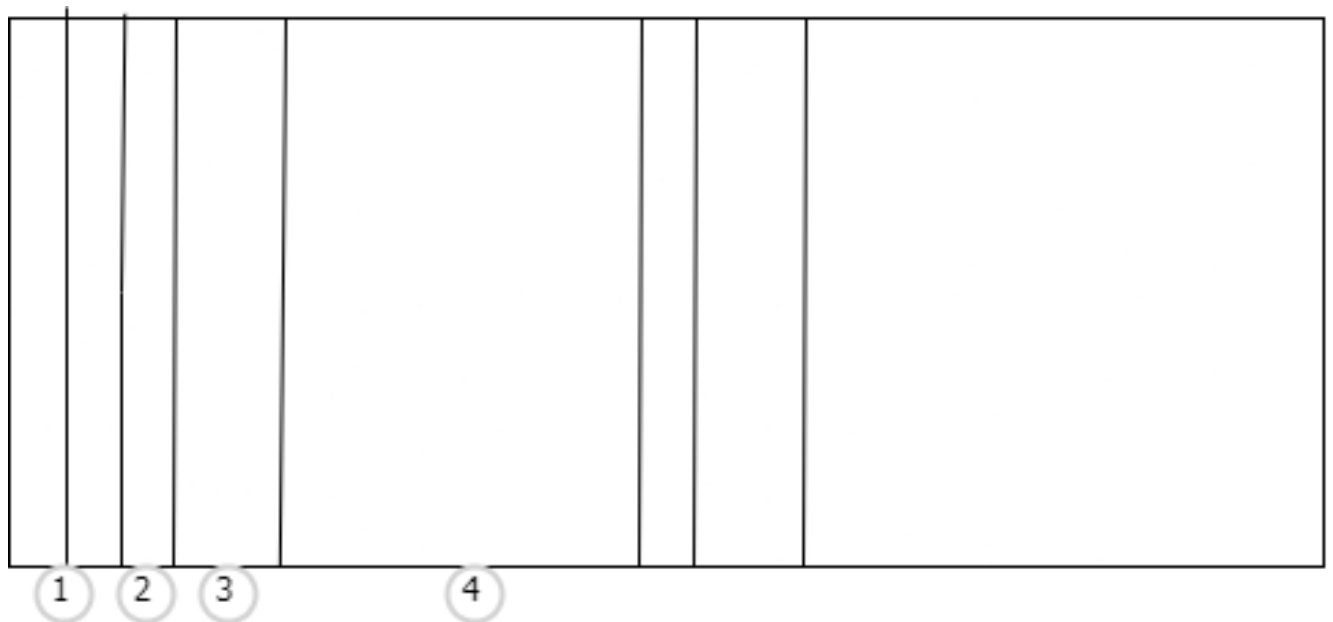


Hard Disk Structure:

- A hard disk can have multiple partitions:



First Partition

Second Partition

- 1.MBR (Master Boot Record) : Finds the partition, to load the operating system.
- 2.First Partition Boot Sector
- 3.Filesystem Area of 1st Partition : Contains data, files, related to file system, in our case we will find metadata for NTFS
- 4.Area of data from 1st Partition

Important things to know about hard drives:

- When a user decides to delete a file, the file system does not delete it , it is just marking it as deleted , and uses the space to overwrite it with possible new data .

- For a period of time , before the overwrite on the old file , we could file carve the Unallocated and Allocated space of the partition in order to possibly recover the data that has been deleted.