

LCG/EGEE Security Service Challenge (SSC)

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Security Service Challenges

- Announced 'incident' challenges
 - Check processes are understood
 - Check the information is available
 - Check communication lines.
 - Provide a base-line for the improvement cycle
- Initial plan: simple, non-intrusive exercise
 - Can we trace a job through the system?
 - Submit a job to a target site
 - Report the 'incident' to the target site's Security Contact
 - Trace credentials used, what/where, by what route?



Security Service Challenge level 1 (SSC_1)

- A very simple beta toolkit for a non-intrusive job
- Steps of the SSC_1:
 - The job is submitted to the target site
 - After ~20 hours 'alert' is sent to the target site's Security Contact:
 - Indicating:
 - » UNIX-uid of job
 - » hostname of target
 - » the approximate time when job was active on target
 - Requesting:
 - » the Grid credentials used
 - » the IP-address of submitting UI
 - » the name of the executed binary
 - » the exact time of execution
- During the process, reporting and debriefing info is posted to the Savannah tracking tool





SSC_1 ROC Campaign, June 2005

Outline of results

- Ten EGEE Regional Operational Center sites were targeted
- Nine sites were able to accept job submission and execute the job
- Six sites reported within 1.5 working day
- Three ROCs needed a reminder before they responded
- There were seven satisfactory and two incomplete responses
- During the entire process, reporting and debriefing info has been posted to the Savannah problem tracking tool -

https://savannah.cern.ch/projects/lcg-ssc





SSC_1 ROC Campaign, June 2005

Debriefing report in brief

- Nine sites provided debriefing information at the end of the campaign
- All nine considered the exercise to have been useful and that the objectives had been met
- A few sites reported that the execution had revealed shortfalls in the setup at their sites
- Three sites offered a HowTo recipe to track the job
- An experienced team needs ~ 2 hours to extract the information
 - An off-site Resource Broker complicates matter
- The full report is available at –

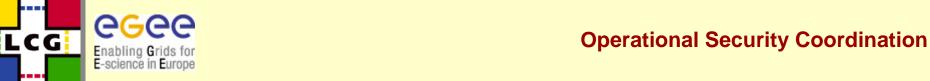
http://grid-deployment.web.cern.ch/griddeployment/ssc/DebriefRecommend.txt





SSC_1 regional campaign, November 2005

- Job submission will be controlled by each region's ROC
- Following the recommendations from the June campaign, there are a few changes:
 - A group in Savannah has been configured for the benefit of ROCs which do not have problem tracking tool in place
 - All dates and times must be expressed in UTC
 - Proactive follow-up
 - The site security contacts are asked to acknowledge receipt of alert within one working day
 - Failing the deadline, a reminder will be sent
 - Failing a new one working day deadline, the site will be contacted by phone
 - Failing an over-all deadline of 5 working days, the site's response will be marked as incomplete



The future

- Guide-line and motivation for security challenges
 - Start small and keep it simple
 - Raise awareness and exercise communication channels
- Design criteria for the SSC "Storage Element" incident
- Challenge the Security Patch Deployment
 - Need quick response to security patch deployment calls
 - 24, 48 or 72 hours ?, your input is required
 - Site monitoring tools may help assess the deployment response times
- Potential issue: Confidentiality of information
- Un-announced challenges
- Disruptive/Intrusive testing To be defined and approved
- The real thing
 - operational experience