

Security Operations Centers WG

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SOC WG Status

- Proposed at March GDB
- Discussed in Liviu's talk at HEPiX
- e-group/collaboration website created

Context

- A need for external observability of systems & networks
- Increasing amount of security monitoring data being produced
- Identify tools available to WLCG sites of different sizes and provide appropriate guidance
- Leverage data analytics and Big Data frameworks used within our communities to provide security alerting, traceability and forensics information

Scope

- Identify data that SOCs can / should provide
 - Both in terms of sources from which the SOC ingests data as well as necessary outputs
- Identify necessary components of a SOC for typical WLCG sites of different sizes
 - Recognising that local needs will be likely to vary
- Reference designs for SOCs of different sizes which could include installation guidance or appliances

Scope

- Identify key stakeholders to be considered in the deployment of a typical SOC, including but not be limited to:
 - Local sysadmins
 - Local security teams
 - Campus security teams
 - NGL security teams/officers
 - VO Security teams
- Data protection / privacy and information sharing policies
- Timeframe for delivery (differentiated between outcomes)

Draft Mandate

Establish a clear set of required (data) inputs and outputs.

Examine current and prospective SOC projects & tools.

Create a reference design for larger sites/sites with experience with a security appliance for smaller sites/ those that wish it.

Participation

- Sites
- People

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 - Sizes
 - (T0), T1, T2 (large, medium, small/caching)
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- *People*
 - Expertise + interest!

Potential technical seed

- Intrusion Detection Systems + Threat Intelligence
 - Would provide base from which sites could build
 - Allows us to investigate sharing frameworks in parallel with real data gathering
- IDS: Bro [www.bro.org]
- Threat Intelligence: MISP [www.misp-project.org]

Timescales

- Initial timescale
- WLCG Workshop in October
- Central MISP instance + test sites
- IDS guidelines
- Bandwidth/space guidelines for different site types

Data protection/privacy

- Key note is data protection and privacy
 - Proposal: sharing only for threat intelligence with actual log data being exchanged only upon request if and when needed as part of a WLCG security incident investigation
 - Liaise with security policy group
- Vital to have input from sites with different topologies and those that share space with non-WLCG users

Next steps

- Call for participation open
- Plan to have pre GDB F2F in July

Contact details

- wlcg-soc-wg@cern.ch (open subscription with approval)
- <https://wlcg-soc-wg.web.cern.ch>
- CERNbox area (shared between e-group members)