#### WLCG Group

### A MISP instance for WLCG

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# The problem

- Malware and attacks global
  - Largely evade intrusion detection systems, filters, etc.
  - Details on most common techniques during the WLCG Workshop
- Typical WLCG/HEP/private organisation:
  - No free time or expertise to look into ongoing malicious trends
  - -Just want to know what to look for, block or investigate further
- Great amount of knowledge and expertise available
  - Security vendors, security teams, law enforcement, etc.
  - Need to collaborate
  - -CERN: contacts at other organisations our #1 IDS for many years
- "Threat intelligence" is now a key field of computer security





### **MISP**

- Main challenge: get quality/actionable "threat intelligence"
  - Involves building contacts and trust relationships
- MISP: "Malware Information Sharing Platform"
  - <a href="http://www.misp-project.org/">http://www.misp-project.org/</a>
  - Used by many security teams and security communities
  - Does not solve the trust issues This is just a tool to share data
- WLCG Security Operations Center (SOC) WG
  - Discussed this tool already
  - Several sites are actively evaluating MISP
  - GridPP seems for example well advanced!







### CERN MISP

- CERN happy to run a central MISP instance for WLCG/HEP
  - Enable sites to share or simply pull data for their own use
  - Enable direct sharing with other MISP instances
  - Share threat intelligence gathered by the CERN Security Team from other sources (when authorised)
- Two main goals:
  - Be quicker than vendors can update their tool currently
  - Share sensitive or confidential intelligence automatically
- Two ways to access the CERN MISP instance:
  - Web portal
    - Authentication by eduGAIN (with Sirtifi + R&S)
    - Authorization by e-groups
  - API access (with API key to pull data automatically)





# Quick demo





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## Key issues

- Ultimate goal:
  Bring high quality threat intelligence to all WLCG partners
  - Liaising with more infrastructures and communities
  - Reduce false positives and improve relevance
- Easy to set up a MISP instance... but then what?
  - Correlation with local logs and data non trivial
  - No easy strategy, solutions likely site-dependent
  - -We must invest more time/resources in the SOC WG
  - "Campus" security and "grid" security must work together



