

SOC '22 and Beyond

GN4-3 WP8 Task 3.1 → GN5

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WP8 All Hands, 1 February 2022

Public

www.geant.org



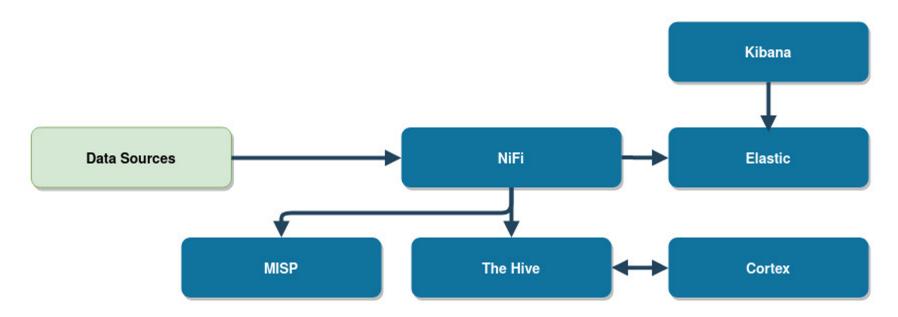
Current team:

- Temur Maisuradze GRENA
- Kiril Kjiroski MARnet
- Fredrik Pettai SUNET
- Vaclav Bartos CESNET
- Roderick Mooi GÉANT (coordination)
- Supported by:
 - David Heed SUNET
 - Jochen Schoenfelder DFN-CERT
- https://wiki.geant.org/display/gn43wp8/3.1+SOC



SOCTools, aka tools for "SOC-in-a-box"

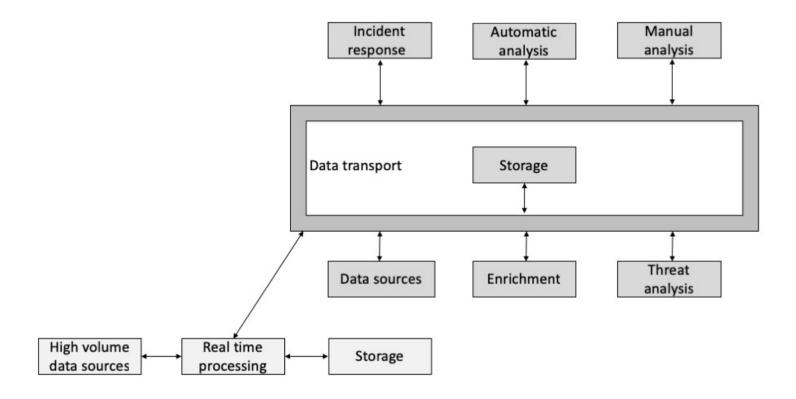
- SOCTools is a set of tools that can be used by a SOC for collecting and analysing security data, incident handling and threat intelligence
- https://gitlab.geant.org/gn4-3-wp8-t3.1-soc/soctools





Demo @ TNC21

- Logs > normalisation > enrichment
- Incident report (ticketing) > threat intel. > analysis





