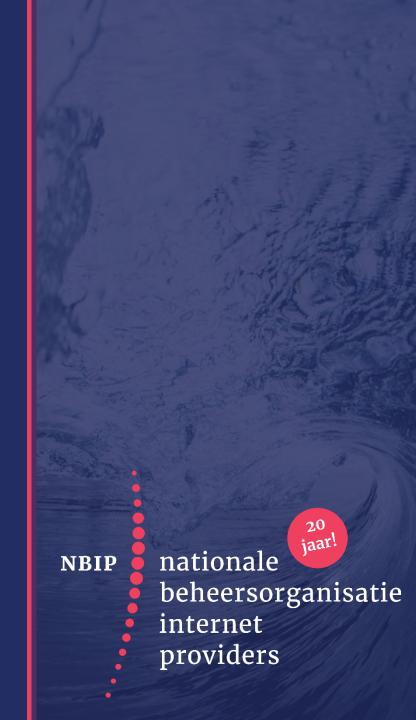


whois ORG-SN292-RIPE

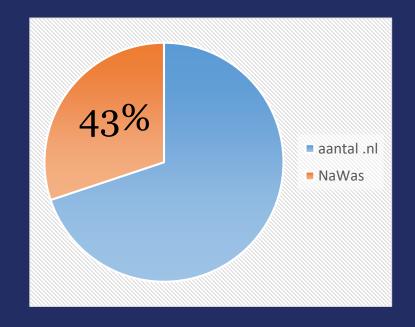
- org-name: Stichting NBIP https://www.nbip.nl/en/
- Independent non-profit foundation
- Sector initiative started in 2002

- Services for Internet Providers
 - Lawful Interception
 - Clean Networks Platform <u>www.cleannetworks.net</u>
 - DDoS Scrubbing Center NaWas
 - Mitigation
 - Reporting
 - Research and cooperation



whois ORG-SN292-RIPE

- 6,5 M .nl domains protected by NaWas (2020)
- Aprox 1,6 M websites



- In 2013 request for anti-DDoS solution
- Started POC 2nd ½
 2013
- NaWas operational in 2014
- NaWas connected to LINX in 2019
- NaWas connected to Italian IX and Netix in 2020







- Every quarter
 - nbip.nl/ddos-report
- Annually
 - Appears early April



Stichting NBIP nbip.nl

DDoS attack figures from the first quarter of 2022







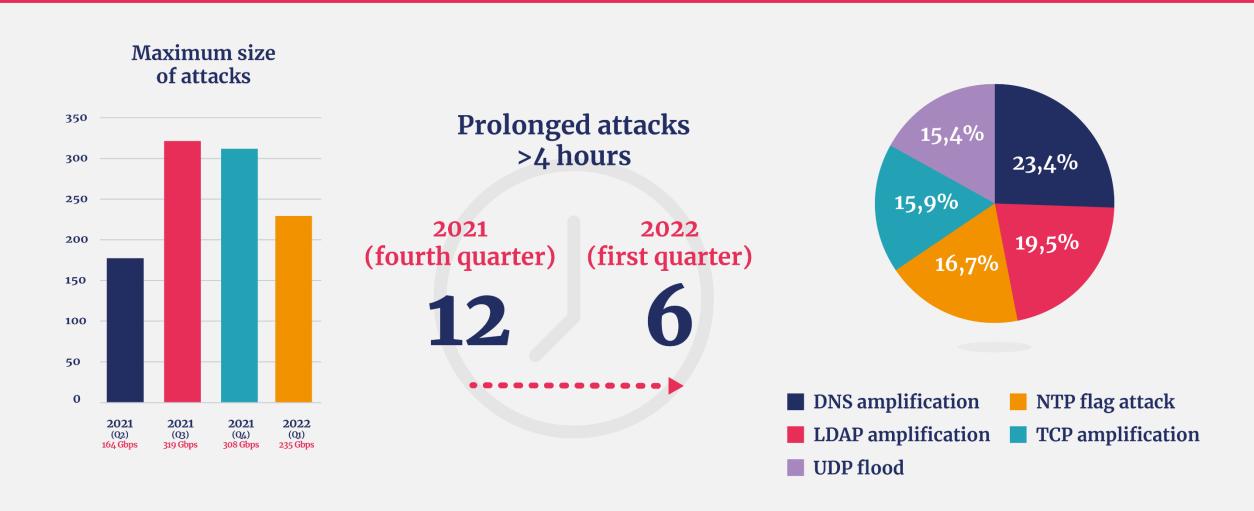
Number of attacks:

