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NBIP NaWas

How a joint effort approach is efficiently fighting DDoS attacks in
the NL cyberspace

05/07/2018

Who we are

Who we are

Sector initiative started in 2002

- Lawful Interception (LI) compliancy solution for the lawful interception Act (the NL Telecommunications Act)
- Smarter together
- Independent not-for-profit foundation

DDoS attacks increasingly
complex after 2013

Where to start?

Anti DDoS protection

One anti DDoS solution

- Detect
- Mitigate
- Analyse and Report

NaWas (Nationale Wasstraat) in 2014 is a NBIP initiative.

- The NaWas is able to mitigate any DDoS attack
- Available as a service.
- Cooperative model

2018 and beyond

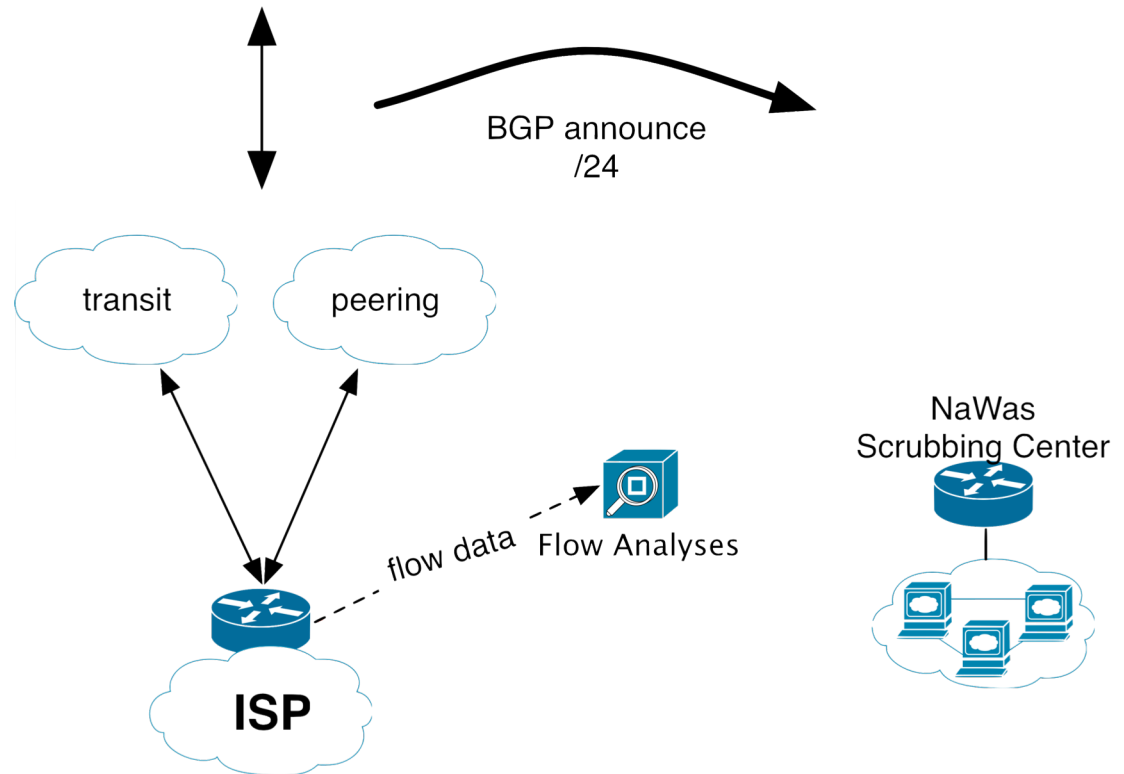
- Continuity services for AS owners with their own solution in place
- 2nd scrubbing center operational in fall 2018
- Distributed model
- First European members
- Mature services compliant with all (Privacy) european demands

