



Session 4

Security in GRID Computing

Summary by
Paulo Veríssimo

Security Issues in Grid: Authentication and Authorisation

Jon Kim

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- Security in grids very much concerned with Virtual Organisations
 - use grid resources in coordinated fashion
 - Key issues:
 - Provide authentication and authorisation
 - Promote integration with existing systems and technologies

- Grid Security Requirements:

- Authentication, Delegation, Single logon
- Credential Lifespan/Renewal
- Authorisation, Confidentiality, Integrity, Privacy

- State of Play in Grid Security

- Authent and delegation; authorisation
- Grid Security Infrastructure
- Open Grid Services Architecture

- Research topics:

- Authorisation interoperability, Fine-grained authorisation

Reliability and Security: An application aware approach

Ravi Iyer et al.

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- Crash latency and severity distributions show:
 - Failures are not clean crashes: latency, control flow errors
 - Sometimes the after-failure damage impacts availability (time to restore)

- Solutions:

- Fine-grained detectors
- Detector placement strategies
- Detector semantics: value and time
- Metrics: e.g., fanout, lifetime, etc.

- Word of caution:

- Crash in this presentation does not really mean 'crash'

Security in the grid world

Carl Landwehr

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- Perspectives on a model for Grid Security
 - or
 - How Grid can put zombies out of business...
 - Or
 - Vice-versa