

A NAS To Build

BV

[2015-07-05 Sun 15:58]

1 Software

- FreeNAS (FreeBSD + management front end)
- OpenMediaVault like above but on Linux
- SnapRAID userland backup-by-RAID

2 Possible hardware

Requirements are an exercise in contradictions

- lowish electrical power but enough CPU to handle Plex transcoding and streaming.
- smallish case but enough room for at least 4 3.5 HDD and one 2.5 SSD

2.1 Avoton

- ASRock C2550D4I (4 core) or C2750D4I (8 core) Avoton. 8xSATA3, 4xSATA2, 4 DDR3 max 64GB. Also on amazon. (\$300/\$400)
- Mini-ITX SilverStone DS380B 8 hotswap front bays for 3.5 inch, 4 internal for 2.5 inch, 2x USB3. Also on amazon. (\$150)
- 2x8GB ECC DDR3 1600MT/s (\$150)
- PS Silverstone 300W (\$50)
- HDD Seagate 3TB (\$90 per)

With 4 disks this is a ~\$1200 build.

The apparent high cost of the mobo+cpu is not that high. There are no comparable AMD systems which have at least 8 SATA3 and mini-ITX form. The ones that get close are approaching \$300.