Contribution ID: **21** Type: **not specified**

HA and Virtualization team @ INFN

Wednesday, 7 November 2007 14:10 (20 minutes)

Virtualization can enhance the functionality and ease the management of current and future Grids by enabling on-demand creation of services and virtual clusters with customized environments, dynamic provisioning and policy-based resource allocation, as well as enhance high availability and load balancing techniques.
In this work, we consider the work done in the last year in different INFN sections in both fields.
We present a summary of the activity reports sent by each team.
At first we provide statistics and metrics of virtualization solutions for Tier-2 core services implemented in production; then a prototype of the use of provisioning system in a Grid data-center environment, allowing for classic OS provisioning, virtual machine partitioning, embedded monitoring and clustered configuration management; at last a prototype of higly available and load balanced Grid services on a virtualized architecture.
Most of these activities include advanced usage and customization of mostly open-source tools as Xen paravirtualizer, Nagios monitoring system, Cfengine and Puppet configuration management systems, SAN implementations through iSCSI and AoE (both software and hardware based).

Approximate Length (in minutes) (default is 15 minutes for Site Reports and 30 minutes for others, including questions)

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Session Classification: Virtualization I

Track Classification: Virtualization