DDoS detection

- by the customer
- flood
- application attack

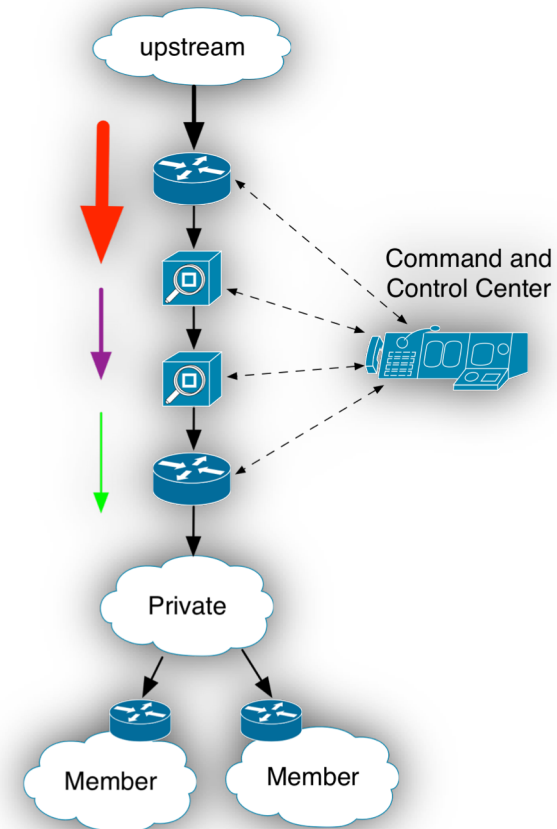
DDoS Defender

- thresholds
- type of traffic
- flowdata
- packets



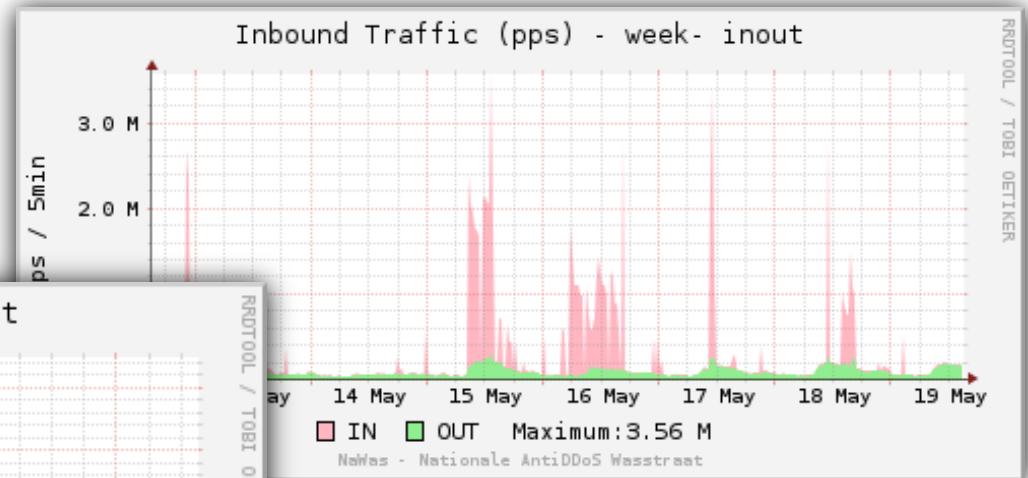
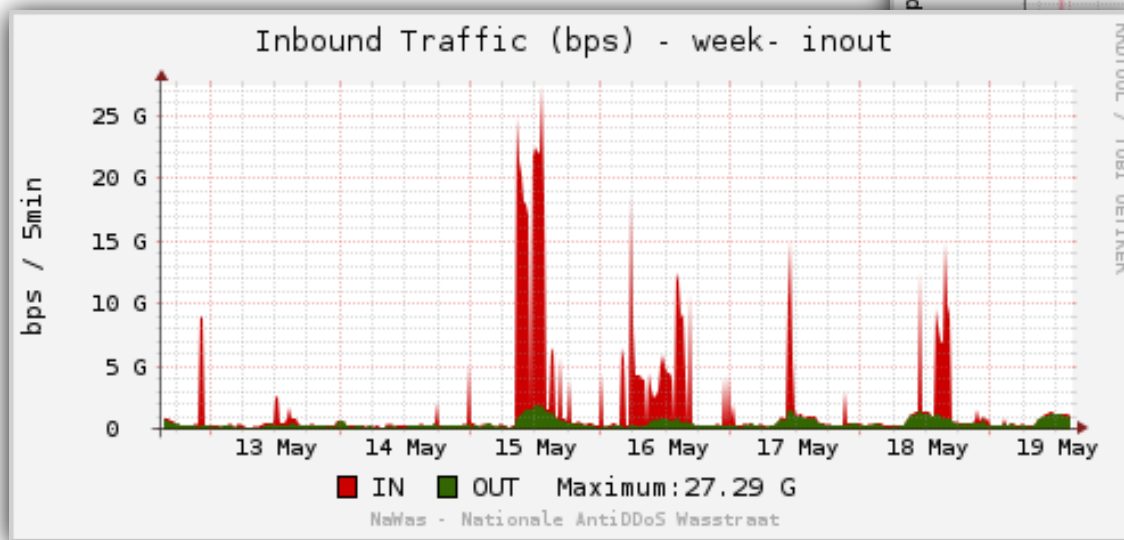
DDoS mitigation

