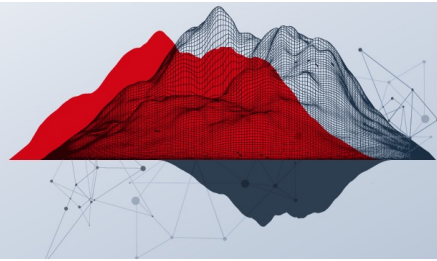




Optimizing your Zabbix setup

The “drink-water-during-a-heatwave” presentation

ZABBIX
SUMMIT
2023



Zabbix Summit 2023
Riga, Latvia

Basics and a bit more

Good to remember some Zabbix 101

[Pareto](#) fans: 20% of effort behind 80% of outcome

Be sophisticated only when required



Allenta

Trusted partner of Zabbix >10y

Big deployments >350k hosts

We monitor with Zabbix:

- Online and *brick-n-mortar* retail
- Critical banking services
- Delivering of digital media
- Huge global sports events

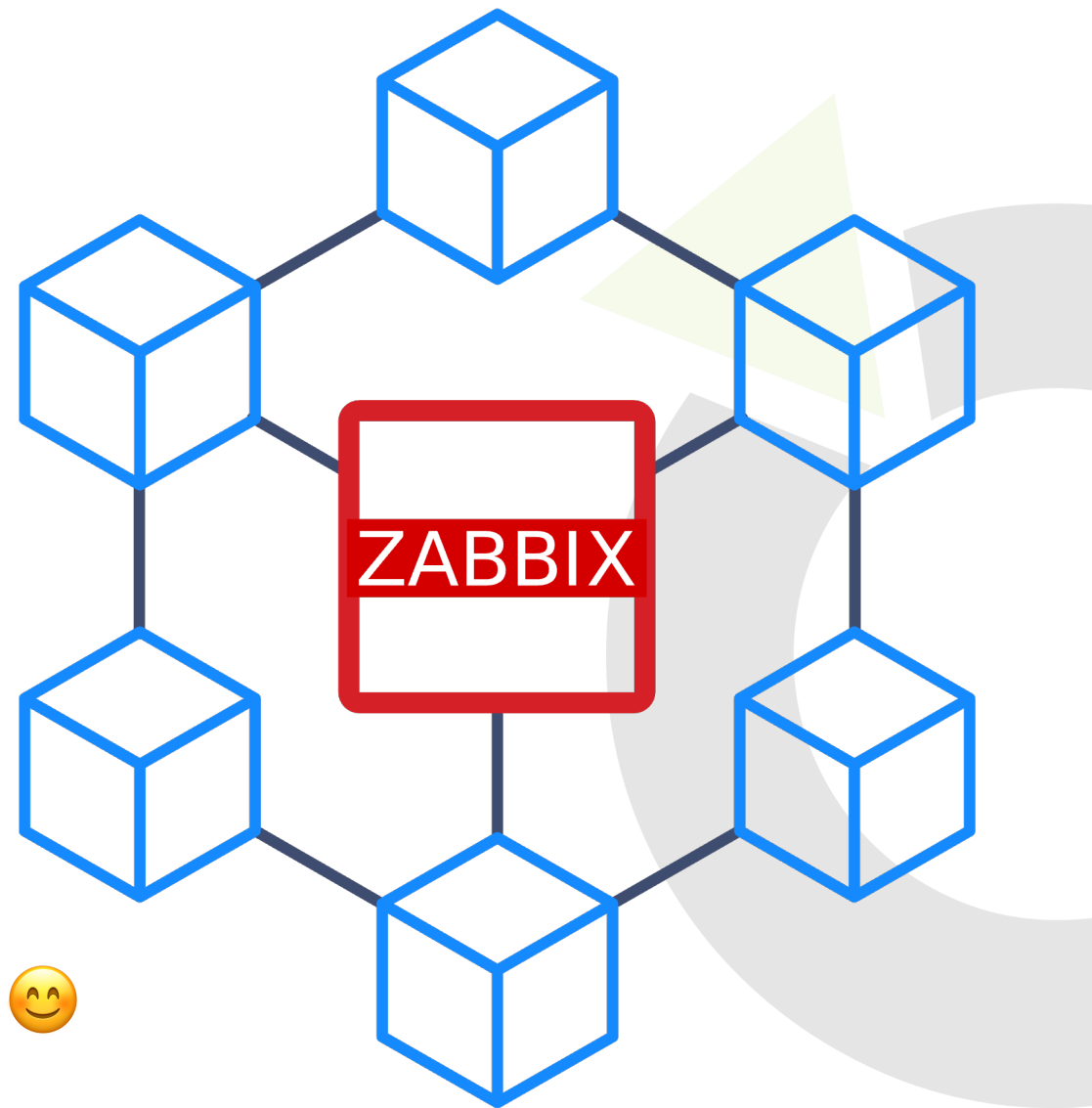


Top tips by topic

OS and under
Database
Frontend
Zabbix server

It works for us TM

If you know better... please share! 😊



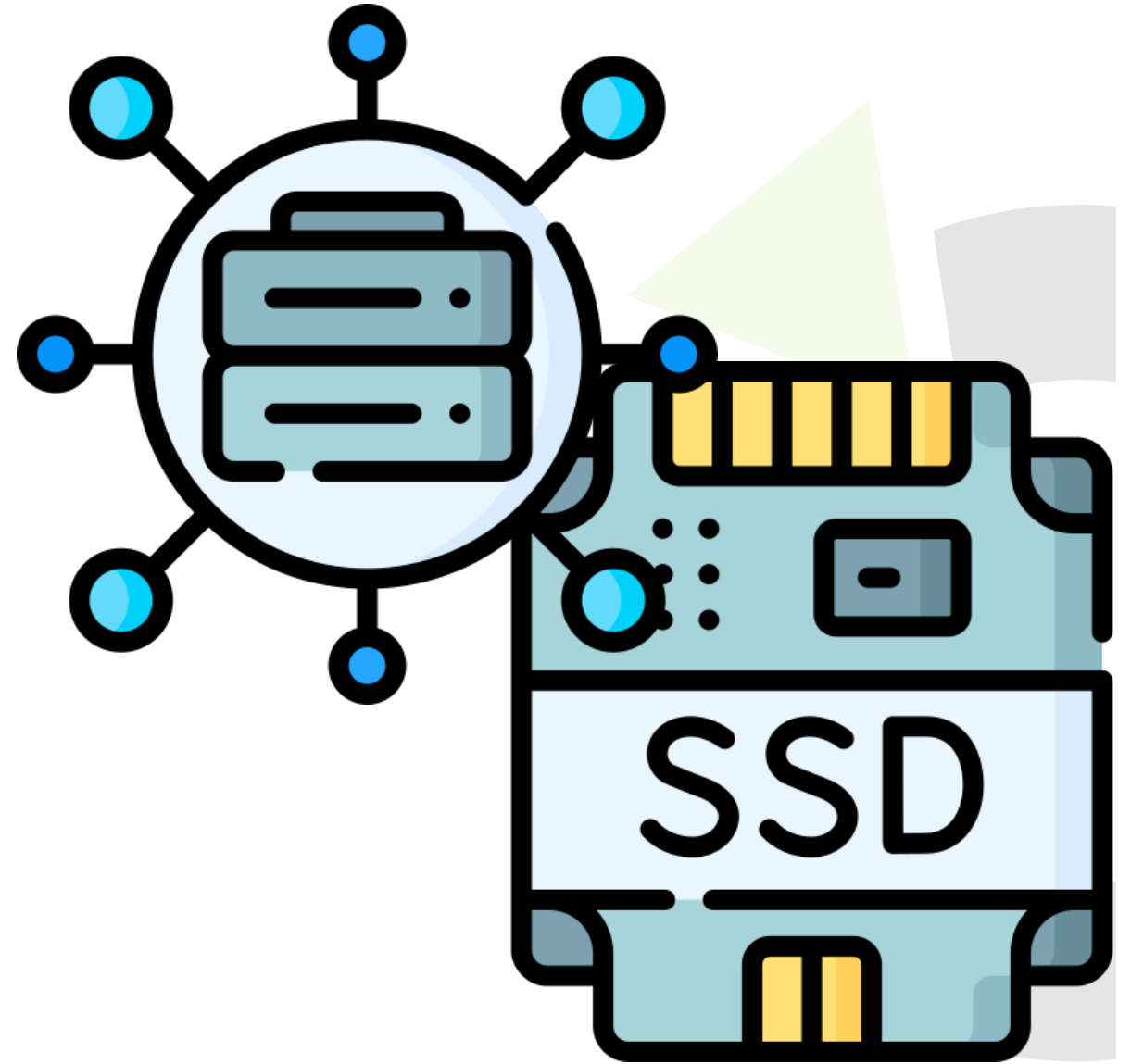
Tips on OS and under

Zabbix is very I/O intensive

- Use **SSD** or **NVME**
- Use **RAID10**

Mind the network

- Consider **latency** when placing servers
- Beware of **firewalls and traffic inspecting** devices

