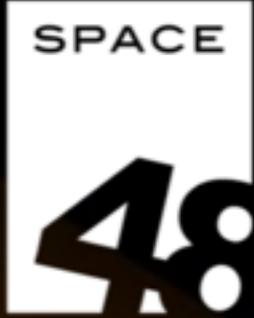




Welcome to Mage Titans Italy 2017



Monitoring your cache effectiveness in Magento 2



Technical Director at Space 48
@tonegolf71



TONY BROWN

Monitoring your cache effectiveness in Magento 2



Worked on Magento since 1.2
Technical Director @ Space 48
Love learning and collaborating

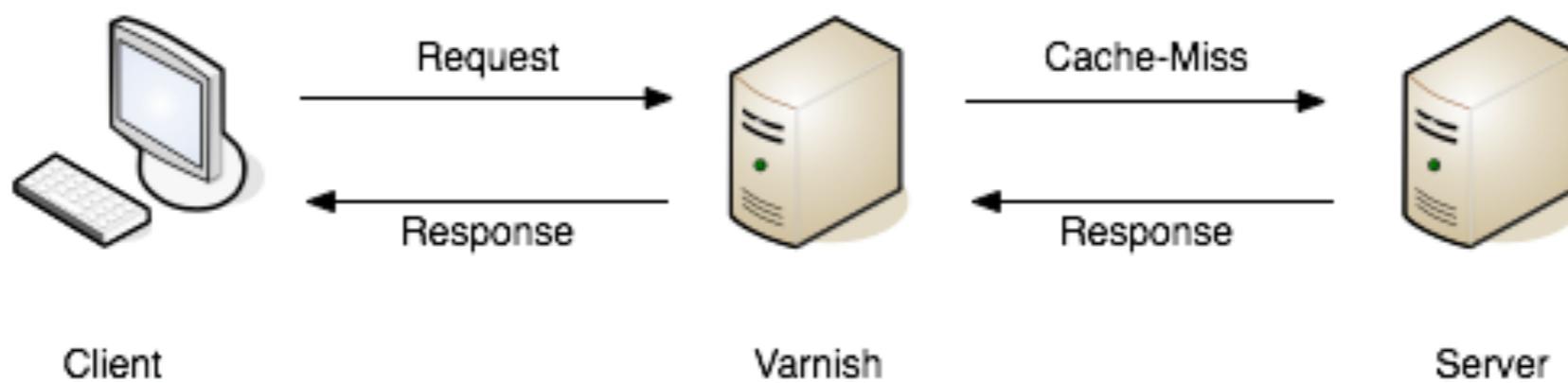
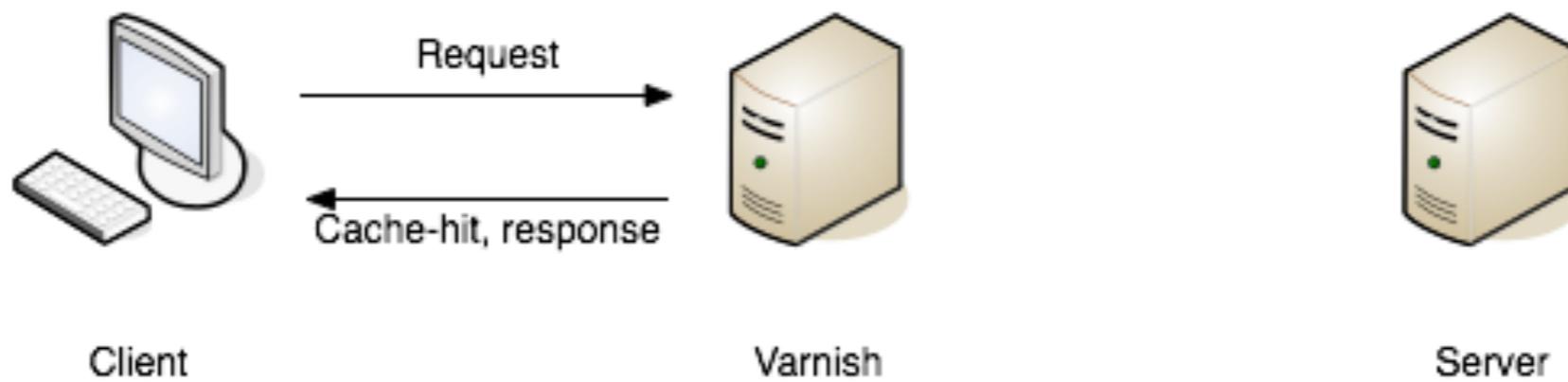


Remember...

