Mem

write:
- immediate
- delayed

full
incremental
snapshot
- copy-on-write
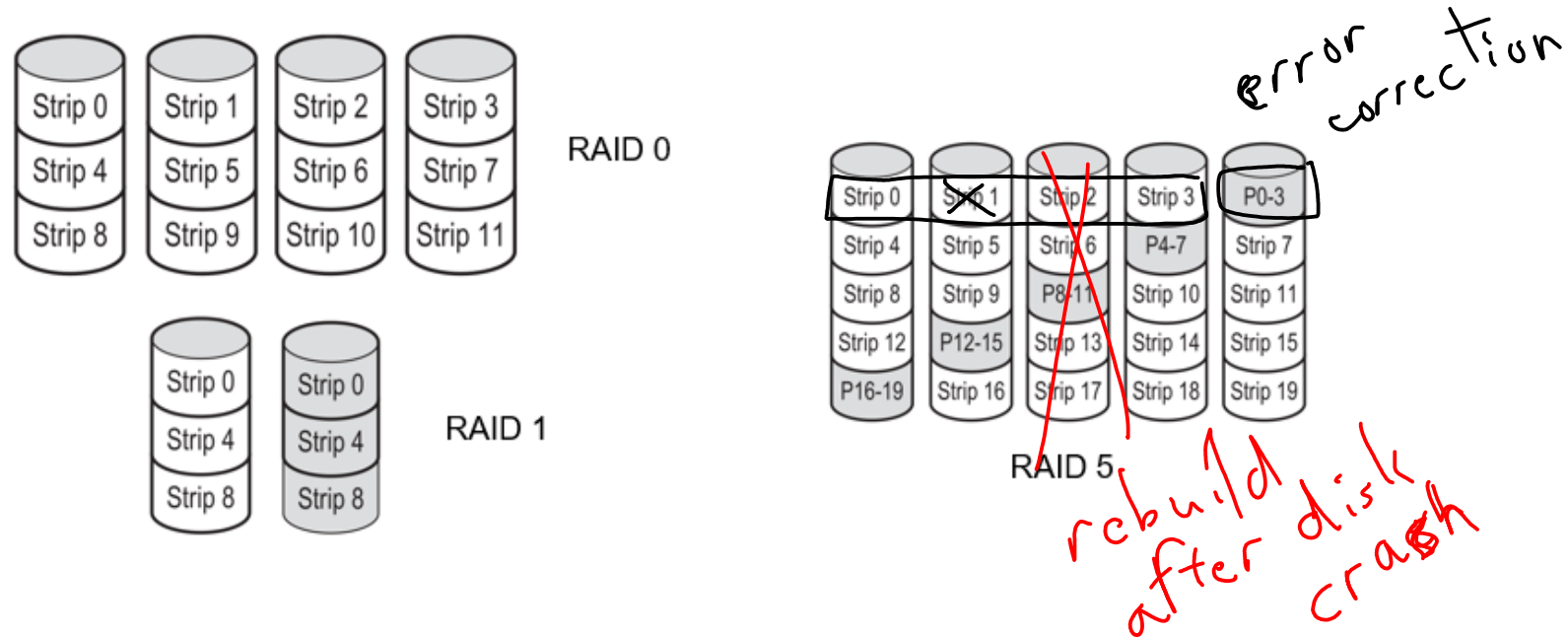- live data
(long term)

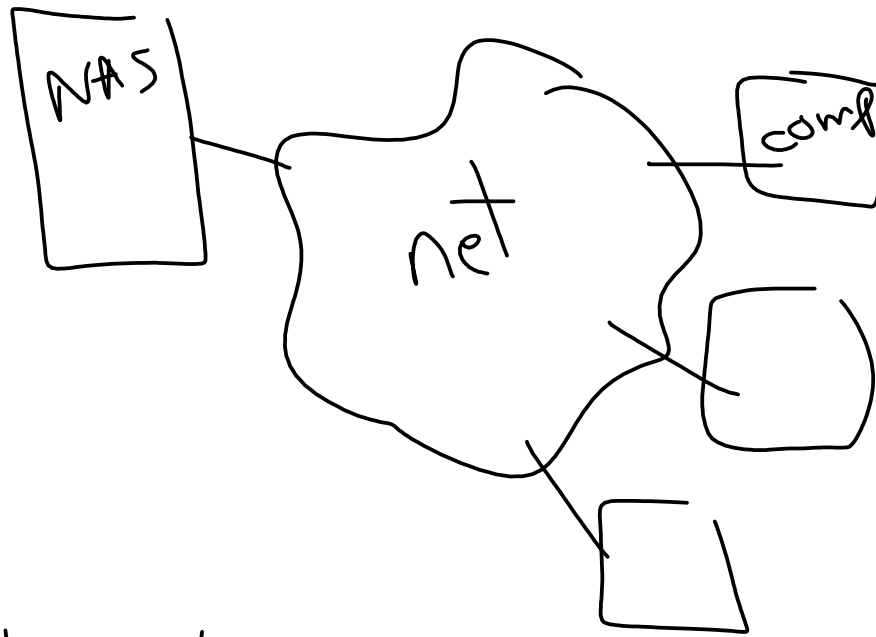___

Journaling:
- log changes
- "replay" changes

Back ups
- off-device
- off-site

slow

RAID: Redundant Array of Independent Disks

- **RAID 0 & 2**: Expand file system over multiple disks (+storage)
- **RAID 1**: Duplicate file system over disks (+redundancy)
- **RAID 3-6**: Store parity information (+storage, +redundancy)

NAS: network attached storage

NAS — net — comp

SAN: storage area network

storage net — Net