



High Availability High Performance

How to sleep without the
server-crash-fear

Michael Schmid
michael@amazeelabs.com
@schnitzel

High Availability

- no „Single Point of Failure“
- Redundancy

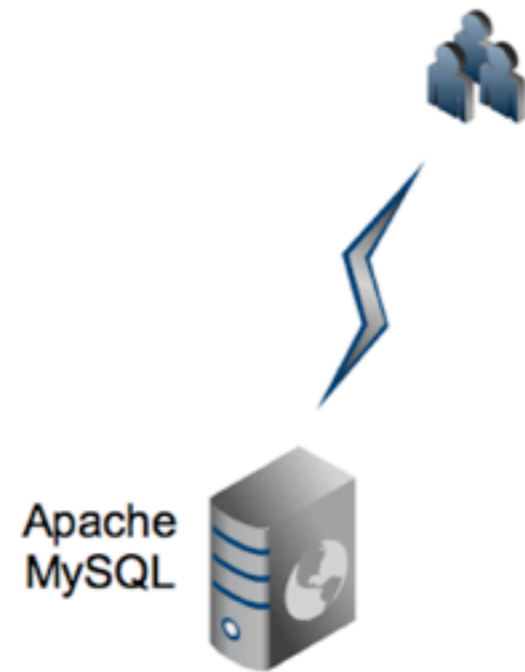
High Performance

- Response times
- Caching
 - HTML
 - Data (serialized)
- Scalable
 - adding easy and fast more servers

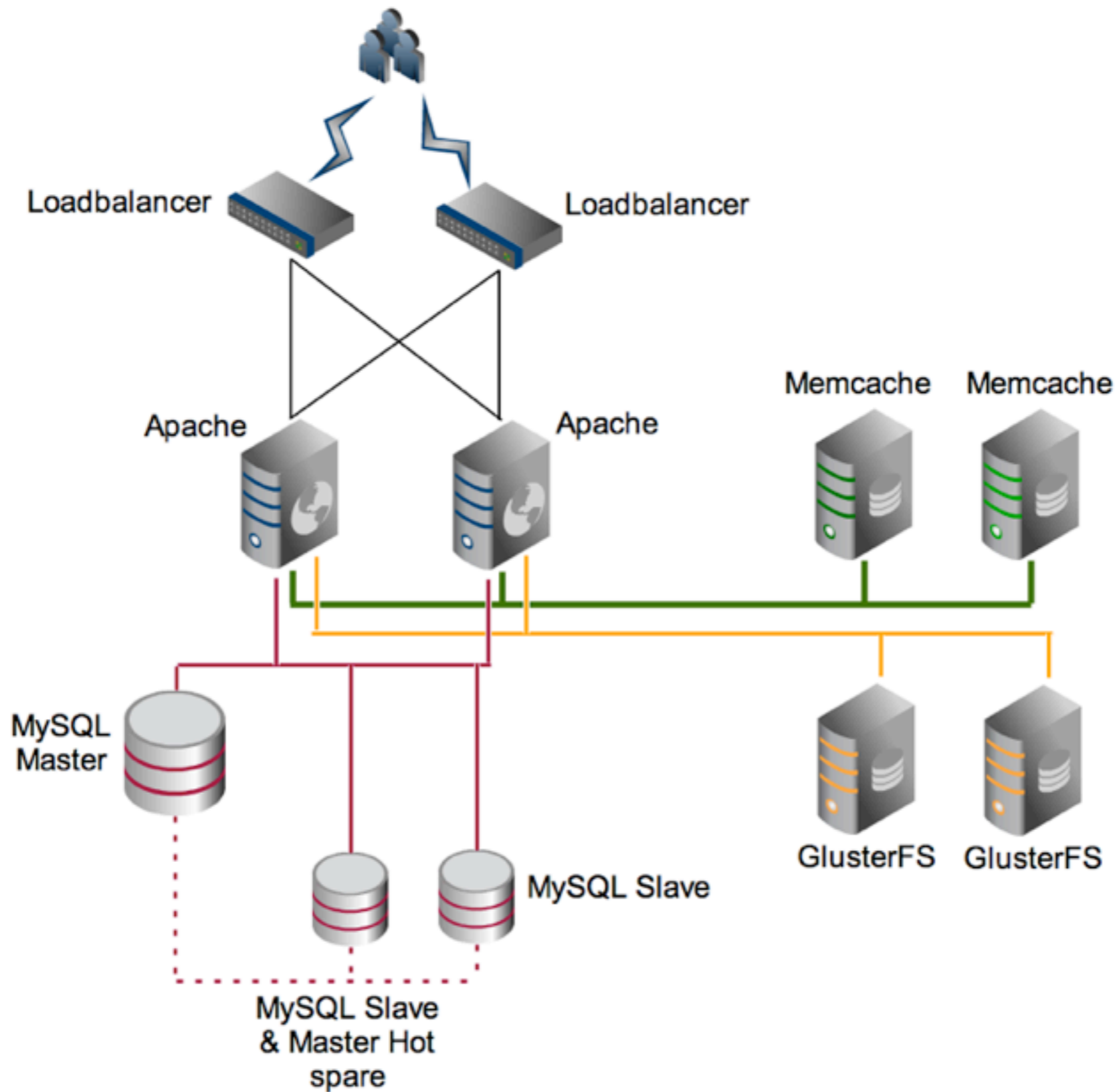


Scalable & Redundancy Server System

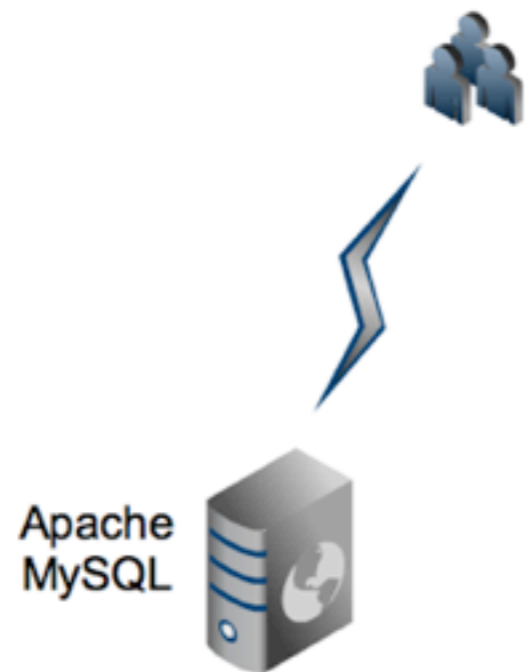
starting position



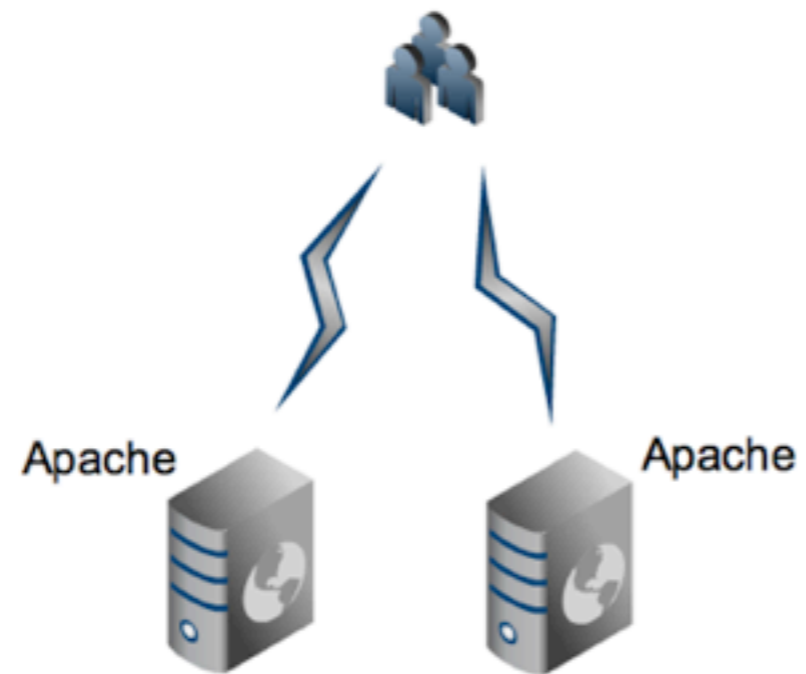
Goal



starting position



Two Webserver



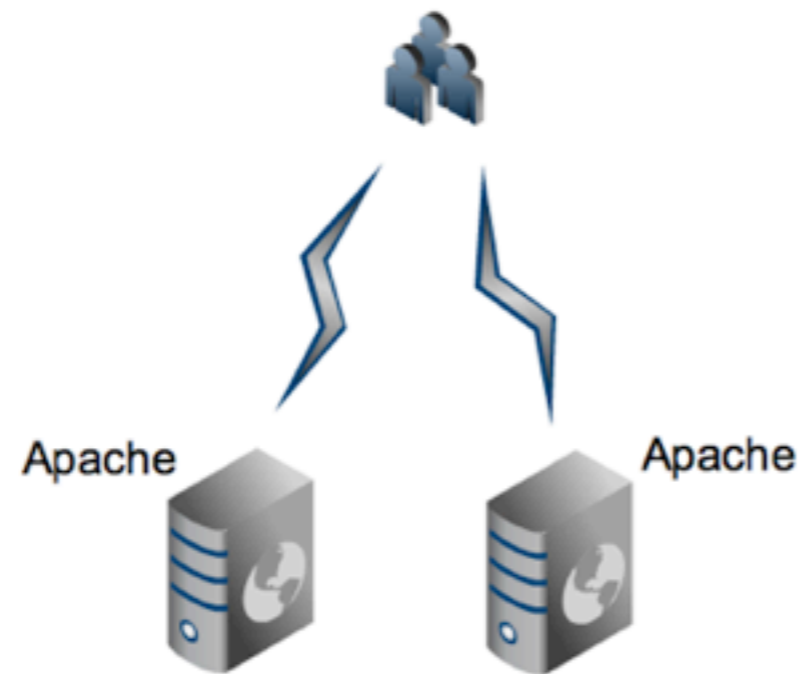
Apache

- APC
 - precompiled
 - keeps files in memory

nginx

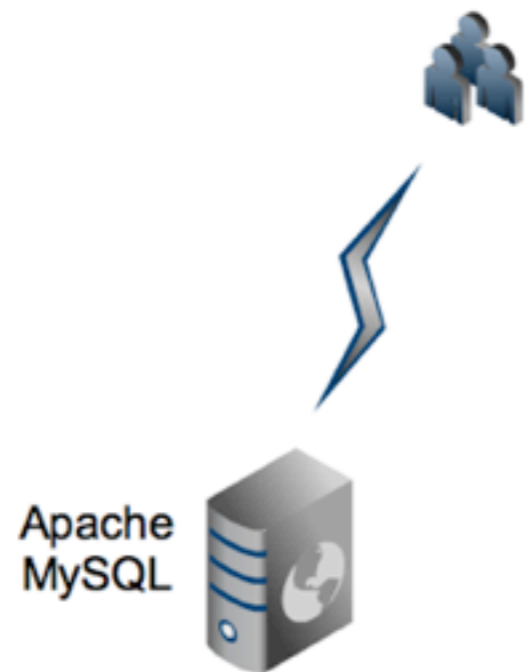
- lightweight Webserver
- Reverse Proxy
- Loadbalancer
- can be faster
- more knowledge needed