**FPC is not an excuse to have
slow PHP / Magento code**

M2 FPC

Varnish



Advantages over Core M1 FPC

- Natively faster with Varnish
- Now in CE and EE
- Building to work with one FPC
- Core improvements benefit everyone

Optimal FPC Performance

- Reduce requests reaching the full app to a minimum
- Only invalidate data when absolutely necessary and keep impact of invalidation to a minimum

In Other Words...

**More HITS
less MISSES**

The challenge is how..

M2 FPC

- Varnish config file and M2 modules
- Tag support
- Method for handling private data on a page
- Method for independently cacheable elements

Why is FPC effectiveness important?

Why is FPC effectiveness important?

- Bad performance hurts conversion!!!

How do we know?

- Varnish command-line tools
 - varnishstat
 - varnishtop
 - varnishlog

How can we easily monitor FPC effectiveness?

Magento 1 Module

@maxpchadwick

<http://maxchadwick.xyz>

Something Digital

Nomad Mage:

<https://goo.gl/3KnTO0>



Mpchadwick_PageCacheHitRate :

<https://goo.gl/oWJZ0w>

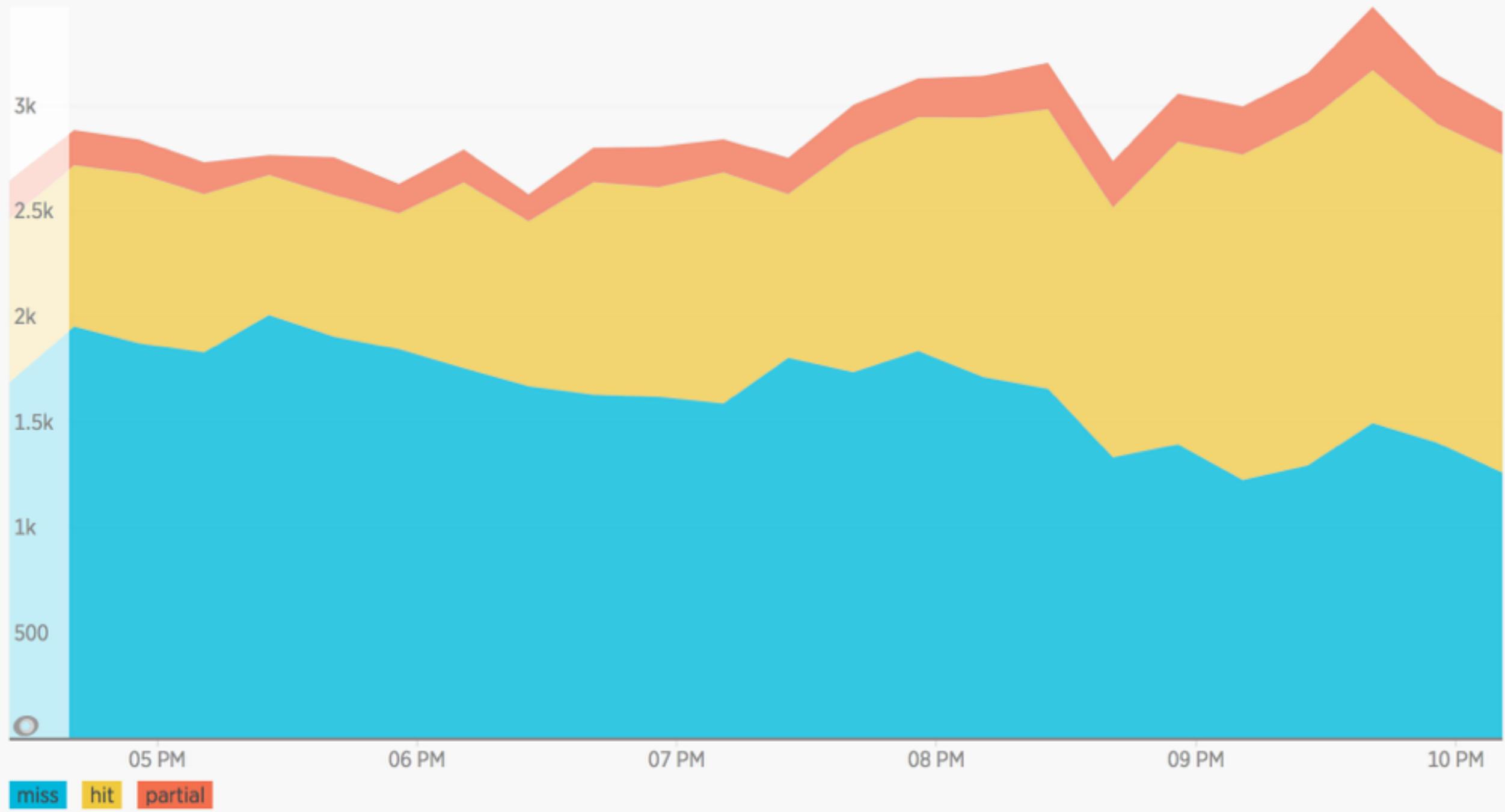
M1 Module: Log Data

- time
- url
- hit, miss (*or partial*)
- route
- *plus more*

FPC Efficiency (cacheable only)

