



How CDNs Help

In The Fight Against **Content Piracy**



Mike Elissen

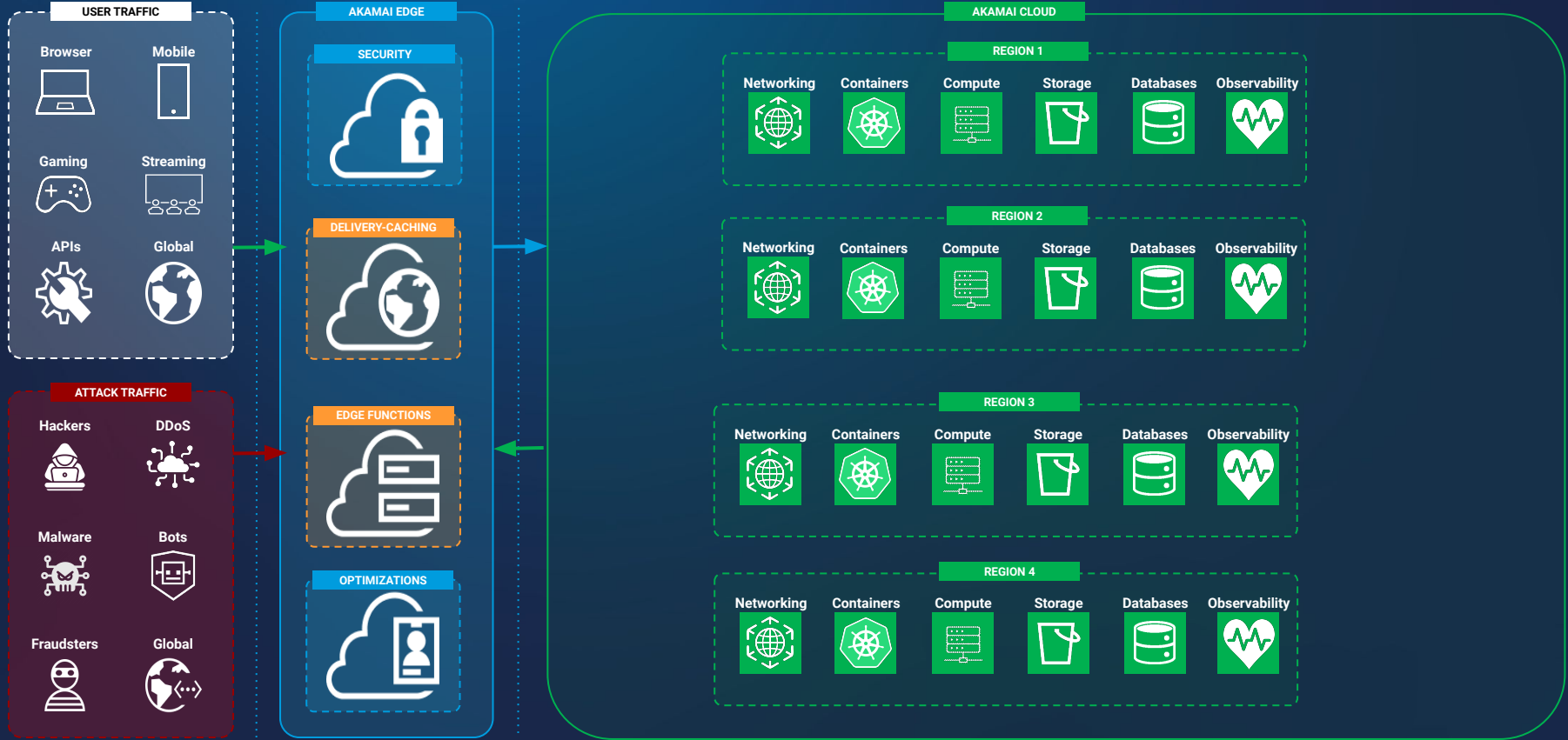
*Product Marketing Lead,
Cloud & CDN, EMEA*

