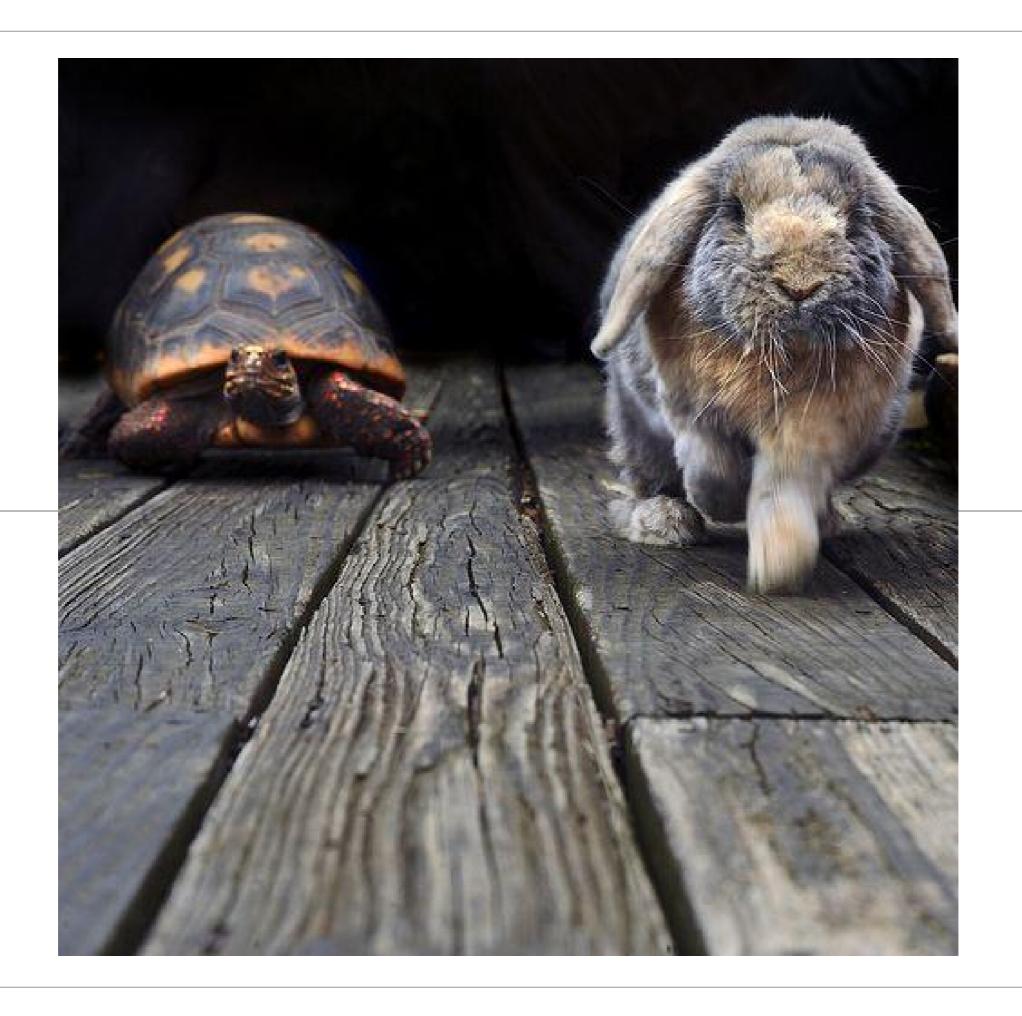
# Tortoise vs the hare

High performance WordPress hosting on the cheap



# My original setup

- Slow internet connection
- Multiple Hostgator shared accounts
  - Cost ~US\$9 / month each
  - Got kicked off service



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\*

## An upgrade ...

- Fully managed VPS
  - 。1 GB RAM
  - Immediate speed boost
  - Hardware failure
  - Failed backup





## Move to Norway





## Move to Norway

Depressing to visit my own site ...