- BGP advertisement of more specific prefix
- multiple devices
- UDP, TCP, floods, application layer

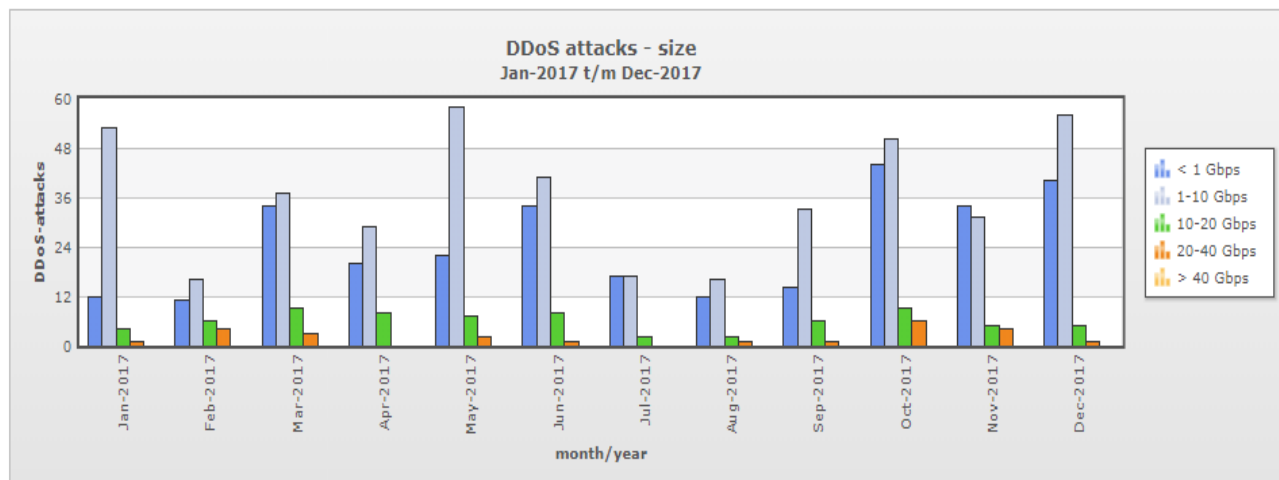


DDoS mitigation

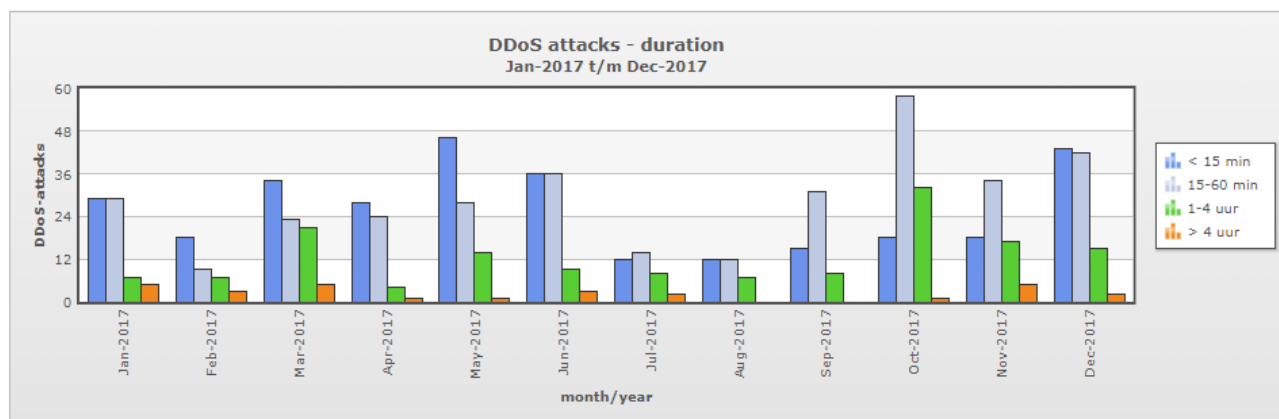
An ordinary week



DDoS 2017 Facts and figures (1)

