

Security Day @TNC22

17 June 2022



Agenda

10:10	→ 10:40	Update on what you can get out of the security workpackage tooling options.	🕒 30m	
		Open Space introductions and gathering your input. Speakers: David Heed, Jochen Schoenfelder		
10:40	→ 11:00	Coffee break	🕒 20m	
11:00	→ 12:30	Open Space, Various topics based upon your input.	🕒 1h 30m	
		Speakers: David Heed, Jochen Schoenfelder		
12:30	→ 14:00	Lunch break	🕒 1h 30m	
14:00	→ 15:30	WISE community meeting	🕒 1h 30m	
		Updates and discussions on security in e-infrastructures Speaker: David Kelsey		
15:30	→ 16:00	Coffee break	🕒 30m	
16:00	→ 17:00	e-Health security and privacy panel	🕒 1h	
		Discuss security and privacy subjects for e-Health with an international panel of experts Co-organised with TF-eHealth Speaker: Mario Reale (GEANT)		

Agenda



Overview of products and services and other activities from the security work package.

What can you get now and collaborate on.

A reminder... please suggest topics for the Open Space



WEB

- 1 Connect to www.wooclap.com/SECDAY22
- 2 You can participate

Baseline & BCM report

Security baseline offers 3 maturity levels to aim to

- 1 is for starters, 2 advanced, 3 is where we all want to be
- get points within the assessment sheet, and see how you stand

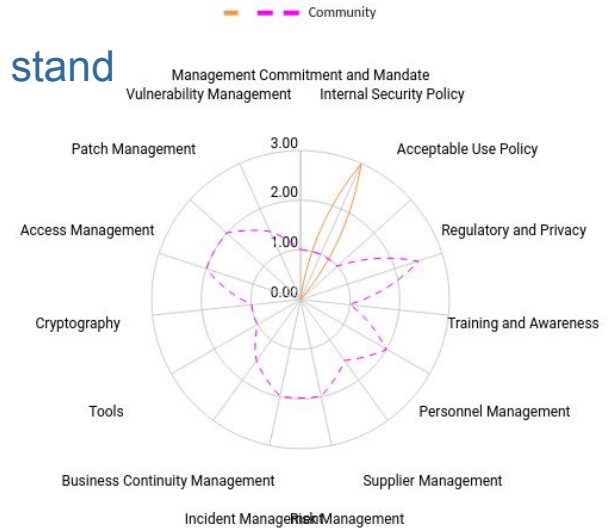
Assessment sheet is available:

- <https://security.geant.org/baseline/>

Additional resources upon request

Contact if you want to know more:

- michael.schmidt@lrz.de



Claw

What is this about?

- Learning how to deal with and prepare for crises!

Who is this for?

- All the people in an NREN that might have to deal with a crisis one day.
- So: NOC, Communications, CSIRT, Management, Service Owners..
- it's not for you if you will never ever have any crisis whatsoever!

Where can I book a CLAWS training?

- Via Indico: <https://events.geant.org/event/1193/>
- everyone from a member organisation can book this

What does it cost?

- There is no fee to attend, your organisation just needs to approve your time and travel

Who shall I contact if I want to know more?

- Charlie van Genuchten , charlie.vangenuchten@surf.nl

Training materials

A lot of trainings have been done

- IT Forensics for System administrators I+II, Vulnerability Management, DDoS protection, Client Privacy & Security, Operational Network Security
- more details & video recordings: <https://security.geant.org/training/>

More trainings to come

- see GN5-1

Material for a CTF-like Self Online Practical Training is available on the wiki

- contact if you need direction or access

Contact point

- Sarunas Grigaliunas sarunas@litnet.it

Products and services from the work package

- ❑ Firewall on demand
- ❑ eduVPN
- ❑ Vulnerability assessment
- ❑ NeMo DDoS
- ❑ SOC-tools

Firewall on demand

There is a GÉANT FoD installation:

- Self-service for injecting BGP FlowSpec rules on the GEANT routers
- no need to contact the GEANT NOC admins for the particular mitigations
- access to per 5 min statistics (dropped packets/bytes)

how do I get access?