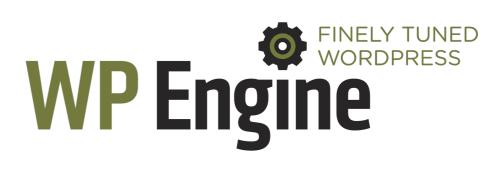
overall PageSpeed Score of **78** (out of 100).



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#### Solution?

Managed WordPress host?

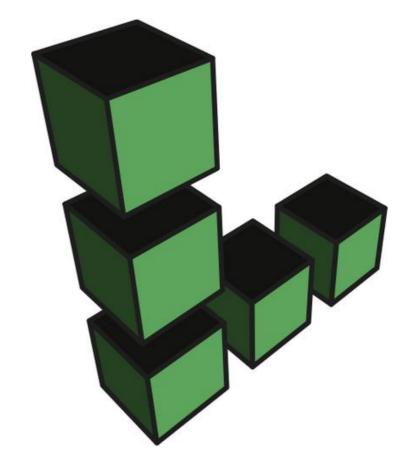




## Unmanaged VPS

- Tried to setup
- Failed
- Tried again
- Tried again
- Gave up :(

Solution?

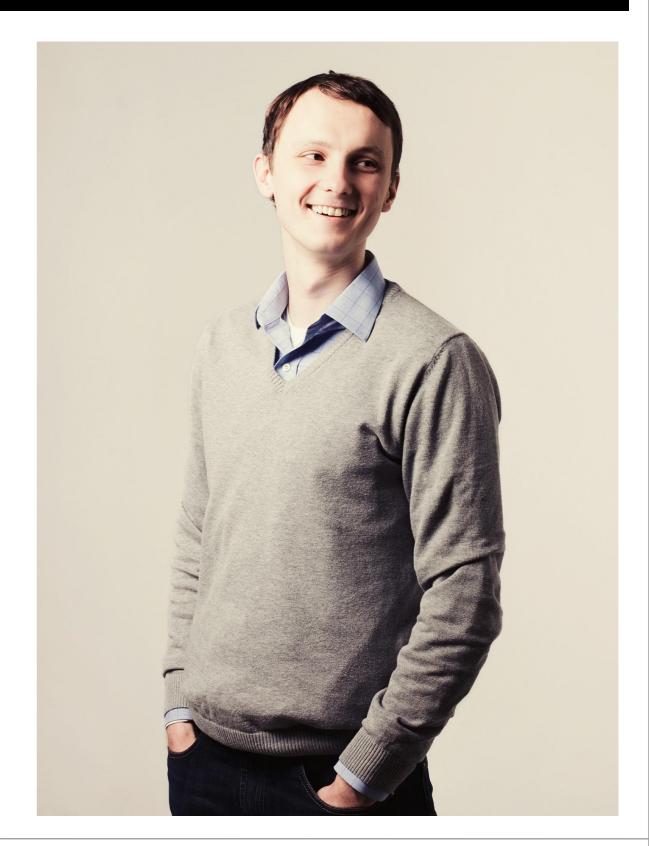




## Stubbornness

• Hire expert :)

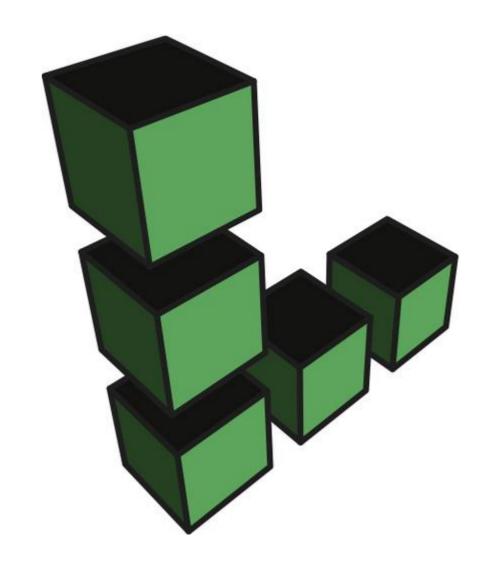
• Learn from expert :)



## Back to Linode:)

- . US\$20/month
- Half the RAM of old server

- Minimal setup
  - 。 **NGINX**
  - 。PHP
  - Fast-cgi or PHP-FPM?
  - 。 APC



#### APC and Batcache

Avoid bloated caching plugins

- Batcache plugin
  - 。Lean, mean
- APC plugin
- Hacking advanced-cache.php
  - Mobile support



#### CDN

- Content Delivery Network
- Ideal for static files



- Used custom plugin
- Alternatively ... WP Stack by Mark Jaquith

\*

#### Result

100/100 possible?