Two Webserver

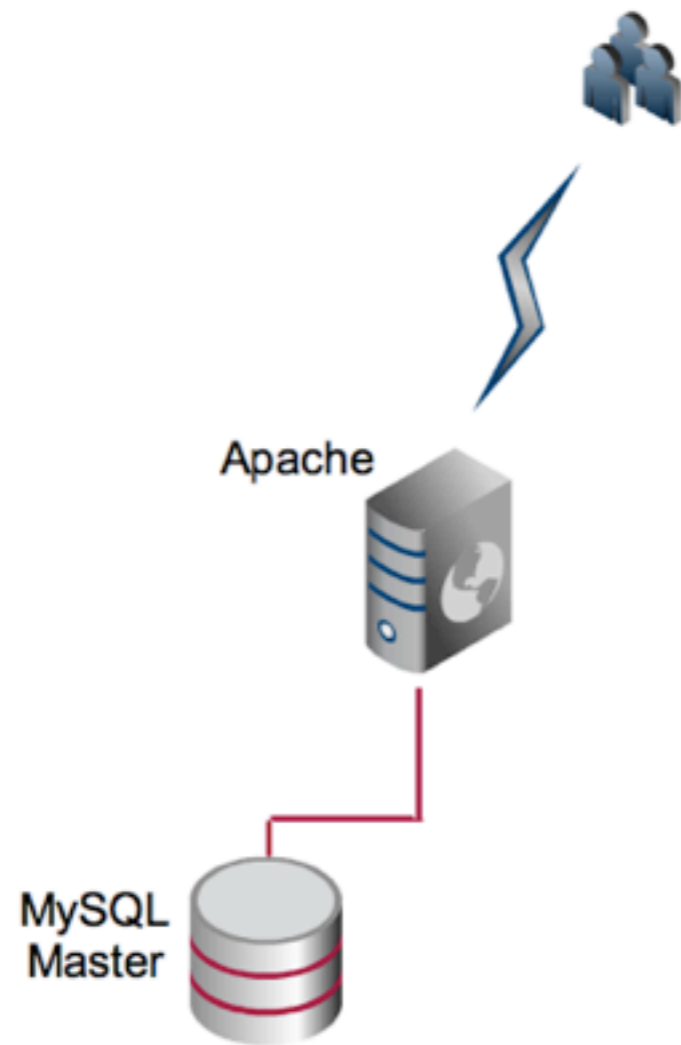


MySQL?

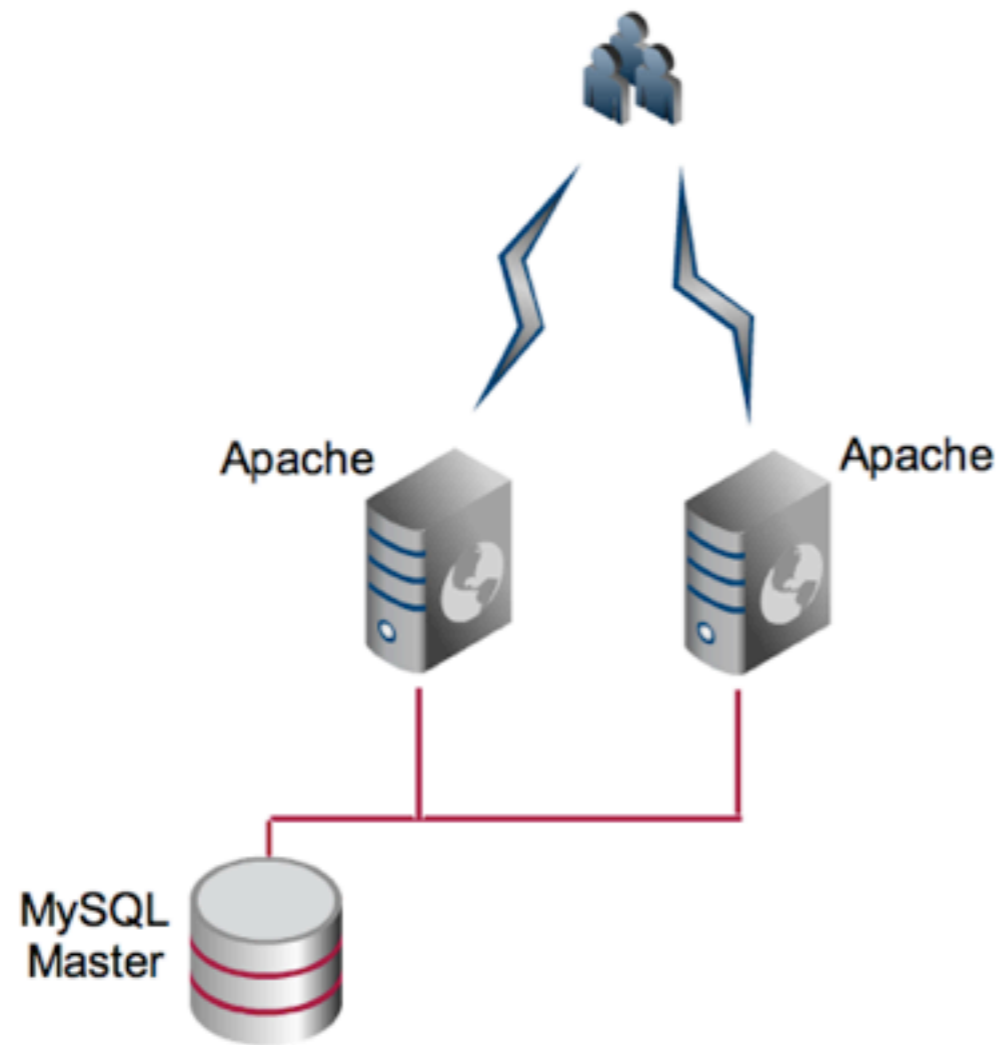
starting position



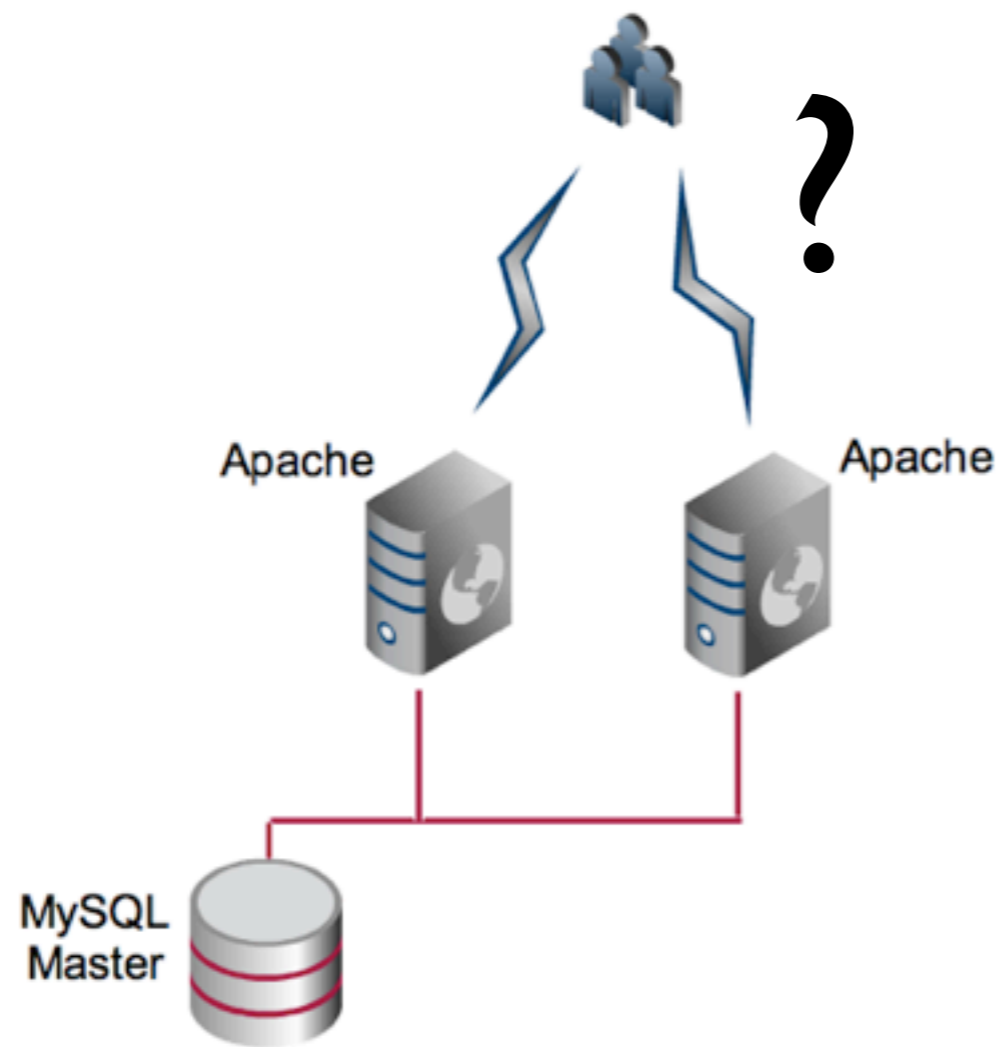
dedicated MySQL



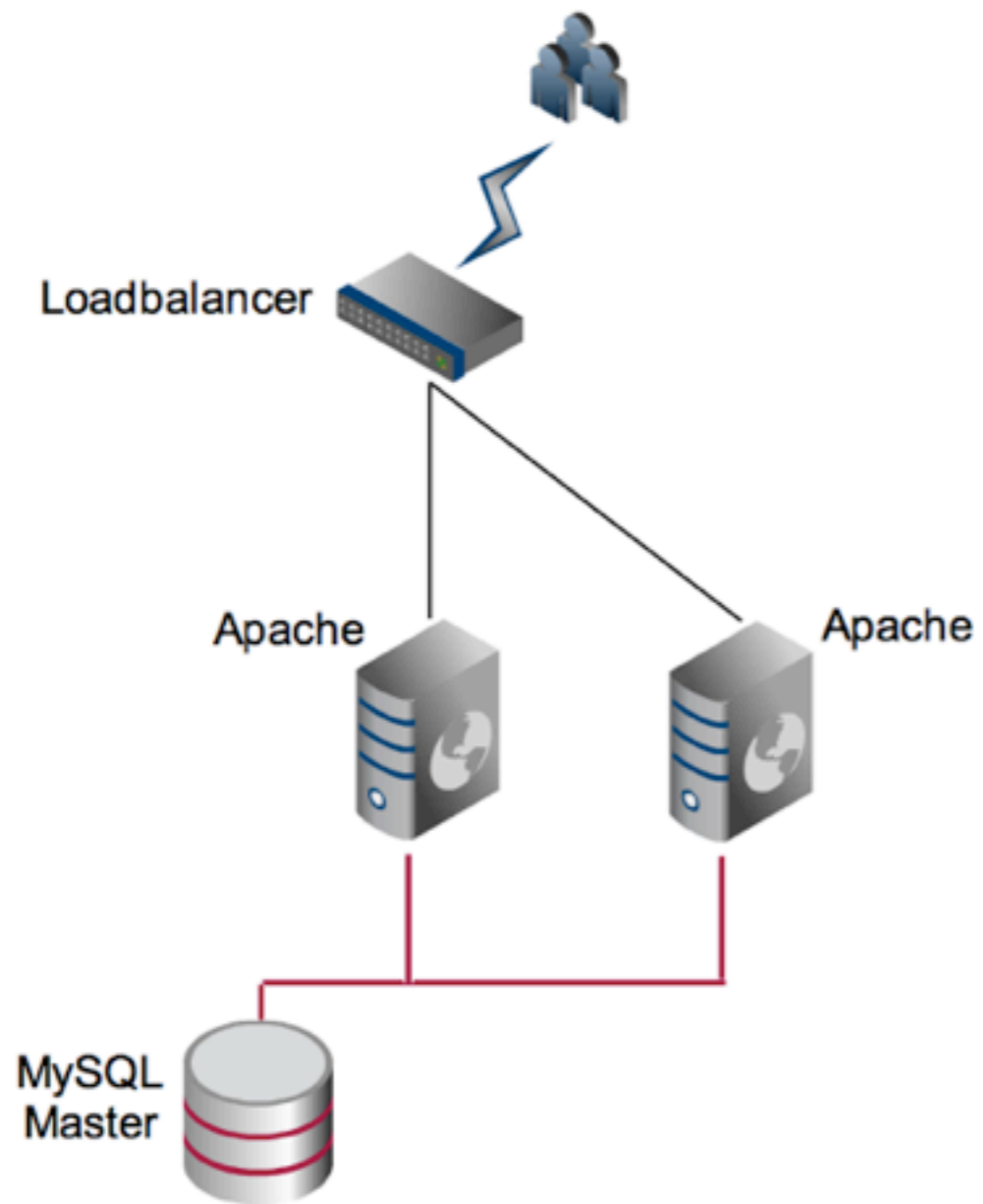
second Webserver



How to Access?