Demo @ TNC21

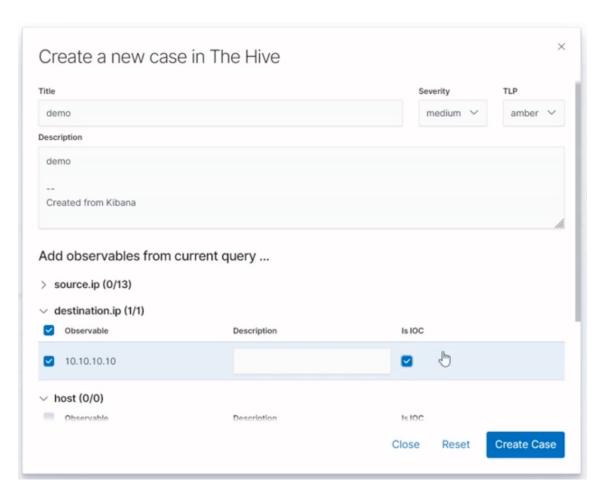
Installation and basic use

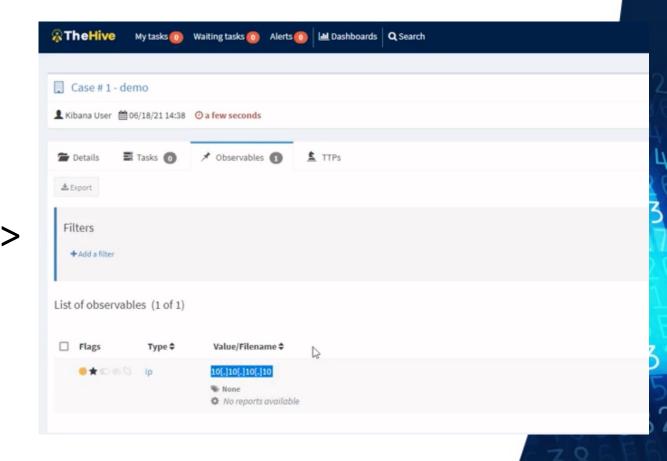


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TASK [build : Build image]
changed: [localhost] => (item=mysql)
changed: [localhost] => (item=haproxy)
changed: [localhost] => (item=openjdk)
changed: [localhost] => (item=zookeeper)
changed: [localhost] => (item=nifi)
changed: [localhost] => (item=elasticsearch)
changed: [localhost] => (item=kibana)
changed: [localhost] => (item=odfees)
changed: [localhost] => (item=odfekibana)
changed: [localhost] => (item=keycloak)
changed: [localhost] => (item=misp)
changed: [localhost] => (item=cassandra)
changed: [localhost] => (item=thehive)
changed: [localhost] => (item=cortex)
```

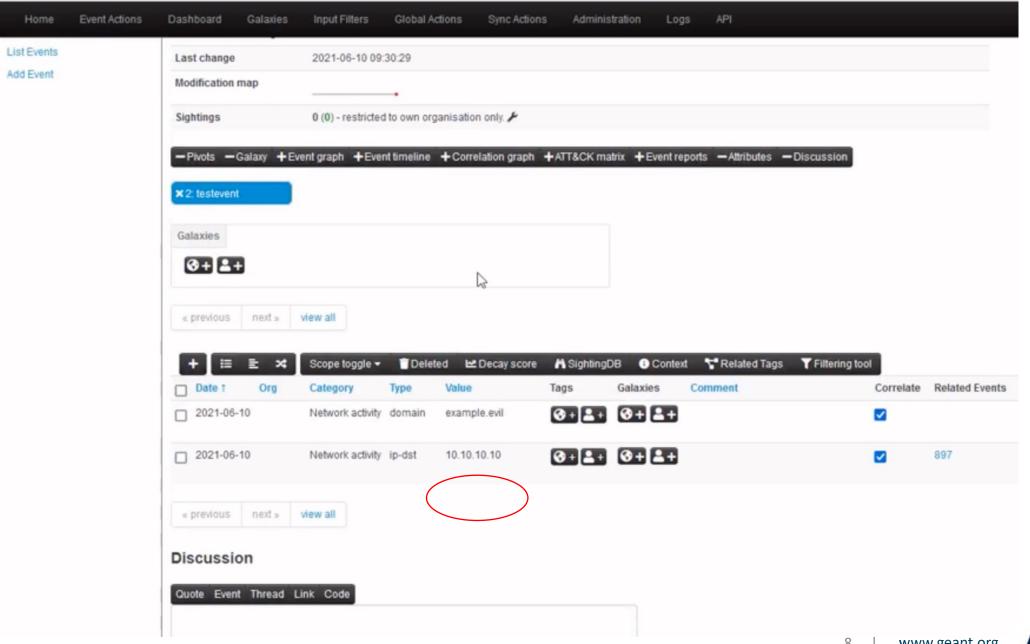


Kibana > The Hive > MISP ...











What's next?

- Cluster support > scalability
- Look into further use cases / increase adoption by NRENs, etc.
- Deliverables:
 - D8.9 Best practices for security operations in research and education
 - M8.13 Review of the best practice documents on utilisation of SOC tools
 - Final release of toolkit
- Integration with other Security projects
- Threat intelligence and information sharing



R&E intelligence sharing and threat analysis



MISP - Open Source Threat Intelligence Platform & Open Standards For Threat Information Sharing

https://www.misp-project.org/



News

New global partnership helps education sector defend against cyber attacks

25 May 2021

A new cyber security threat intelligence sharing system has been launched to help research and education organisations across the globe prevent and mitigate cyber attacks.

