# **IRTF** updated

#### Leif Nixon

NDGF security officer, EGI CSIRT

September 19, 2011



- Approximately 8–12 incidents (depending on how you count)
- 15 vulnerability advisories issued
  - 3 critical
  - 7 high
  - 4 moderate
  - 1 low

# Incident causes

EGI-20110809-01	NO	stolen ssh credentials
EGI-20110713-01	CA	stolen ssh credentials
EGI-20110418-01	IN	stolen ssh credentials
EGI-20110301-01	FR	bruteforce ssh
EGI-20110121	ES	web server misconfig
EGI-20111201-01	PK	bruteforce ssh
EGI-20101018-01	IT	bruteforce ssh
EGI-20100929-01	FI, DK	stolen ssh credentials
EGI-20100722	IT	bruteforce ssh
EGI-20100707-01	CERN, CA	stolen ssh credentials/
		remote vulns in CMSes
EGEE-20091204	CH, DK, PL,	stolen ssh credentials/
	DE, NL, BE	remote X keyboard sniffing
GRID-SEC-001	Most of known world	stolen ssh credentials

### Incident causes

EGI-20110809-01	NO	stolen ssh credentials
EGI-20110713-01	CA	stolen ssh credentials
EGI-20110418-01	IN	stolen ssh credentials
EGI-20110301-01	FR	bruteforce ssh
EGI-20110121	ES	web server misconfig
EGI-20111201-01	РК	bruteforce ssh
EGI-20101018-01	IT	bruteforce ssh
EGI-20100929-01	FI, DK	stolen ssh credentials
EGI-20100722	IT	bruteforce ssh
EGI-20100707-01	CERN, CA	stolen ssh credentials/
		remote vulns in CMSes
EGEE-20091204	CH, DK, PL,	stolen ssh credentials/
	DE, NL, BE	remote X keyboard sniffing
GRID-SEC-001	Most of known world	stolen ssh credentials

0 incidents related to grid middleware!

11 of 12 incidents are due to defeating ssh authentication.

Passwords – stolen, reused by users across sites SSH keys – stolen, can't be revoked One-time passwords – RSA hack Certificates – Comodo and DigiNotar incidents "To reassess the implementation of the grid infrastructures that we use in the light of the experience with LHC data, and technology evolution, but never forgetting the important successes and lessons, and ensuring that any evolution does not disrupt our successful operation."

# **Technical Evolution Group**

Security Technical Working Group

- Should review risk analysis what are the real threats now? Where should we focus?
- Is the trust model still appropriate?
  - E.g. can we siplify the "glexec" issue?
- X509/VOMS/IGTF have been essential in having a world-wide use of resources
- But there are problems associated with proxies
- Can/should other federated ID management systems be integrated?

# **Technical Evolution Group**

Security Technical Working Group

Probable outcome: more holistic perspective on site security.

- Lots of traction
- Can improve user experience wrt X.509
- Possible to revoked compromised credentials!

But what happens when an IdP gets compromised?

# One thing is certain

We won't be going out of business.