- ask partner-relations@geant.net for GÉANT FoD access

For local installations:

- router hw needed with BGP FlowSpec + FlowSpec-specific NETCONF YANG model
- server / VM for FoD: e.g. with 8GB RAM, 1 CPU, 10GB disk space

Contact points:

- gn4-3-wp8-fod@lists.geant.org / fod@lists.geant.org

eduVPN

Who can deploy it?

- institutions / universities for remote VPN access
- NRENs for secure Internet access

How to join:

- <https://www.eduvpn.org/join/>

eduVPN 3.0 was released some weeks ago:

- lot's of improvements for stability, redundancy and code simplification
- WireGuard now is supported alongside OpenVPN

eduVPN

Adaption:

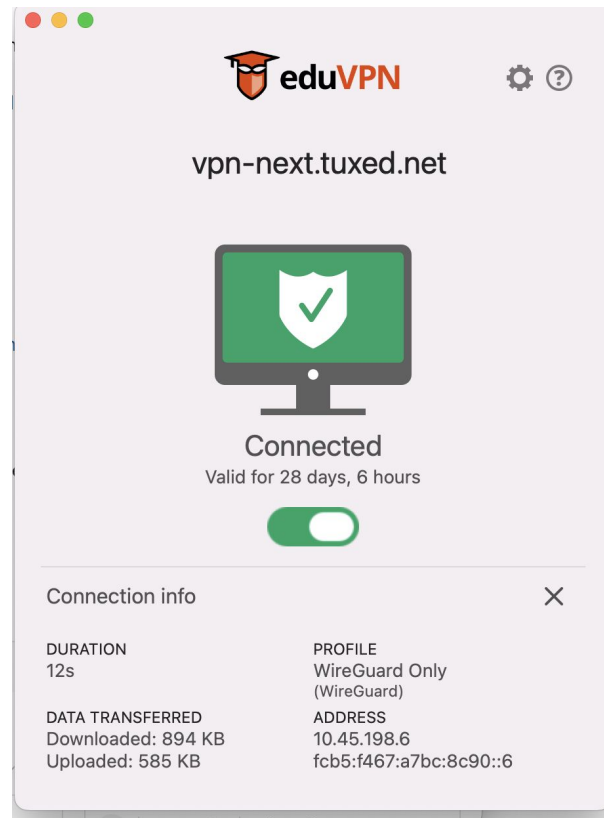
- over 110 universities / institutions
- 17 country servers

Future plans:

- pre-provisioning: start the VPN ahead of the user session

More information:

- eduvpn-support@lists.geant.org
- Tangui Coulouarn: tacou@dtu.dk



Vulnerability assessment

Open Source version / Pilot system

Online platform based on OpenVAS

External scanner (hosted at SUNET)

Published as a service provider with GÉANT

Additional feed from Holm security will be automatically updated for service

Source code of contribution/fork:

