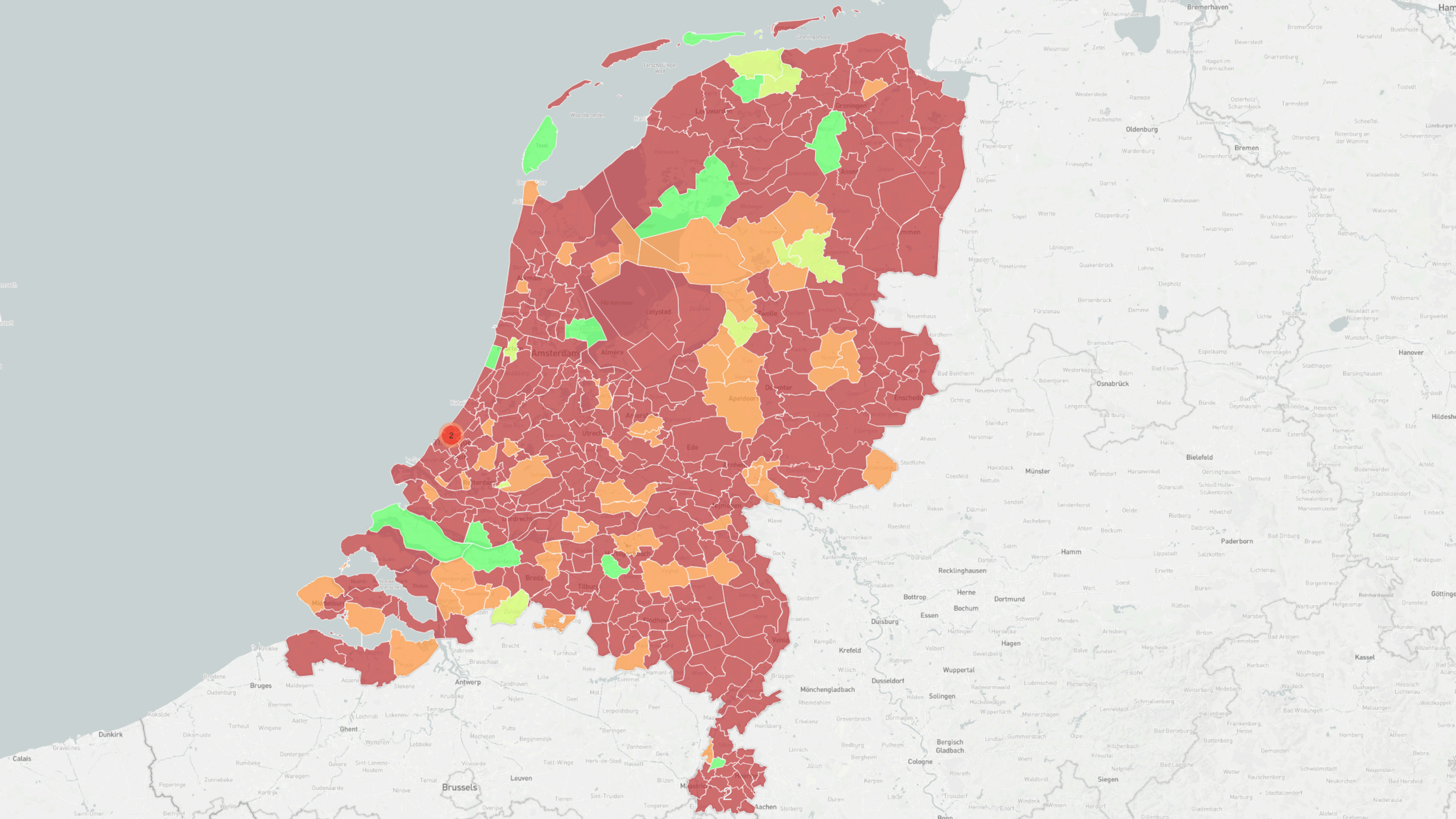
basic security and transparency

faalkaart.nl

Internet Cleanup Foundation



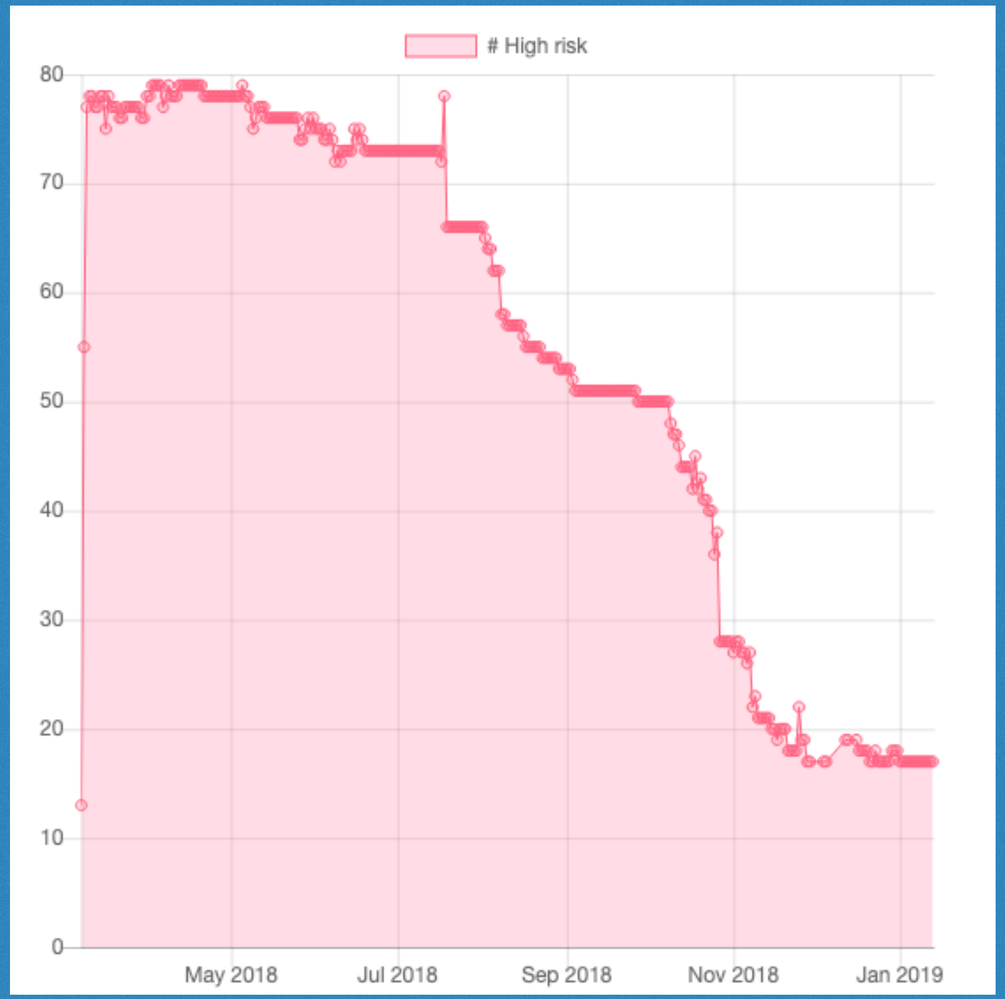
Amsterdam
Almere
Lelystad
Zwolle
Apeldoorn
Deventer
Enschede
Ede
Utrecht
Amersfoort
Rotterdam
Dordrecht
Breda
Tilburg
Eindhoven
Venlo
Maastricht
Aachen
Nijmegen
Arnhem
Groningen
Leeuwarden
Assen
Emmen
Bremerhaven
Oldenburg
Bremen
Osnabrück
Hanover
Bielefeld
Münster
Paderborn
Hamm
Recklinghausen
Herne
Bottrop
Bochum
Dortmund
Essen
Duisburg
Hagen
Krefeld
Wuppertal
Dusseldorf
Mönchengladbach
Solingen
Bergisch Gladbach
Cologne
Siegen
Kassel
Bruges
Antwerp
Ghent
Dunkirk
Calais
Brussels
Leuven
2
2

