

#### January 12, 2021 MUUG Meeting (João) Alberto (Brochado) Abrão (BBA)

Enterprise support available, reasonably priced!

Comprehensive official documentation

Reliable, stable, solid

AGPL v3

Community how-tos

Community documentation

Community applications

# Hosting

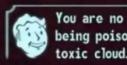


Cloud storage is more expensive than local storage, not to mention bandwidth and data transfer charges.

Hosting it yourself is usually a great choice for Nextcloud.

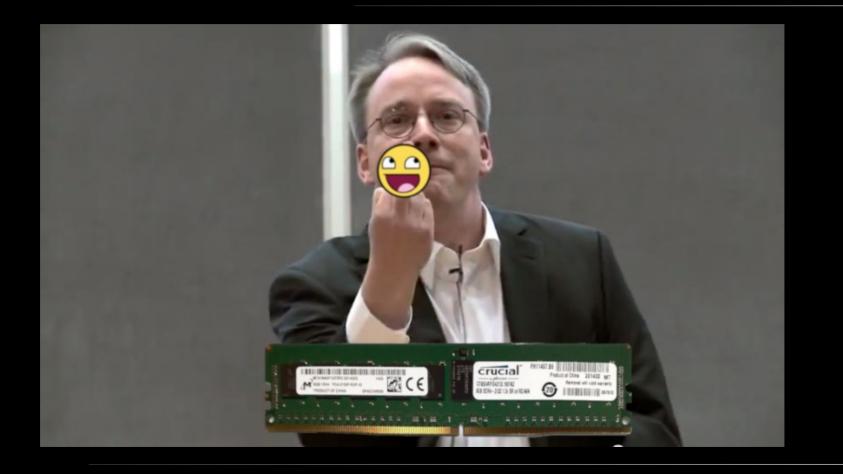


## Hardware



You are no longer being poisoned by a

#### We must have "the talk": ECC RAM



#### Case closed.

#### With ECC



#### Without ECC



### My veredict

- File server is the quintessential application for ECC.
- Do not let perfect be the enemy of good: get started, see if it works for you.
- **DO** plan to get an ECC capable machine when possible.

### Don't believe the ECC hype?

this is a screenshot from the machine I was using to make this presentation, taken right after it crashed on me...

CLK: 3193 M	st86 5.31b Hz (X64 Mode)	Pass 23%	*****		20GHz	
L1 Cache: L2 Cache: L3 Cache: 3 Memory : 3	32K 212847 MB/s 256K 52339 MB/s 072K 39416 MB/s 0972M 16457 MB/s	s <mark>  Test #</mark> 7 s <mark>  Te</mark> sting:	[Block move] 1024K - 2048M	2047M of 3	972M 1e: 0:12	2:22
Core#: 01 State: ¦\ Cores: 2	Active / 2 Tota	: CPU Temp : 64°C : (Run: All)	RAM: 665 MHz   Timings: CAS   Pass:	z (DDR3-1330) 5 9-9-9-24 @ 1 Err	- BCLK: 128-bit M ors:	99 Mode 288 
Tst Pass	Failing Addres	ss Go				2U
5 0	000580876e8 - 000500879e8 -	1280.4MB 000	404040 4040404 040001 0004000	30 00000001	1 280	1
7 1 7 1 7 1 7 1 7 1	00050087a68 - 00050087b68 - 00050087ba8 - 00050087c28 -	1280.4MB 00 1280.4MB 01 1280.4MB 02	100001 001000 000001 010000 000001 020000 000001 020000 000001 080000	00 00000001   00 00000001   00 00000001   00 00000001	281 282 283 284 285	

If you opt for sin, please test your hardware before anything else...

### What about, well, everything else?

- You should aim for data redundancy and all other safeguards.
- That said, if you can afford some downtime, you can relax the requirements e.g. only a single PSU, the occasional failed hard drive, and so on. Keep in mind the previous slide, though. :(
- My recommendations are for what you need to "get your feet wet". As things scale, evaluate your needs and go from there.
- Still, Nextcloud IS resource efficient. If you must choose, opt for redundancy/data safety over raw performance.

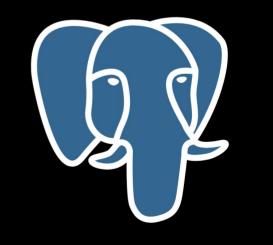
### Ok, so what's the bare minimum?

- Core 2 Duo / AMD K10 (Phenom II / Athlon II). I would not bother with anything older.
- 8GB is ideal. 4GB RAM is plenty to get you started. Minimum as per NC docs is 128MB, with 512MB being the minimum recommended. I went with 8GB and never spotted it going past the 2GB mark.
- Hard drive space: suit yourself!
- Static IP.
- Bandwidth: the more, the better! (well...duh)

#### Databases

- SQLite
- MySQL / MariaDB
- PostgreSQL

#### Who doesn't like elephants?



#### Nifty little script by MUUG!...

...so you can get started on your next(cloud) adventure!