In response to the rise in cyber crime against the sector, particularly ransomware attacks, a global threat intelligence sharing partnership has been set up by five tertiary education and research sector security and technology bodies in the UK, US, Canada and Australia.

The partnership uses <u>MISP</u>, the open-source threat intelligence platform used worldwide by more than 6,000 organisations.



Si

Threat Intelligence Sharing Platform MISP beschikbaar: sneller en eenvoudiger dreigingsinformatie delen en inzetten binnen je instelling

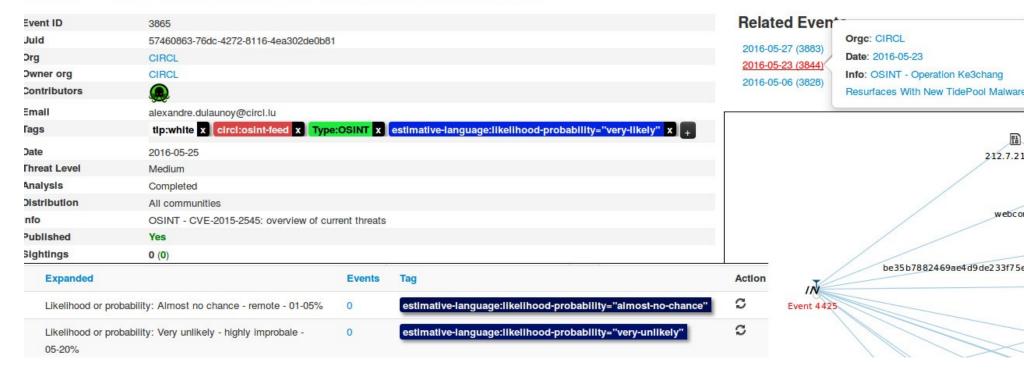
MISP is een threat intel platform waarmee je als instelling cybersecurityrisico's en -gevaren sneller kunt detecteren en dreigingsinformatie met andere instellingen kunt delen. MISP kan systemen voeden die je inzet voor het detecteren of blokkeren van Indicators of Compromise (IoC's). Instellingen kunnen kosteloos aansluiten.

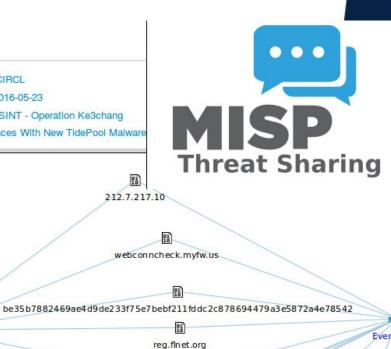
... MISP available: faster and easier sharing and deploying threat intelligence across your institution

... MISP enables you as an institution to detect cybersecurity risks and threats faster and to share threat information with other institutions. MISP can feed systems that you use to detect or block Indicators of Compromise (IoCs).



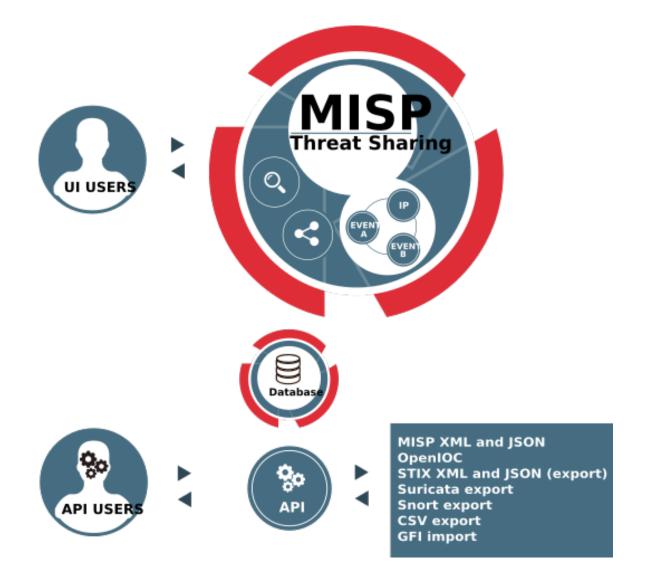
OSINT - CVE-2015-2545: overview of current threats







Analysts & Threat Hunters: please join us





What about?

- Using flow data for threat intel.
- Reports/alerts/advisories
 - Shadowserver, Team Cymru, etc.

- DNS (threat) intelligence
- Your ideas!!









Thank you

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