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

05/07/2018
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

Who we are

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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

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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

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DDoS mitigation

An ordinary week
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)
UDP amplification is the most “popular” attack
DDoS 2017 facts and figures (3)
DDoS 2017 facts and figures (3)

**Max Gbps per maand**

**Max Mpps per maand**

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Register to get the full 2017 report

Knowledge Sharing

R&D projects together with Universities
https://www.ddos-patterns.net
• (Vendor) independent
• Protection as a service
• Share the knowledge
• Connect everybody
• Trusted party
Together.
Smarter and stronger