Coordinating Operational Security in EGI (and EOSC)

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EGI – A truly distributed infrastructure

https://goc.egi.eu/portal/

Possible approaches to security

Centrally managed vs. Federated

- Central mandating of policies
- Central security/IR

- Autonomous members
- Federation agrees on policies
- Centrally distributed secure default configurations (ACLs) but final decision rests on member providers

EGI-CSIRT and security operations

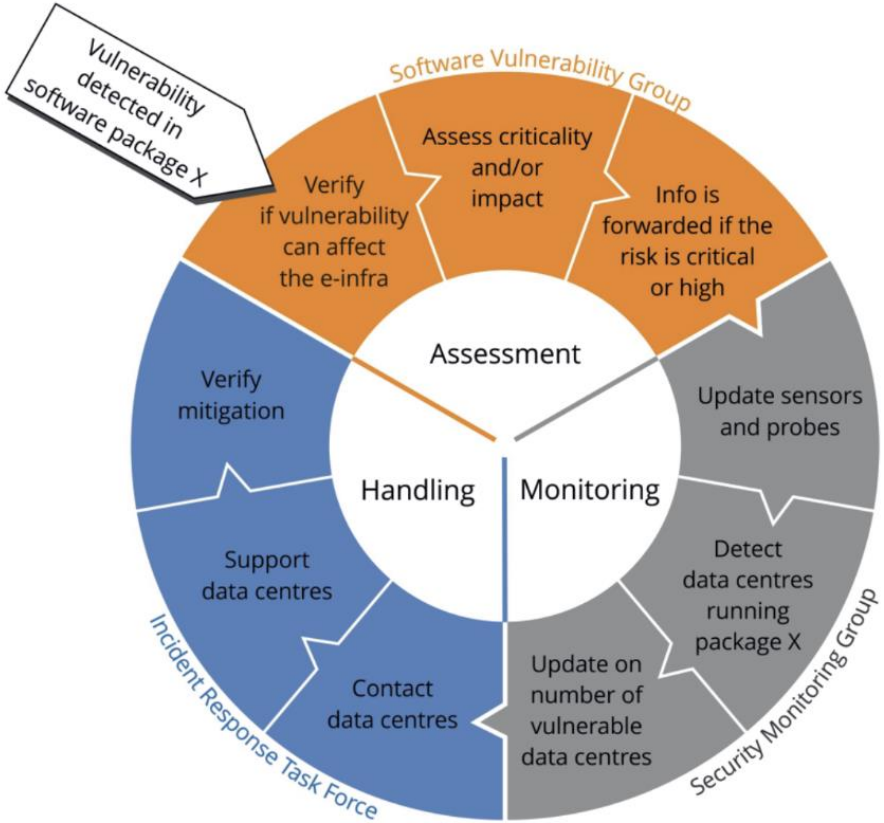
EGI providers are autonomous (final decisions/actions taken by the providers)

EGI-CSIRT and the security team provide:

- Advisories on how to deal with vulnerabilities
- Security Monitoring
- Incident Response, Forensics coordination/support
- Training, drills, vulnerability/risk assessments
- Policy development and enforcement

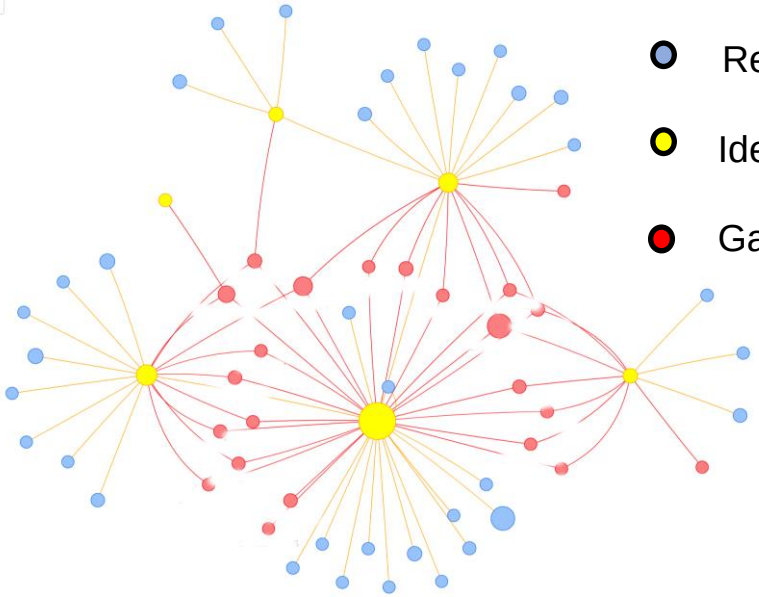
Security team can eject insecure sites from the production infrastructure

Vulnerability response within EGI



One recent incident…

Access attempted to multiple resources by same actor



- Resource
- Identity provider
- Gateway

Approach

- Increasingly complex attacks. Federated incidents require federated approach to incident response
  - Trust and collaboration as a community
  - Collective security operations/incident response
- Policies properly adhered to a necessity
- Close collaboration needed between different e-Infrastructure CSIRT teams
  - Assessed frequently by joint security exercises

Security is everyone's concern!

Thank you!

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