@ Akamai

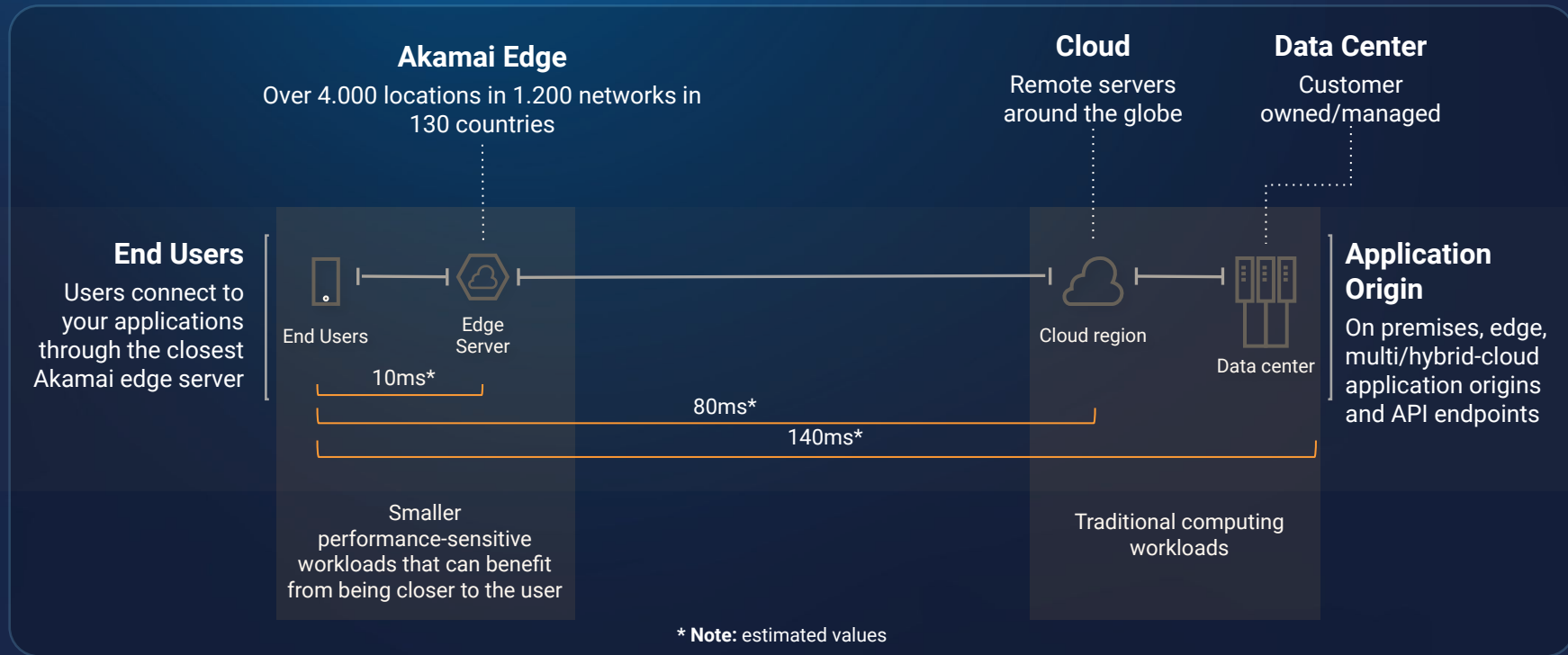
12 years @ Akamai in
Technical Consultancy roles.
Aligned to Streaming Media &
Gaming verticals.

[https://www.linkedin.com/in/mikeelissen/
melissen@akamai.com](https://www.linkedin.com/in/mikeelissen/melissen@akamai.com)

