NAS

NETWORK ATTACHED STORAGE

BACKUPS ARE IMPORTANT

TODAY MOST PEOPLE USE THE CLOUD

- APPLE ICLOUD
- MICROSOFT ONEDRIVE
- GOOGLE DRIVE



it's just someone else's computer

MY OLD WAY



NETWORK ATTACHED STORAGE

RAID

- REDUNDANT
- ARRAY
- INEXPENSIVE
- DISKS

RAID 0 - STRIPING

- ONE DRIVE FAILS ALL DATA IS LOST
- FASTER READS

RAID 1 - MIRRORING

- Pairs of drives duplicate data
- FASTER READS

RAID 5 - CHECKSUM

- SETS OF THREE OR MORE DRIVES
- ONE IS A CHECKSUM, ALLOWING FOR SINGLE DRIVE FAILURE
- FAST READS ESPECIALLY OF LARGE FILES
- SLOWER WRITES, ESPECIALLY OF RANDOM SECTORS

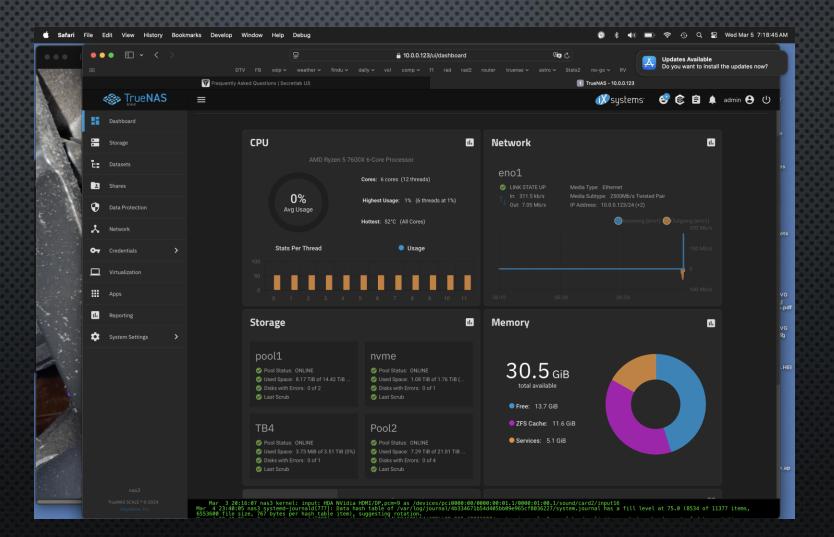
RAID 6

- LIKE RAID 5, BUT WITH TWO CHECKSUM DRIVES
- ALLOWS FOR ANY TWO DRIVES TO FAIL

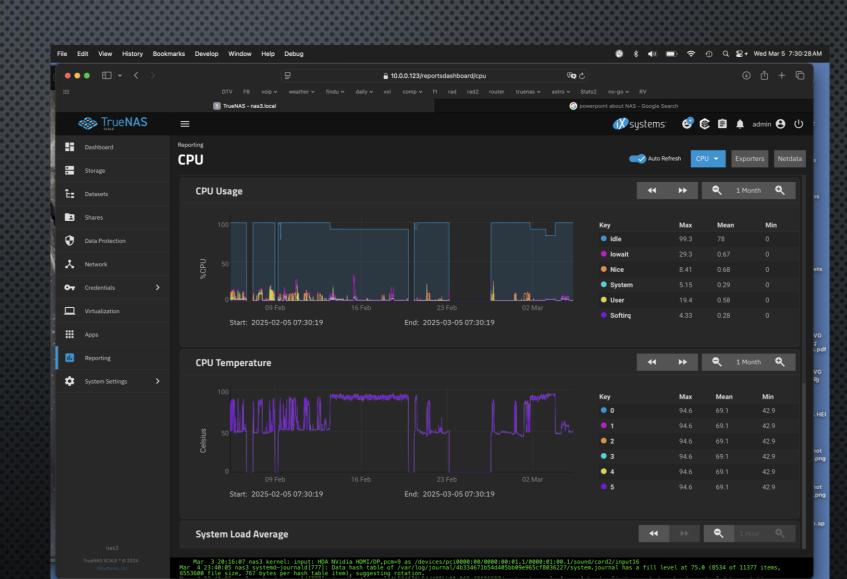
RAID 10

- 4 OR MORE DRIVES IN PAIRS
- COMBINES RAID 1 AND RAID 0
- ALLOWS ONE DRIVE OF EACH PAIR TO FAIL
- FASTEST OF ALL RAIDS

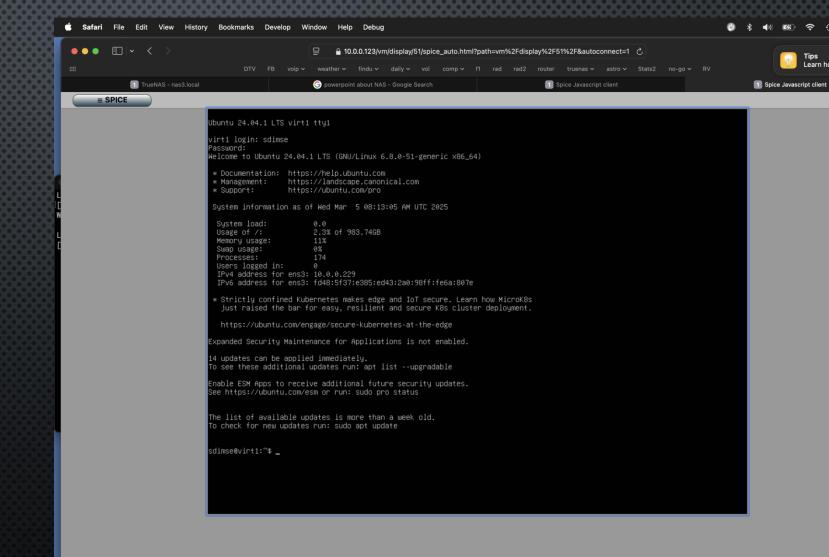
SOFTWARE - TRUENAS SCALE



MONITORING



VIRTUALIZATION



CONTAINERS - JELLYFIN

