



In2p3

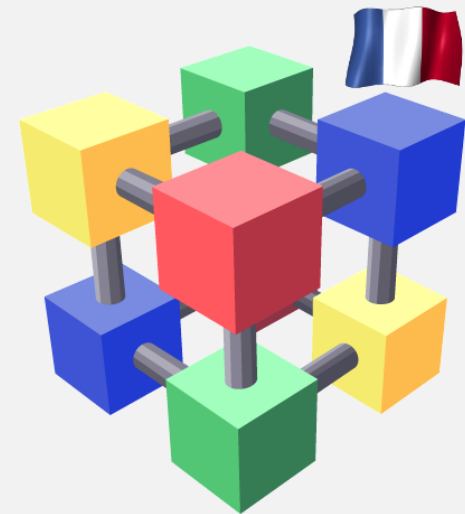


DSM

PerfSONAR deployment Overview of existing instances in France

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LCG France

Introduction

- Needs for LHC network monitoring
 - Network path to/from the storage (standard latency, bandwidth, traceroute tests) => diagnosis in case of limited performance, degradation over time...
 - Standardized monitoring infrastructure : towards a common **service** to the 4 LHC experiments
- Deployment of pS-PS driven and coordinated by WLCG
 - See Alessandra Forti's talk
 - Dedicated Task force part of WLCG Service Operations, Coordination and Commissioning
 - S. Campana (CERN), S. Mc Kee (ATLAS), M. Zielinski (CMS), S. Liu (CMS), A. Forti (Univ. of Manchester), D. Di Girolamo (CNAF)
- Sites are grouped in “regions” or “cloud”
 - Various views handled in a standard way : LHCOPN, USATLAS, LHC-FR...
 - Use of Modular dashboard (BNL) to summarize the information collected and get a region/ cloud status
 - ♦ On-going development to improve scalability
 - Currently moving to mesh configuration... to allow “central” configuration



Existing PS-PS instances in France

- perfSONAR-PS deployment within WLCG
 - 2 hosts (BW, LAT) per site
 - Site instructions: <https://twiki.cern.ch/twiki/bin/view/LCG/PerfsonarDeployment>
 - see links to dashboards from <http://netstat.in2p3.fr/>
- LHCOPN Cloud
 - CC-IN2P3 Tier-1 is part of the LHCOPN perfSONAR-PS set-up
 - <https://grid-deployment.web.cern.ch/grid-deployment/wlcg-ops/perfsonar/conf/OPNcloud.conf>
- LHC-FR Cloud
 - Intra-region tests started from Tier-2 sites indicated by ATLAS
 - CC-IN2P3-T2, GRIF (LAL, IRFU, LPNHE) , IN2P3-LAPP, IN2P3-LPC
 - and affiliated foreign Tier-2s (Beijing, Tokyo, Romanian sites : RO-02, RO-07)
 - FR ATLAS mesh configuration :
 - <https://grid-deployment.web.cern.ch/grid-deployment/wlcg-ops/perfsonar/conf/frcloud.conf>
- Next step....LHCONE Cloud : T2s to T1s tests



Additional PS-MDM instances

- CC-IN2P3
 - 2 hosts (BW, LAT) installed and configured by Dante (GEANT)
 - pilot service for LHCOPN E2E monitoring
- IRFU
 - See Frédéric Schaer's presentation
- RENATER
 - Test of PerfSONAR-MDM capabilities within LHCONE
 - RENATER LHCONE backbone monitoring
- GOAL for today :
 - More about PS-MDM : capabilities, roadmap...
 - Added-value of PS-MDM
 - Comparaison & Interoperability with PS-PS
 - ♦ Interoperability needs : mainly operational issues (central configuration, aggregation of information), not only in terms of being able to initiate tests one against the other



Existing PS instances in France

- CC-IN2P3, Lyon
 - ♦ PS-PS (3.2.2) 2 x 2
 - ♦ PS-MDM x 2
- GRIF, Ile de France
 - IRFU
 - ♦ PS-PS (3.2.2) x 2
 - ♦ PS-MDM
 - LAL/LPNHE
 - ♦ PS-PS (3.2.1) x 2
 - LPNHE
 - ♦ PS-PS (3.2.x) x 2
- LAPP, Annecy
 - ♦ PS-PS (3.2.1) x 2
- LPC, Clermont
 - ♦ PS-PS (3.2.2) x 2

