Early experience on using glideinWMS in the cloud

Content:
Cloud computing is steadily gaining traction both in commercial and research worlds, and there seems to be significant potential to the HEP community as well. However, most of the tools used in the HEP community are tailored to the current computing model, which is based on Grid computing.

One such tool is glideinWMS, a pilot based workload management system. In this talk we present both what code changes were needed to make it work in the cloud world, as well as what architectural problems we encountered and how we solved them. Benchmarks comparing Grid, Magellan and Amazon EC2 resources are also included.

Primary authors: Mr. SFILIGOI, Igor (UCSD) ; Mr. BRADLEY, Dan (UWMadison) ; Mr. TIRADANI, Tony (FNAL) ; Mr. WEITZEL, Derek (UNL) ; Mr. FREY, Jaime (UWMadison) ; Prof. WUERTHWEIN, Frank (UCSD) ; Dr. BOCKELMAN, Brian (UNL) ; Dr. HOLZMAN, Burt (FNAL) ; Dr. EVANS, Dave (FNAL) ; Dr. HAIFENG, Pi (UCSD) ; Mr. MARTIN, Terrence (UCSD) ; Ms. MCCREA, Alison (UCSD) ; Mr. ANDREWS, Warren (UCSD) ; Dr. FISK, Ian (FNAL) ; Mr. TANNENBAUM, Todd (UWMadison) ; Prof. LIVNY, Miron (UWMadison) ; Mr. MELO, Andrew (Vanderbilt) ; Dr. METSON, Simon (Bristol) ; Dr. SHELDON, Paul (Vanderbilt) ; Mr. DOST, Jeffrey (UCSD)

Co-authors:
Presenter: Mr. SFILIGOI, Igor (UCSD)

Session classification: --not yet classified--

Track classification: Grid and Cloud Middleware
Type: Oral Presentation