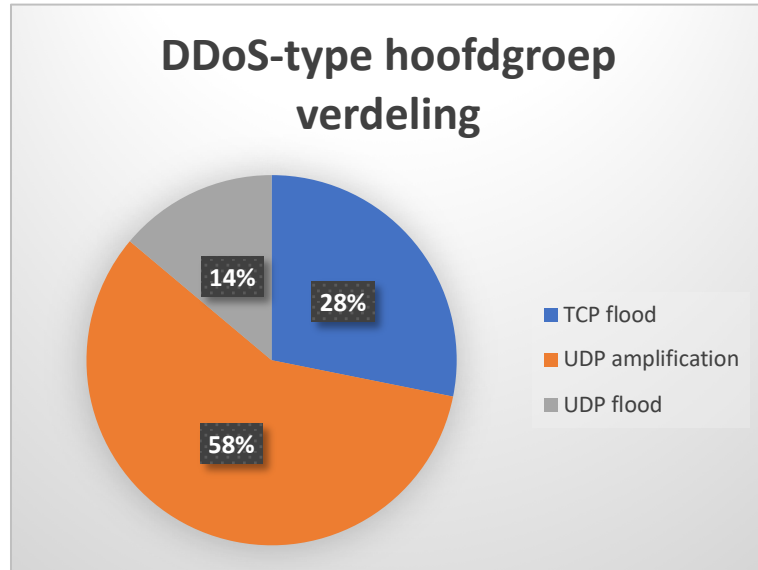


- Most attacks between 1 and 10 Gbps
- Average of 3 attacks a day

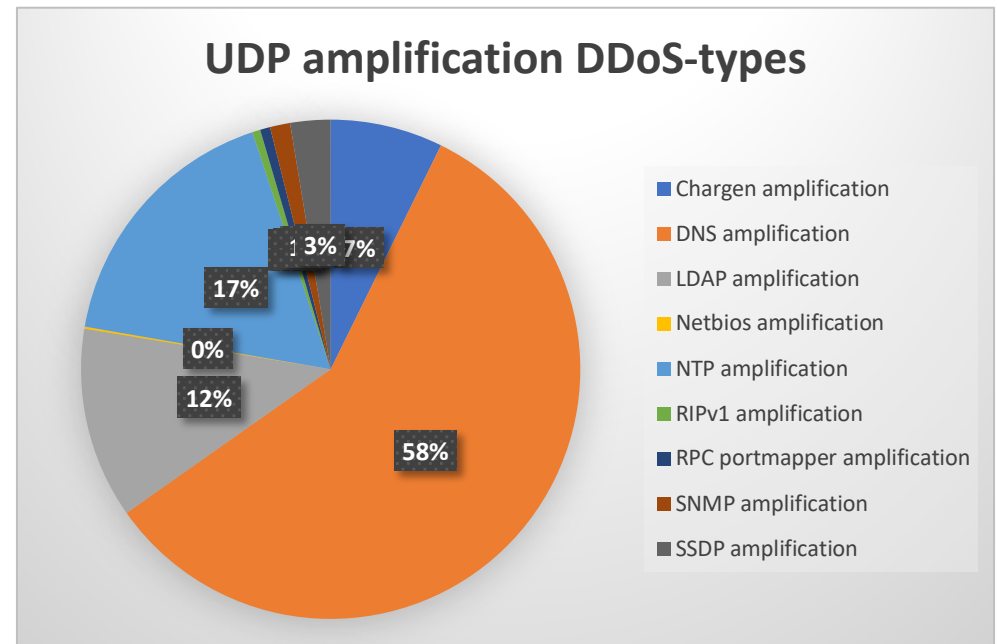


- Most of the attacks < 60 minutes
- Few attacks of 4 hours (longest attack= 23 hours)

DDoS 2017 facts and figures (2)



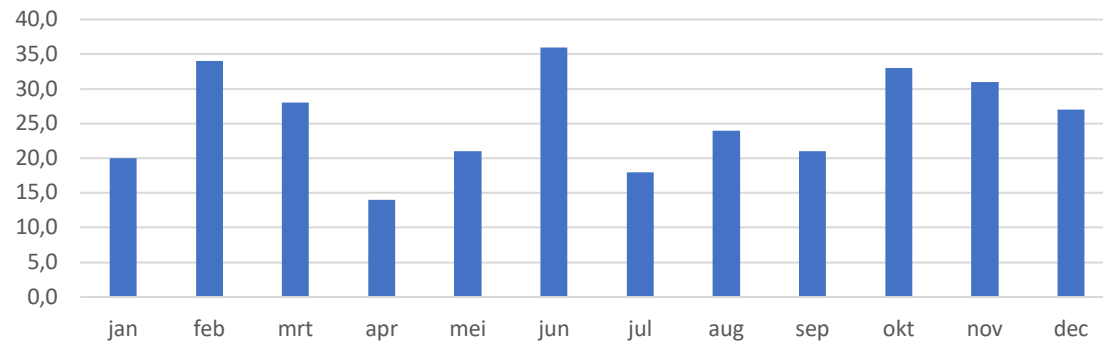
UDP amplification is the most “popular” attack