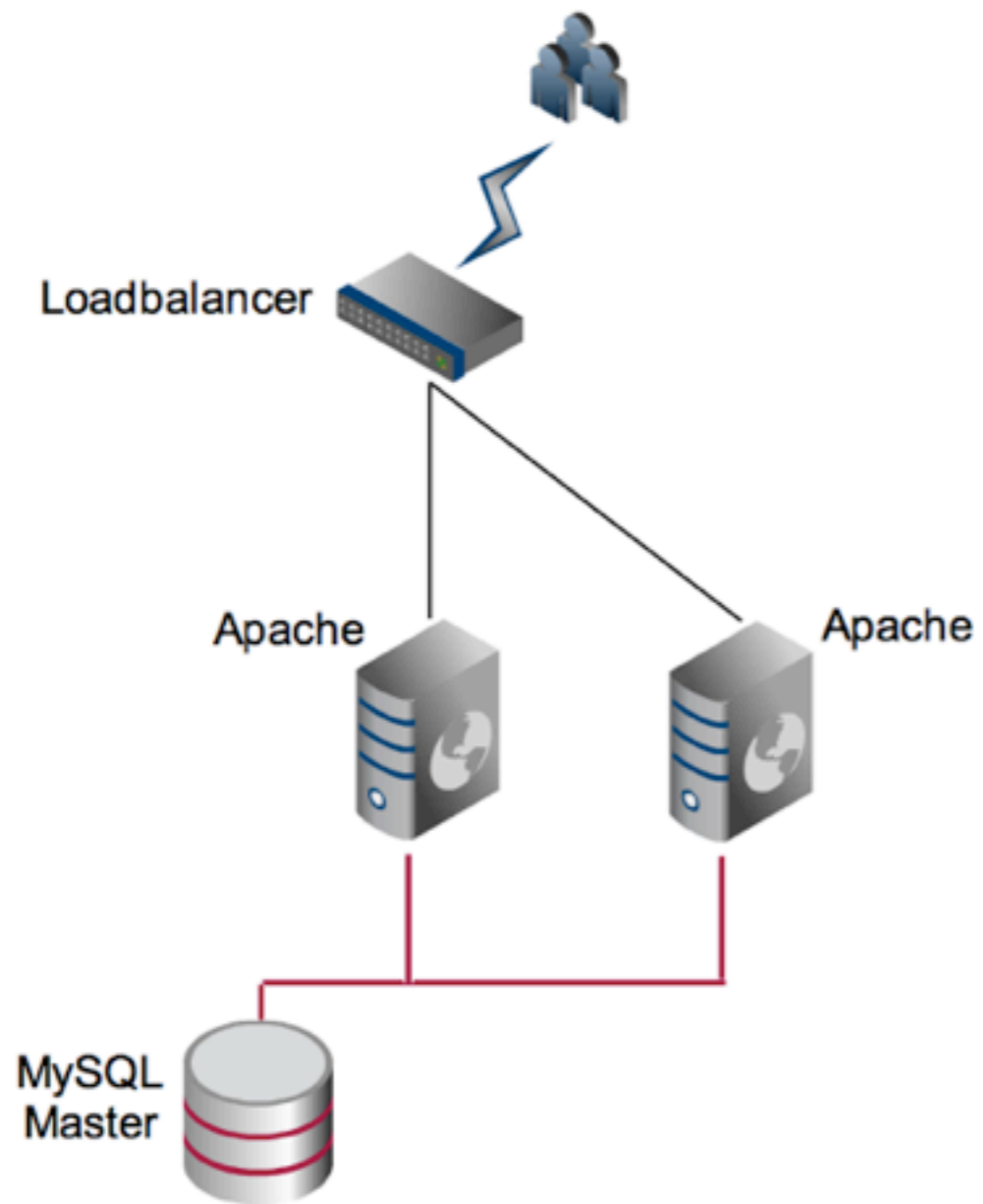
Loadbalancer



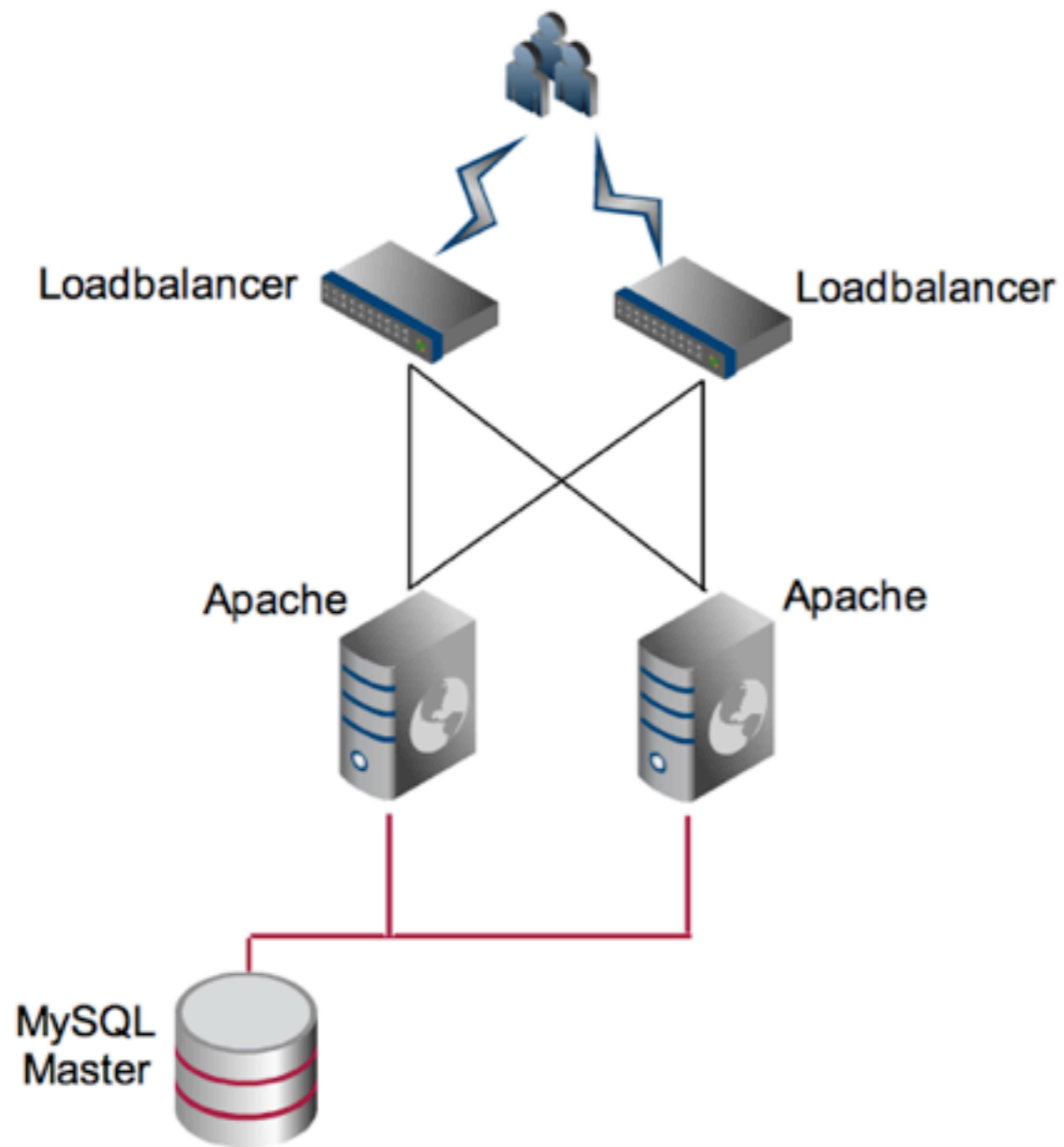
Loadbalancer

- passes through requests
 - „Man in the middle“

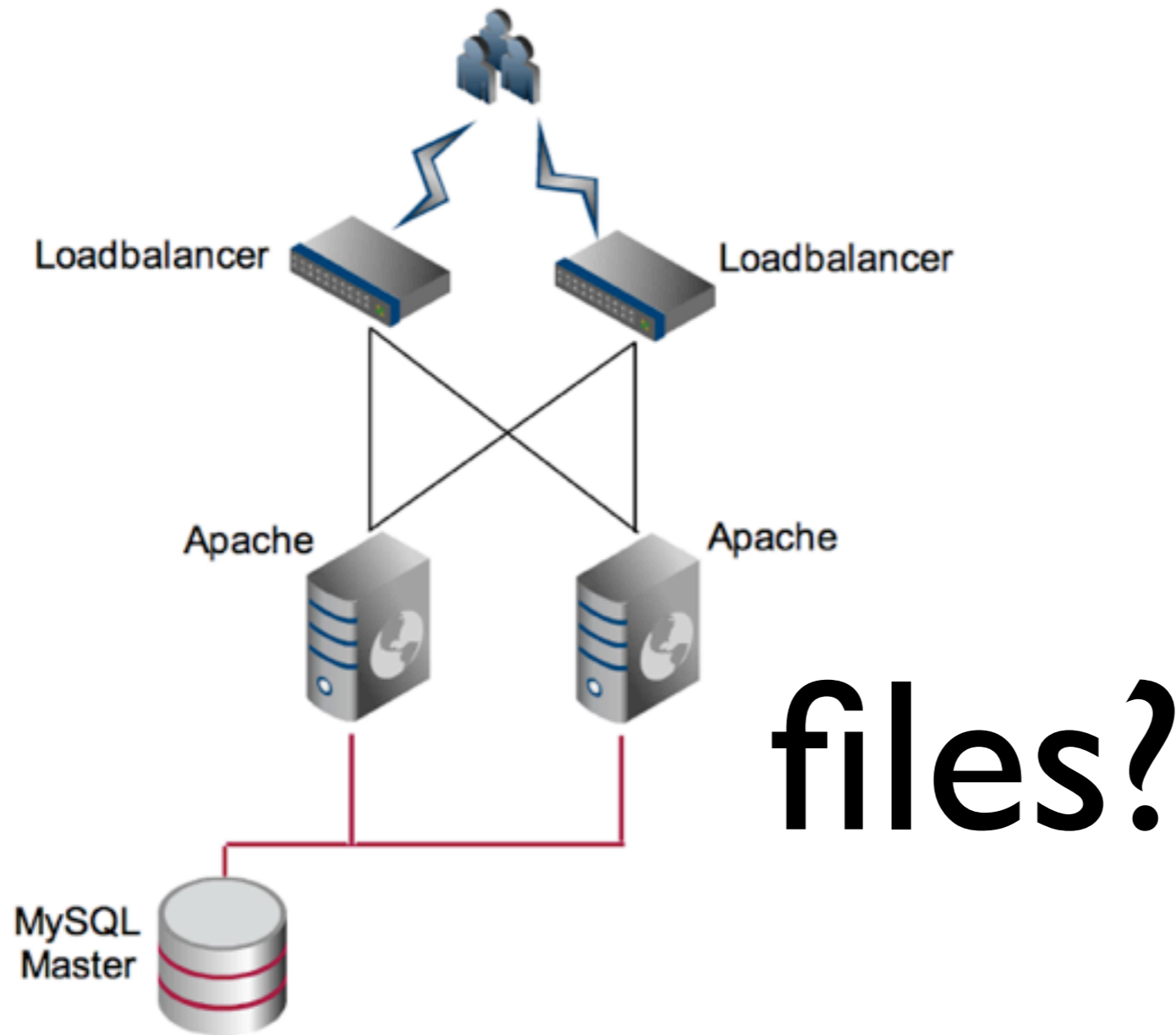