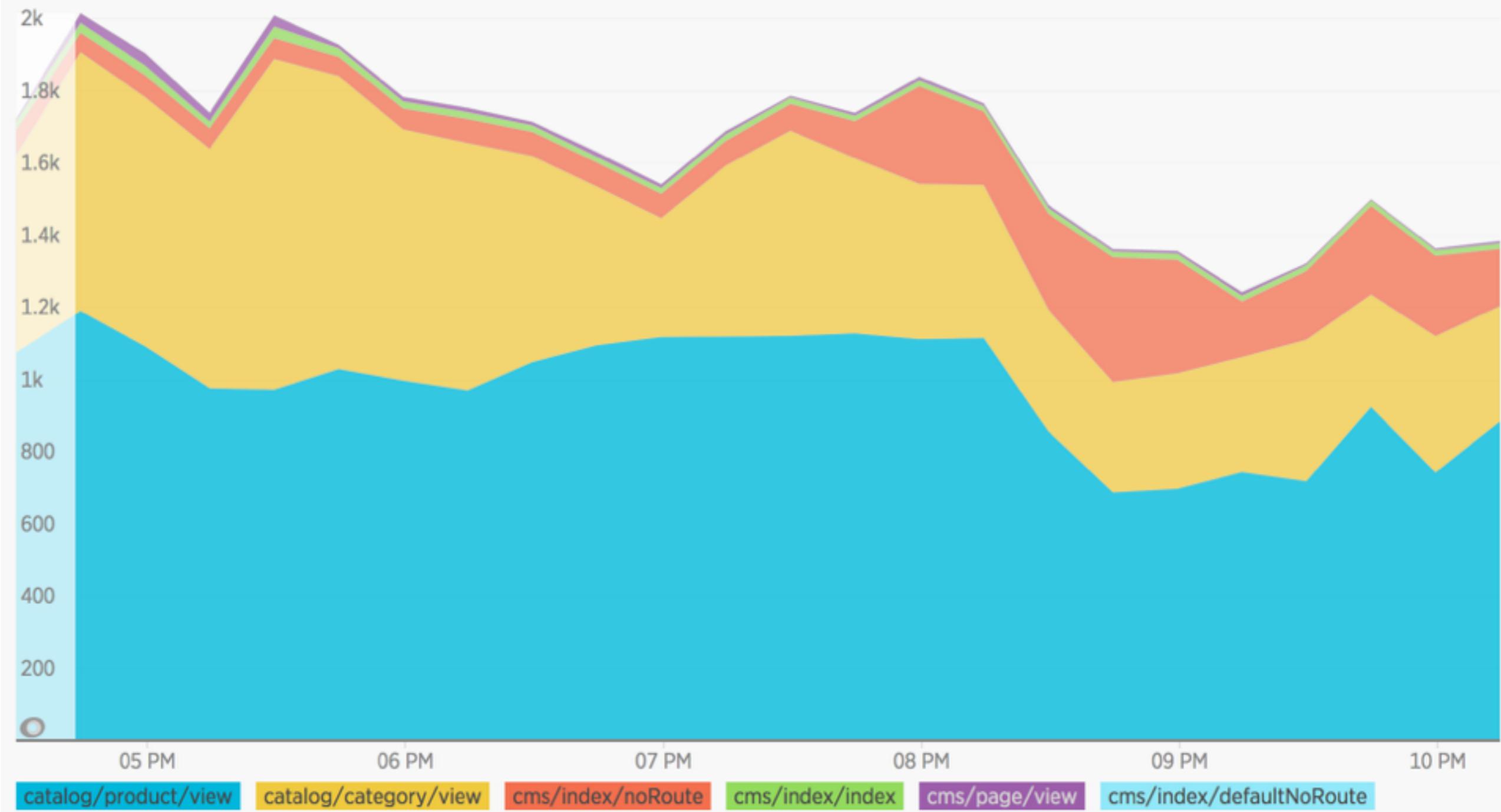
X

Since 6 hours ago



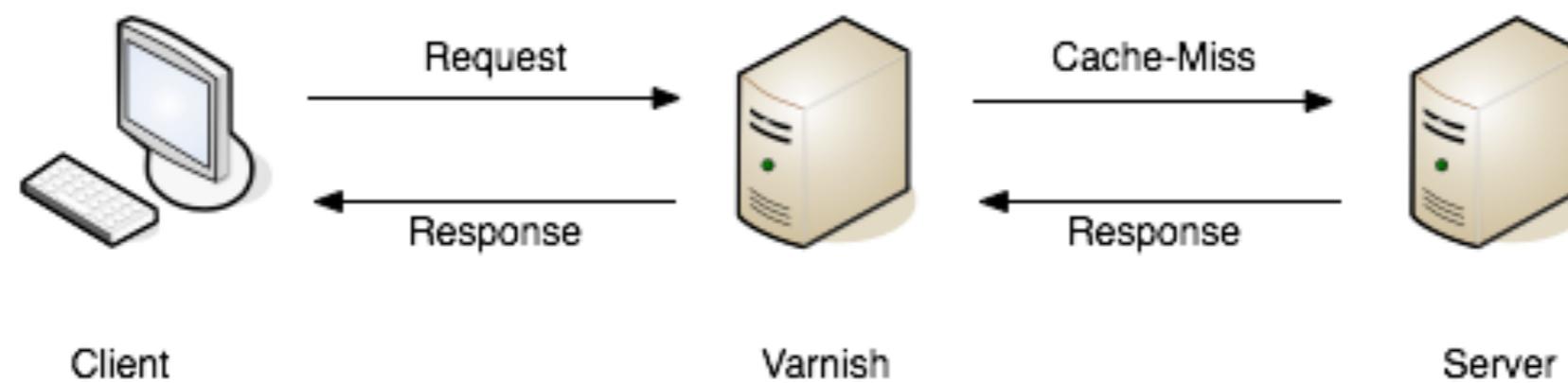
