

How does a big shared web  
hosting environment work?

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# About me

- ◆ +14 years experience with Linux/Unix.
- ◆ Technical Operations Leader at Locaweb.
- ◆ PPPPL Programmer (Python, PHP, Perl and Lua) and I can handle myself in C.
- ◆ Father.
- ◆ USF4 Player (I came back).

# About Locaweb

- ◆ founded in 1997 focused on shared hosting.
- ◆ First Brazilian company to offer hosting services using its own infrastructure.
- ◆ Diversified portfolio: dedicated servers, shared hosting, e-mail, e-commerce, cloud computing, VoIP, streaming system, etc.

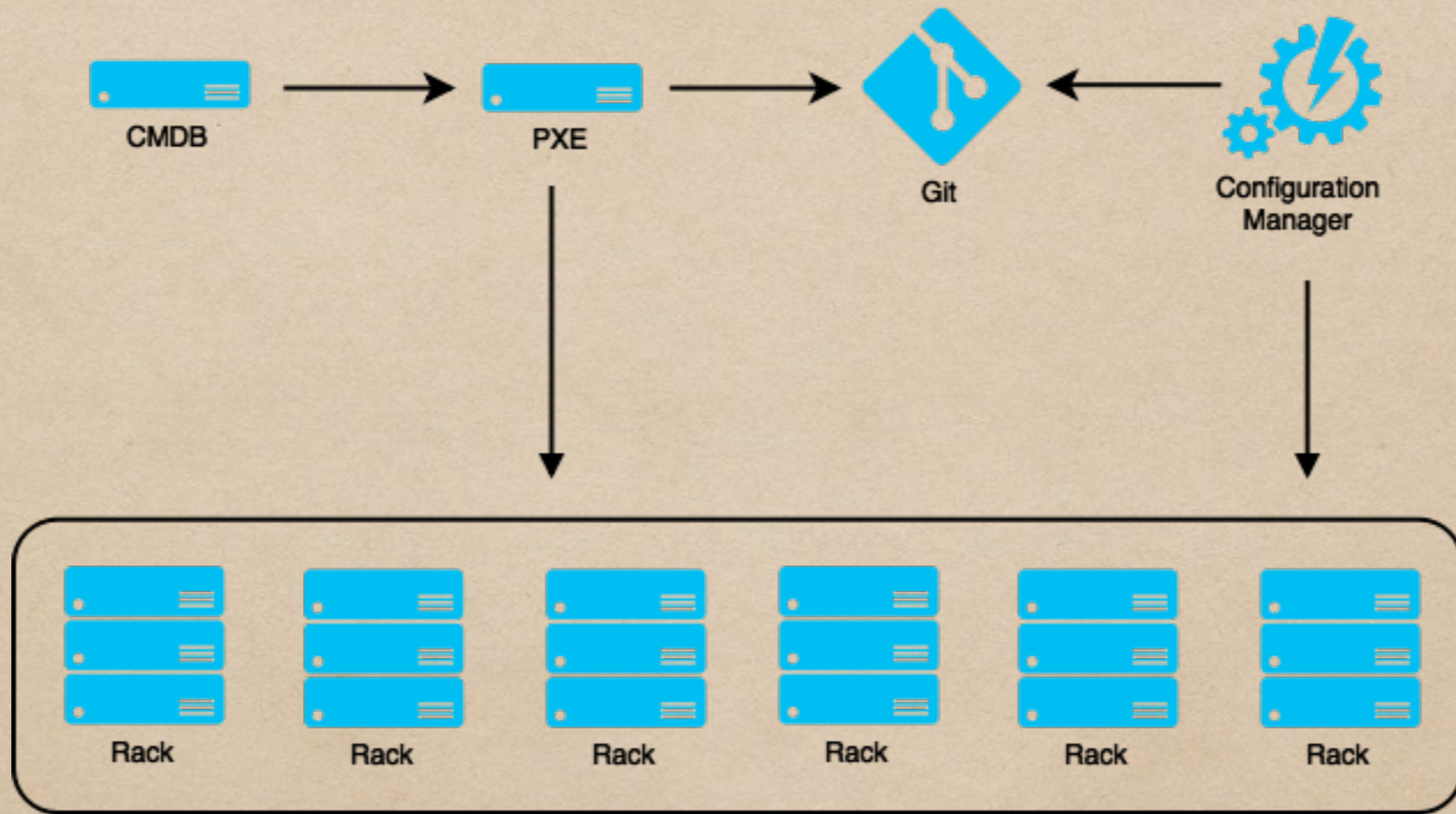
# Locaweb in numbers

- ◆ +1k employees.
- ◆ +262k customers.
- ◆ +465k websites.
- ◆ +14k virtual servers.
- ◆ +6k physical servers.
- ◆ +6M mailboxes.

# What is shared hosting?

- ◆ Shared hosting is a platform in which a web server or multiple web servers provide web pages, each having its own individual space.

