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FermiCloud - A Production Science Cloud for Fermilab

Tuesday, May 22, 2012 1:30 PM (4h 45m)

FermiCloud is an Infrastructure-as-a-Service facility deployed at Fermilab based on OpenNebula that has been in production for more than a year. FermiCloud supports a variety of production services on virtual machines as well as hosting virtual machines that are used as development and integration platforms. This infrastructure has also been used as a testbed for commodity storage evaluations.

As part of the development work, an X.509 authentication plugins for OpenNebula were developed and deployed on FermiCloud. These X.509 plugins were contributed back to the OpenNebula project and were made generally available with the release of OpenNebula 3.0 in October 2011.

The FermiCloud physical infrastructure has recently been deployed across multiple physical buildings with the eventual goal of being resilient to a single building or network failure. Our current focus is the deployment of a distributed SAN with a shared and mirrored filesystem.

We will discuss the techniques being used and the progress to date as well as future plans for the project.

Student? Enter 'yes'. See <http://goo.gl/MVv53>

no

Summary

Description of FermiCloud project

Primary author: TIMM, Steven (Fermilab)

Presenter: TIMM, Steven (Fermilab)

Session Classification: Poster Session

Track Classification: Distributed Processing and Analysis on Grids and Clouds (track 3)