

# PxWeb delay at release time

EXPERIENCES FROM STATISTICS NORWAY

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# Statistics Norway release time 08.00.00

- Since 1999 we have had a fixed release time on web.
- PxWeb/PxWebApi: Increasing delays, from 5 – 45 seconds, during the last years
- Norway: Small, open, oil dependent economy with own currency.
  - Makes ssb.no vulnerable to traders in currency

# More users comes from cloud services

- We don't know the user behind cloud services, like Amazon WS.
- Other users are easy to identify and communicate to
  - Communicators as Refinitiv and Bloomberg are OK
- June 2019 – Canadian Financial Trading company wrote to us:
  - «(...) we have noticed that Financial Markets seem to be moving on the information released within the CPI report a few seconds ahead of any news vendor (such as Bloomberg, Reuters, etc...) (...)”



# One user - 65% of traffic at release time

- Statbank crash, 25 min., at release of National Accounts 2019.
- One actor used same scripts from:
  - 8 different Internet Service Providers / cloud services
  - using many IPs from each vendor
  - *Softlayer* (IBM cloud) is their main ISP
- Most traffic on release of CPI/PPI and National accounts



# How did we react

- Identified Internet vedors
  - Sent mails to abuse- addresses
- Blocked used IPs in firewall



# August 2020 – reply via one vendor

“After a thorough review with the teams, we found that the IPs you mentioned were indeed not properly configured.

We stopped the scripts from the below hosts to ensure we wouldn't be part of any of the multiple requests that hinder Norway Statistics' website performance, nor your reputation.

Thank you for raising this issue with us. “

# October 2020

- Same user is back, but at reduced pressure
- Using fewer IPs
- Number of requests around limit
  - 30 requests pr. minute
- We still don't know *who*



# Thank you!

