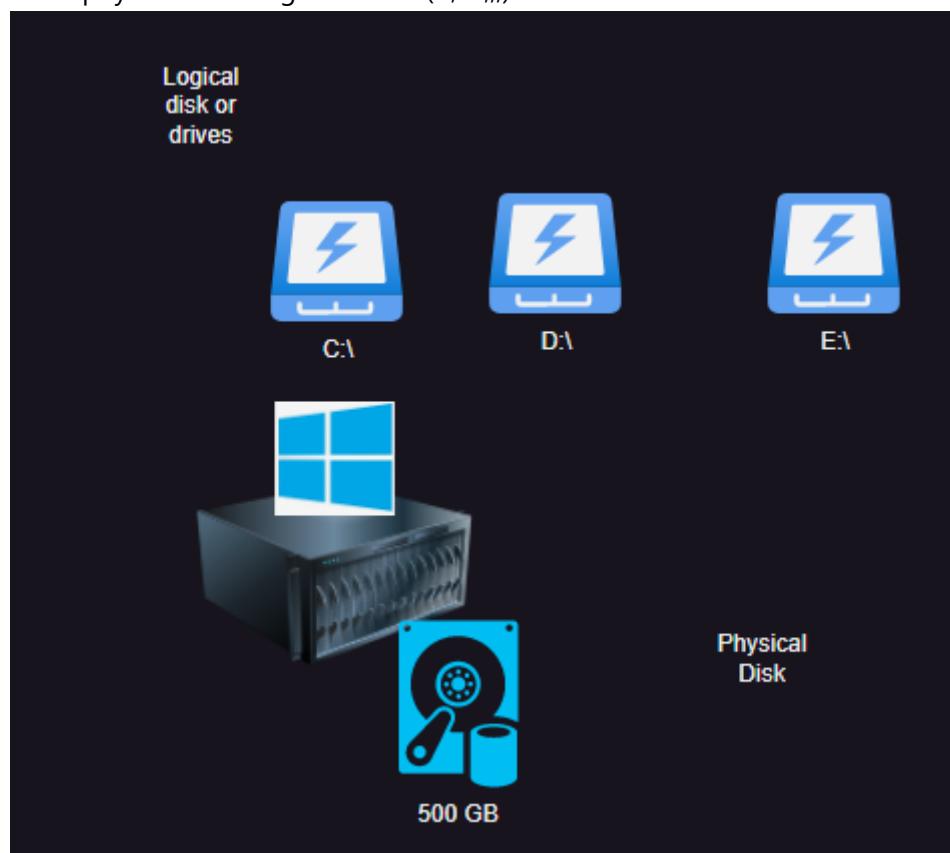


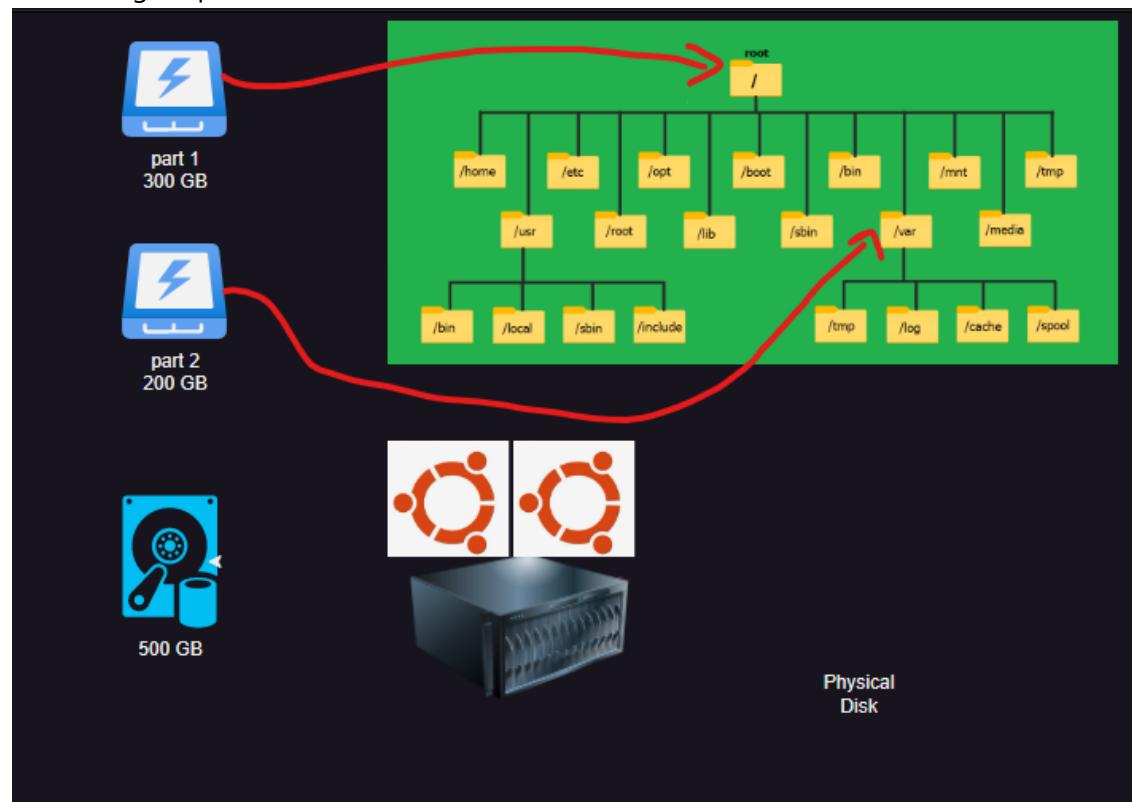
Terms and concepts

- Difference between kibi and kb
- Hard disk types:
 - Magnetic
 - HDD
 - SSD
- How about speed of disk ?
 - Throughput: generally used for HDD which represents the total volume of data that can be read/write in a second
 - IOPS (I/O per second): Used for SSDs represent number of read/write operation that can be performed in a second
- File System: Every disk needs some filesystem (which organizes the whole storage to be used by operating systems)
 - Windows File systems: NTFS
 - From physical disks logical drives (C, D,,) can be created