<https://gitlab.geant.org/vulnerabilityassessment>

Commercial service

Procurement open for bidding at this moment

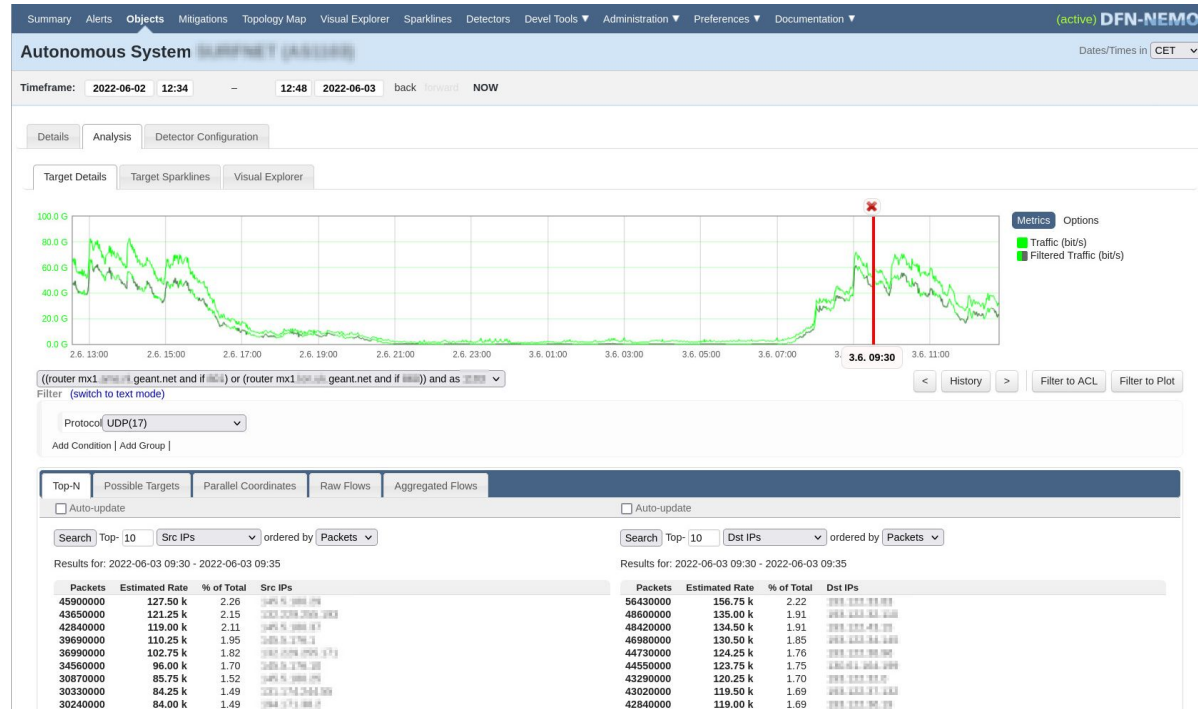
Evaluation weights:

- Scanning capability excellence 15%
- Scanning control excellence 10%
- Feeds, quality and dashboard 10%
- Community contribution 15%
- Price 50%

Contact point: david@sunet.se

DDoS

- NeMo-DDoS is available for download as a full featured DDoS detection system
- container-based fast-track installation
- comes with NetFlow / IPfix-support for standard routers out there
- install in your own network
- strong flow analysis platform



DDoS

- GÉANT installation in progress
- see your traffic!



Summary Alerts **Objects** Mitigations Topology Map Visual Explorer Sparklines Detectors Devel Tools Administration Preferences Documentation (active) DFN-NEMO