# Provisioning (part I)



# Provisioning (part II)

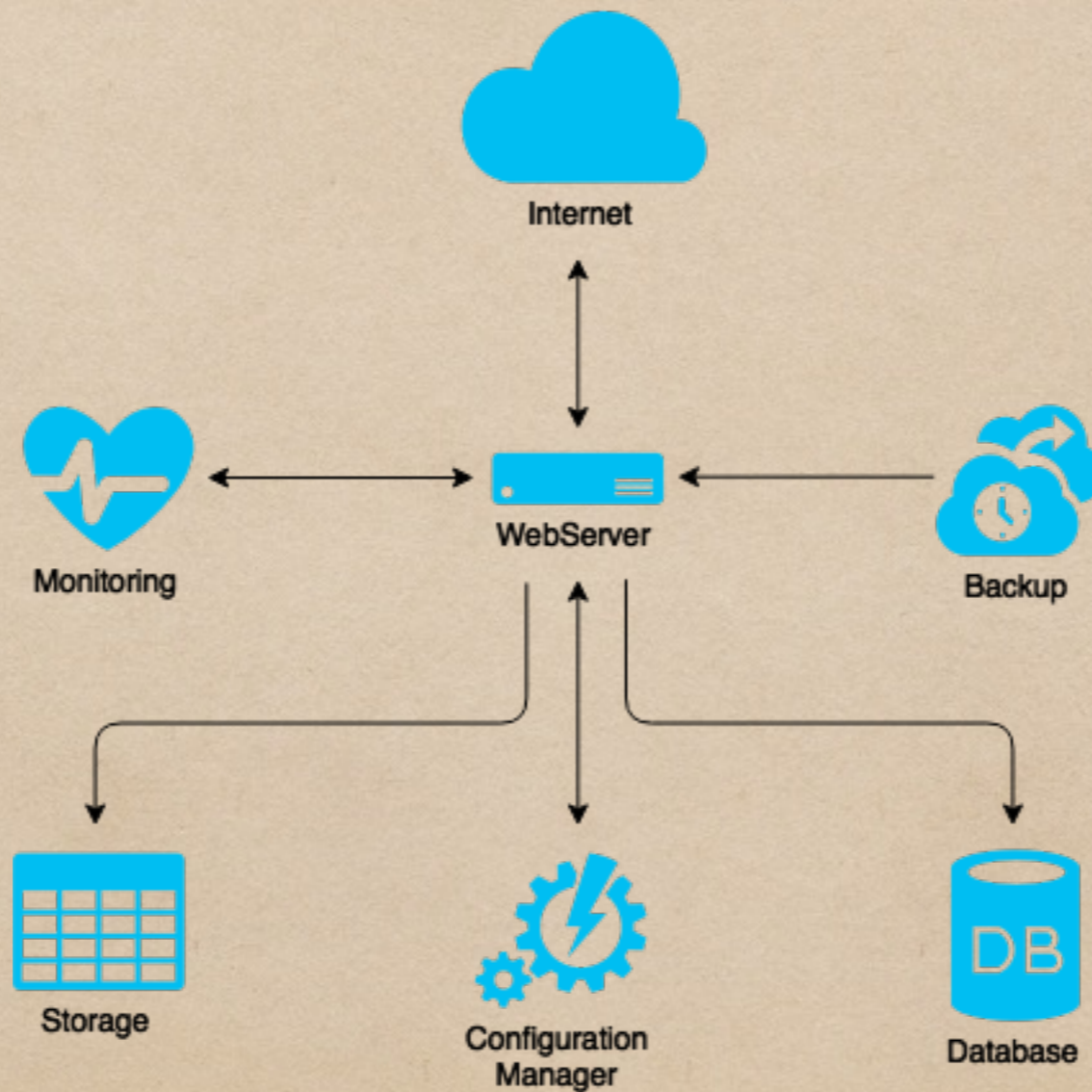
- ◆ Technologies:
- ◆ CMDB (developed in ruby).
- ◆ Cobbler (customised version with python plugins).
- ◆ Gitlab (customised version).
- ◆ Cfengine (core).

# Provisioning (part III)

- ◆ Advantages:
- ◆ Automation.
- ◆ Availability.
- ◆ Standardisation.
- ◆ Maintenance.
- ◆ Scalability.



