CONCORDIA

Cyber security cOmpeteNCe fOr Research anD InnovAtion

Welcome to the First CONCORDIA Workshop on Collaborative DDoS Mitigation!

Cristian Hesselman
(SIDN Labs and University of Twente)

Sep 12, 2022

Net binnen   Algemeen   **Economie**   **Sport**   **Tech**   Media en Cultuur   Achterklap

Dinsdag 13 september 2022 | Het laatste nieuws het eerst op NU.nl

DigiD was urenlang beperkt beschikbaar vanwege ddos-aanvallen

12 sep 2022 om 20:29 | Update: 11 uur geleden   Lees 211 reacties

DigiD was maandagavond urenlang beperkt beschikbaar vanwege een storing. De website werd geteisterd door ddos-aanvallen. Veel gebruikers konden daardoor niet inloggen op verschillende overheidswebsites. Aan het einde van de avond was het probleem opgelost en kon iedereen weer inloggen.

Background: a tale of two initiatives

https://www.concordia-h2020.eu/

- **Use-inspired basic research**
- DDoS clearing house testbed
- Pilots in the Netherlands and Italy
- DDoS clearing house cookbook

2019-2022

Anti-DDoS-Coalitie
No More DDoS

https://www.nomoreddos.org/en/

- **Use** the DDoS clearing house
- Large-scale multi-party DDoS drills
- Sharing of operational experience
- Operational organization

2018 →

CONCORDIA research team

Dutch Anti-DDoS Coalition (NL-ADC)

Today's objective

- Discuss advancements in and bottlenecks of collaborative DDoS mitigation, strengthen the community around this topic

- Targeted results
  - Blog summarizing the topics discussed at the workshop
  - Strengthened community through discussions and networking

- Target audience: operations, research, regulation, legal experts

Main agenda items

- Overview of CONCORDIA and collaborative DDoS mitigation

- Outline state of play through talks on three major building blocks:
    - DDoS handling strategies (Cloudflare, University of Twente)
    - DDoS measurements (DE-CIX, University of Twente, CONCORDIA)
    - Sharing of DDoS metadata (DE-CIX, CONCORDIA)

- New insights and future work through a panel, networking, and talks

Detailed agenda

Time	Topic/activity
09:00	Drop in, coffee
09:30	Opening (Cristian Hesselman, SIDN Labs)
09:40	CONCORDIA introduction (Christos Papachristos, FORTH)
10:10	Collaborative DDoS mitigation and the DDoS Clearing house (Thijs van den Hout, SIDN Labs)
10:30	**Coffee break**
11:00	DDoS mitigation at Cloudflare (dr. Wouter de Vries, Cloudflare)
11:45	Anycast Agility: Network Playbooks to Fight DDoS (Leandro Bertholdo, University of Twente)
12:30	**Lunch break**
13:30	United We Stand: Collaborative Detection and Mitigation of Amplification DDoS Attacks at Scale (dr. Daniel Wagner, DE-CIX)
14:15	Panel: collaborative DDoS mitigation – where are we now and the way forward Panelists: Jan-Paul Dekker (NL-ix), Karl Lovink (Dutch Tax and Customs Administration), dr. Wouter de Vries (Cloudflare), dr. Lili Nemec Zlatolas (University of Maribor)
15:00	**Coffee break**
15:30	Discussion of main takeaways
16:00	Closing (Cristian Hesselman, SIDN Labs)

Virtual post-it board thru menti.com

- You can post all day: questions, suggestions, future work, etc.

- We'll go through your thoughts at the end of the workshop

- Also input for the blog that summarizes the workshop

menti.com code: 66 82 47 5

Pictures and social media

- Mattijs will be taking pictures, mostly from the back of the room
  - We'll use a few of them for the blog + to report back to CONCORDIA
  - Let us know if you don't want to be on them

- If you want to tweet about the workshop, we suggest keywords like:
  - #DDoS
  - #collaborative
  - @concordiah2020
  - @nomoreddos

Internet access

Network: Jongerius_Kantoor Gast

Password: welkombijjongerius

Contact

Research Institute CODE
Carl-Wery-Straße 22
81739 Munich
Germany

contact@concordia-h2020.eu

Follow us

www.concordia-h2020.eu

www.twitter.com/concordiah2020

www.facebook.com/concordia.eu

www.linkedin.com/in/concordia-h2020

www.youtube.com/concordiah2020