Loadbalancer



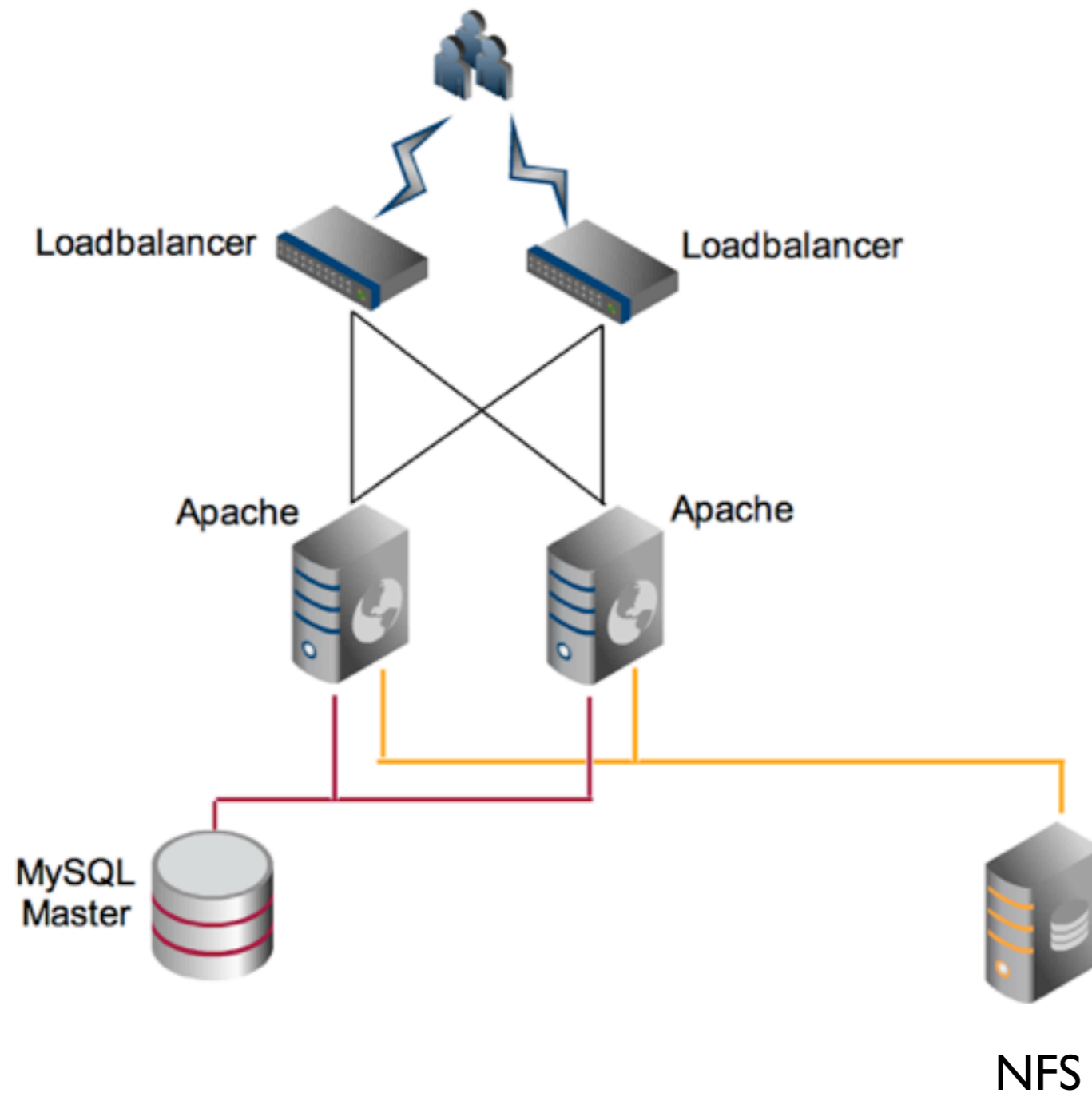
second Loadbalancer



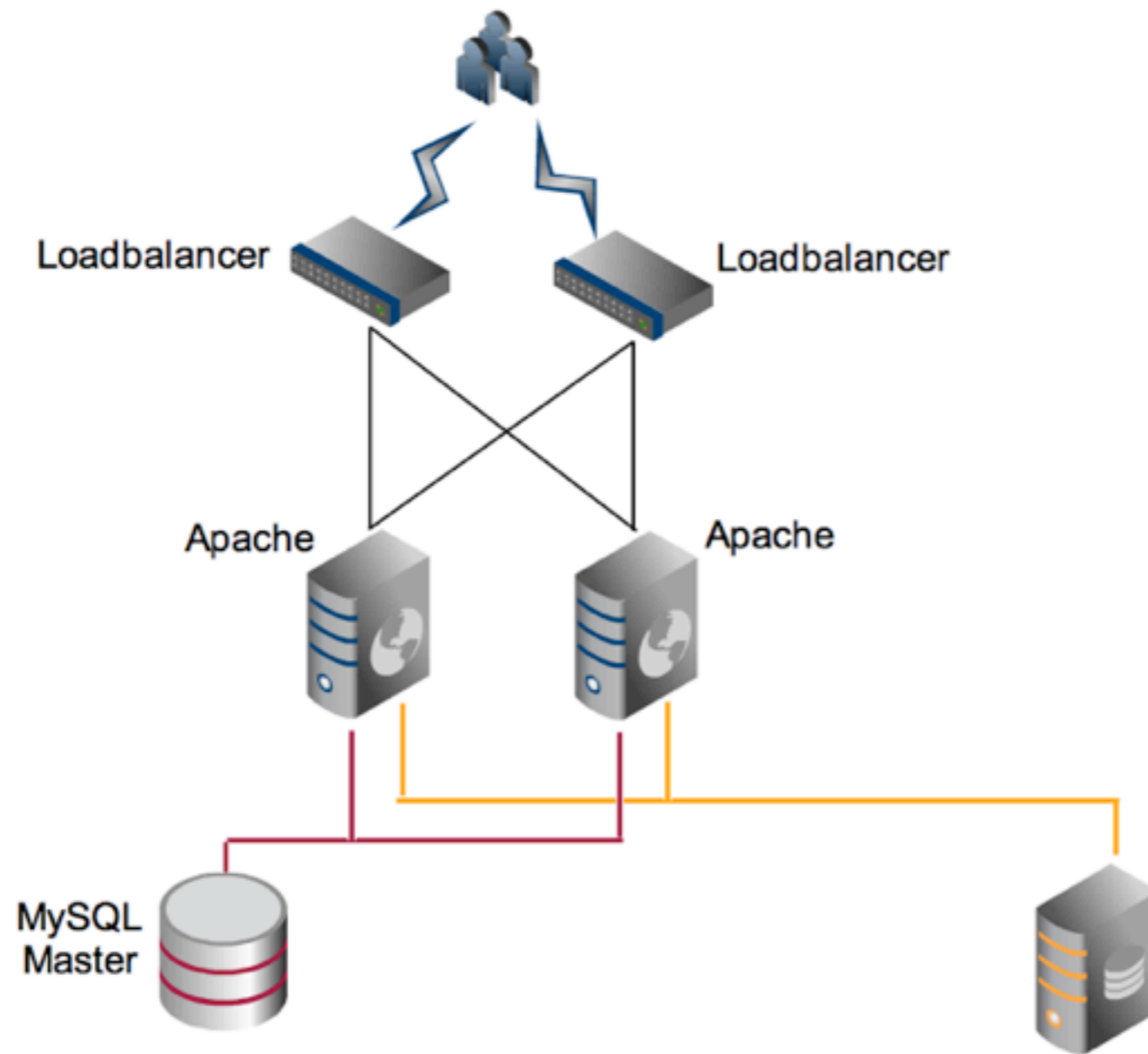
second Loadbalancer



NFS



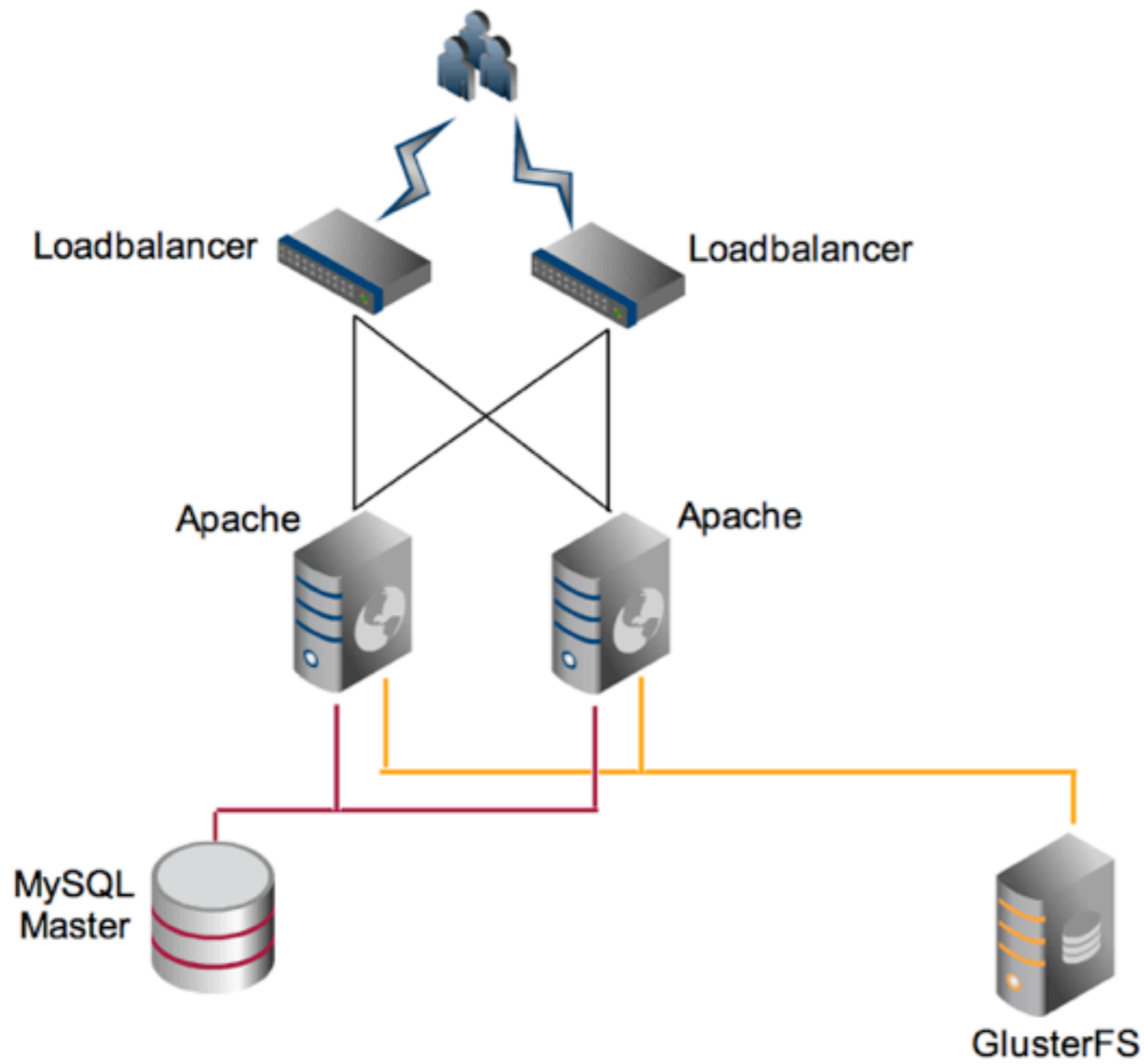
NFS



fallback?

