

Notes on Backup + Archiving

w/ Saltzer ✓
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1. Backup is for reliability; archive is for an extension of the hierarchy
2. Backup is achieved by ~~periodic~~ complete dump with incremental dump tapes to present; reload done in chronological order.
3. ~~Backup tapes~~ Incremental tapes are kept only ^{back} to last ~~back~~ complete dump
4. ^{Only last set of} Complete tapes are kept. ~~only to first date delete.~~
5. At date-delete time, ^{a pair of independent} ~~a set of~~ archive tapes ^{are} generated and ~~deleted~~ directory entries are marked w/ archive tape number.
6. Users mark each file w/ ~~the~~ lowest level storage they want to rent.
7. Users are charged for files on archive tapes by ~~some~~ scan of directory; when no one is on an archive tape, tape may be reclaimed.
(If wanted, rent can be an increasing rate w/ time to discourage indefinite storage!)
8. #3, #4 ~~above~~ above are minimum steps and may need some tempering for reliability in going back in time.
9. "Backup + archiving are absolutely distinct mechanisms"