



# Desempeño de zabbix

Luciano alves  
Ceo de unirede brasil



I M A G U N E T

# ZABBIX 2020 Conference LATIN AMERICA

**NUEVAS FECHAS**  
**IMPORTANTE**

Zabbix Conference LatAm 2020 | 17, 18 y 19 de  
septiembre de 2020 em Porto Alegre.

Cambiamos las fechas de la Zabbix Conference  
para 17, 18 y 19 de setiembre, siguiendo los  
lineamientos de la OMS respecto al Covid-19  
Esperamos verlos en setiembre!





## Luciano alves

### Ceo de unirede brasil

Founder and CEO, Unirede Soluções Corporativas

Luciano Alves is Brazilian. He lives in the city of Porto Alegre in southern Brazil. He has been a Zabbix evangelist since 2007. Since 1994, he has been working to support the ICT infrastructure using his expertise in targeting and monitoring platforms. Luciano has had Zabbix professional certifications since 2008, and in 2012, he became one of the first official instructors outside of Zabbix SIA. He has trained over 200 professionals from different countries (Brazil, Argentina, Uruguay, Ecuador, Chile, Spain, and Colombia) to work with the Zabbix monitoring platform.

He is the founder of Unirede Soluções Corporativas, one of the premium partners of Zabbix SIA and currently the only Premium partner in all of the Americas. Luciano is also a speaker at open source events, always talking about Zabbix. Besides this, he is a moderator of the official Zabbix forums in Portuguese and Spanish, and has worked on the translation of the official documentation into Portuguese.

On June 2015 Luciano published his book 'Zabbix Performance Tuning' about his experience and solutions using Zabbix in large environments.

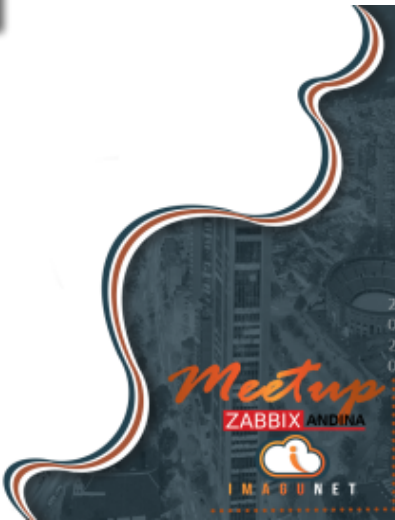
 <https://www.linkedin.com/in/luciano-alves-unirede/>

