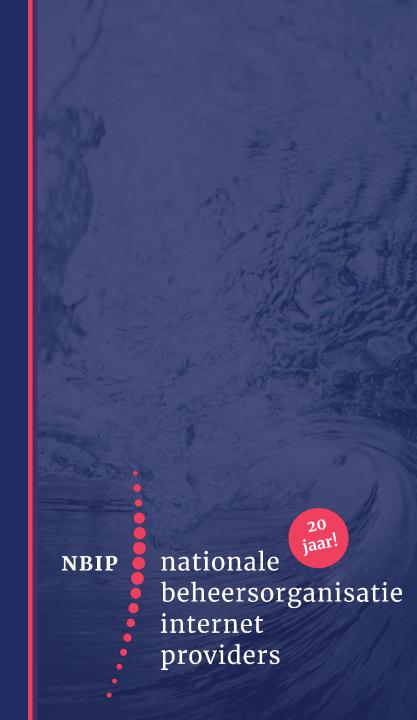


whois ORG-SN292-RIPE

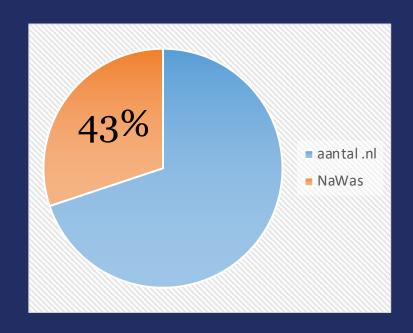
- org-name: Stichting NBIP -<u>https://www.nbip.nl/en/</u>
- Independent non-profit foundation
- Sector initiative started in 2002

- Services for Internet Providers
 - Lawful Interception
 - Clean Networks Platform www.cleannetworks.net
 - 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 1/2 2013
- NaWas operational in 2014
- NaWas connected to LINX in 2019
- NaWas connected to all major IX 2025
- 130 members in EU,12 in UK







House of Lords DDoS Day

Frank Dupker NaWAS by NBIP

1 November | Palace of Westminister





UKIsrael Cyber Forum

Take away

- Industry leaders on DDoS
- Rapid change in attack landscape
- More L7 focused type attacks (high RPS)
- DDoS is serious part of war

DDoS Reporting



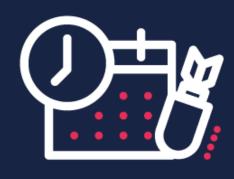
- Every quarter
 - nbip.nl/ddos-report



Stichting NBIP nbip.nl

DDoS attack figures from the third quarter 2023







Number of attacks:

Average number of attacks per day:

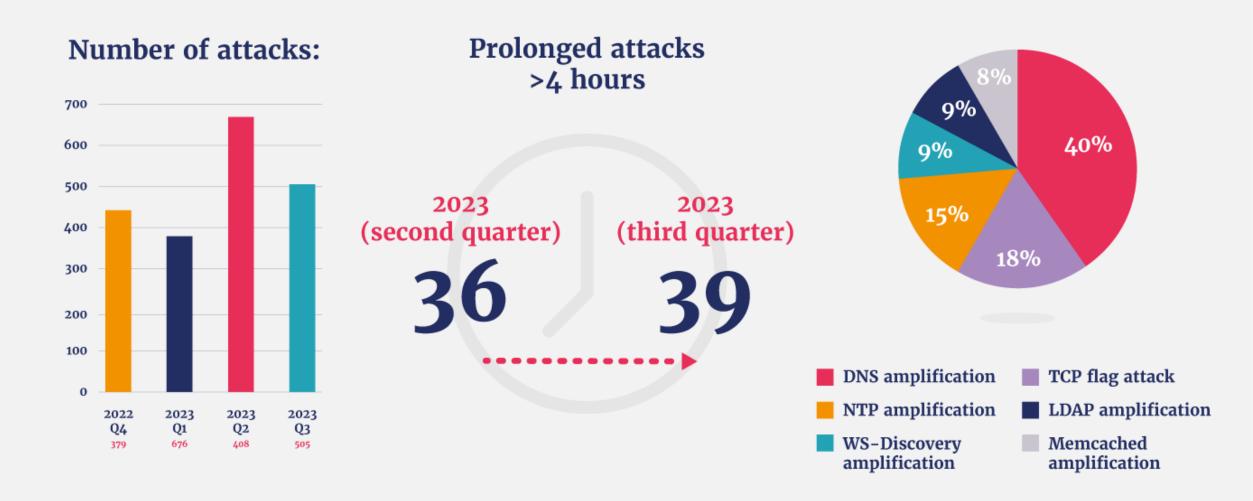
Maximum attack size:

505

5.5

213 Gbps

DDoS attack figures from the third quarter 2023



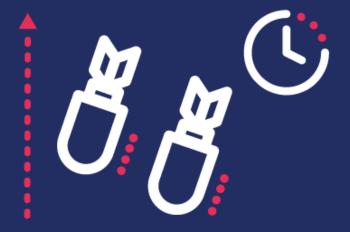
Trends DDoS attack figures from the third quarter 2023



Increase in new attack types, such as Rapid Reset Attack



Significantly more small-scale attacks (1-10 Gbps) than in Q2



Noticeable rise in attacks with a high PPS (parts per second in millions)

Anti-DDoS-Coalitie



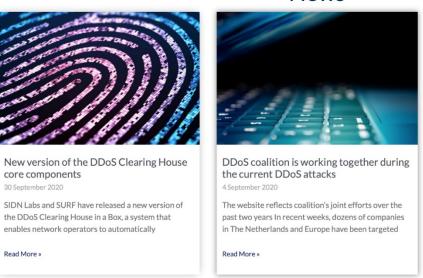
Presentations

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





News



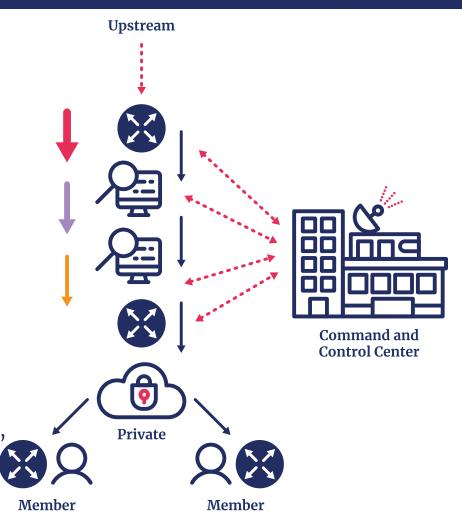
Stichting NBIP nbip.nl



NaWas, how does it work



- 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, Dospine, Linx, Mix, Top-IX, Namex, Netix





R&D NaWas

- DDoS Detectie as a Service (DaaS)
- Web Application Firewall (WAF-dp)
- DDoS Pattern Recognition generate filter rules (Dissector)
- Distributed presence in Europe
- Modernize the membership