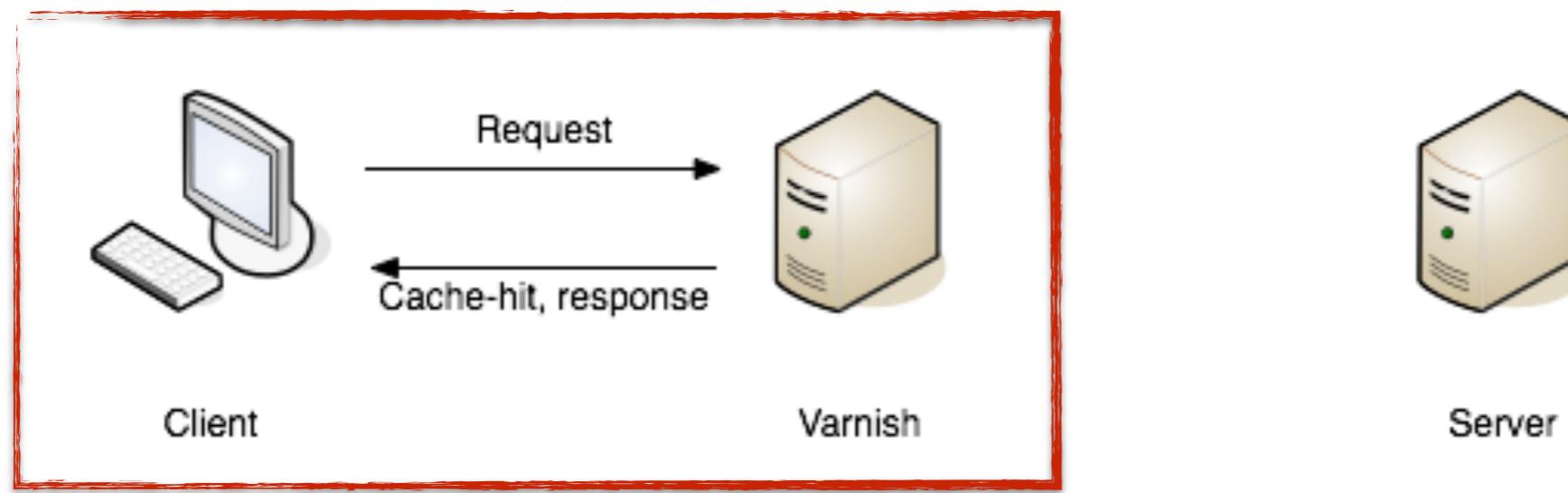
Misses per route (cacheable)