Making the internet more secure

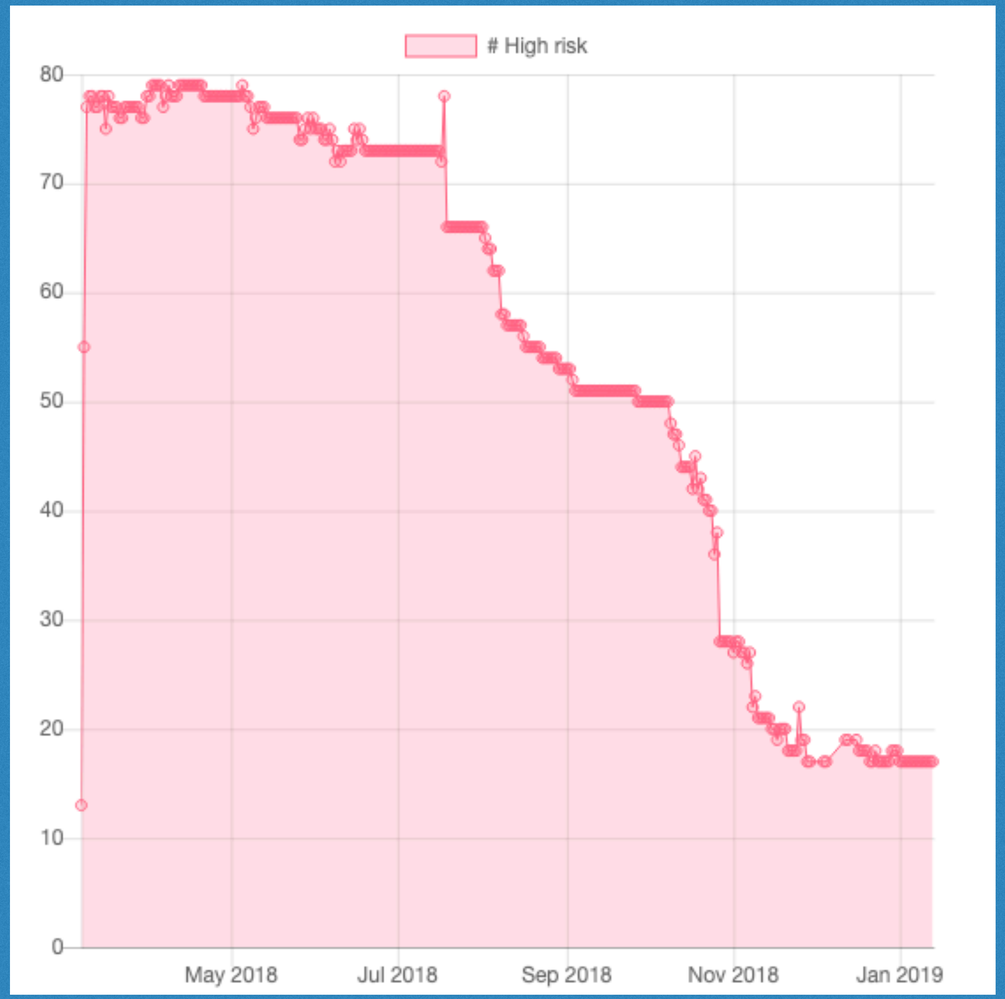
by creating transparency about security

which leads to tangible goals and accountability

DNSSEC 2018


High risk
80
70
60
50
40
30
20
10
0
May 2018
Jul 2018
Sep 2018