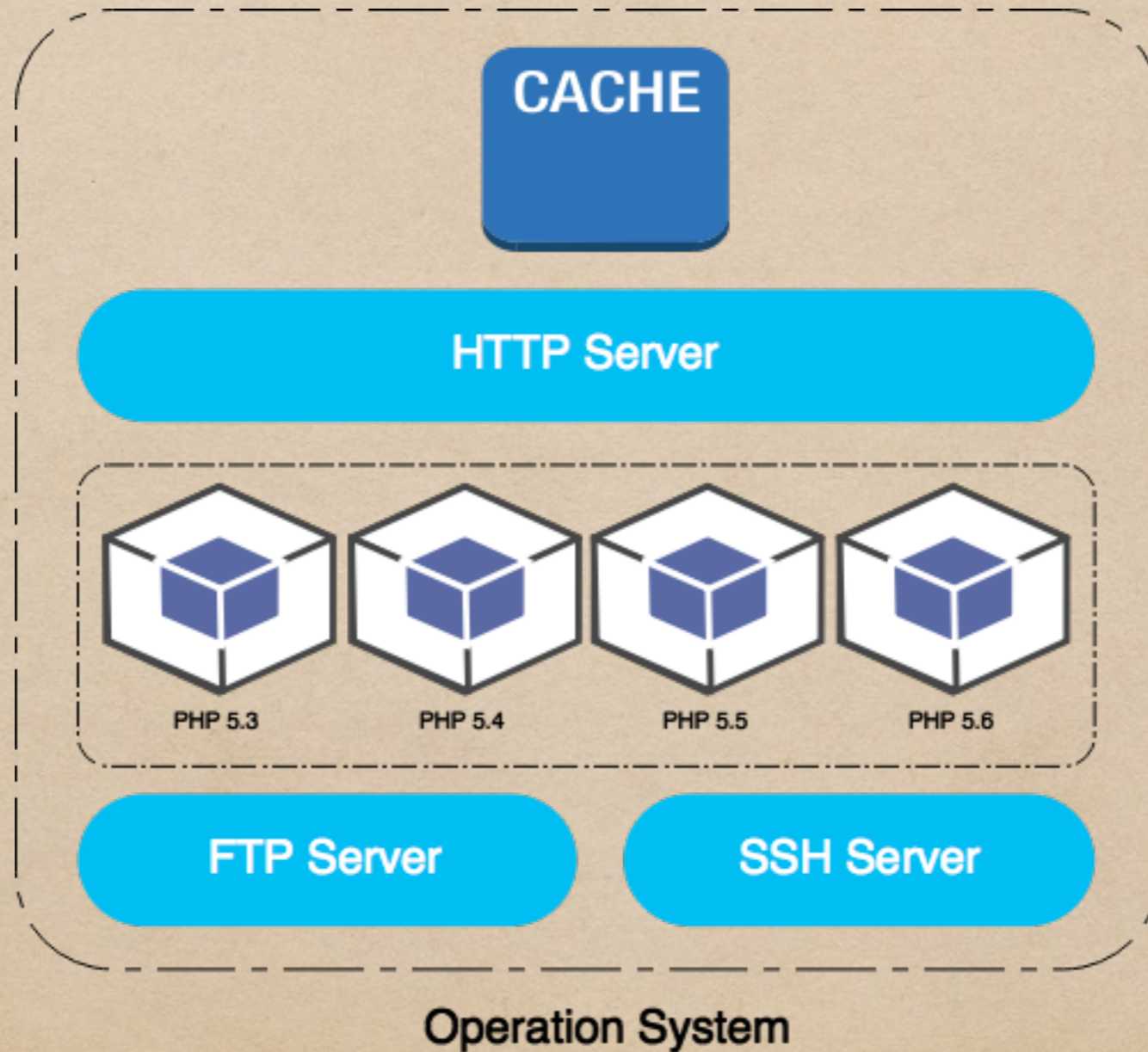
# Locaweb Shared hosting architecture (part I)



# Locaweb Shared hosting architecture (part II)

- ◆ Technologies:
- ◆ Check-mk (with a plenty of python plugins).
- ◆ Bacula (customised version).
- ◆ Avere Storage.
- ◆ Cfengine.
- ◆ PostgreSQL and MySQL Percona Server.

# Webserver architecture (part I)



# Webserver architecture (part II)

- ◆ CentOS.
- ◆ Varnish.
- ◆ Apache HTTP Server.
- ◆ Pure-FTP.
- ◆ OpenSSH.
- ◆ PHP 5.3 - PHP 5.6.

# Security

- ◆ Customised Kernel with Grsecurity Patch.
- ◆ Access Control List.
- ◆ Firewall.
- ◆ Monitoring.

# References

- ◆ <http://www.locaweb.com.br>
- ◆ <https://www.varnish-cache.org>
- ◆ <http://httpd.apache.org>
- ◆ <http://php.net>
- ◆ [http://w3techs.com/technologies/overview/  
programming language/all](http://w3techs.com/technologies/overview/programming_language/all)
- ◆ <http://grsecurity.net>

# Locaweb OpenSource

## **LOCAWEB** OPEN SOURCE

Projetos de código aberto criados e mantidos pela Locaweb.  
Conheça e contribua conosco!

**LOCAWEB**

# Thanks for you attention!

- ◆ Any questions?
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- ◆ <http://www.claudioborges.org>
- ◆ <https://github.com/but3k4>