Meetup

ZABBIX ANDINA

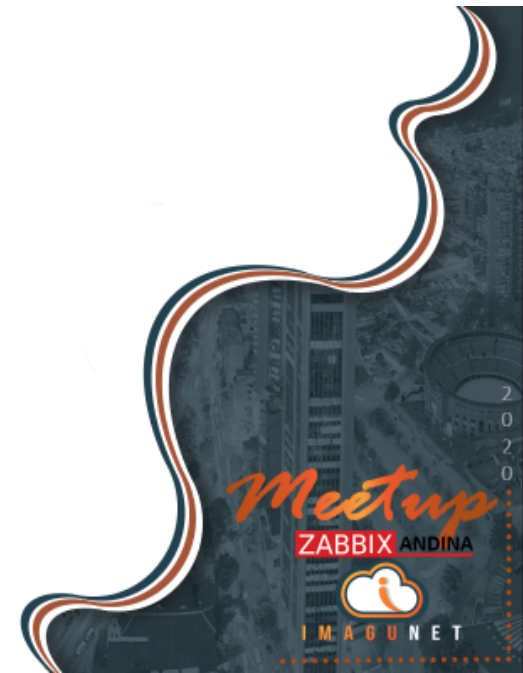
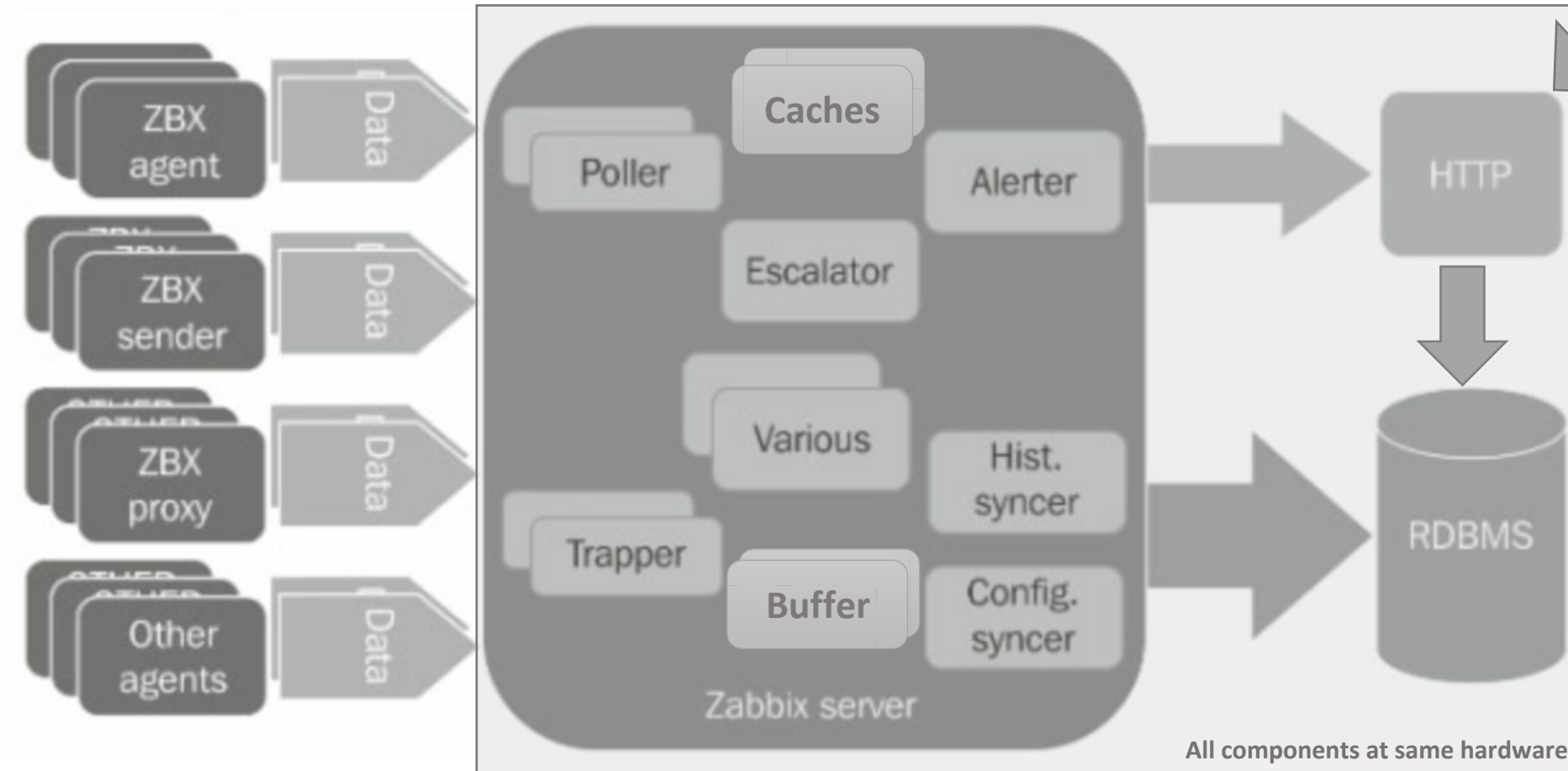


I M A G U N E T



# Zabbix Performance ?


It is all about data Flow and control



# Zabbix Performance ?

## System information

Parameter	Value
Zabbix server is running	Yes
Number of hosts (enabled/disabled/templates)	7732
Number of items (enabled/disabled/not supported)	679829
Number of triggers (enabled/disabled [problem/ok])	229489
Number of users (online)	288
Required server performance, new values per second	1847.55