NFS

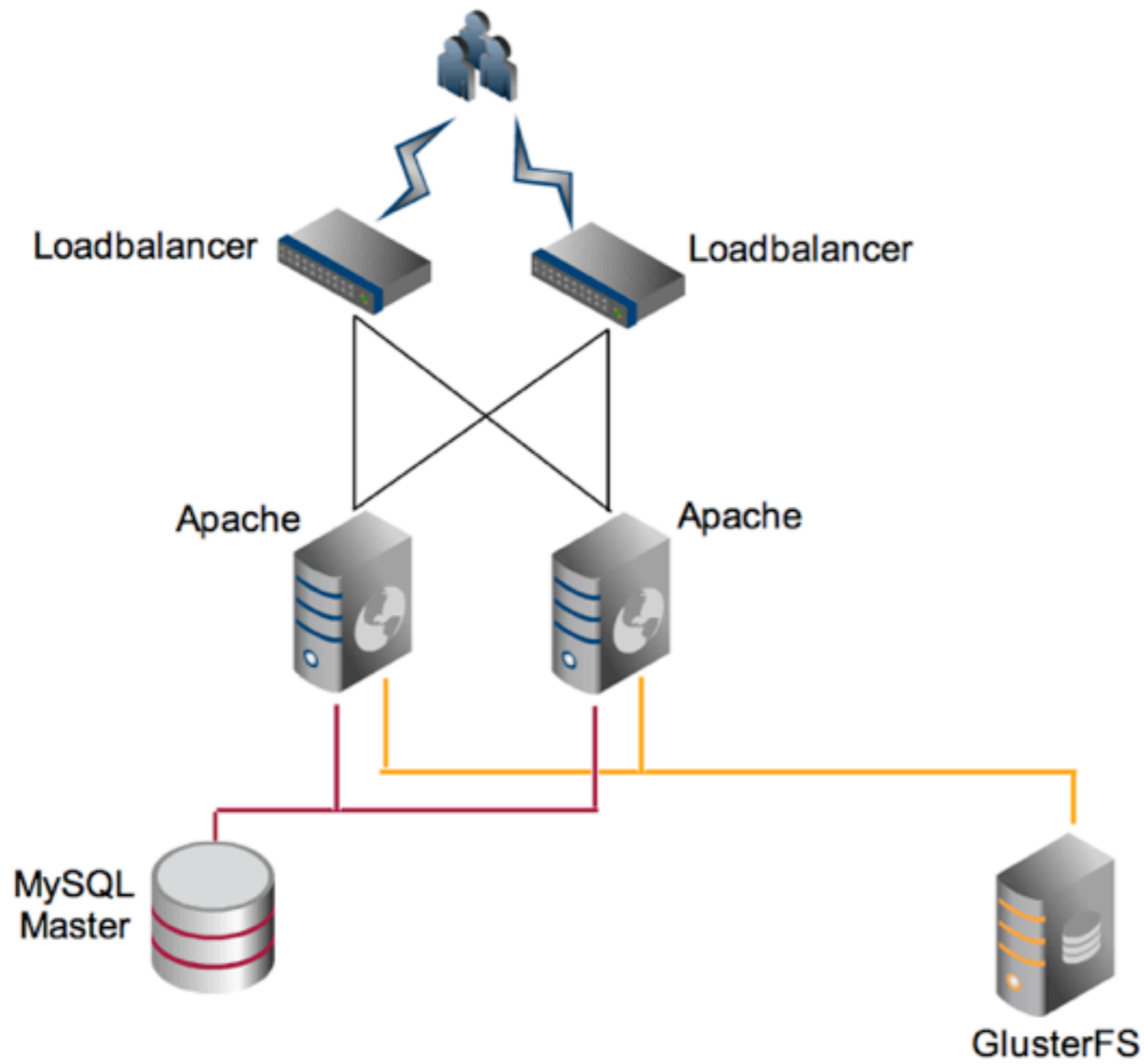
GlusterFS



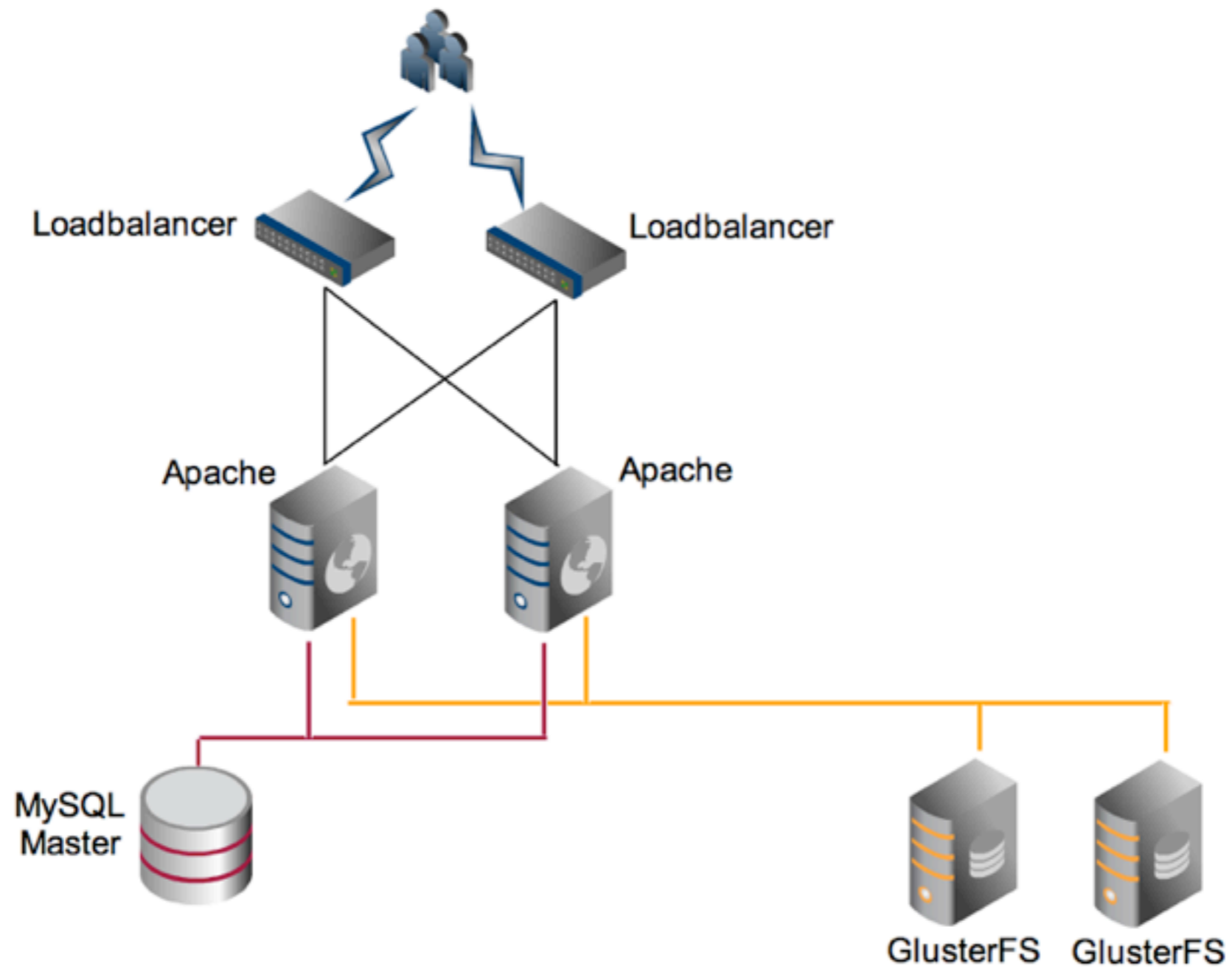
GlusterFS

- Distributed Filesystem
 - multiple Server/Clients
- auto-heal
- split-brain
- Not soo fast

