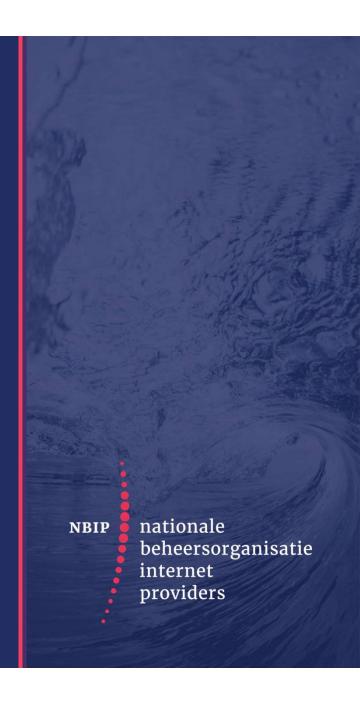


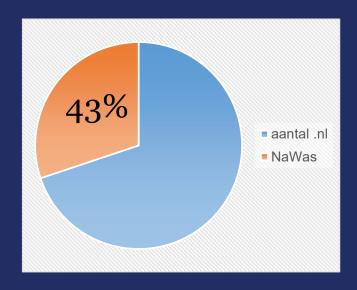
whois ORG-SN292-RIPE

- 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 1/2
 2013
- NaWas operational
 2014 AMS-ix, NL-ix
- NaWas connected to LINX in 2019
- NaWas available in 8 countries in Europe



DDoS Reporting

- Every quarter
 - Statistics and analysis
 - Based on what we observe through NaWas
 - Visit nbip.nl/en/news for latest reports

Stichting NBIP nbip.nl

DDoS attack statistics in the second quarter 2024



Number of attacks:

419



Average number of attacks per day:

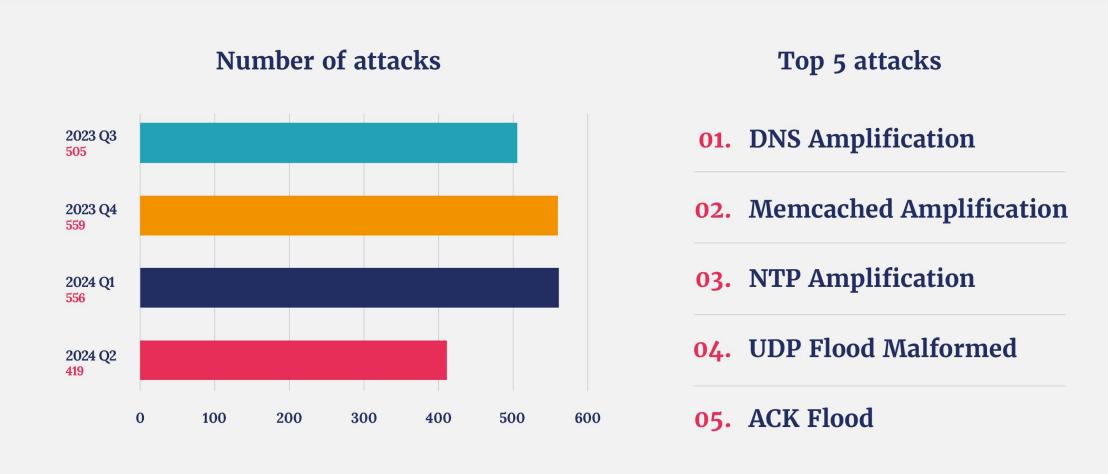
4.6



Maximum attack size:

 $353\,\mathrm{Gbps}$

DDoS attack statistics in the second quarter 2024



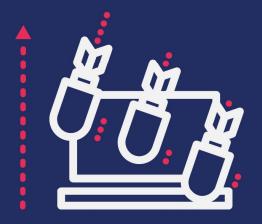
Trends DDoS attack statistics in the second quarter 2024







Attacks targeting network infrastructure on the rise



The number of attacks with very high packets per second (pps) rates is growing

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

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

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in The Netherlands and Europe have been targeted

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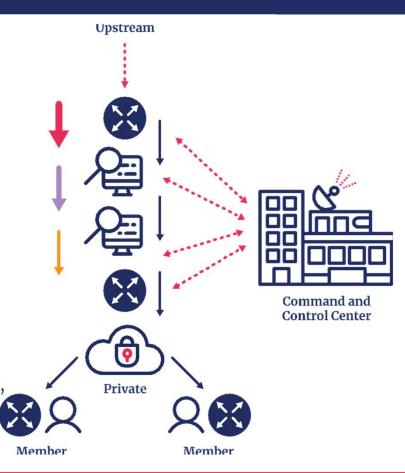
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NaWas



- 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



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R&D NaWas

- DDoS Detection as a Service (DaaS) future
- Web Application Firewall (WAF-dp) future
- GRE tunneling for clean traffic delivery future
- Clearing House (Anti-DDoS coalition) in operation since April 2024
- DDoS Pattern Recognition generate filter rules (Dissector) - in operation as part of Clearing House

