WEAPONS FOR

SLAYING

THE MONOLITHIC

MONSTER

HI!

I AM JOHN. I WORK AT **BASECAMP** (37signals,)
the world's #1 project management tool.

3TB+

production data in MySQL

1TB+

in a single MySQL instance

375GB+

in a single MySQL table

At Basecamp we consider uptime a

FEATURE.

Our uptime stats include all maintenance

DOWNTIME.

Basecamp has been up 99.988% of the time over the last 12 months.

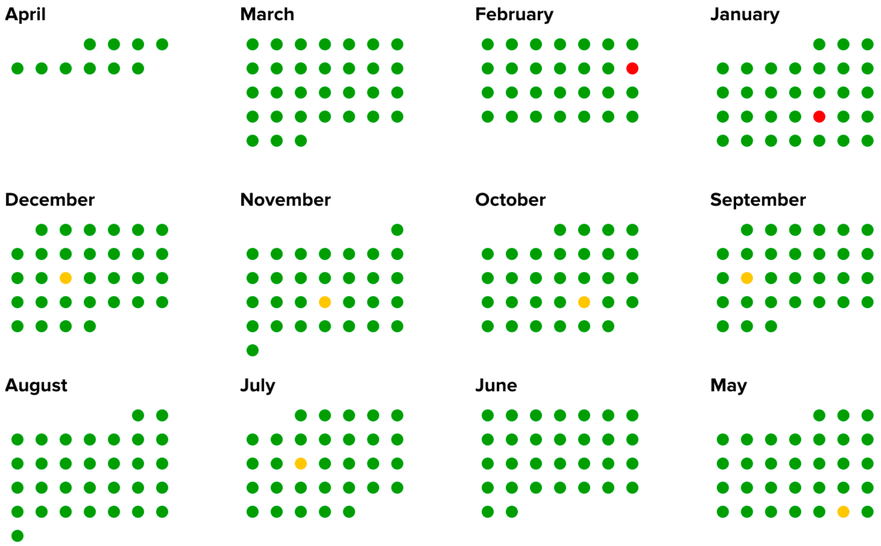
“Uptime” refers to the period of time when Basecamp is up and running. On rare occasions we must take Basecamp offline for maintenance, or an unexpected problem might occur that would take Basecamp offline. We work hard to limit these interruptions. Our goal is 100% uptime.

Meet the ops team.

We have a team of 7 people dedicated to improving the reliability, performance, and speed of Basecamp. They’re the unsung heros — the folks behind the scenes that keep everything running smoothly.

Basecamp’s daily uptime over the last 12 months.

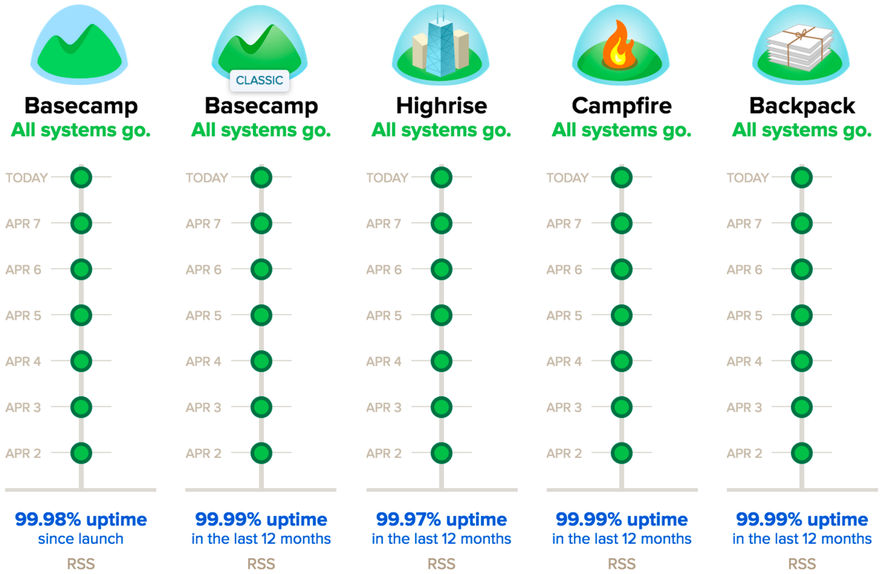
● 24 hours uptime ● Less than 10 minutes down ● More than 10 minutes down



All systems go.

Everything looks good on this end. All apps are behaving themselves nicely!

Follow us on Twitter for status updates. Need help? Visit basecamp.com/help.



We had a

DILEMMA.

How do you swap to a replica while maintaining

UPTIME?

Historically a promoting a replica to primary would take

15+ MINUTES

of downtime and consisted of

20+ STEPS.

All you need is

TWO

tools and

SIX

seconds.

