

PRAGMA 25

Working Group Report

Resources Working Group

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Agenda of breakouts

- Thursday 14:00-16:15
 - Discussion: VC sharing
 - Detailed demo by Luca and Built
 - Discussion for improvements and next steps based on insights gained through the demonstration
- Friday 11:10-12:30
 - Discussion: CI for Scientists + Establish a PRAGMA Experimental Network Testbed (ENT) Expedition
 - Joint session with Tele Science
 - Review Lifemapper scenario
 - Discussion on PRAGMA ENT
 - What and how should we do and who will be leading.
- Friday 14:00-15:30
 - Discussion: What services should PRAGMA provide?
 - How users use PRAGMA Cloud?
 - What persistent infrastructure should PRAGMA provide / use?
 - Github, Gfarm, Marketplace
 - What kind of services (data, computing, etc.) are available?

Summary of Breakout 1

- Figured out issues gained through the experiments.
 - Took long time for booting on OpenNebula. This is because of the large VM image of Lifemapper.
 - The design of pragma_boot is tightly bound to Rocks, which may not be easy for OpenNebula to follow.
 - Need to provide simple documents/manual for users so that users can understand how to use PRAGMA Cloud.
- Next steps (by PRAGMA 26)
 - Experiments by more applications.
 - Write simple document/manual.
 - Increase the stability for OpenNebula
 - Merge code on Github
 - Implement more drivers
 - AIST will do it for CloudStack
 - Will anybody do it for OpenStack?
 - UCSD for EC2?

Summary of Breakout 2

- Goal of this breakout: figure out the followings
 - ENT issues
 - Identified goals based on the proposal by Jim
 - List interested communities/people and related activities
 - GENI, APAN FITWG, NSI, IPv6
 - UF, Osaka/NAIST, UCSD, JLU, CNIC, NCHC, (AIST)
 - We should update information of PRAGMA resources and their service level.
 - People
 - Tsugawa-san, Shimojo-san, and Ichikawa-san will be co-leads.
 - Use cases
 - Lifemapper
 - SDN-enabled SAGE for visualization
 - Set schedule and milestones
 - Clarify necessary steps for joining the testbed.
Necessary hardware/software, etc.
 - Implement a use case by the driving sites.
 - BD issues
 - Use SDN for
 - Access control of restricted data.
 - Moving large quantity of data
 - avoid registration of IP addresses.

Summary of Breakout 3

- Friday 14:00-15:30
 - Discussion: What services should PRAGMA provide?
 - How users use PRAGMA Cloud?
 - Should provide documents/manuals
 - One idea is to create a video for the introduction.
 - As the first step, students present demos and record.
 - What persistent infrastructure should PRAGMA provide / use?
 - Avoid complex process of account mgmt. -> Science gateway
 - Use Github
 - Decide something about distributed storage/filesystem between now and the end of Jan.
 - Marketplace
 - » Implement access control mechanism.
 - » Develop GUI for Linux.
 - » Design shared key mechanism for using Gfarm as a backend filesystem
 - Provide information for users.
 - Renew resource information on github. Ask each site to provide and updates resource information by itself.
 - A service catalogue. Could be on github.