Nov 2018
Jan 2019

DNSSEC 2018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May 2018
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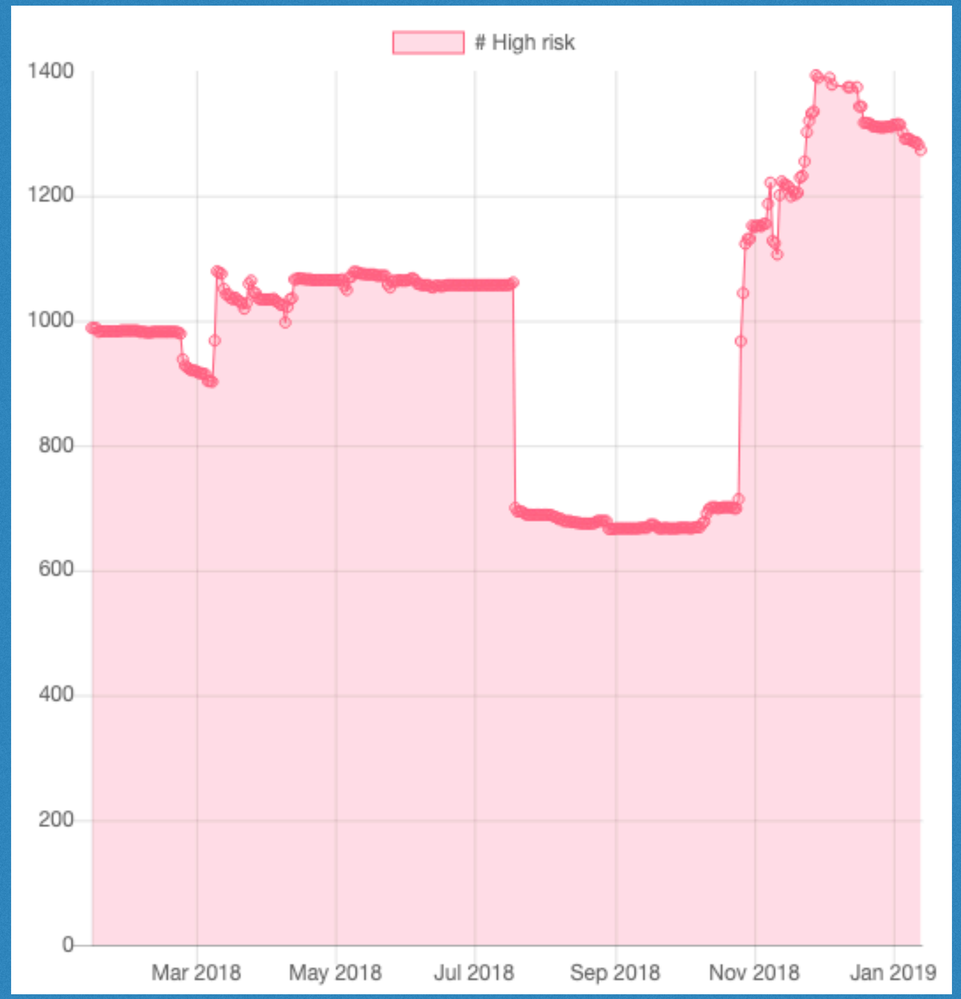
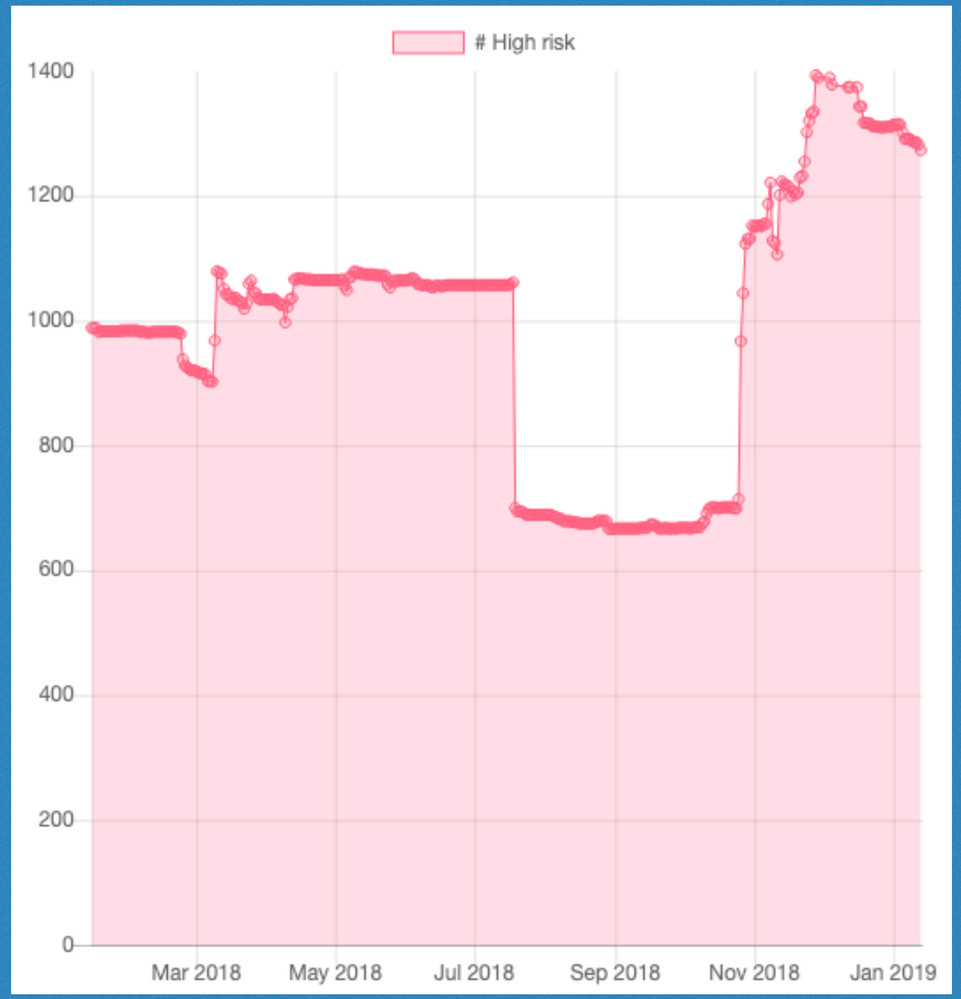
Cert Trust 2018