Mysql Role Swap

PROMOTES

a replica in seconds, while **Intermission**

PAUSES

traffic in Nginx.

How does **MySQL Role Swap**

WORK? (IT'S JUST RUBY!)

1. Pause via **Intermission**
2. Remove Floating IP from primary
3. Set Read-only on primary
4. Verify Binlog
5. Add Floating IP to new primary
6. Disable replication and enable writes on new primary.
7. Unpause via **Intermission.**
8. Enable replication.

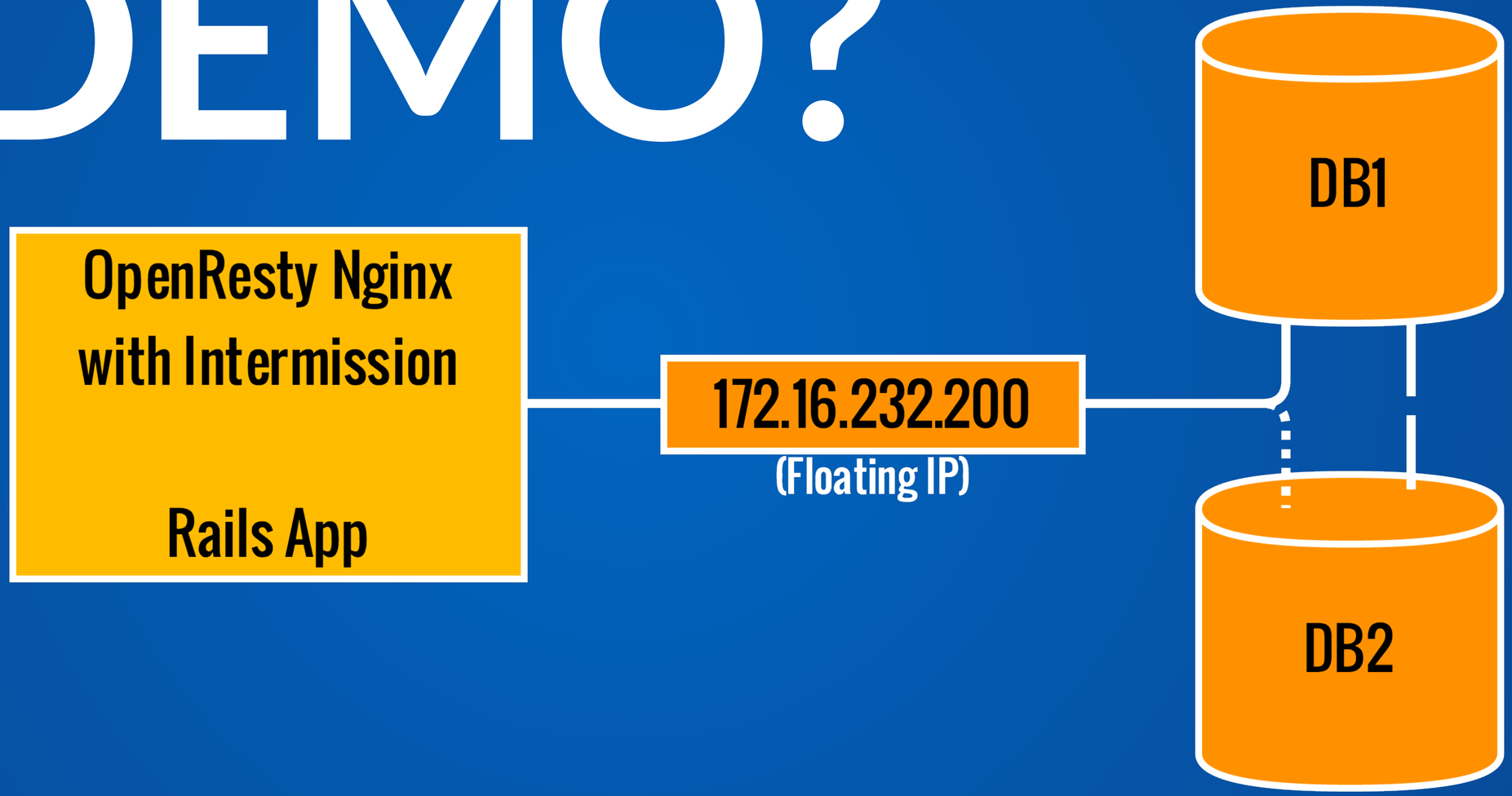
How does **Intermission**

WORK?

- Written in Lua.
- Uses OpenResty Nginx.
- HTTP interface with 3 endpoints:
  - enable
  - disable
  - status

Wanna see a

DEMO?



QUESTIONS?

Twitter: @j_m_williams
MySQL Role Swap Github: github.com/basecamp/mysql_role_swap
Intermission Github: github.com/basecamp/intermission