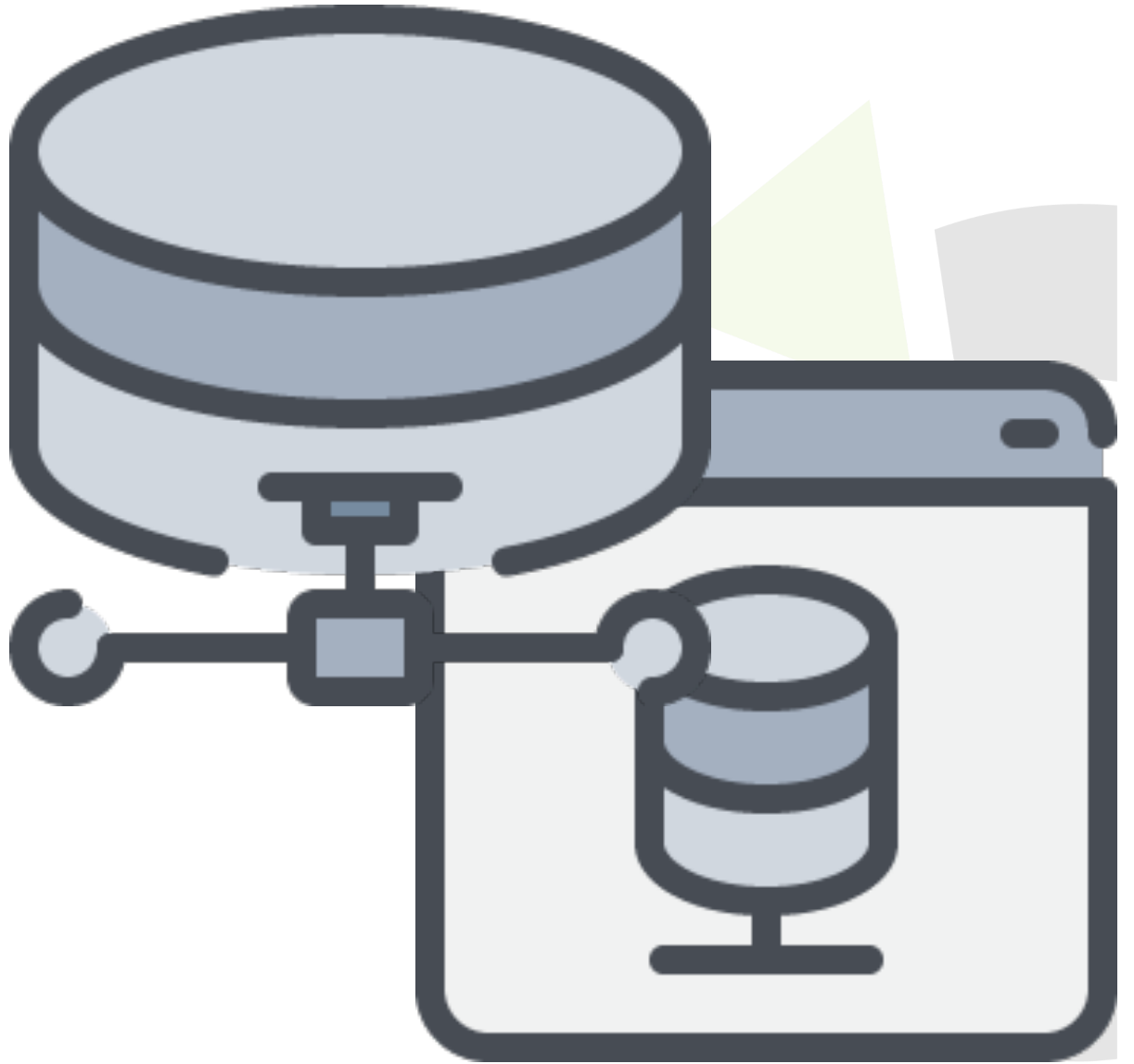


Tips on database

Use MySQL and allocate 50-70% of memory to **InnoDB buffer pool**

Not every suggested optimization will apply universally (KISS)