Cert Trust 2018



What does it do

Manual / Hackathons
DNSSEC
Public Sources
Intelligent Guessing
Official Lists

Certificate Trust
Encryption Quality
DNSSEC
FTP Encryption
Security Headers

Map view
Historic data
Charts
Comply or Explain
Reports

It tells you...

If their IT is automated

A first impression of security policies

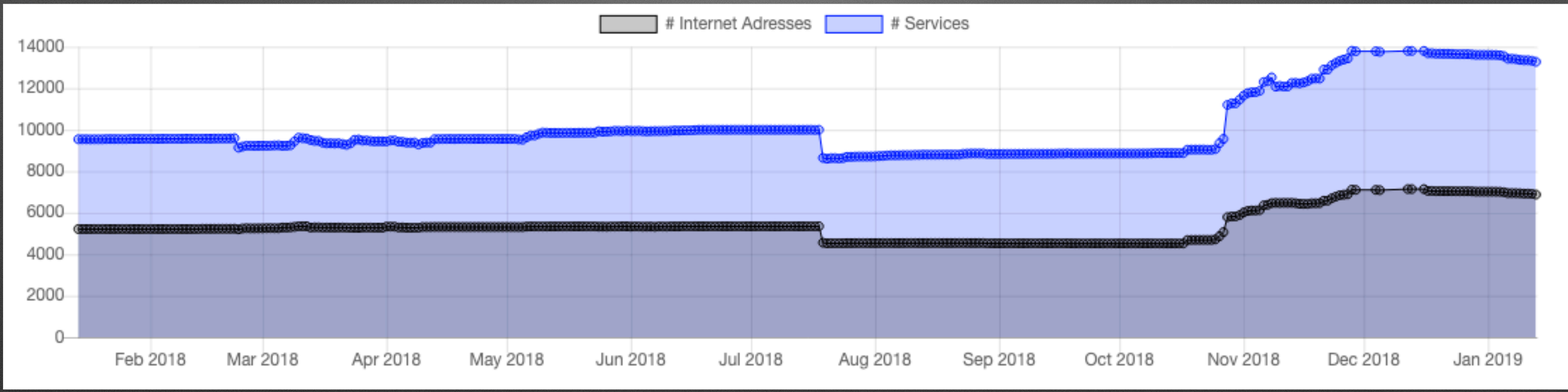
Size of the online footprint

It doesn't tell you

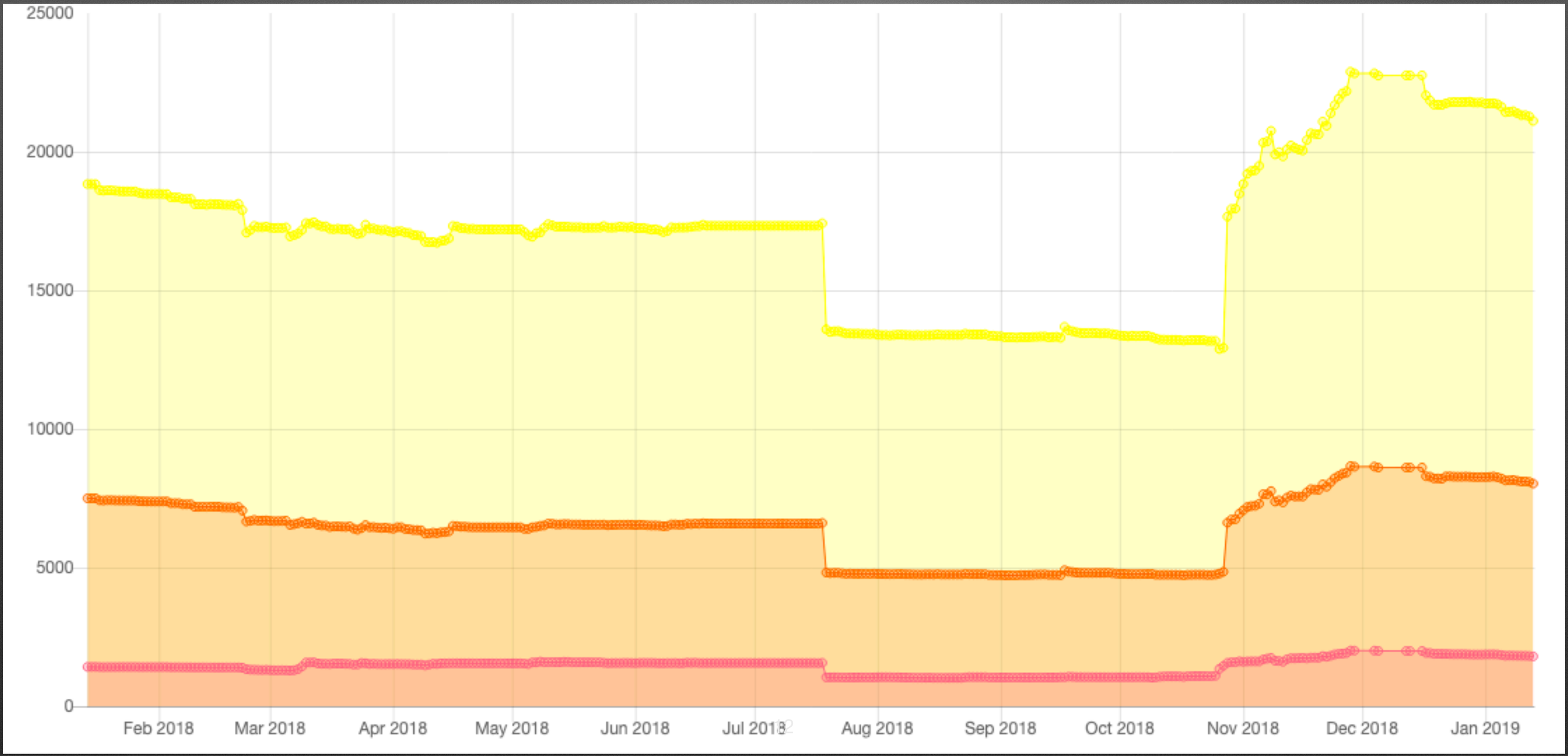
If there are critical vulnerabilities

If the list of domains / services is complete

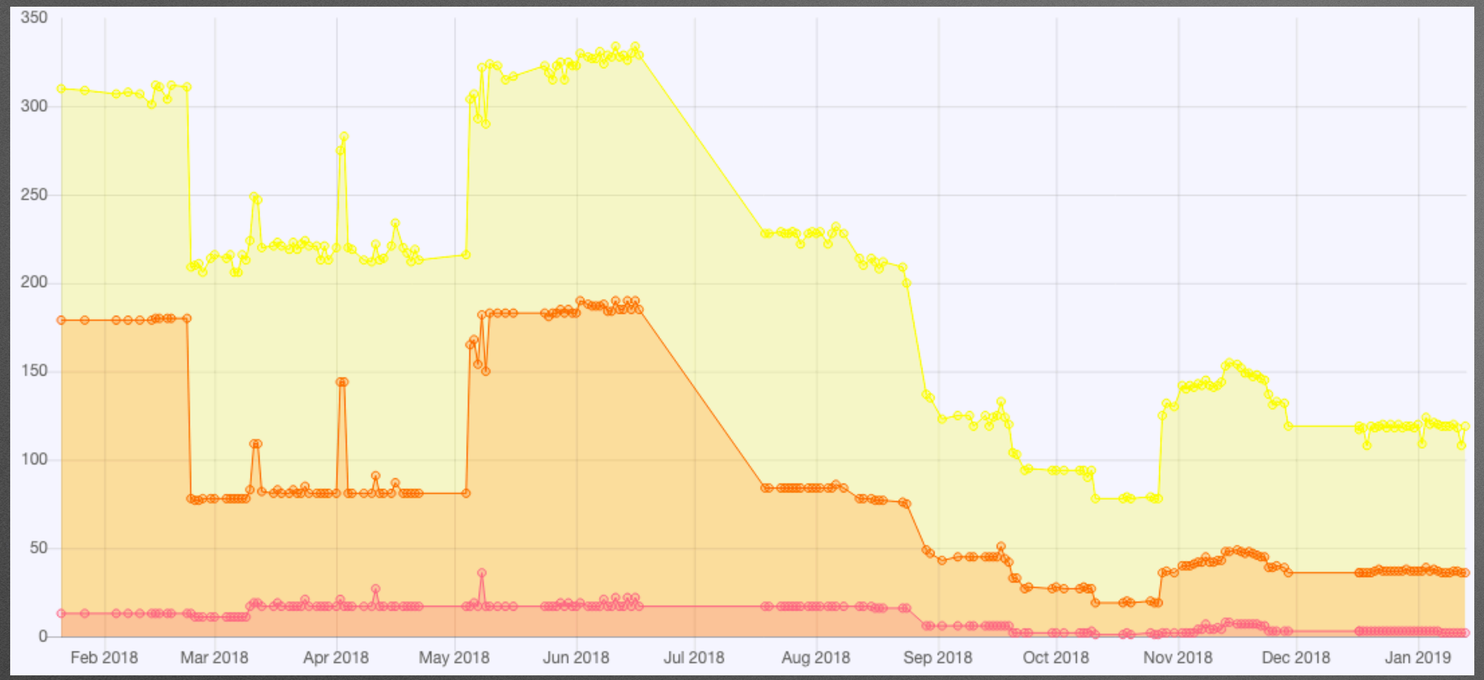
Number of services scanned

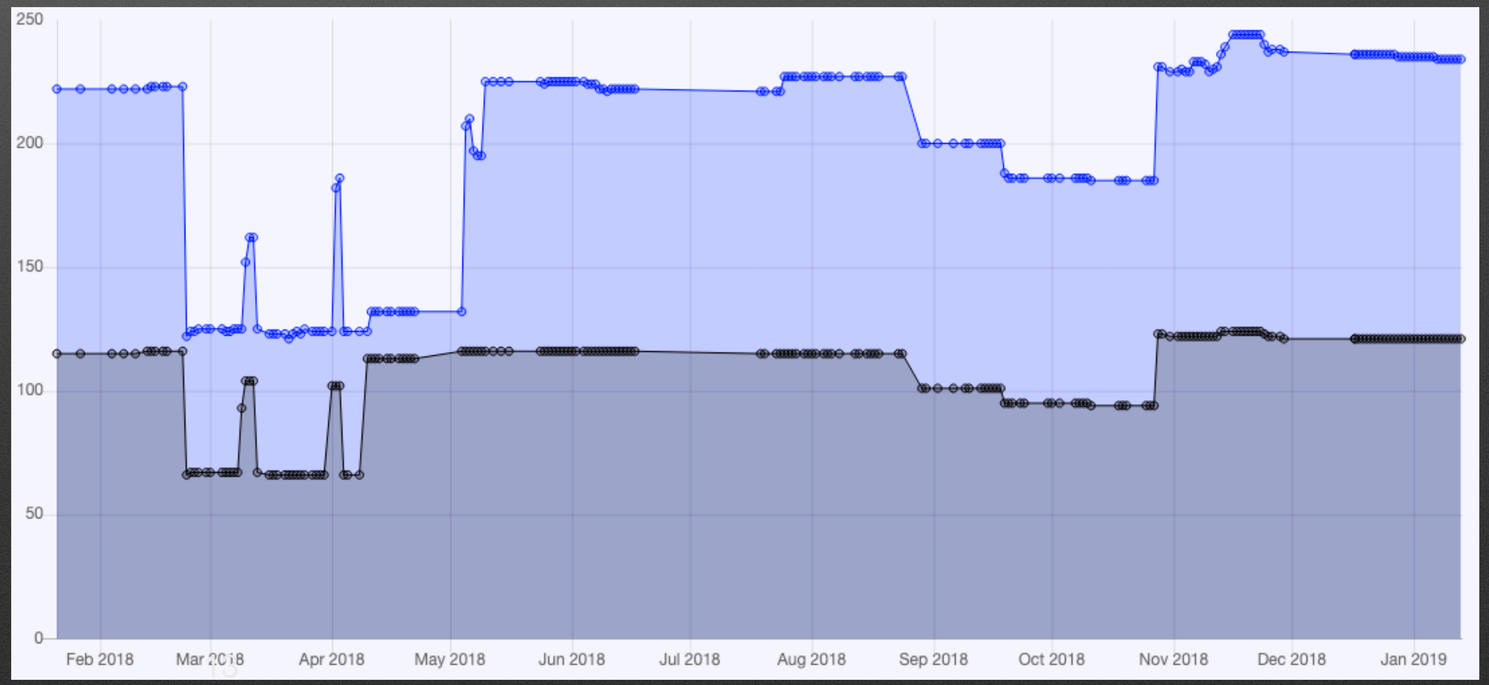


Number of total issues



Groningen


350
300
250
200
150
100
50
0
Feb 2018
Mar 2018
Apr 2018
May 2018
Jun 2018
Jul 2018
Aug 2018
Sep 2018
Oct 2018
Nov 2018
Dec 2018
Jan 2019


250
200
150
100
50
0
Feb 2018
Mar 2018
Apr 2018
May 2018
Jun 2018
Jul 2018
Aug 2018
Sep 2018
Oct 2018
Nov 2018
Dec 2018
Jan 2019

Datasets

These datasets contain all data currently displayed or
like this.

