

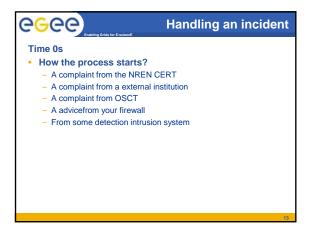




Procedures & Recommendations	
If possible try out plans as exercises	
- Modify procedures as you learn from experience	
- Security Service Challenge	
• https://twiki.cem.ch/twiki/bin/view/LCG/LCGSecurityChallenge	
Procedures and policies are alive, keep them going/reading on	
https://edms.cern.ch/document/867454	
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OCOO Insident management in	1
CGCC Incident response policy	
<ul> <li>Grid participants are bound to (at least) two different incident response policies:</li> </ul>	
Local incident response policy	
"LCG/EGEE Incident Handling and Response Guide"	
(JSPG) Base on the Open Science Grid, Approved by	
WLCG Management Board on 28th November 2005:	
<ul> <li>http://cern.ch/proj-lcg-security- docs/LCG Incident Response.asp</li> </ul>	
May apply the NREN security policy (are you directly	
connected to the NREN?) or your institution security	
policy	
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<b>PEGENTIAL</b> Incident Handling	
What is a computer incident?	]
Adverse event in information system infrastructure	
- Threat of the occurrence of adverse event	
<ul> <li>A security incident is the act of violating an explicit or implied security policy (ex: your local security policy,</li> </ul>	
EGEE Acceptable Use Policy - https://edms.cern.ch/document/428036/3).	
• What is an event?	
- Any observable occurrence in a system or network	

- Sometimes indicates an incident is occurring

esee Enabling Grids for E-science	Incident Handling
<ul> <li>What is Incident Ma</li> </ul>	nagement?
	the lifecycle of an incident
	10
e <u>e</u> ee	Incident Handling
Aims of Incident Management	gement:
<ul> <li>Restore normal service as</li> </ul>	s quickly as possible
<ul> <li>Minimize adverse impact</li> </ul>	on business
<ul> <li>Ensure no incident goes (</li> </ul>	undetected
<ul> <li>Ensure incidents are hand processess</li> </ul>	dled with consistent
<ul><li>Reduce number of incide</li></ul>	nts in time
<ul> <li>Build working relationship</li> </ul>	os across organization with
open communication	
	11
OCOO Incident resp	onse procedure for grid hosts
Enabling Grids for E-sciencE	
aimed at minimising the in	d for guidance only and is mpact of security incidents,
cooperation between the	tem analysis and promoting sites. It is based on the
	28035/LAST_RELEASED/Inci
dent_response_Guide.pdf site security contacts and	f) and is intended for Grid I site administrators.



egee Enabling Grids to	Handling an incident
NREN notifies your attempts from a	ար, local security team
Dear Sir/Madam  We have received evidence of web some servers from a machine under you will see the log as recorded in the service of the ser	r your constituency, below ne webserver logs. 40:33 +02001 "GET
"libwww-parif.5.812" 88.108.67.208 - [177.5ep/2008:21: /pki/coord/gt2007//errors.php?error- 'libwww-parif.5.812" 89.108.67.208 [177.5ep/2008:21: //errors.php?error-http://www.agro 89.108.67.208 - [177.5ep/2008:21:	http://www.agroecologia.org.br/modules/sistem.txt? HTTP/1.1* 404 - "-" 10:33 +0200] "GET cologia.org.br/modules/sistem.txt? HTTP/1.1* 404 - "-" "libwww-pet/5.812" 10:33 +0200] "GET
89.108.67.208 [17/Sep/2008:21: /pki/coord//errors.php?error=http://w perl/5.812* 89.108.67.208 [17/Sep/2008:21:	www.agroecologia.org.br/modules/sistem.txt? HTTP/1.1" 404 - "-" "libwww-
	current timezone is CET (GMT+1 , +2 in summer)

IREN	notifies your local security team
Asunto: FRAGUE	ELROCK Disconii Disconnect 193.147 222.244
Estimados Srs.,	es envierros informacion sobre la maquina 193.147.222.244, baio su responsabilidad.
Un saludo, IRIS-CERT	и вплитов инотнасоп коле в тидате 110.147.22.244, сир во перопавления.
Sensor: Fraguetr Alarm Time: 02/0	Total allames 4 -0-0
Date flow start 2008-09-02 08:2	Duration Proto Sirc IP Addr Port Dat IP Addr Port Packets Bytes Flows 4:00.836 277:694 TCP 193:147.222:244:0 -> 0.0.0.023593 389 24436 389
Date flow start	Dept.   Dept





Enabling Orids for E-sciencE	HIL
Time 1s	
What to do now?	
<ul> <li>Don't get stressed &amp; Calm down</li> </ul>	
<ul> <li>Take your security plan, it's time to use it</li> </ul>	
<ul> <li>Inform your local security team and your ROC Security Contact</li> </ul>	ct
<ul> <li>No needed a long mail with too deep explanations</li> </ul>	
<ul> <li>Just tell them what it's going on</li> </ul>	
<ul> <li>Logs/information/evidences you did gather/receive</li> </ul>	
<ul> <li>Actions you did take before sending the message</li> </ul>	
<ul> <li>Very important the timing</li> </ul>	

esce Enabling Grids for E-so	Handling an incident
Time 2s  • Take some actions	
security contact  Review carefully the	•
<ul> <li>Reject a false pos</li> <li>To know the malic</li> <li>To get the timing</li> </ul>	cious activity
to confirm and then	curity team and your ROC Security Contact announce the incident to all the sites via
project-egee-securit  - Alert to the VO Man  - Notify the responsib	nager
	19
0000	
Enabling Grids for Esch	Handling an incident
Time 3s  - Contain the problem	n
<ul> <li>Isolate the machin</li> </ul>	ne from the network
	OFF or RESET the host
<ul> <li>If appropriate:</li> <li>Report a down</li> </ul>	vntime for the affected hosts on the GOCDB
I	EE broadcast announcing the downtime for the
<ul> <li>Use "Security</li> </ul>	y operations in progress" as the reason with no
	tail both for the broadcast and the GOCDB.  Jobs and killing them
<ul> <li>Suspending the us</li> </ul>	
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eeee Enabling Grids for E-sc	Handling an incident
Time 4s	
<ul> <li>Perform appropriate for actions</li> </ul>	rensics and take necessary corrective
<ul> <li>If needed, seek for I</li> </ul>	help from your local security team or from your eact or from project-security-support@cern.ch
<ul> <li>Analysis of network</li> </ul>	
<ul> <li>Analysis of the subr</li> </ul>	
files or evidence the project-egee-securi	ditional reports containing suspicious patterns, at may be of use to other Grid participants to <u>ity-contacts@cern.ch</u> . NEVER send potentially in (hosts, IP addresses, usernames) without
	r local security team and/or your ROC Security



- Send an EGEE broadcast, if needed
- Update the GOCDB
- Service documentation and procedures to prevent recurrence as necessary.



## Handling an incident

- Lesson learned
- The warning came through the appropriated channels
  - Do you keep updated your contact information?
  - Was your procedure enough accurate for giving a quick and good answer?
  - Were your actions enough for containing the problem?
- Coordinate with your local security team and your ROC Security Contact to send an incident closure report within 1 month following the incident, to all the sites via project-egee-security-contacts@cern.ch, including lessons learnt and resolution.