Object List Dates/Times in CET

Search Object Type (Category) **all** Object Status **Only active**

6 results

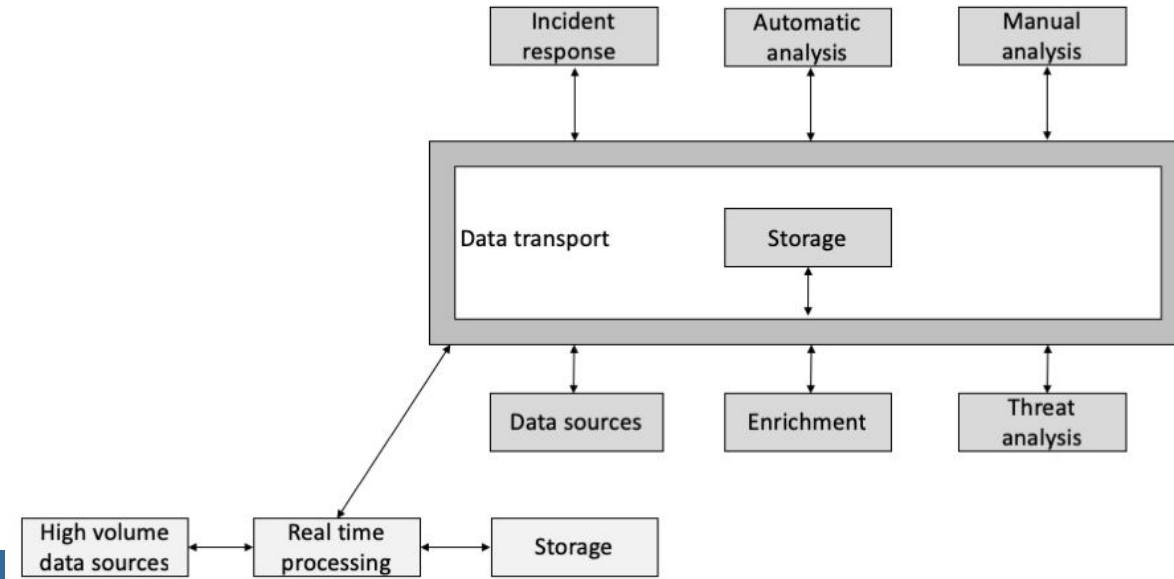
Name	Type	Category	Subcategories	Active	Last Update	Created on	Flows (24h, 30 min avg)
SRV_CLS CUSTOMER SUBNET #SUBNET-AP1-EX-0 #SRV-CLS	Line	SRV_CLS	Customer	yes	2 minutes ago	2021-12-14 13:22	
SRV_CLS CUSTOMER SUBNET #SUBNET-AP0-CL-USA-000	Line	SRV_CLS	Customer	yes	2 minutes ago	2021-12-14 13:22	
SRV_GLOBAL CUSTOMER SUBNET #SUBNET-AP1 #SRV-000	Line	SRV_GLOBAL	Customer	yes	2 minutes ago	2021-12-14 13:22	
SRV_GLOBAL CUSTOMER SUBNET #SUBNET-AP1 #SRV-000	Line	SRV_GLOBAL	Customer	yes	2 minutes ago	2021-12-14 13:22	
SRV_IAS CUSTOMER SUBNET #SUBNET-AP1-AS-LAP0 #SRV-000	Line	SRV_IAS	Customer	yes	2 minutes ago	2021-12-14 13:22	
SRV_IAS CUSTOMER SUBNET #SUBNET-AP0-AS-LAP0 #SRV-000	Line	SRV_IAS	Customer	yes	2 minutes ago	2021-12-14 13:22	

6 results (1172 total)

- Software lives on GÉANT's gitlab
- mitigation capabilities upcoming
- “satellite” setup capabilities planned
- contact points:
 - partner-relations@geant.net
 - ddos@lists.geant.org

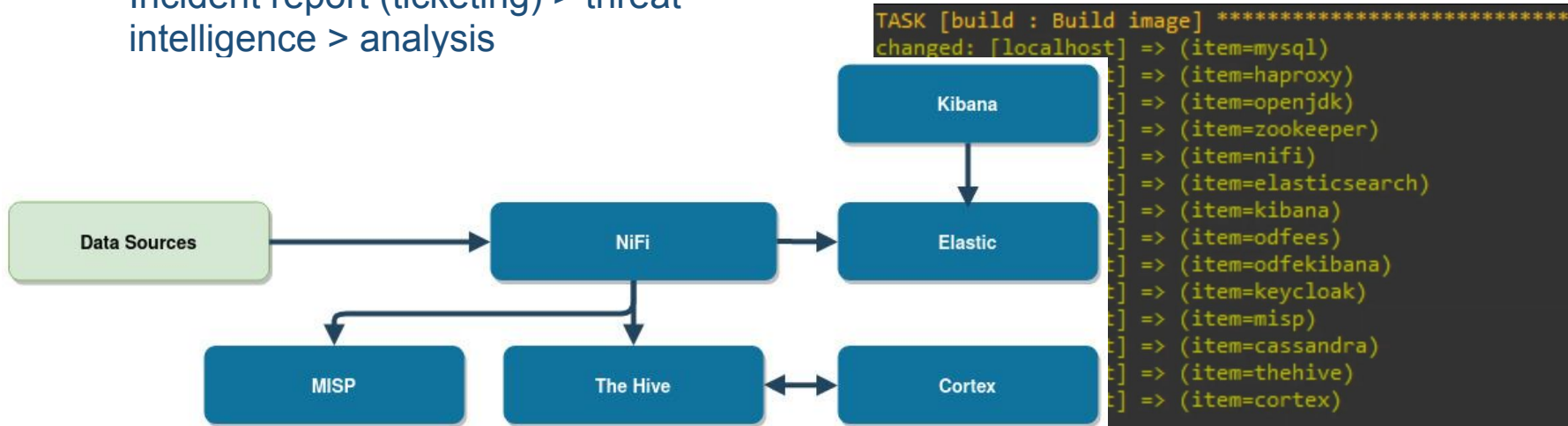
SOCTools

- a interconnected set of tools that can be used by a SOC for collecting and analysing security data, incident handling and threat intelligence



SOCTools (2)

- data > normalisation > enrichment = actionable information!
- Incident report (ticketing) > threat intelligence > analysis



SOCTools – Where to start / how to get it?