Municipalities

Only urls	Download
Organization types*	Download
Organizations*	Download
Map Data*	Download
Urls*	Download

1	De Fryske Marren	11	30
2	Moerdijk	8	17
3	Goeree-Overflakkee	9	16
4	Beek	9	15
5	Haaren	7	12
6	Texel	5	10
7	Ameland	4	7
8	Cromstrijen	3	6
9	Leeuwarderadeel	2	4
10	Dantumadiel	2	4

When	Number	Good	Average	Bad
now	398	22 (6%)	59 (15%)	317 (80%)
7 days ago	398	19 (5%)	57 (14%)	322 (81%)
2 weeks ago	398	21 (5%)	56 (14%)	321 (81%)
3 weeks ago	398	20 (5%)	58 (15%)	320 (80%)
1 months ago	398	17 (4%)	53 (13%)	328 (82%)

high waarmerk.gemeentesudwestfryslan.nl

Report incorrect finding

Latest screenshot of
httpswaarmerkgemeentesudwestfryslannl44

Service: https/443 (IPv4)

Trust in certificate

+ high Certificate is not trusted.
Since: a month ago, latest check: a month ago
Second opinion (qualys) Documentation (wikipedia) Explain

Strict-Transport-Security Header (HSTS)

+ medium Missing Strict-Transport-Security header.
Since: a month ago, latest check: 2 days ago
Second opinion (securityheaders.io) Documentation (wikipedia)

X-Frame-Options Header (clickjacking)

+ medium Missing X-Frame-Options header.
Since: a month ago, latest check: 2 days ago
Documentation (wikipedia) Explain

X-Content-Type-Options

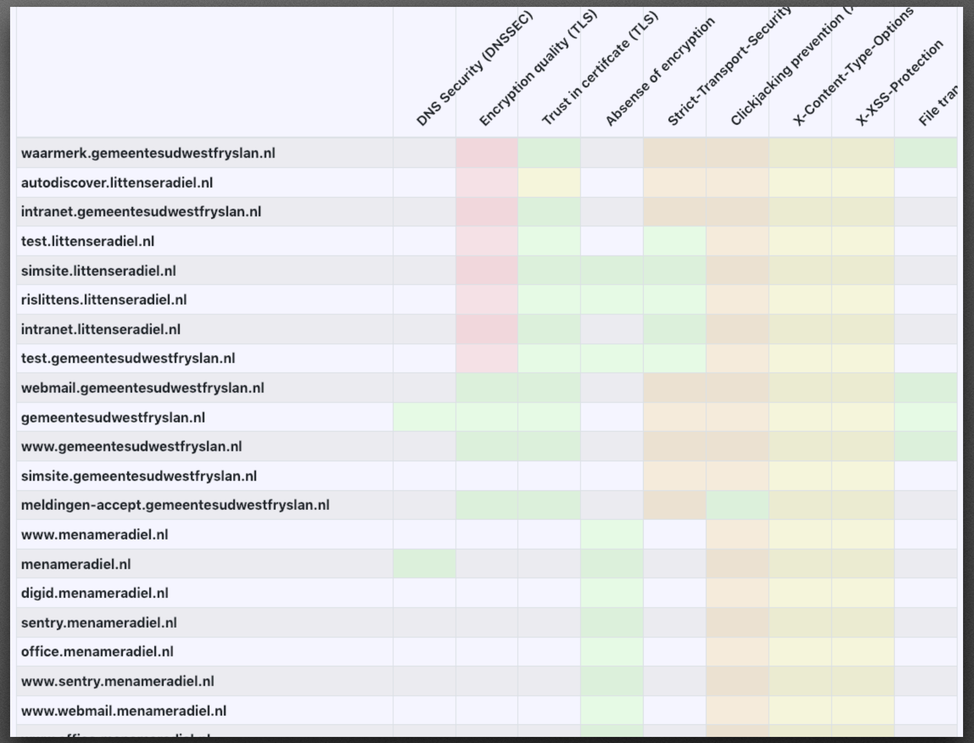
+ low Missing X-Content-Type-Options header.
Since: a month ago, latest check: 2 days ago
Documentation (owasp) Explain

X-XSS-Protection Header

+ low Missing X-XSS-Protection header.
Since: a month ago, latest check: 2 days ago
Documentation (owasp) Explain