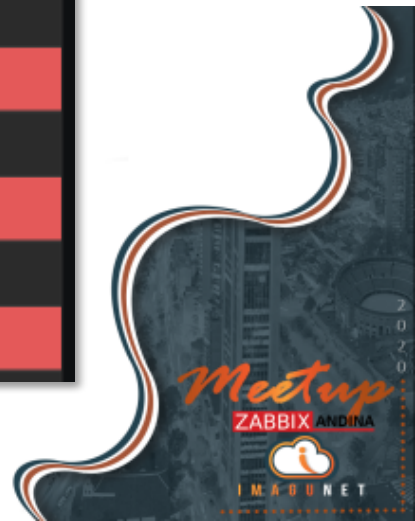


# Symptoms of bad performance

- Zabbix Queue has too many delayed items

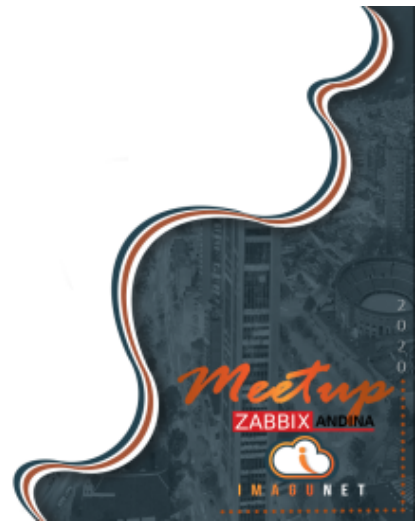


Items	5 seconds	10 seconds	30 seconds	1 minute	5 minutes	More than 10 minutes
Zabbix agent	25	14	26	93	104	96
Zabbix agent (active)	0	0	0	8	0	128
Simple check	814	720	0	11	13	172
SNMPv1 agent	17	63	1	11	4	55
SNMPv2 agent	715	514	259	1983	471	1757
SNMPv3 agent	0	0	0	0	0	0
Zabbix internal	8	12	0	13	11	116
Zabbix aggregate	0	0	0	0	0	0
External check	12	21	0	0	0	257
Database monitor	3	0	0	0	0	0
HTTP agent	1	2	0	0	1	4



# General advice on hardware

- Use fastest processor available
- SCSI or SAS is better than IDE (performance of IDE disks may be significantly improved by using utility hdparm) and SATA
- 15K RPM is better than 10K RPM which is better than 7200 RPM
- Use fast RAID storage
- Use fast Ethernet adapter
- Having more memory is always better



# General things to pay attention

- Data types & Pre-processing (text, integer, throttling, replace, etc)

## *Replace*

Find the search string and replace it with another (or nothing). All occurrences of the search string will be replaced.

Parameters:

**search string** - the string to find and replace, case-sensitive (required)

**replacement** - the string to replace the search string with. The replacement string may also be empty effectively allowing to delete the search string when found.

It is possible to use escape sequences to search for or replace line breaks, carriage return, tabs and spaces "`\n \r \t \s`"; backslash can be escaped as "`\\`" and escape sequences can be escaped as "`\\n`". Escaping of line breaks, carriage return, tabs is automatically done during low-level discovery.

Supported since 5.0.0.

er  
s will

no



# And about database ?

“

**TIMESCALEDB EXTENSION IS A VERY  
PROMISING TECHNOLOGY.**

**IT WORKS WELL WITH ZABBIX AND GIVES  
SOME QUITE NOTICEABLE ADVANTAGES  
OVER RUNNING ZABBIX WITH STANDARD  
POSTGRESQL DATABASE.**

”