Since 6 hours ago



Can we use the same approach?

In Short... No



But we can do something
similar

M2 FPC monitoring

- varnishncsa
- Display Varnish logs in Apache / NCSA combined log format
- Format can be customised
- Can include Varnish extended variables

M2 FPC monitoring

```
varnishncsa -F "%t %{Varnish:hitmiss}x %r"
```

- time
- hit, miss
- url

Two Challenges

- We will get data for all requests including static assets
- We are missing the route of the Magento Controller

Add the route as a header

```
if ($this->isCacheable()) {  
    $this->_response->setHeader(  
        'X-Magento-Full-Action-Name',  
        $request->getFullActionName()  
    );  
}
```

X-Magento-Full-Action-Name | cms_index_index

```
sub vcl_deliver {
    if (resp.http.X-Magento-Debug) {
        if (resp.http.x-varnish ~ " ") {
            set resp.http.X-Magento-Cache-Debug = "HIT";
        } else {
            set resp.http.X-Magento-Cache-Debug = "MISS";
        }
    } else {
        unset resp.http.Age;
    }

    unset resp.http.X-Magento-Full-Action-Name;
    unset resp.http.X-Magento-Debug;
    unset resp.http.X-Magento-Tags;
    unset resp.http.X-Powered-By;
    unset resp.http.Server;
    unset resp.http.X-Varnish;
    unset resp.http.Via;
    unset resp.http.Link;
}
```

M2 FPC monitoring

```
varnishncsa -F "%t %{Varnish:hitmiss}x %{X-Magento-Full-Action-Name}o %r"  
-q 'RespHeader ~ "X-Magento-Full-Action-Name:'''
```