Average number of attacks per day:

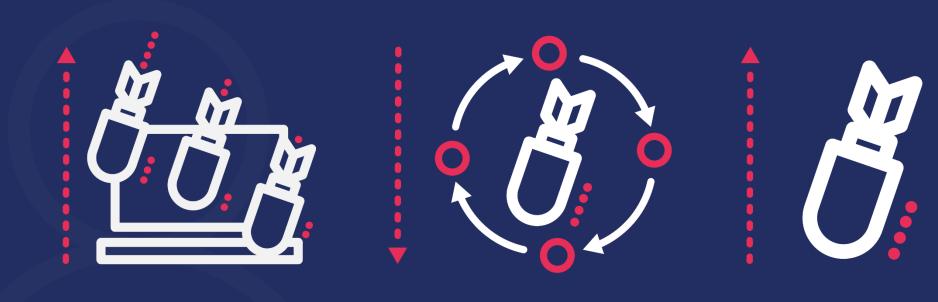
Largest recorded attack:

666 7,4 235Gbps

DDoS attack figures from the first quarter of 2022



DDoS attack trends from the first quarter of 2022



Increase LDAP amplification attacks in Q1 2022

Number of attacks (> 40 Gbps) strongly decreases Increase DDoS attacks < 15 minutes

Anti-DDoS-Coalitie



- Cooperation on knowledge sharing about DDoS attacks (2018)
 - Universities, IX's, ISP's, banks, government, law inforcement
 - National Cyber Security Centre (NCSC) facilitator





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New version of the DDoS Clearing House core components

30 September 2020

SIDN Labs and SURF have released a new version of the DDoS Clearing House in a Box, a system that enables network operators to automatically

Read More »



DDoS coalition is working together during the current DDoS attacks

4 September 2020

The website reflects coalition's joint efforts over the past two years In recent weeks, dozens of companies in The Netherlands and Europe have been targeted

Read More »

Stichting NBIP nbip.nl



NaWas



North: Internet

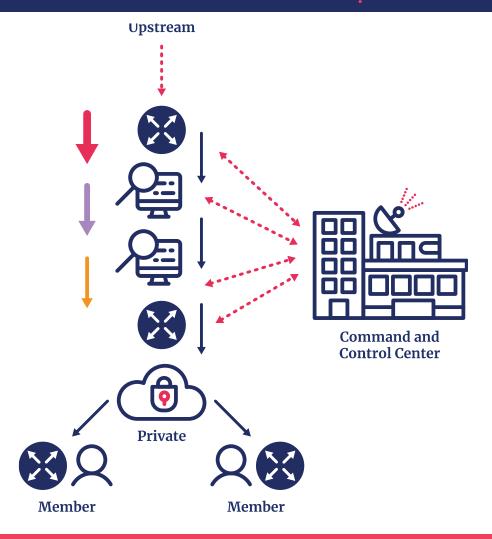
- Several Tier-1 Transit
- Public peering on Internet Exchanges
- Amsterdam as one of major hubs in Europe

West – East: 3-stage scrubbing

- Multiple vendors
- Fail-over on multiple sites
- Prefiltering with NaWas filters (migrating to FlowSpec)

South: Clean Traffic

- private connections
- Only reachable through NaWas
- PoP's via AMS-IX, NL-IX, Dcspine, Linx, Mix, Top-IX, Namex, Netix



Stichting NBIP



R&D NaWas

- DDoS Detectie as a Service (DaaS)
- Web Application Firewall (WAF-dp)
- Clearing House (Anti-DDoS coalition)
- DDoS Pattern Recognition generate filter rules (Dissector)