**ZABBIX** BLOG



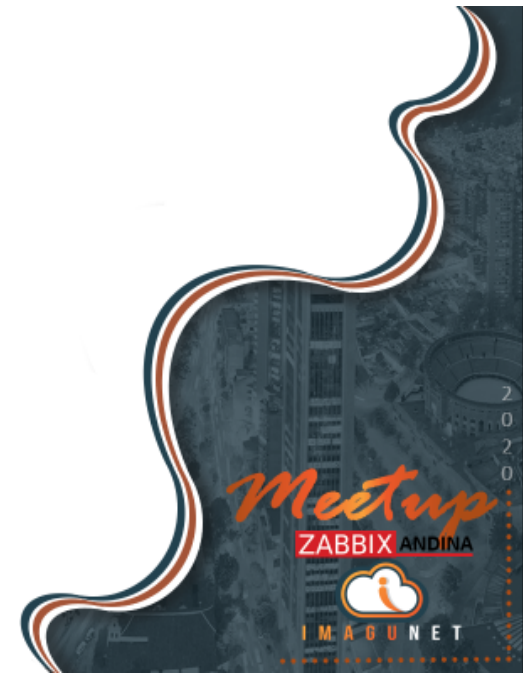
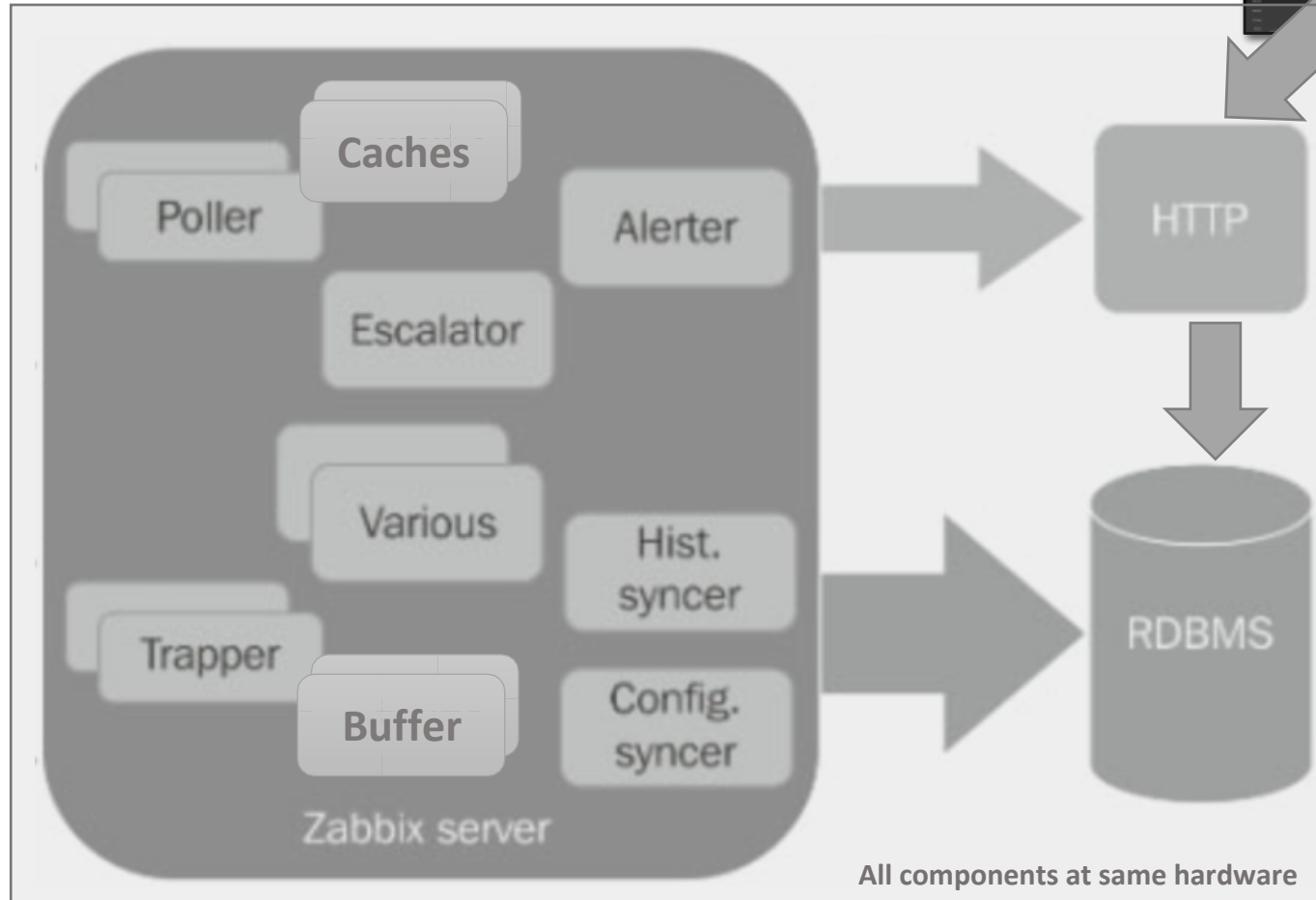