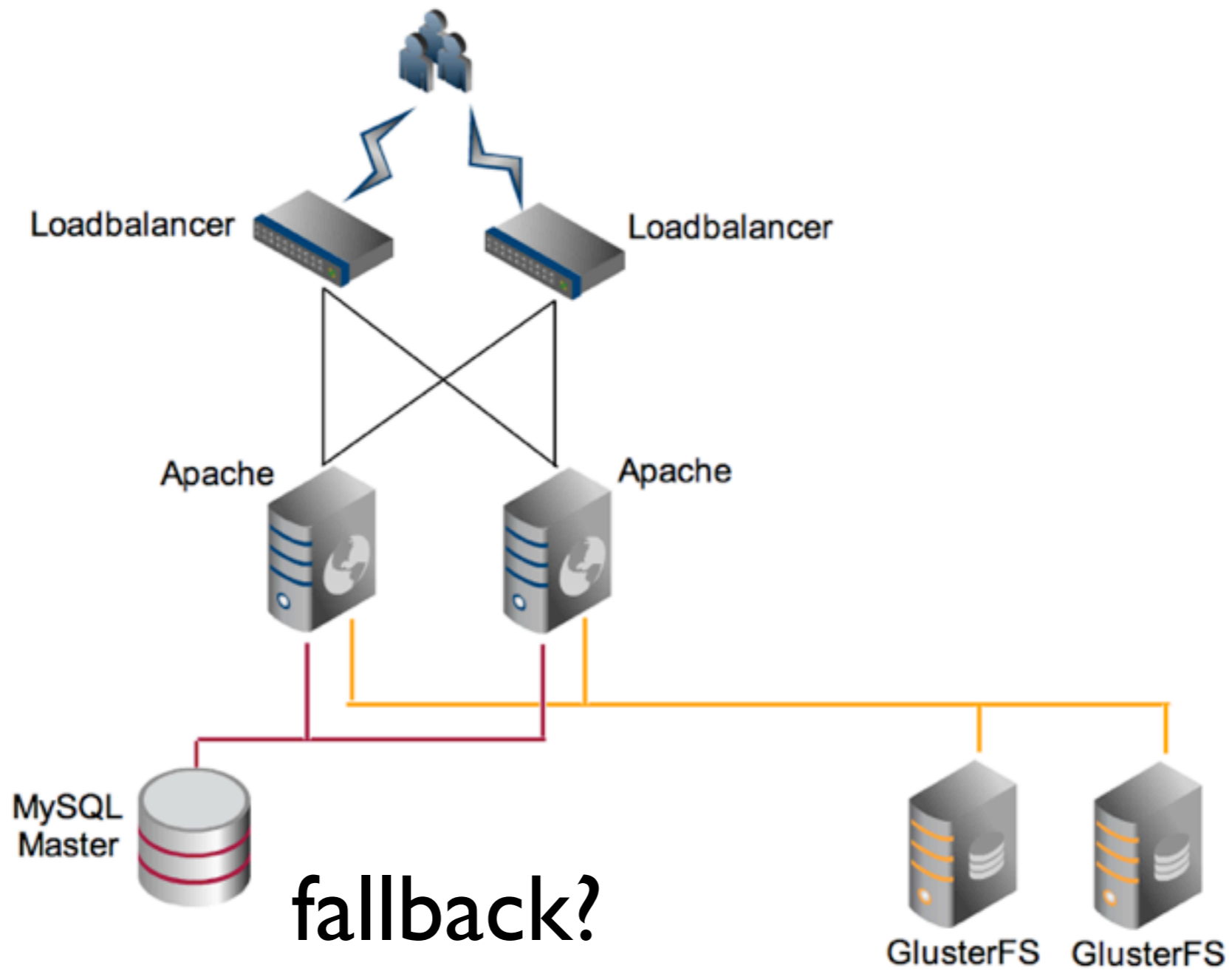
GlusterFS



second GlusterFS



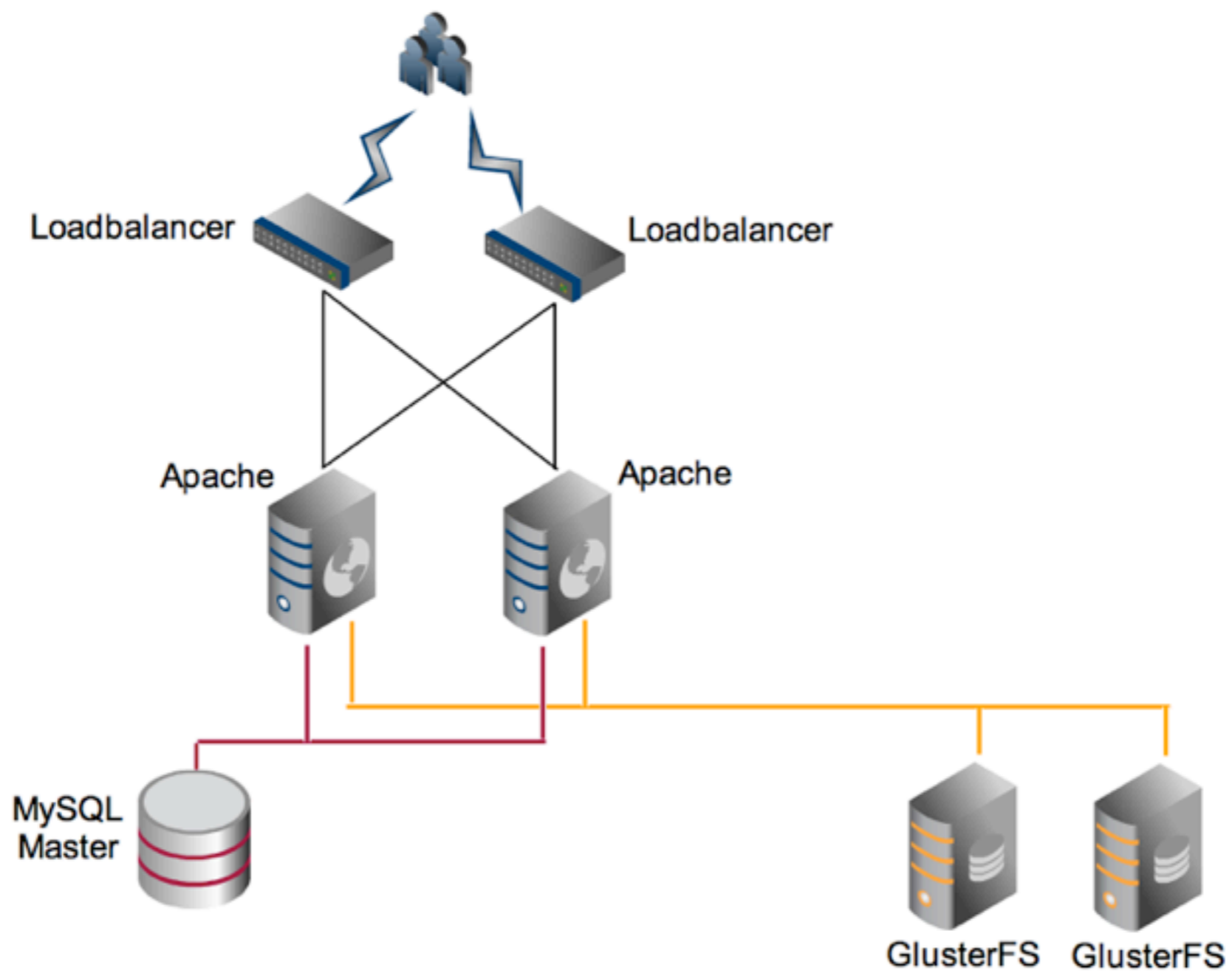
MySQL



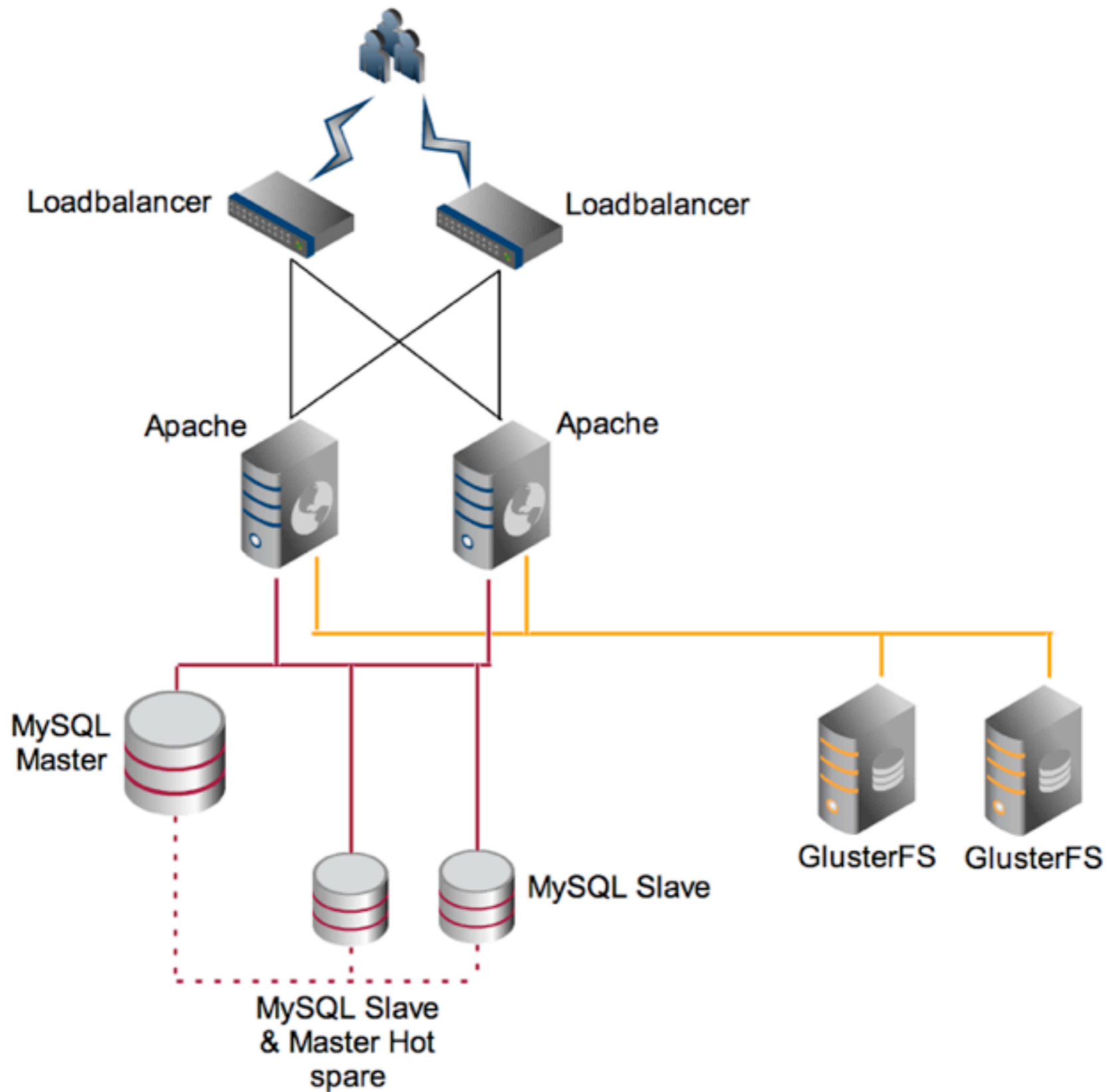
MySQL Master/Slave

- Master
 - WRITE
- Slave
 - READ
- Hot Spare
 - Slave become Master