- soc-tools@lists.geant.org
- <https://gitlab.geant.org/gn4-3-wp8-t3.1-soc/soctools>
- Upcoming report (June/July):
 - “Best practices for security operations in research and education”
 - find it on GÉANT’s deliverable page
 - also to appear on: <https://security.geant.org/>

Kibana > The Hive > MISP ...

Create a new case in The Hive

Title: demo Severity: medium TLP: amber

Description: demo
--
Created from Kibana

Add observables from current query ...

- > source.ip (0/13)
- ▼ destination.ip (1/1)
 - Observable Description: Is IOC:
- ▼ host (0/0)
 - Observable Description: Is IOC:

Close Reset **Create Case**



TheHive My tasks 0 Waiting tasks 0 Alerts 0 Dashboards Search

Case # 1 - demo

Kibana User 06/18/21 14:38 a few seconds

Details Tasks 0 Observables 1 TTPs

Export

Filters
+ Add a filter

List of observables (1 of 1)

Flags	Type	Value/Filename
★ ⚙ ⌕	ip	10f,110f,110f,110

None
No reports available

< previous next > view all

Date	Org	Category	Type	Value	Tags	Galaxies	Comment	Correlate	Related Events
2021-05-10		Network activity	domain	example.evil	🔍 👤 +	🔍 👤 +		<input checked="" type="checkbox"/>	
2021-05-10		Network activity	ip-dst	10.10.10.10	🔍 👤 +	🔍 👤 +		<input checked="" type="checkbox"/>	897

< previous next > view all

Discussion

Quote Event Thread Link Code

Secure Coding Training 2022: 5th-8th September, virtually

What is it?

Training on how to develop (mainly Web) secure applications



Who organizes it?

WP9T2 + GLAD Team



When?

5-8.09 (Mon-Thu)
10:00-14:00 CEST



Where?

This year at your desk again:
a fully virtual training



How to know more?

Registration:

<https://events.geant.org/event/691/registrations/561/>

GÉANT Wiki:

<https://wiki.geant.org/display/GSD/Secure+Code+Trainin>

g

E-mail: Gerard Frankowski, PSNC: gerard@man.poznan.pl

What will be covered?



OWASP ASVS 4.0.3 areas
CI/CD and SDLC
Static analysis tools
Fuzzing tests workshop
HackMe contest

What ASVS areas?

Validation,
Sanitization and
Encoding



Data protection



Miscellaneous



19

Social event?