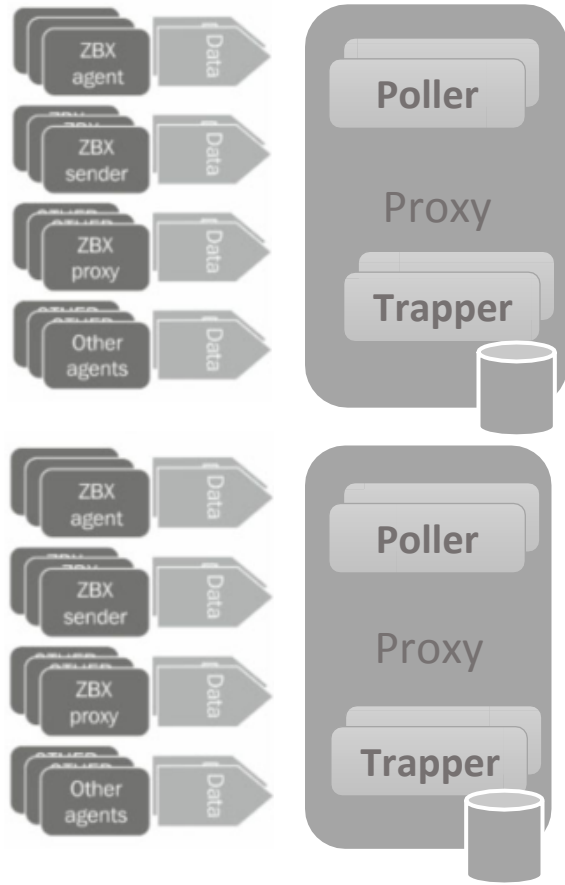
# Zabbix and TimescaleDB

