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Data Management at VENUS-C

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Description of the work

VENUS-C data management solution consists of two main parts:

- CDMI-compliant (<http://cdmi.sniacloud.com/>) server that is used for bridging together a number of backends, both from the public cloud computing offerings and local infrastructures.
- Client side SDKs in several languages that allow interacting with the CDMI-server.

Apart from the basic functionality, more advanced features are foreseen: optimization of storage costs and transparent encryption of data when storing outside the domain of trust.

URL

<http://www.venus-c.eu>

Conclusions

With the advent of cloud computing there was a lot of discussion about traditional DCI model being extended or in some cases even replaced with commercial offerings. Our work builds on the evolving standards in the field of data management in clouds and aims at providing an integration solution for both DCIs and cloud providers.

Overview

VENUS-C is an FP7 project aiming at bridging together existing DCIs and commercial cloud providers to create a sustainable ecosystem for e-science applications.

One of the key aspects of this ecosystem is data management. In this talk we present our approach to managing data in a heterogeneous environment.

Impact

With our solution we aim at providing a way for applications to benefit from sustainable public cloud storage offerings while avoiding the interface-level vendor lock-in.

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