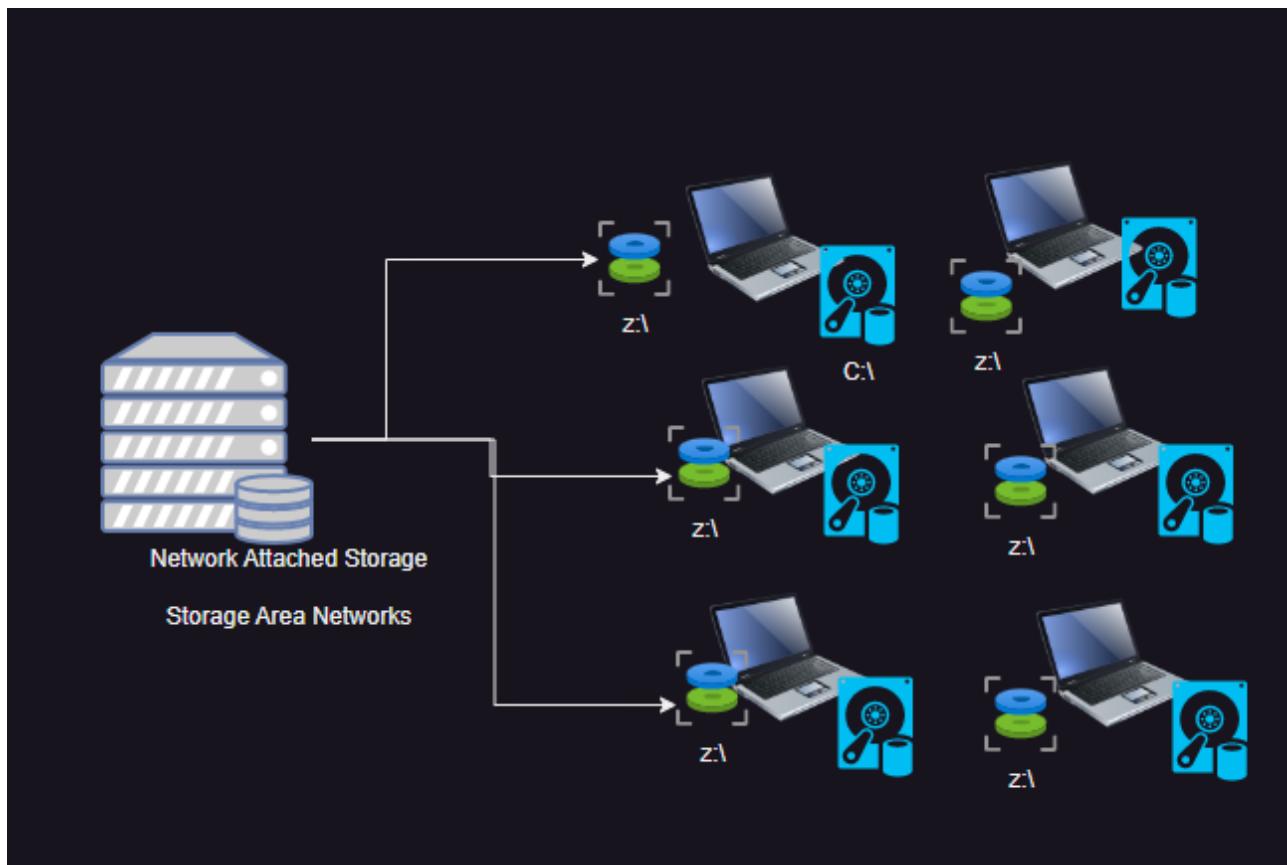


- Linux File System: ext4, xfs, btrfs, zfs

- In linux logical partitions are mounted to folders



- Network Storage: In some cases we need the disks to be shared across multiple devices, Generally for this NAS, SAN, NFS



- On-Premises or On-prem: This represents the physical servers or data centers maintained by your organizations.
- Backup of Disks:
 - Types:
 - Full

- Incremental
 - Recovering from Backups is also called as Restore
 - In most of cloud, Backup of a disk is referred as snapshot.

Disk Storage on Cloud

- All the storage devices on cloud are virtual in nature.
- AWS:
 - Elastic Block Storage: This is equivalent to physical disk on server and disk is called as EBS Volume
 - For the same purpose they also have instance storage
 - Network Disks: * EFS (Elastic File Storage) * FSx: * NetAPP
- Azure:
 - Managed disk: This is equivalent to physical disk on server
 - Un Managed disk: This is equivalent to physical disk on server
 - Temp Disk (Local Storage): This is also a disk
 - Network Disks:
 - Azure File shares
 - Azure Netapp