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Security Challenges in Distributed Environments

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The European Grid Infrastructure (EGI, <http://egi.eu/>) is a distributed environment, spanning roughly 270,000 logical CPUs, 140 PB of disk, and 130 PB of tape storage at 352 sites in 54 countries. More than 20,000 users, organised in more than 200 virtual organisations, from all over the world are currently running approximately 1.4 million jobs per day using this infrastructure.

This presentation will cover the many challenging tasks of maintaining operational security within the EGI infrastructure. The activities of the EGI CSIRT include detailed monitoring of the sites and measurement of their incident response capability, as exercised through large-scale security drills, closely simulating real-world incidents. The results of these simulations stimulated the set up of a forensics training frame work for cluster administrators and also addresses the particularities of grid technology.

The interactions with other national and infrastructure CSIRTs will also be presented.

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