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Type: Oral

Grid Security: Current Status and Future Development

Tuesday 3 March 2009 11:00 (25 minutes)

We give an overview on the current status and future development of the Grid Security infrastructure. In the presentation we will adopt the user's view: how a user interacts with the security components of the grid middleware and explain the advantages and disadvantages of the current PKI-based security. In the outlook we will present current trends in the area of security and how this may impact the user in the future.

URL for further information

<http://technical.eu-egee.org/security>

Conclusions and Future Work

It is assumed that the presented material helps the user to understand where we are today in Grid security and in what direction it will evolve.

Note: there is no dedicated URL for this talk, therefore we give the generic EGEE security URL.

Keywords

security, PKI, certificates, federated identity

Impact

The impact of this presentation for the user should be:

1. bigger awareness of the mechanisms of the current Grid security infrastructure
2. better understanding of the security of the gLite middleware
3. be reminded of the biggest pitfalls
4. be aware of other security trends and how they may impact him in the future.

Detailed analysis

The focus on the current status will be on gLite, but other middlewares will be also mentioned. The presentation will explain the gLite security mechanisms for the user, in particular authentication and authorization mechanisms.

We will explain how PKI has enabled the emergence of the Grid. However, there is also agreement that in many areas improvements are necessary. The use of PKI is for many users not straightforward and certificates are hard to understand. The user may also be not aware of security implications of various actions that he performs. The talk will also contain some recommendations what users should do and what to avoid.

In the outlook we will present current developments in the area of other security models such as Federated Identity and how they may impact the Grid community from the user's point of view.

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Session Classification: Grid programming

Track Classification: Emerging Technologies within the EGEE infrastructure