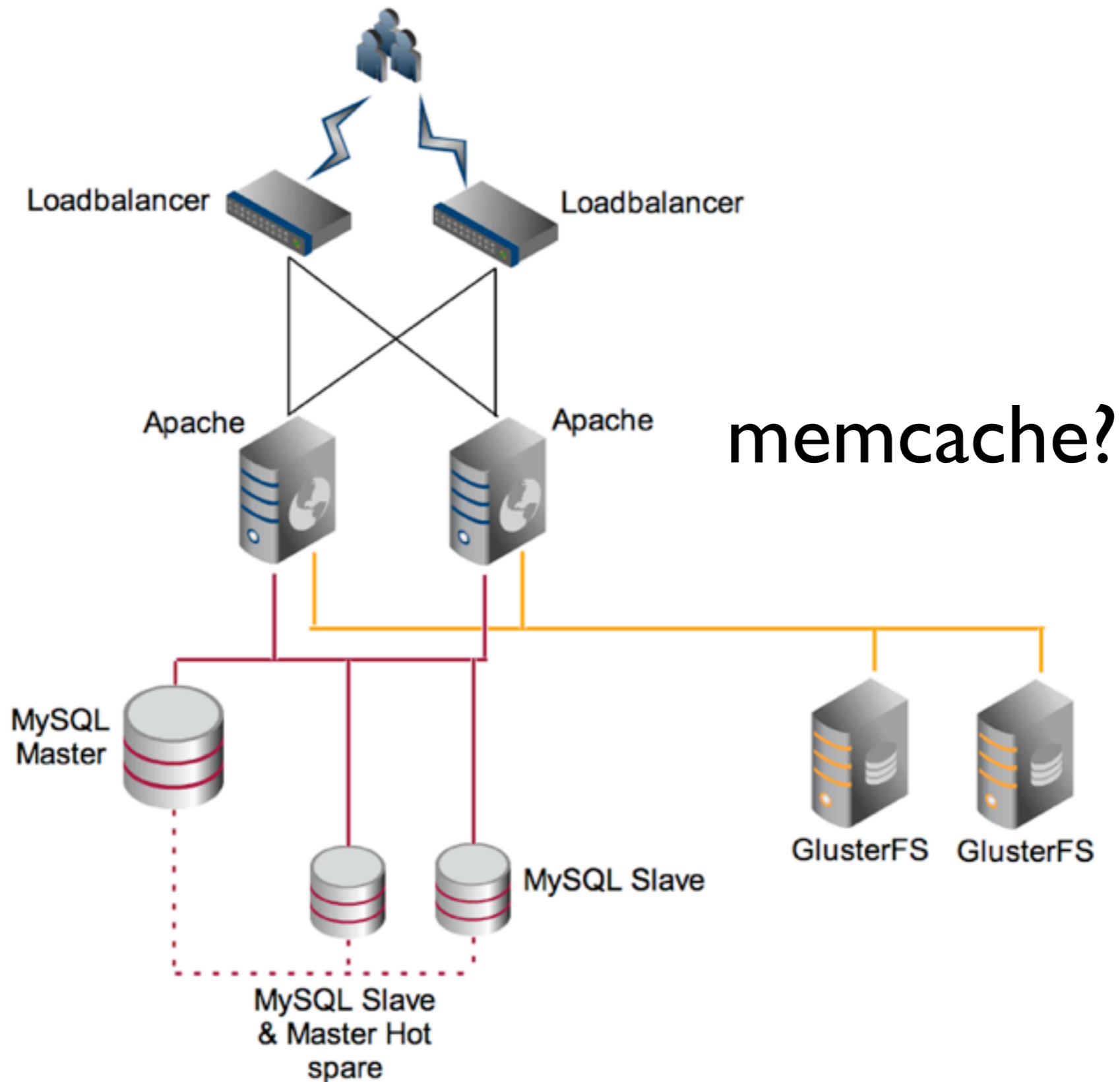
MySQL



MySQL



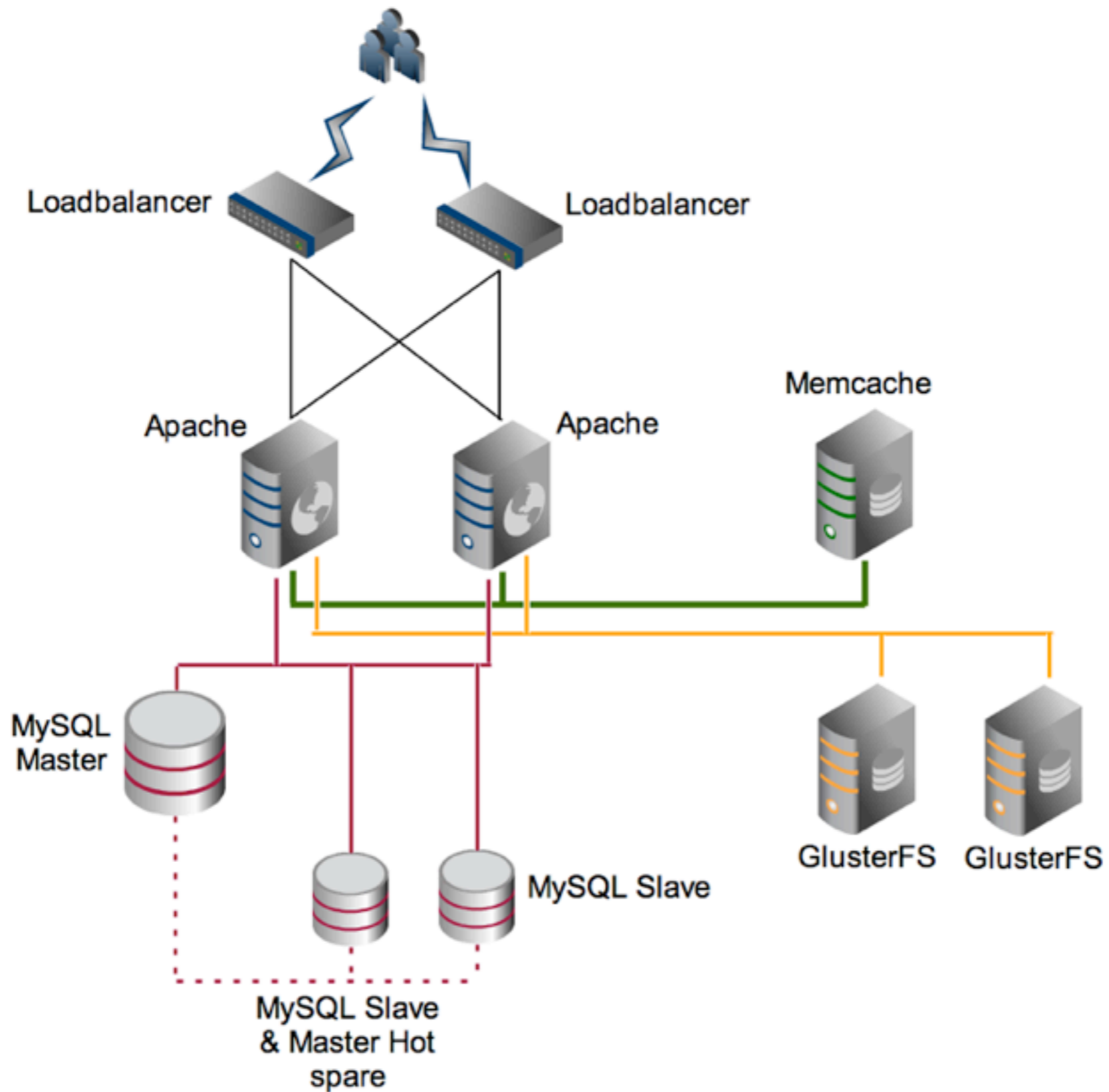
Memcache



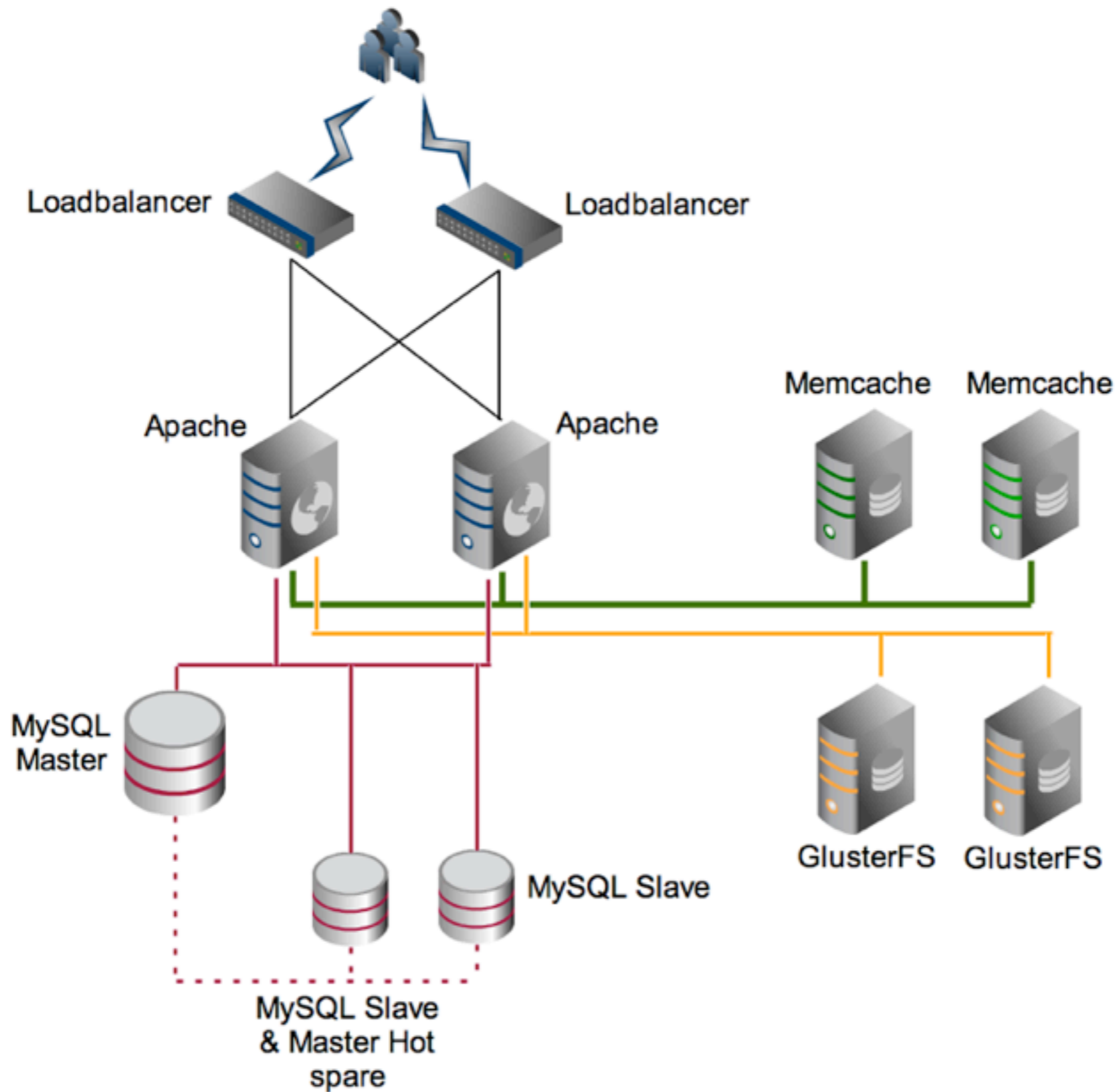
Memcache

- Replaces “_chache” tables
- Key / Value Store
- Fast
- Memory only
- own Server