- time
- hit, miss
- route
- url

Add the route as a header

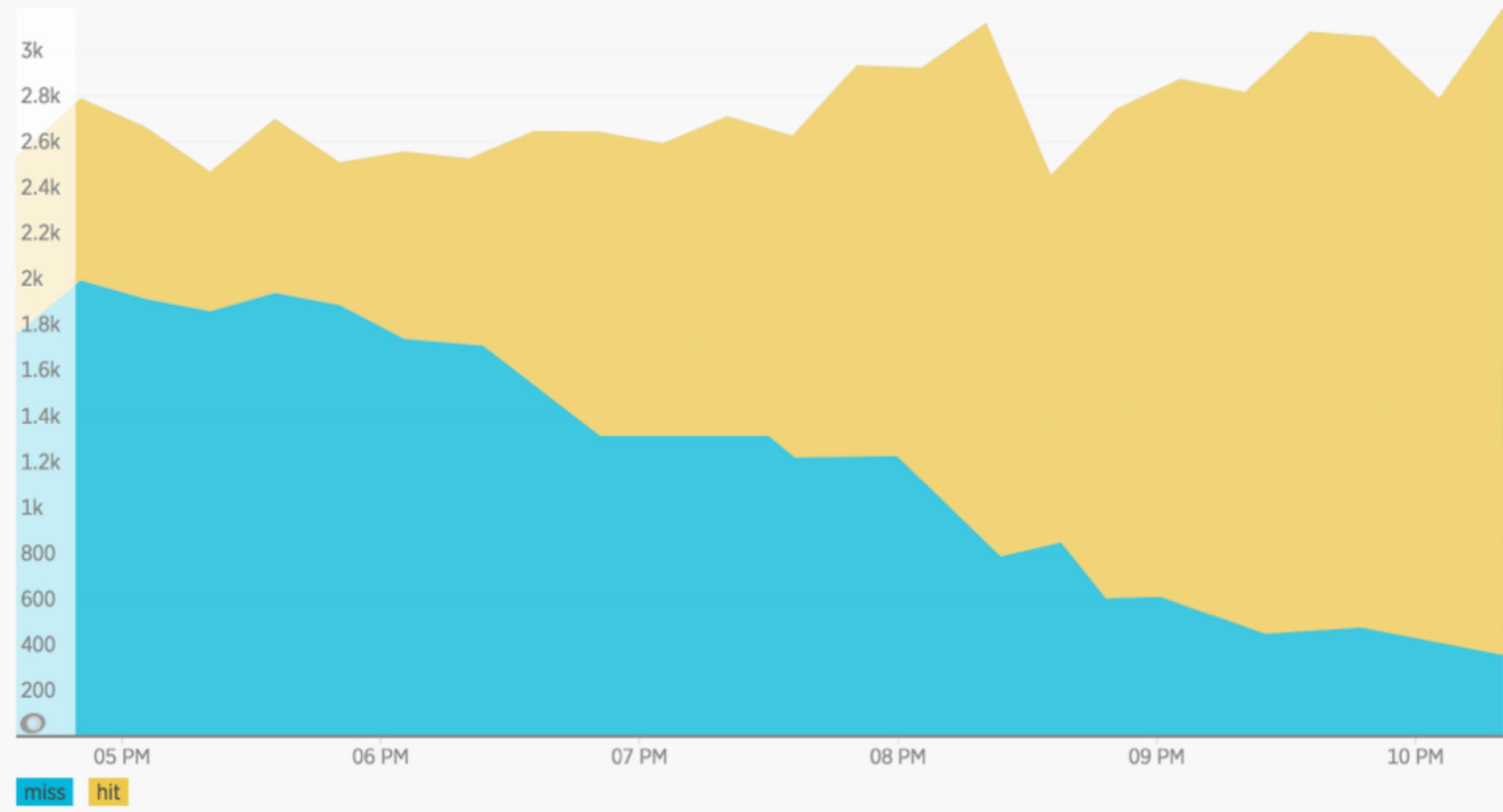
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```

