



APACHE

TRAFFIC CONTROL

Per-Delivery-Service Routing Names

Rawlin Peters

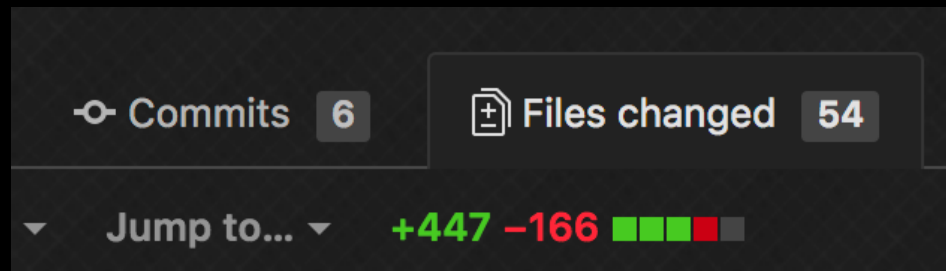
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Per-DS Routing Names

Background



- Started working at Comcast on the CDN team ~5 months ago
- My first project: this
- “It’ll be fun,” they said...



Per-DS Routing Names

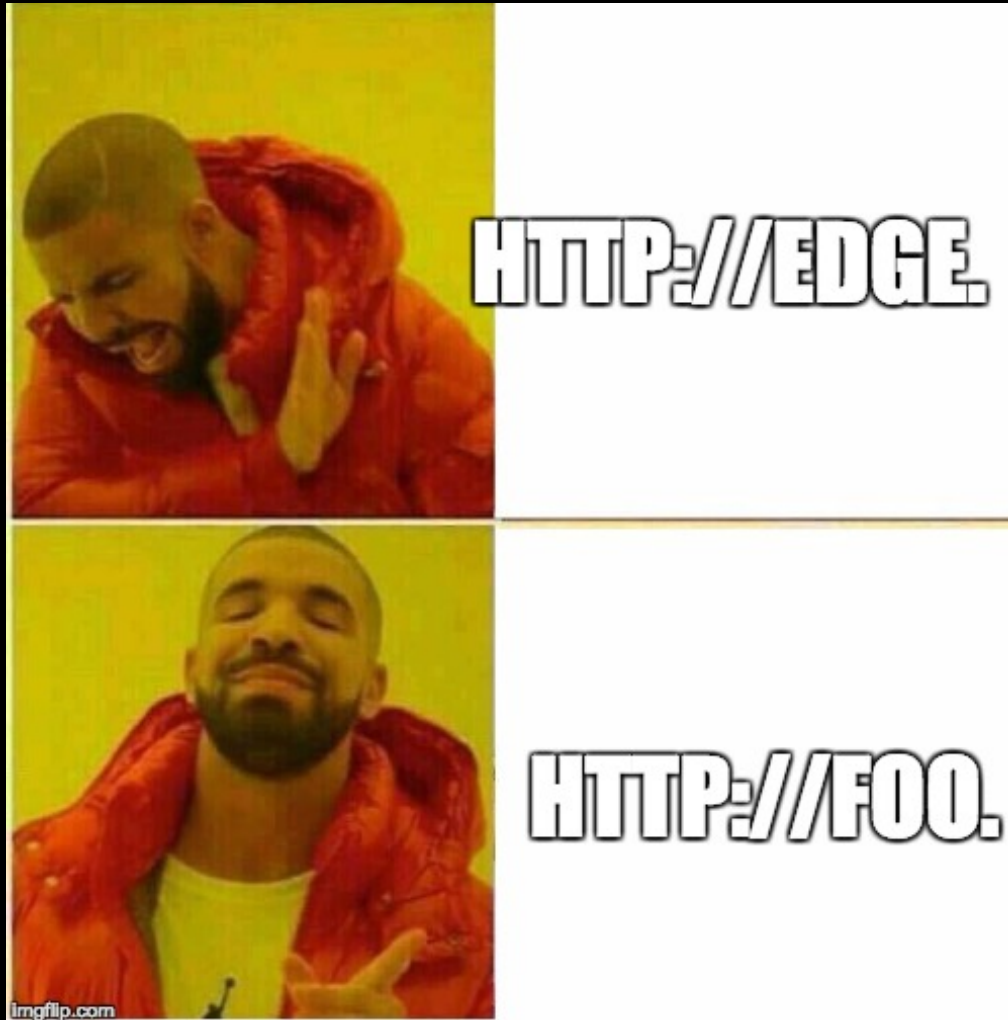
What is a routing name?



- Example URLs:
 - <http://tr.my-http-ds.cdn.com>
 - <http://edge.my-dns-ds.cdn.com>
- DNS Routing name: **edge**
- HTTP routing name: **tr**
 - (or whatever you've configured at your traffic routers...more on this later)

Per-DS Routing Names

“per-delivery-service”?



- For each delivery service, you can choose whatever Routing Name you want
 - ...as long as it's a valid non-dotted hostname, e.g. foo, bar, drake, ccr
- Default routing name: “cdn”
 - most creative thing we could think of...e.g. <http://cdn.myds.cdn.com>

Per-DS Routing Names

Annoying UI bug for open source users



Example delivery URL `http://ccr.demo.jenkins.cdnlab.comcast.net`

Example delivery URL `https://ccr.demo.jenkins.cdnlab.comcast.net`

But...isn't that supposed to be:

`“http://tr.demo.jenkins.cdnlab.comcast.net”?`

YES. Now it is.

Per-DS Routing Names

New fields in the DS forms



Old UI

* Content Routing Type	HTTP
Routing Name	ccr
* Protocol	http and https



Best UI

CDN *	Select...
Routing Name	cdn
Protocol *	0 - HTTP



Per-DS Routing Names

Caveats



- **DO NOT TRY THIS AT HOME:** changing the Routing Name after deployment
 - TLS certificates Common Name change
 - Queue Updates/Snapshot -> the edge caches and Traffic Routers will be out of sync for some period of time, which means **downtime** for that Delivery Service
 - Could pull off some trickery using a CNAME static DNS entry and ANY_MAP Delivery Service with a raw remap line
 - Might be easier to just transition clients to a new Delivery Service

Per-DS Routing Names

Upgrading to 2.2 (future release)



- Hopefully this doesn't apply to you:
 - Have you checked your `http.routing.name` in your `http.properties` Traffic Router config file recently?
 - If it's unset or set to "tr", you have nothing to worry about
 - If set to something super cool and unique, you have to create this special Profile Parameter before upgrading:
 - Name: `upgrade_http_routing_name`
 - Config file: `temp`
 - Value: <enter super cool and unique name here>
 - Add this parameter to ONE profile per CDN using that name
- Always back up your DB and read the release notes!

Live demo time

Questions?

Per-DS Routing Names

asdf

- Asdf
- Asdf

