

perfSONAR deployment

Simone Campana

People involved

- In random order
 - Shawn McKee
 - Marek Zielinski
 - Si Liu
 - Stefan Roiser
 - Simone Campana
 - Mario Reale
- Good coverage of expertise for 3 experiment workflows and network/perfSONAR
 - No expertise for ALICE
- First meeting yesterday, no mailing list, this presentation are the minutes.

Current Status

- Deployment of perfSONAR
 - largely deployed in USATLAS and USCMS
 - Full mesh of links tested *within* the cloud
 - deployed in the LHC OPN
 - Full mesh of links tested
 - deployed at many other ATLAS sites
 - Full mesh of links tested *within* the cloud
 - Some inter-cloud tests
- Current methodology and configuration will not scale with more sites
 - Same link tested multiple times (by different experiments)
 - A lot of work in adding new sites to the configuration

Next Steps (I)

- Every experiment will define
 - a list of sites from where to start
 - groups priorities for links to be tested
- Example for ATLAS:
 - 3 categories of sites: OPN (T0 and T1s), T2D, T2 and T3
 - Priorities
 - Priority 1: OPN-OPN links
 - Priority 2: Tx-Tx links in the same cloud
 - Priority 3: T1-T2D links (different cloud)
 - Priority 4: T2D-T2D links (different cloud)
 - Priority 5: all other links
 - We would like to start from OPN sites and T2s which qualify as T2D.

Next Steps (II)

- We will push the deployment of the perfSONAR service at the sites
 - Start from the ones indicated by experiments
 - With a very basic configuration (like test the connectivity with “your” T1)
 - We will streamline the instructions (ATLAS and CMS instructions are very similar)
- We will validate the new “Mesh Configuration” capability of perfSONAR
 - http://www.usatlas.bnl.gov/twiki/bin/view/Projects/PerfSONAR_PS_Mesh
- We will define testing patterns (rates, number of packets, etc ..) for each of the priorities in previous slide
- We will leverage the “Mesh Configuration” to propagate the testing patterns to all sites (starting from on cloud)

Next steps (asynch)

- We need to verify the compatibility between perfSONAR flavors. Will do.
- We need to make perfSONAR a WLCG service
 - Publication in GOCDDB/OIM, basic SAM tests etc.
 - Will do, but:
 - We need to do the same in other areas (xrootd, squids)
 - Can we have a discussion all together with GOC and OIM people? A contact name, mailing list?
- We need to make sure the monitoring scales as well
 - Work going on for the BNL Dashboard
 - <http://perfsonar.racf.bnl.gov:8080/exda/>