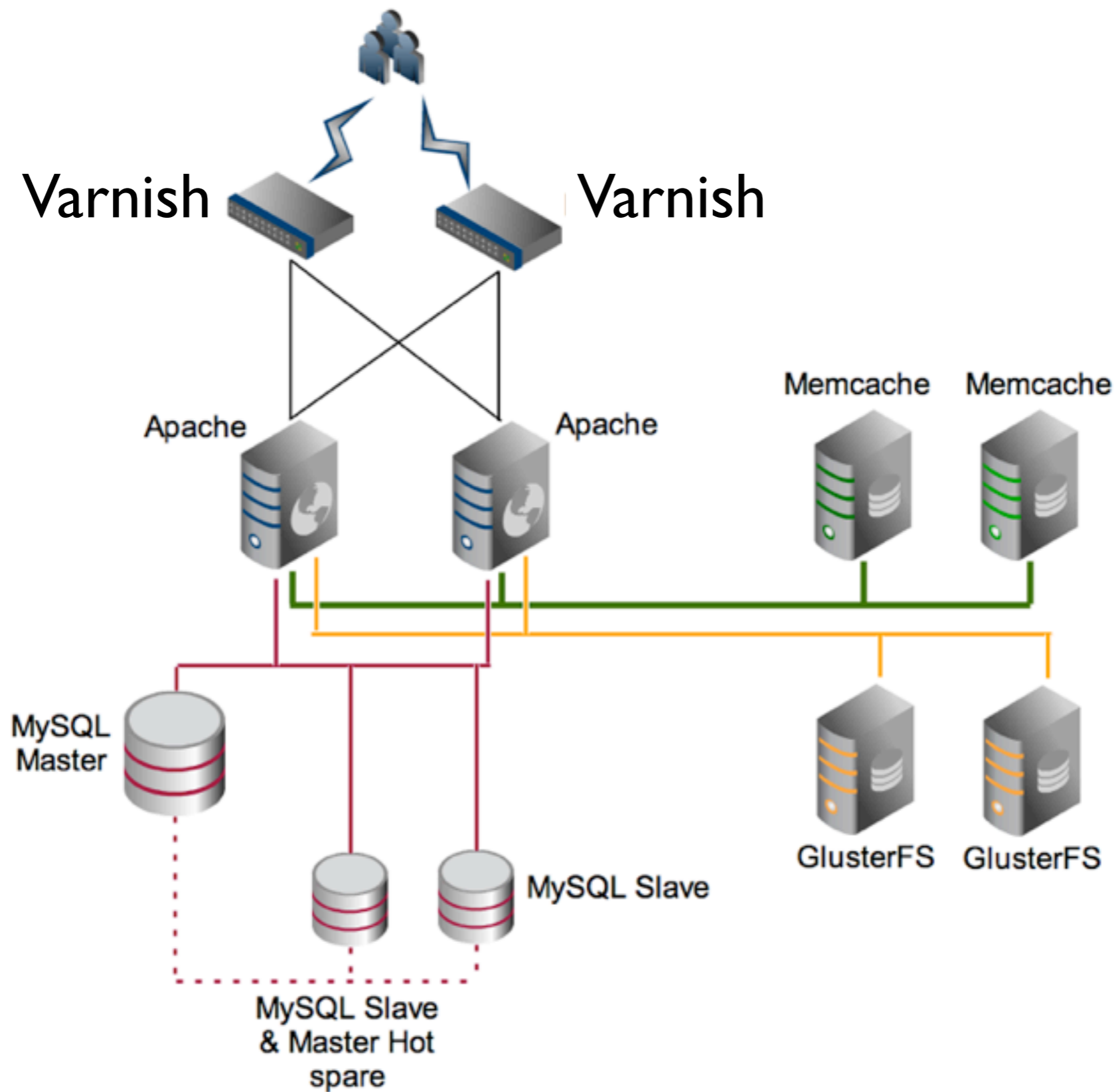
Memcache



Memcache

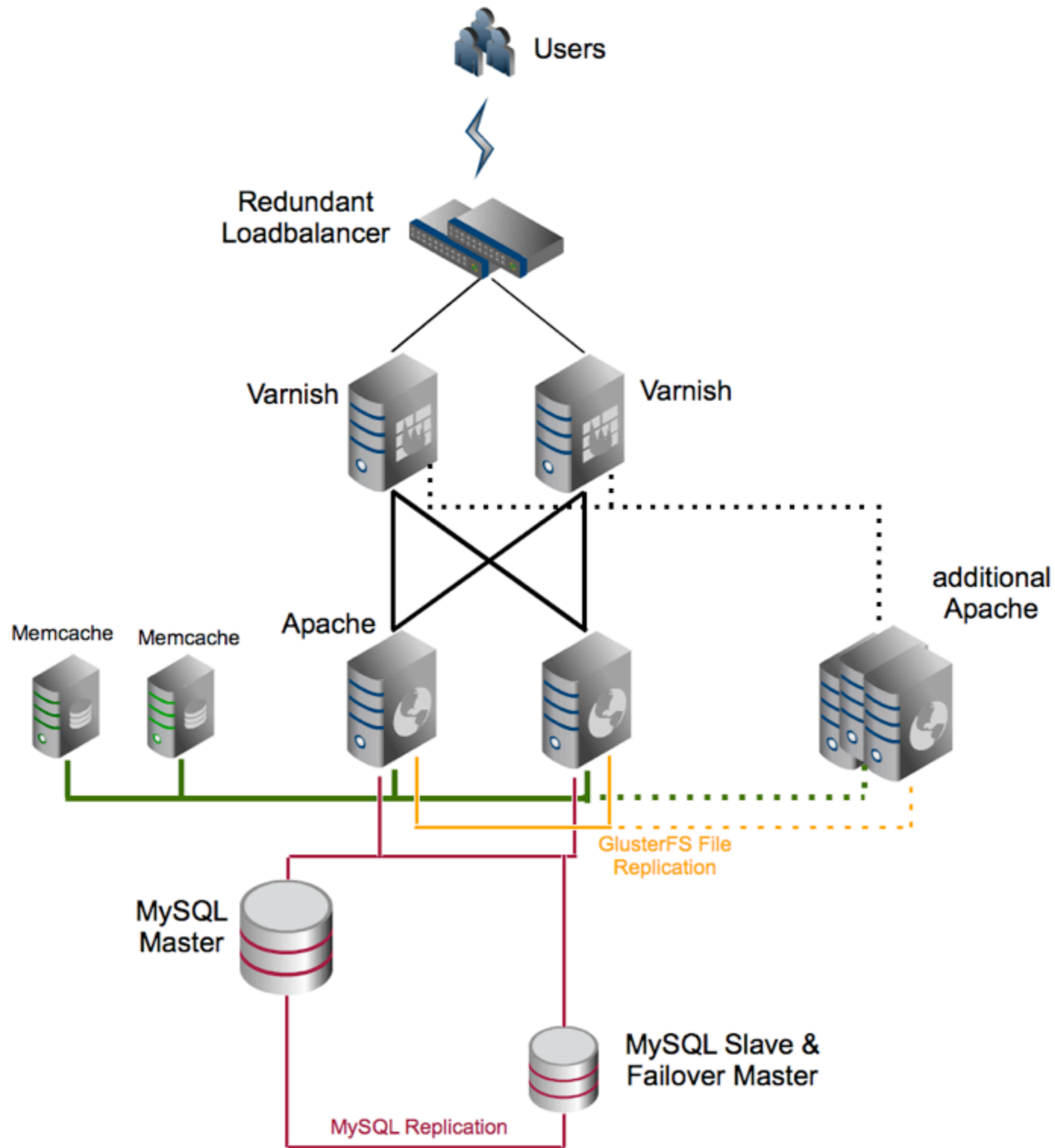


Varnish



Varnish

- Reverse Proxy
- Caches full HTML Pages
- Hates Cookies/Sessions
- No SSL
- Drupal 6
 - Pressflow
- Drupal 7 & 8
 - in Core



ESI

(Edge Side Includes)

Suchbegriff/Webcode...



SPRACHEN

ANMELDEN



LÄNDER / BRANCHEN

EXPORHELP

THEMEN

DIENSTLEISTUNGEN

KALENDER

MITGLIEDER

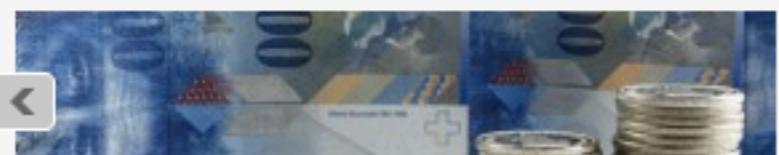
Osec-Tipp der Woche: Markt-Exit-Strategie – schon ein Konzept?



- 1
- 2
- 3
- 4
- 5



Dossier



Direkter Zugang zu Expertenwissen



Suchbegriff/Webcode...

SPRACHEN MICHAEL SCHMID



LÄNDER / BRANCHEN EXPORHELP THEMEN DIENSTLEISTUNGEN KALENDER MITGLIEDER

Osec-Tipp der Woche: Markt-Exit-Strategie – schon ein Konzept?



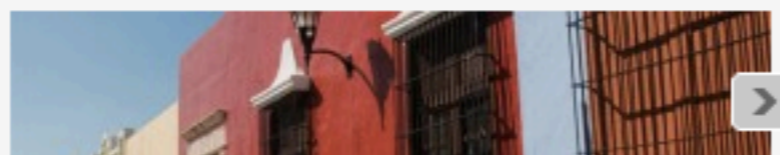
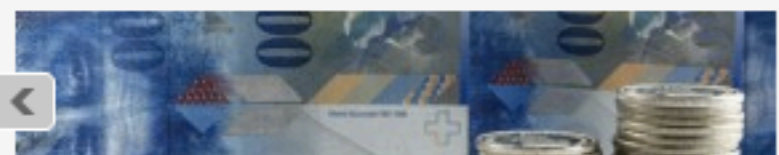
- 1 2 3 4 5



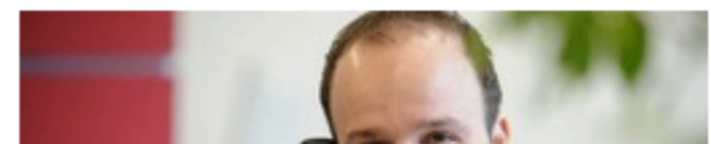
PREMIUM-PARTNER CREDIT SUISSE

HAUPT-PARTNER serv

Dossier



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Suchbegriff/Webcode...



SPRACHEN

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LÄNDER / BRANCHEN

EXPORTHELP

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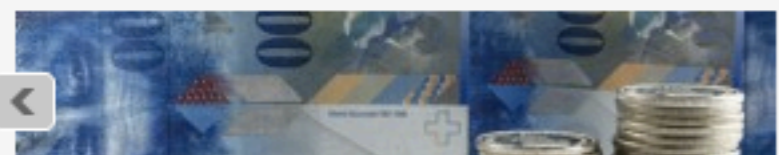
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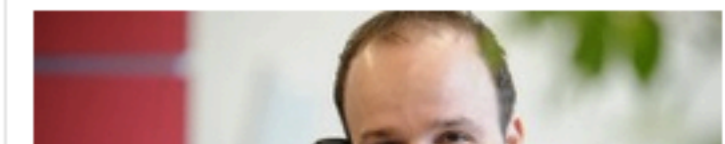
1 2 3 4 5



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ttl=1h

Suchbegriff/Webcode...

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MICHAEL SCHMID

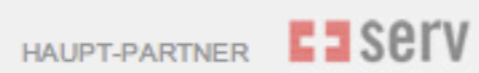
pass



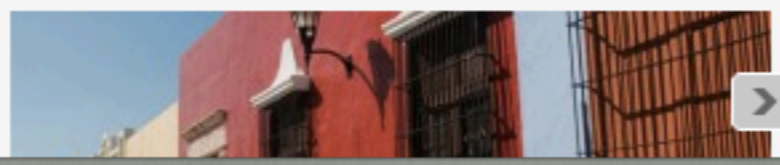
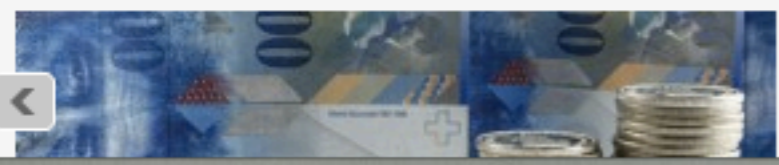
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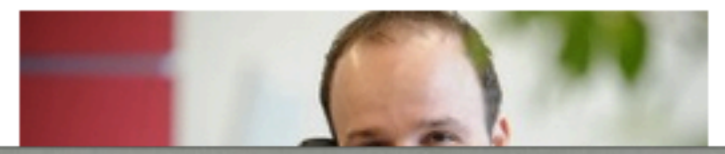
- 1 2 3 4 5



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ESI

```
<esi:include src="http://www.osec.ch/userblock" />
```

- Cache whole page, load only small parts
- Varnish / Squid / Nginx (SSI)
- Drupal Module
 - blocks, panel panes, context module



Questions?

Michael Schmid
michael@amazeelabs.com
@schnitzel