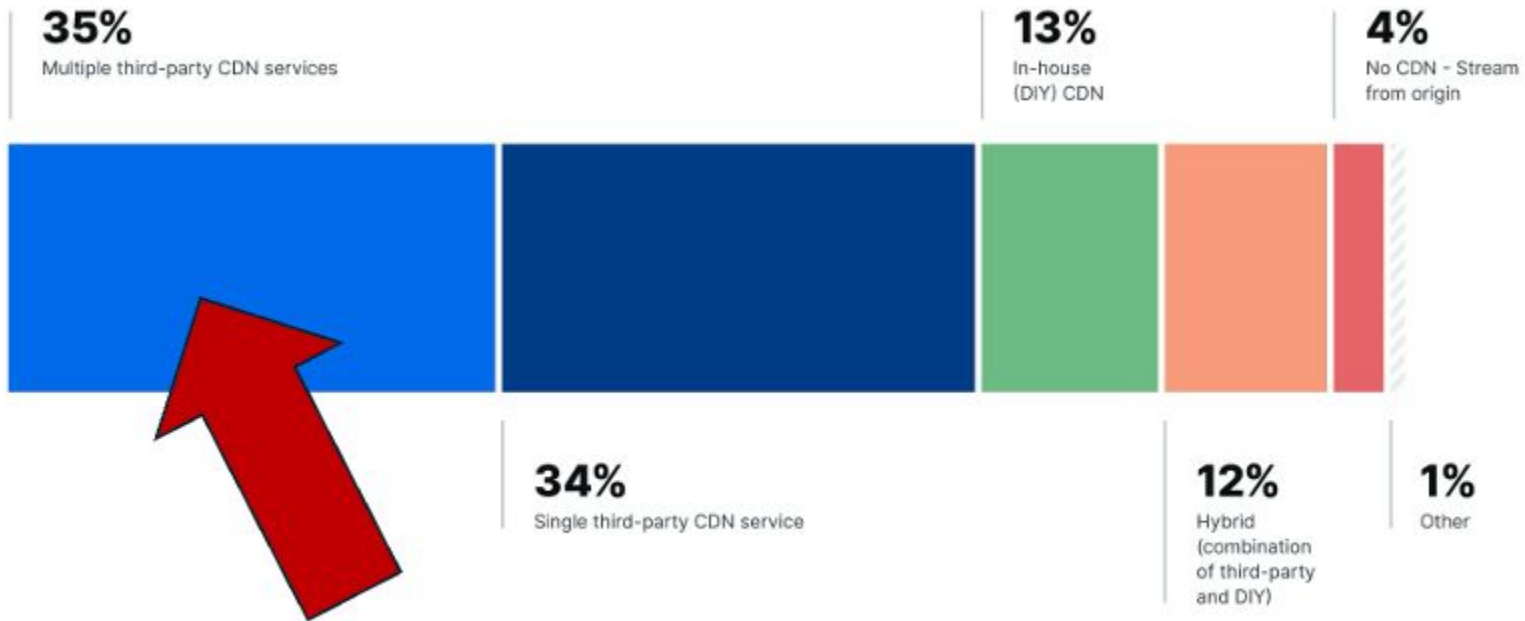
How CDNs Work



Low-latency is critical in Streaming Media



What about Multi-CDN?



Bitmovin Developer Report: 2023/24

Common Access Tokens



Types of Content Piracy(-ish)

How?



Unauthorized Streaming

Accessing content they shouldn't have access to start with.



Credential Sharing Account Takeover

Sharing or getting access to content from an authorized user.



Content Downloading

Illegally redistributing content they have access to, post-event / VOD.



CDN Leeching

Illegally redistributing content that have access to, live.



Premium Content

Behind a paywall / paid / premium content.

Movies / TV / Live Sports.

What?

Demo

End-to-End workflow with Akamai Cloud for Media
Scalstrm for packaging, EdgeWorkers for Common Access Tokens.



