

HEPiX Summary

Martin Bly

HEPSysMan - RAL, June 2013

Meeting stats

- Hosts: CNAF, Bologna, Italy
- Venue: Giorgio Prodi Lecture Hall, part of the Monumental Complex of San Giovanni in Monte
- 83 registered participants: 12 Italy, 57 from rest of Europe, 8 North America, 1 Australia, 5 Asia, plus some from INFN
- 40 different institutes: 9 Italy, 20 rest of Europe, 7 North America, 3 Asia, 1 Australia
- 70 contributions in a 25.5 hour programme.
- 1 BOF session (openAFS on IPV6), plus two more informal BOFs: CMDBuild, Energy efficiency



More stats

- Tracks and trends:
 - Computing 5
 - Networking: 7
 - IT infrastructure: 21
 - Grids & Virtualisation: 5
 - Storage: 10
 - Site reports: 17
- Emerging interests:
 - log management, federations, IaaS

Some talks...

- Update on CERN Remote Hosting – Wigner Data Centre (Wayne Salter)
- Energy Efficient Data Centre in Orsay (Michel Jouvin)
- RAL power incidents (Martin Bly)
- AFS at CERN (Arne Wiebalck)
 - 180TB, 1.6 billion files, 15k clients, 50k access/sec, 74k volumes, 50 servers

- Email developments at DESY (Dirk Jahnke-Zumbusch)
 - Moving old Exchange infrastructure to Zimbra
- HS06 on recent processors (Michele Michelotto)
 - Review of roadmaps, recent benchmarks on Intel and AMD chips (E5-2660, 6272, 6378)
- Beating x86? (Piero Altoe, E4 systems)
 - Modular embedded servers

Batch

- Monitoring and Reporting for Grid Engine (DESY)
 - Work to provide tools lacking in GE (Wolfgang Friebel)
 - Dashboards and GE event correlation with Splunk (Thomas Finner)
- Optimising Platform LSF at INFN T1 (Stefano Dal Pra)

- Identity Federation in WLCG and HEP (Romain Wartel)
 - Introduction to FIM4R: Federated Identity Management for Research. Includes all sorts of science communities.
- eXtreme Scale Identity Management (XSIM) for Scientific Collaborations (Bob Cowles)
- DNS multi master architecture for High Availability services (Riccardo Veraldi)
 - Objective is to provide a resilient DNS infrastructure in the case of a disaster in any of the INFN CCs.

IaaS / Configuration

- Talks from CERN about their agile IaaS provision.
 - Update, Monitoring, HA
- Puppet at CERN
- Quattor activities update
- Survey of tools in use at HEPiX sites
 - 42 none, 16 Quattor 18 puppet, + others. Services v Configuration tools shows presence of Yaim more critical for smaller sites.

- Ceph: A scalable, organic option for Storage-as-a-Service at CERN (Arne Wiebalck)
- Scientific Linux update (Connie Sieh)
- GSI monitoring amalgamation (Christopher Huhn)
 - Interesting talk about monitoring work at GSI. Big use of Nagios, SNMP. Using Torrus to aggregate SNMP data.
- Log management with Logstash and Elasticsearch (Matteo Dessalvi)
 - Logstash and ElasticSearch and work done at GSI.

Next meetings

- Fall 2013: University of Michigan, Ann Arbor, MI, USA: October 28 – Nov 1
- Spring 2014: LAPP Annecy, France, May 19-23
- Fall 2014: Various ideas
(proposals welcome...)