#### overall PageSpeed Score of 98 (out of 100).



# Varnish caching?



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#### blitz.io

 Load testing service http://blitz.io/

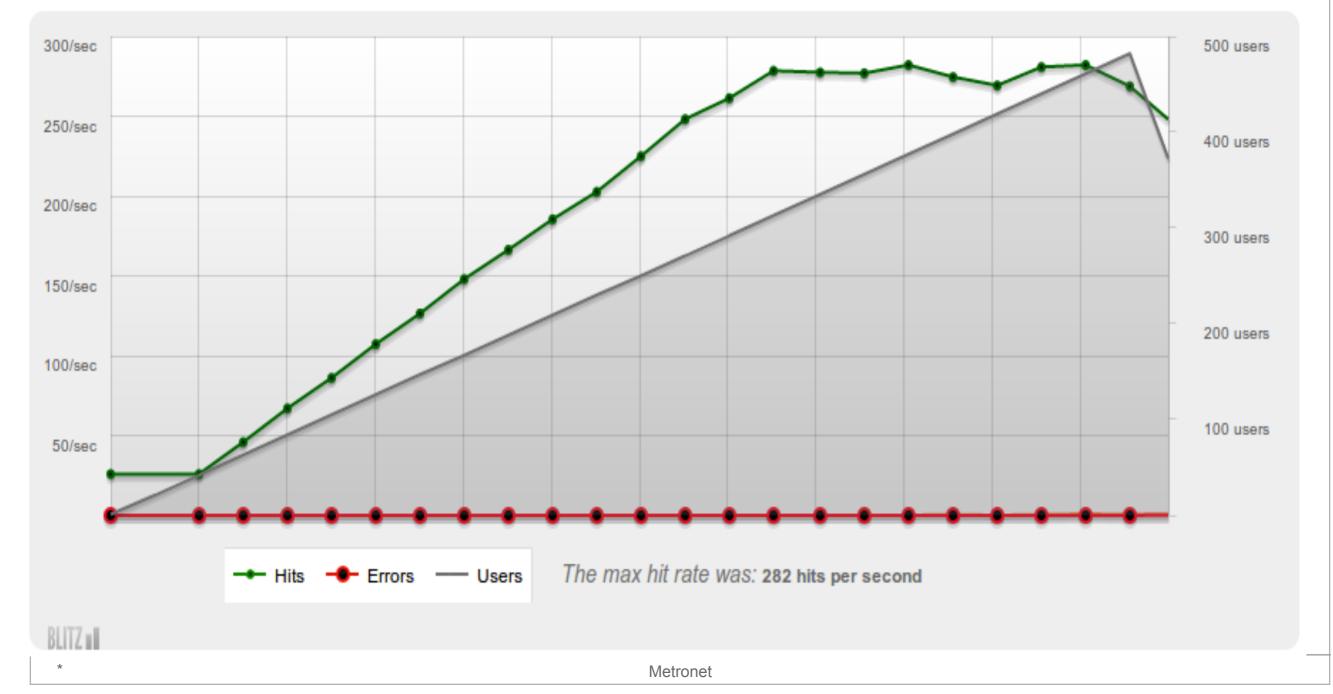
Test with 50,000 concurrent users



#### How much traffic?

ryanhellyer.net: ~270 page views per second, max load time = 700

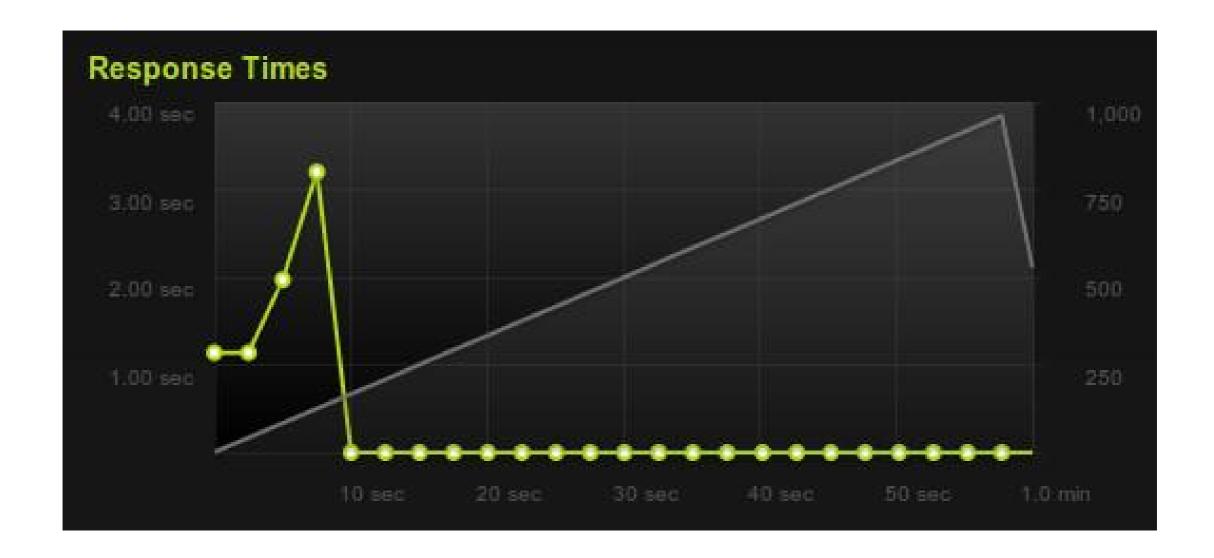
#### HIT RATE



## Old and new comparison

Old: **29** page views **per minute** (server locked up under initial load)

