ATS at Netlify

David Calavera

CTO, Netlify

Topher Hammond
@tophsmcgoats

When I try to go to @Netlify , but google just keeps auto-completing to @netflix instead. Maybe it's a sign I should stop working & chill?

9:05 PM - Aug 20, 2017

1

Peggy Li
@_peggyli

I keep mistyping Netlify as Netflix.

7:47 PM - Aug 23, 2017

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Marko Stijak
@mstijak

Follow

@Netflix and @Netlify are messing with my head!

1:38 PM - Oct 16, 2017

3

Jason Awbrey
@jsawbrey

Follow

Those times when you type "net" and hit enter in the browser expecting to go to Netflix, but you end up on @Netlify. :facepalm: #devlife

9:50 PM - Sep 18, 2017

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Write frontend code. Push it. We handle the rest.

ATS & Sidekicks

The GREAT Parts

Website proxying

ATS deployed across different **5** cloud providers

~ 3000

requests per second

Remap rules

```
regex_map http://api.netlify.com
          https://api-lb.netlify.com
regex_map https://api.netlify.com
          https://api-lb.netlify.com


regex_map http://.* https://127.0.0.1:9393
regex_map https://.* https://127.0.0.1:9393
```

Instant Cache Invalidation

Invalidation rules

```
> FANOUT /cache-controller
> X-Netlify-Domain: www.example.com
> X-Netlify-Generation: 42


> PURGE /
> X-Netlify-Domain: www.example.com
> X-Netlify-Generation: 42
```

Dynamic TLS provisioning

TLS provisioning rules

```
> GET /certificates/www.example.com

< HTTP/1.1 200 OK
< {
<    "certificate": "aaa…",
<    "key": "bbb…",
<    "Chain": "ccc…"
< }
```

GEO IP Redirects

GEO IP redirect rules

```
[[redirects]]
  from = "/some-page"
  to = "/es/some-page"
  conditions = {Country = "ES"}
```

H2 Server Push

Nick ✔️
@grittygrease

Replying to @sleevi_

What do we want?? Server push!!
When do w... NOW!!

7:37 PM - Sep 30, 2017

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Server Push link headers

```
[[headers]]
  for = "/some-page"
  [headers.values]
  Link = [
    "</styles.css>; rel=preload; as =style",
    "</scripts.js>; rel=preload; as=script",
    "</image.png>; rel=preload; as=image"
  ]
```

Git Branch
Split testing

ATS & Sidekicks

The NOT so GREAT Parts

OCSP Stapling

Alternate selection

Observability

Thank you for listening!

David Calavera

@calavera