



Contribution ID: 310

Type: Oral

Service to Encrypt Biological Data on Grid

Tuesday 26 September 2006 14:05 (10 minutes)

Biological data are most times published and then become public ones. They, then, do not need to be isolated or encrypted. But, in some cases, these data stemmed from patients or are analyzed with, for instance, pharmaceutical or agronomics goals. Also in simple ways, these data, before to become public, have to be kept confidential while researchers haven't been able to publish their work or to register them. So they are a lot of cases where the integrity and the confidentiality of biological data have to be protected against unauthorized accesses. But, as these private data are also large datasets, they need high-throughput computing and huge data storage to be processed, such as ones produced by complete genome projects. These requirements are enhanced in the context of a Grid, where the computing and storage resources are distributed across a large-scale platform. We have developed a distributed service to securize biological data on grid: the EncFile encrypted files management system. We have used it on the production platform of the EGEE grid project. Thus we provided grid users with a user-friendly component that doesn't require any user privileges.

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Session Classification: Life Sciences (NA4)

Track Classification: Users & Applications