New: 270 page views per second



#### Will Varnish allow more traffic?

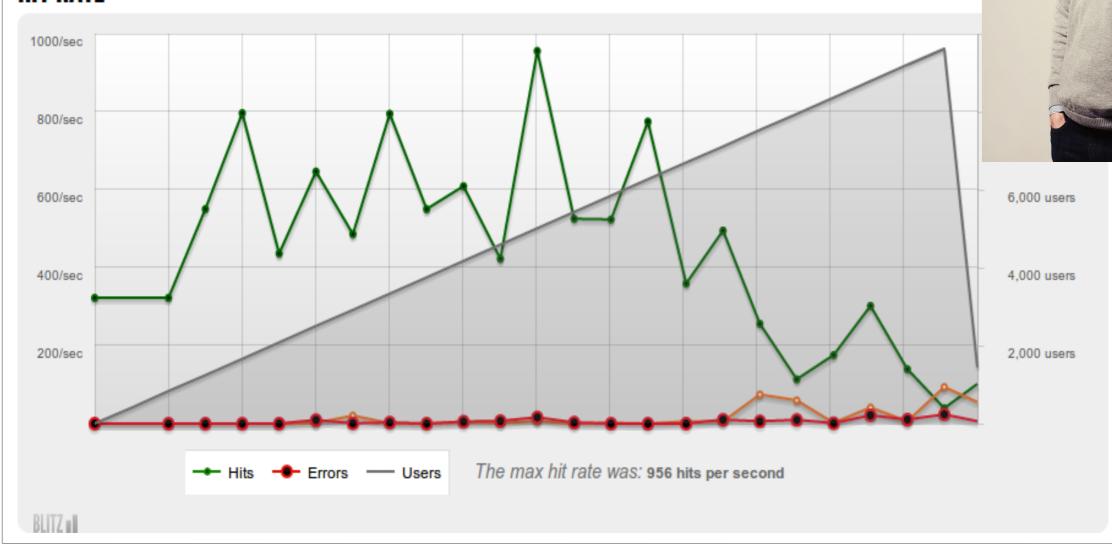
- Bandwidth at 282 page views per second = ~54 Mbps
- Maximum bandwidth on Linode tested =  $\sim$ 60 Mbps max.
- Varnish would offer little increase in capacity
- Potential decrease in load time

\*

#### Lean HTML?

konstruktors.com = ~700 page views per second

#### HIT RATE



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#### MOAARR power!!!