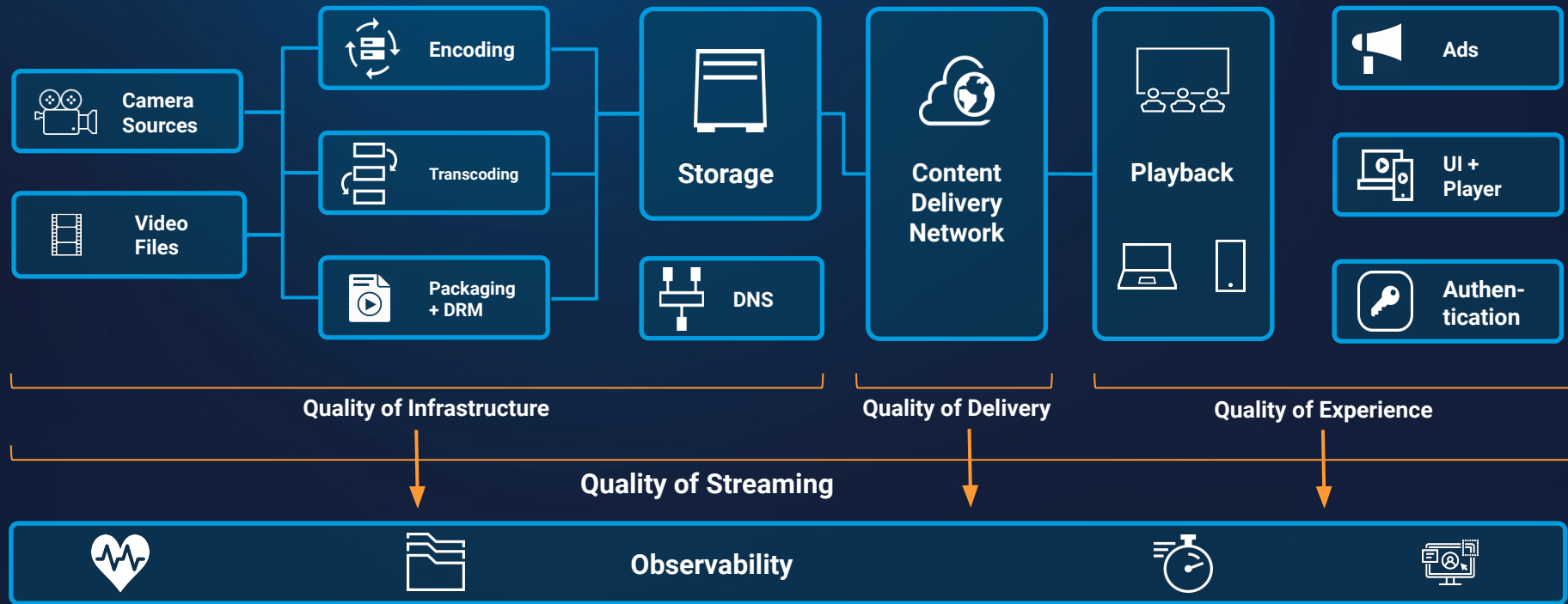
Common Access Tokens



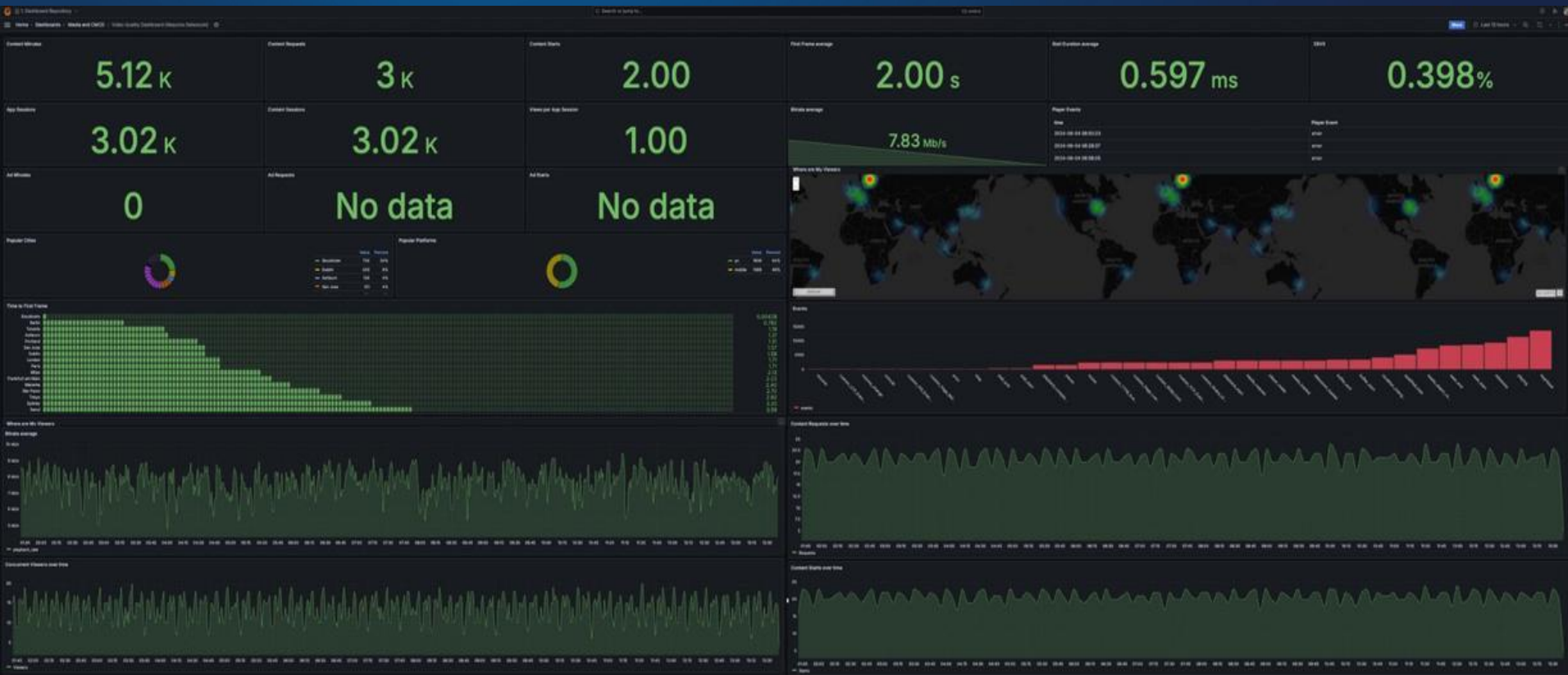
Common Access Tokens

- CTA WAVE PROJECT recognized these problems and in APRIL 2021 created a new workgroup to create a specification for a harmonized access token.
- The name chosen was Common Access Token (CAT).
- This name matches WAVE's other specifications
 - Common Media Client Data
 - Common Media Server Data.
- Github: <https://github.com/cta-wave/common-access-token>
- Spec: <https://shop.cta.tech/products/web-application-video-ecosystem-common-access-token-cta-5007>
- Meetings were held every two weeks for the last 3 years.