Make partitions for history and trend tables and **disable housekeeping**



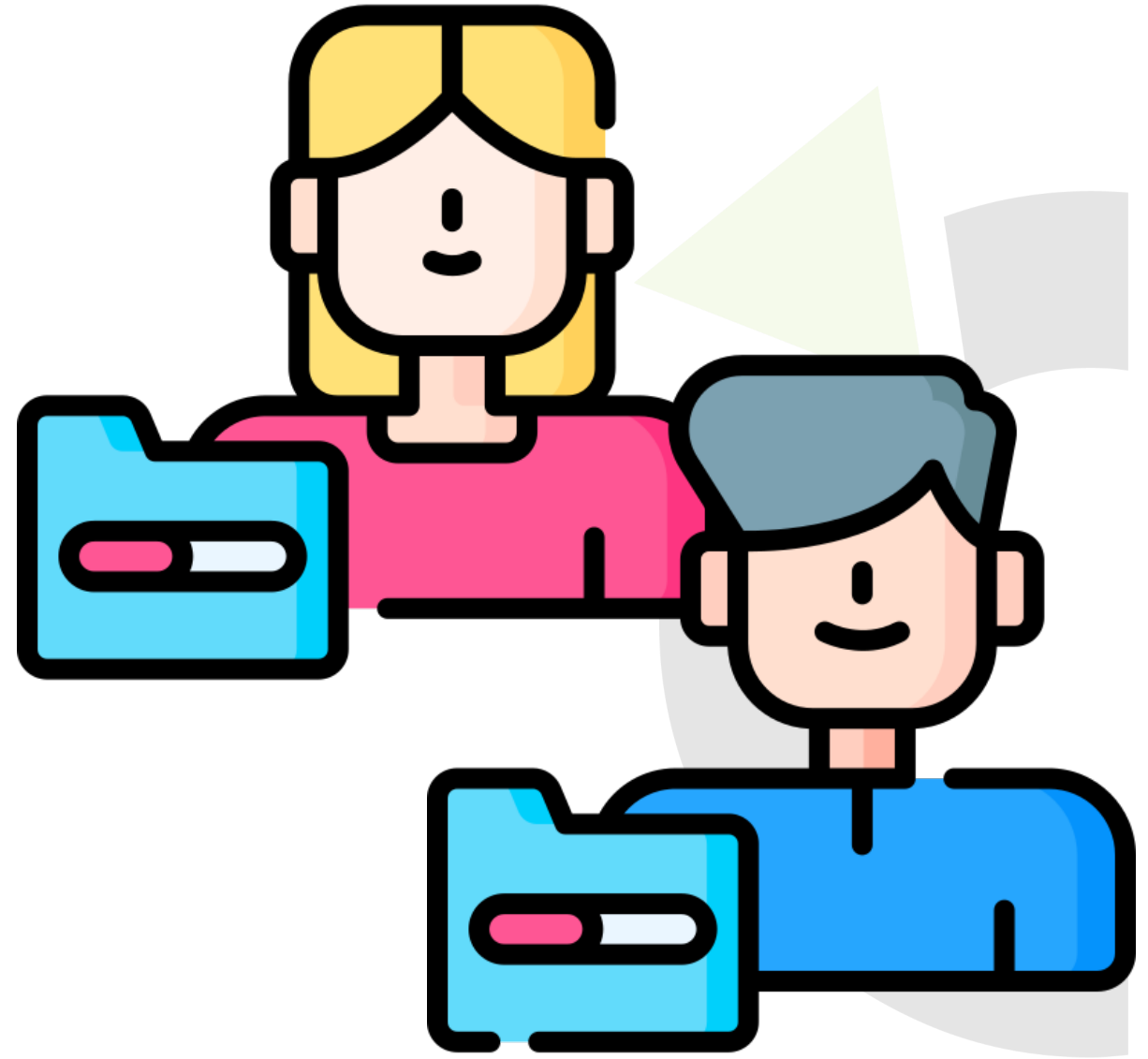
Tips on frontend

Use **Nginx**

- Configure gzip compression
- Configure worker processes based on your CPU cores