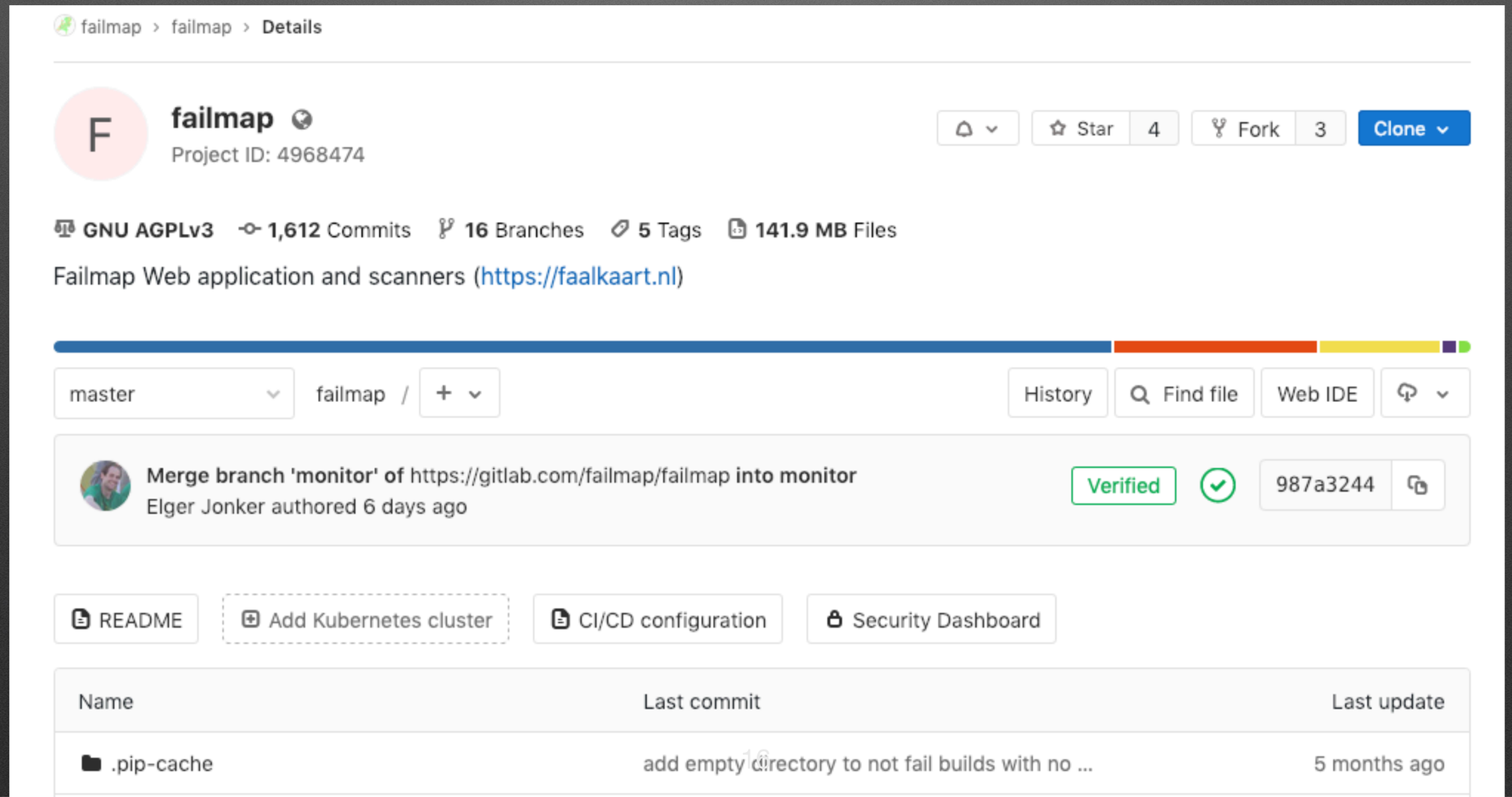
Encryption quality

+ perfect Good Transport Security, rated A.
Since: a month ago, latest check: a month ago
Second opinion (qualys) Documentation (wikipedia) Explain

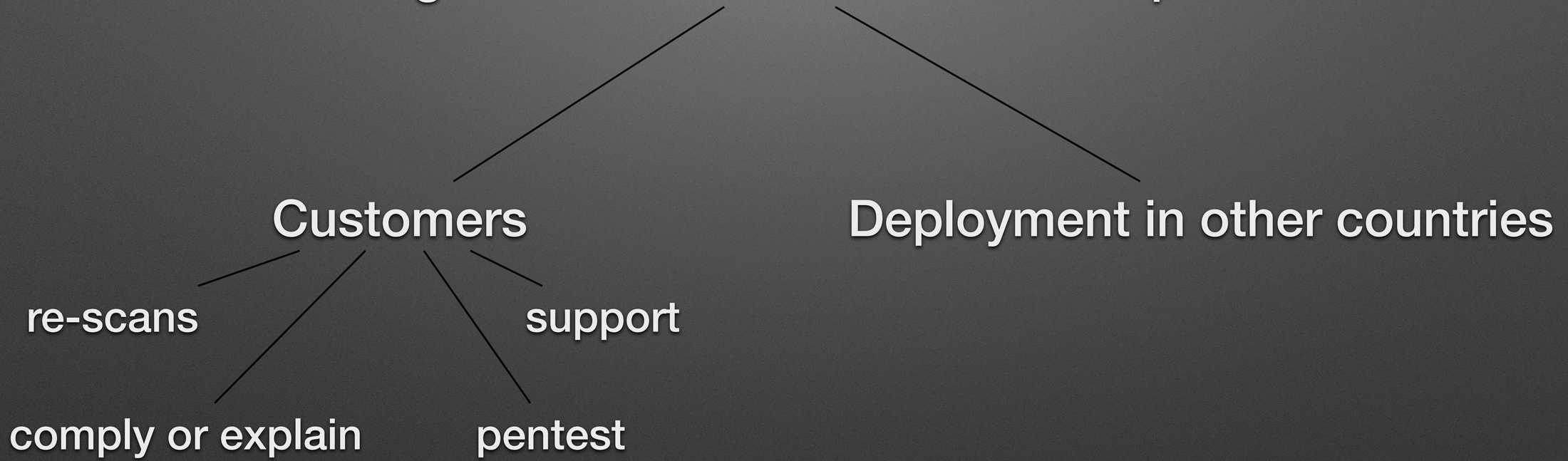


Open source

https://gitlab.com/failmap/failmap



The road ahead...



Thanks

SIDN Fonds

sentry.io

Open source community

Cyberonderzoeksraad

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elger@internetcleanup.foundation

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https://faalkaart.nl