- The specification was released in Q3 2024 as CTA-5007.

Observability to Fight Against Content Piracy



Grafana Demo



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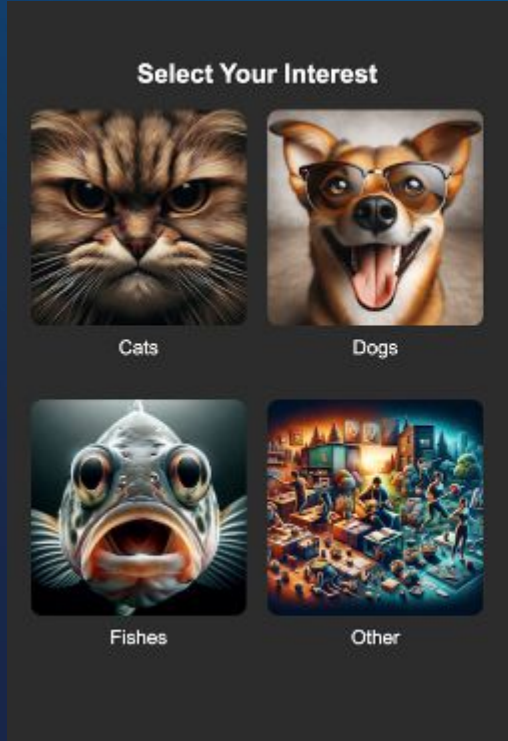
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What?

'Be a Pirate' Demo



If you need help ...



Mike Elissen

*Product Marketing Lead,
Cloud & CDN, EMEA*

@ Akamai

[https://www.linkedin.com/in/mikeelissen/
melissen@akamai.com](https://www.linkedin.com/in/mikeelissen/melissen@akamai.com)



Anders Näsman

*Principal Presales
Engineer, Media*

@ Akamai

[https://www.linkedin.com/in/andersn1/
anasman@akamai.com](https://www.linkedin.com/in/andersn1/anasman@akamai.com)