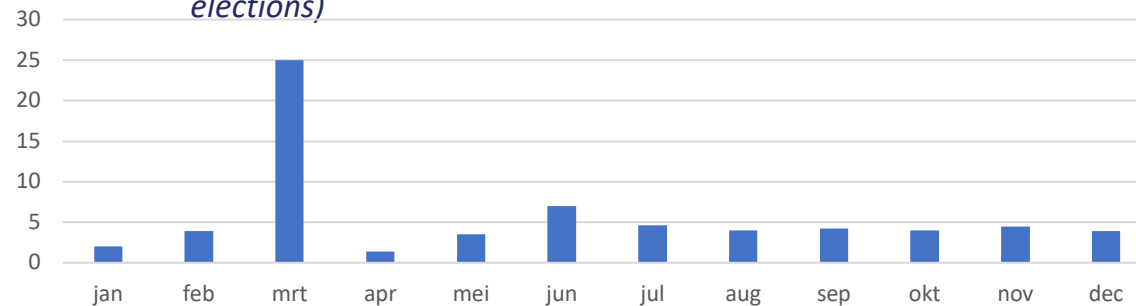
UDP amplification through DNS

DDoS 2017 facts and figures (3)

Max Gbps per maand

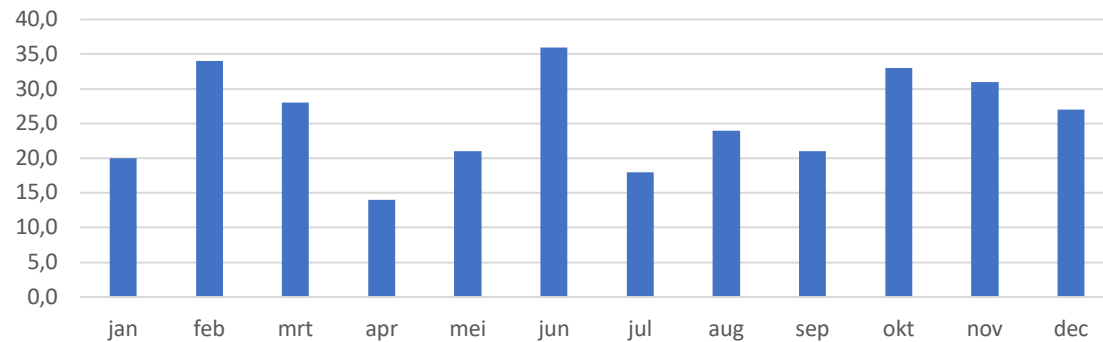


(march 2017 elections) Max Mpps per maand



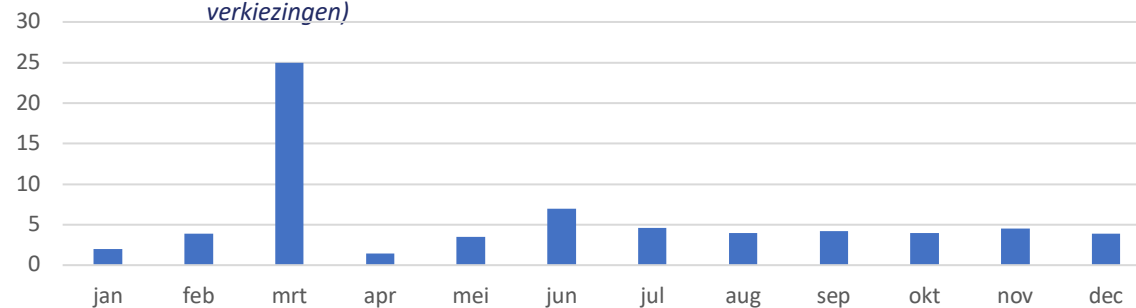
DDoS 2017 facts and figures (3)

Max Gbps per maand



*(maart 2017
tweede kamer
verkiezingen)*

Max Mpps per maand



Anti DDoS facts and figures 2017

Register to get the full 2017 report

<https://www.nbip.nl/2018/04/21/trends-and-figures-of-2017/>

Knowledge Sharing

R&D projects together with Universities
<https://www.ddos-patterns.net>

Succes keys

- (Vendor) independent
- Protection as a service
- Share the knowledge
- Connect everybody
- Trusted party



Together.
Smarter and stronger