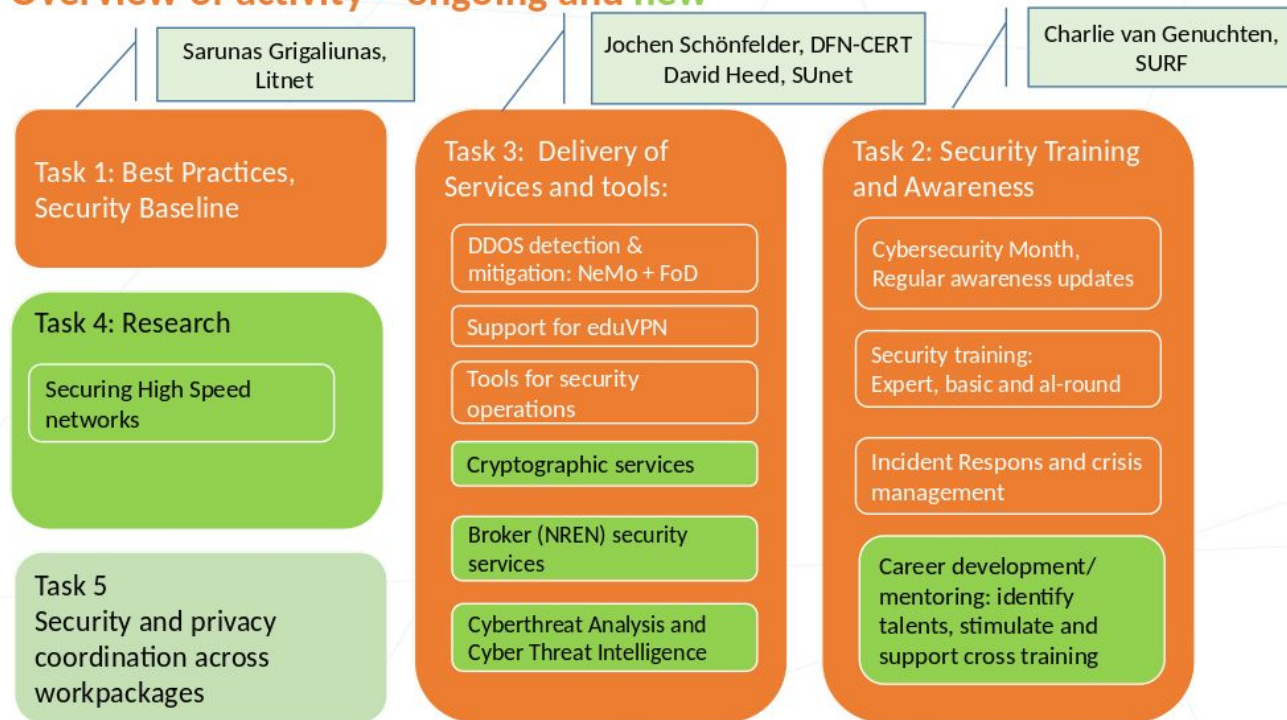


SCT 2022 is virtual but we'll have prizes (:



Future of work package



Overview of activity – ongoing and new



Open space preparations

How will Open Space work?

- Submit ideas and vote/like existing ones!
- We'll take the top topics, discussing them in serial.
 - be prepared to moderate a topic you submitted! :)
- Time range will be from coffee break till lunch
 - we'll close voting in a few, so that we can start then.



WEB

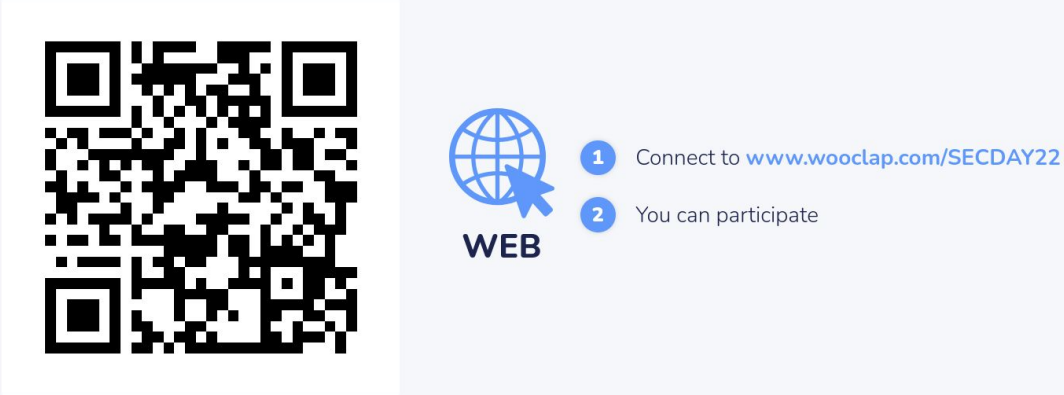
- 1 Connect to www.wooclap.com/SECDAY22
- 2 You can participate

Thank you

Any Questions?



if you haven't voted yet:



A QR code is displayed on the left side of a light blue rectangular area. To its right is a globe icon with a blue mouse cursor arrow pointing to it, and the word "WEB" in bold black text below the icon. To the right of the globe icon is a numbered list with two items:

- 1 Connect to www.wooclap.com/SECDAY22
- 2 You can participate

also: do you want to moderate one of the topics?