X-Magento-Full-Action-Name | cms_index_index

FPC Efficiency

Since 6 hours ago

X



@Tonegolf71
@Space48ers
#MageTitansIT

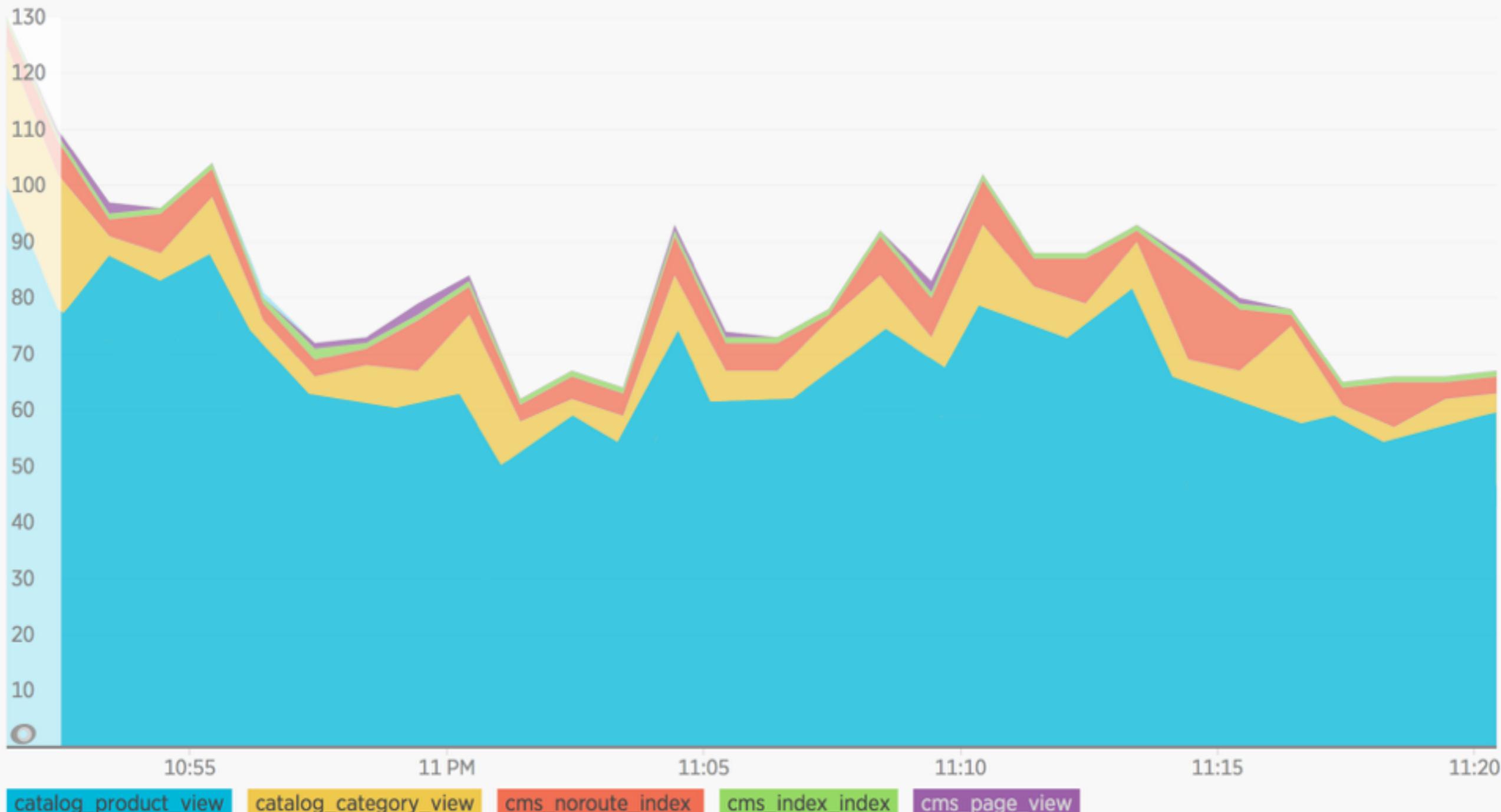
Some Examples

Can you guess what is going
wrong?