Use **PHP-FPM**

- Use and monitor **opcache**

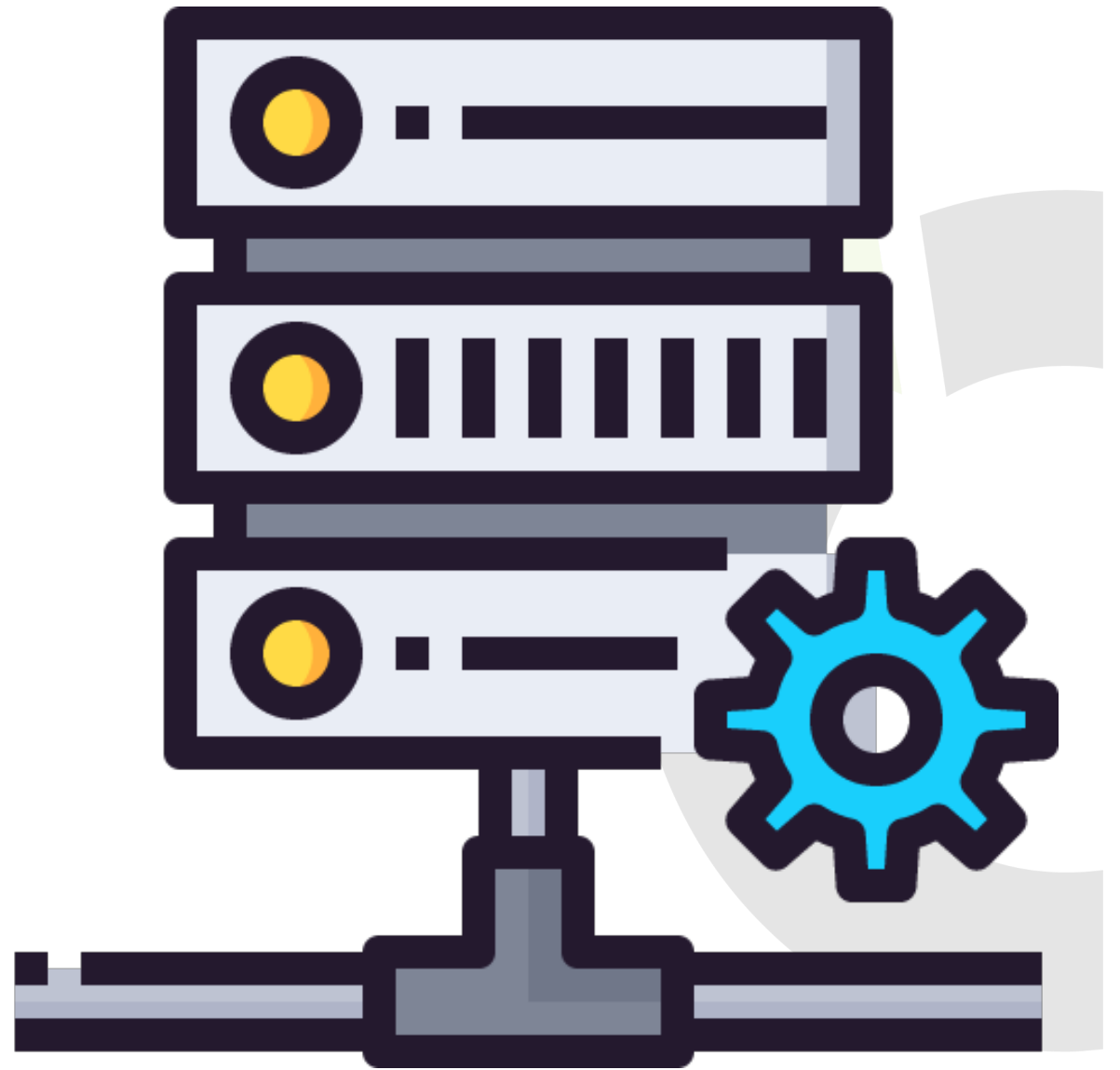


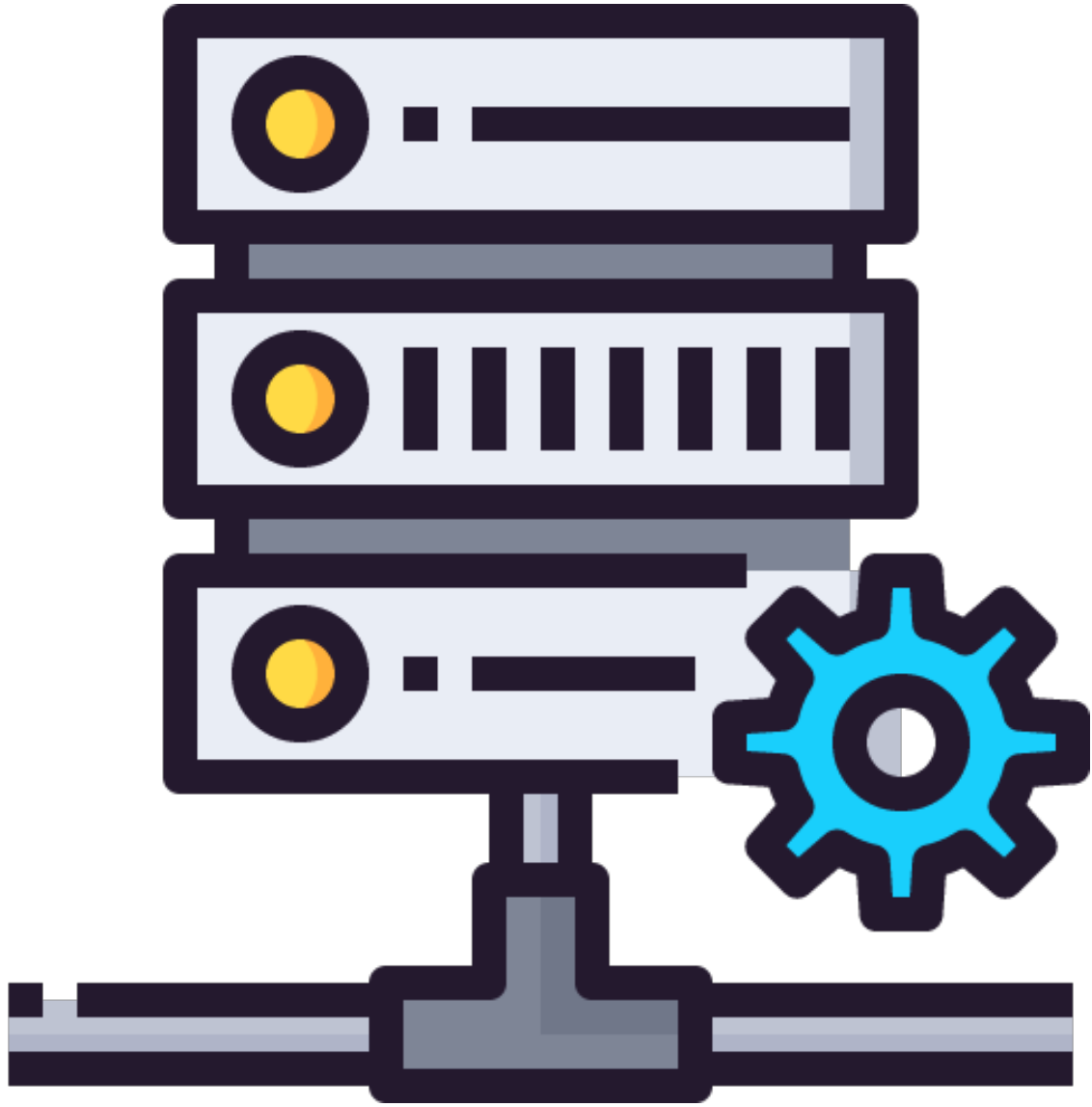
Tips on Zabbix server (1/2)

Adjust **cache sizes**: CacheSize, HistoryCacheSize, TrendCacheSize and ValueCacheSize

Adjust **item update intervals**: start with minutes and reduce only for critical items

Use **active checks** and **SNMP bulk requests**





Tips on Zabbix server (2/2)

Use **hysteresis** to avoid trigger flapping and be cautious with complexity

Avoid redundant items and use templates efficiently

Use **trends** and adjust the period for which you store detailed data

Use **proxies**

Wrapping up

First focus on low hanging fruit for performance boost

Set up **DB partitions** and tune cache usage,
use **Zabbix proxies** to distribute load
and, *please*, increase those **update intervals!**

Talk to us, we will be happy to help



Fernando Collado
fernando@allenta.com



Roberto Moreda
moreda@allenta.com