- It comes as a PostgreSQL extension, not a separate system. Thus, it doesn't require extra hardware, virtual machines or any other infrastructure changes. Users can continue to use their PostgreSQL tools of choice.
- It lets to keep virtually all database-related code in Zabbix intact.
- It brings considerable performance improvements for Zabbix history syncer and housekeeper.
- Its basic concepts are easy to understand.
- It is very accessible from the installation and configuration standpoint for new users and those who run small to medium Zabbix configurations.



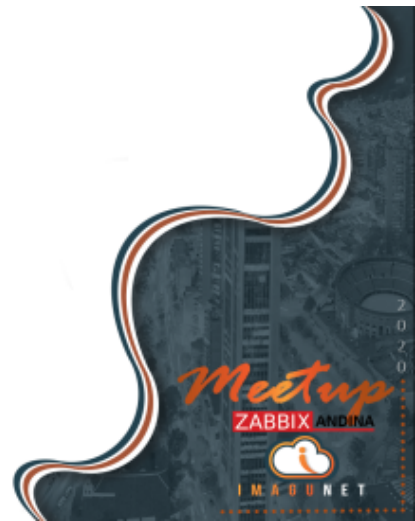
# Use Zabbix Proxy

Load is redistributed from your Zabbix server to proxies



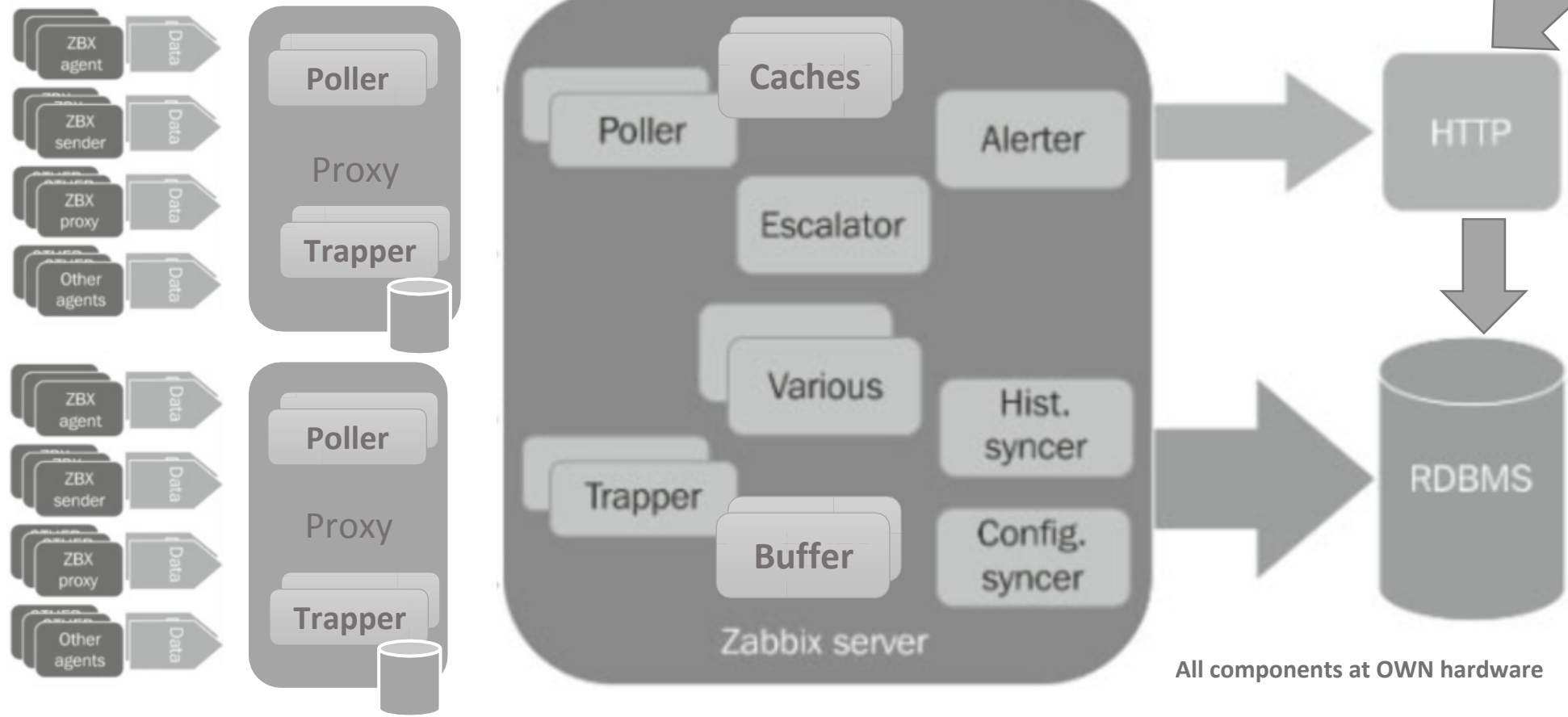
# Hidden Benefits of Zabbix Proxy

- The main benefit of proxies in terms of performance is that the load is redistributed from your Zabbix server to proxies.
- Database
  - Proxies also come with a separate database.
- Remote Monitoring & Virtual Networks
  - A proxy should be your first choice for remote monitoring if you have branches or offices in different cities.
  - If you have virtual networks not accessible by the Zabbix server, you have to install the proxy and choose the preferred method of communication (active or passive).



# Hardware to each component

Separate your environment in other hardware



# Preguntas

2020  
*Meetup*

ZABBIX ANDINA



IMAGUNET