Misses per route (cacheable)

Since 30 minutes ago

X

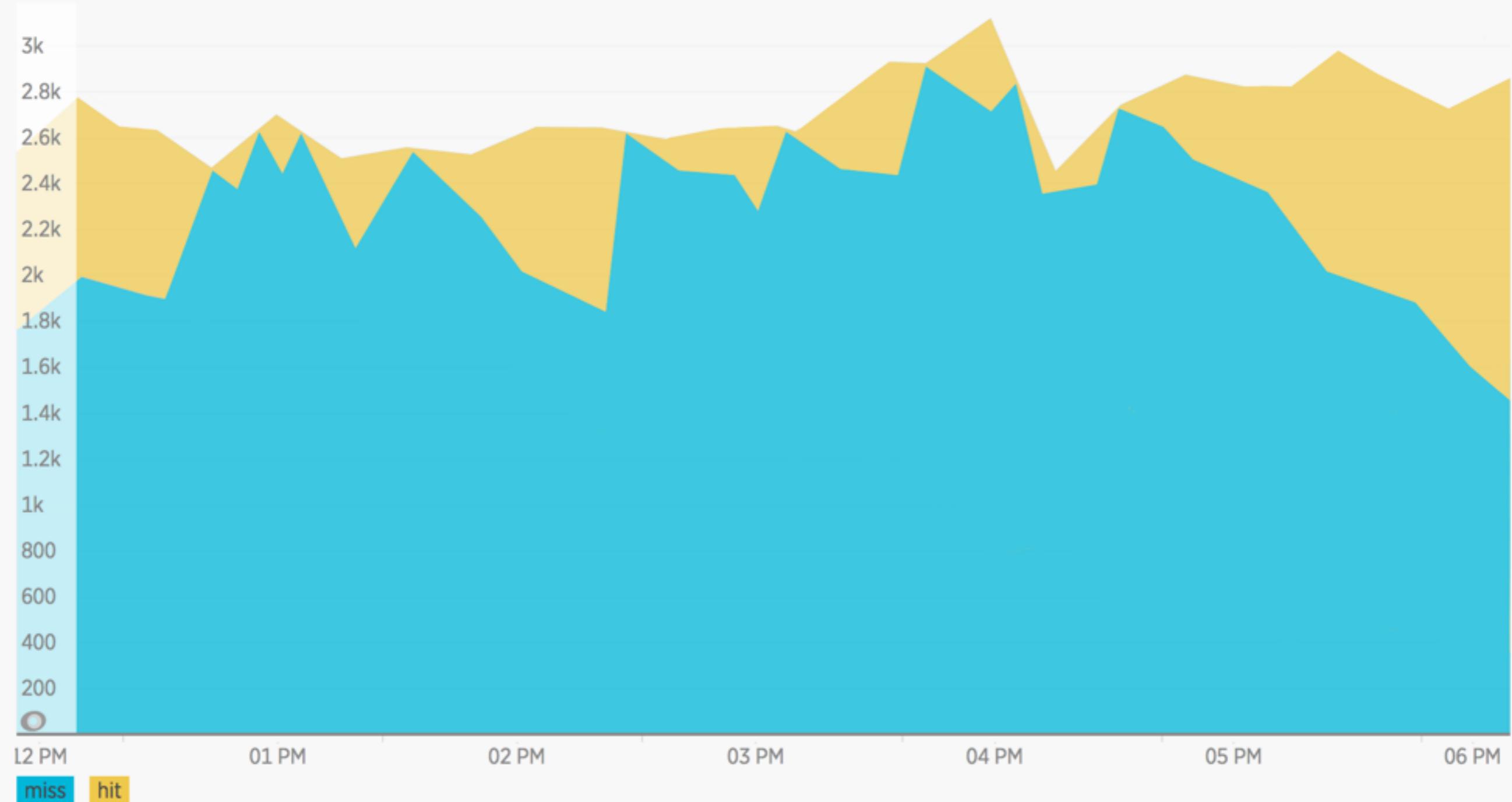


Beware of cacheable="false"

FPC Efficiency

Since 6 hours ago

X



@Tonegolf71
@Space48ers
#MageTitansIT

Beware of crazy admin users

What next?

- Native New Relic Magento Varnish plugin!
- What else could we report on that is valuable?
 - Data being invalidated, too broad or frequently?

THANKS!!

THANKS!!

Any questions?