# Already using the solution!

 Pointing your primary domain at cloudfront will not work



- wp-admin will fail
- 。 comments will fail



## How to avoid breaking site

Seperate front and back domains



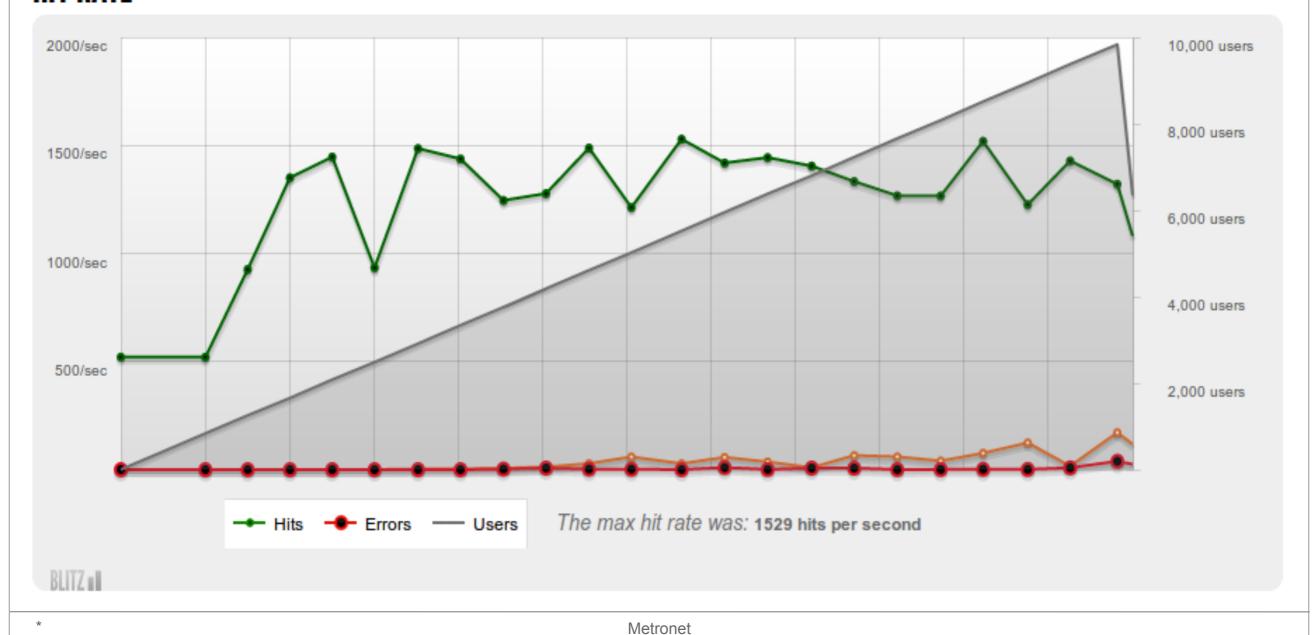
 http://cloudfront.ryanhellyer.net/ http://clouddemo.ryanhellyer.net/

\*

#### Performance?

1500 page views per second Initial page loads within 6 ms!!!!

#### HIT RATE



#### Comments?

- Set low Cloudfront expiry time
- Submit comments form to other domain
  - Redirect user back to same page, with query var

Disquis



## Advantages to Cloudfront

- Crazy fast load times ... 6 ms
- Serves files from edge location
- Massive capacity
- Extremely cost-effective



## Ultimate test?

Botnet attack

Mission accomplished

