WP4: Monitoring and Usability

J. Schovancová, T. Wenaus
Brookhaven National Laboratory

BigPanDA Workshop @ BNL, 2014-05-06

- Documentation, SVN and Git updates
- BigPanDA EC2 instance update
- BigPanDAmon dev updates
- Monitoring deployment model, instances, APIs

Documentation

- BigPanDA monitoring
  - ✔ **BigPanDAmonitoring**
  - ✔ **BigPandaHTCondorAPI**
  - ✔ **BigPanDAmonitoringEnvProd**
  - ✔ **BigPanDAmonitoringDevelopers**
- BigPanDA instance installation
  - ✔ **BigPanDAinstanceInstallation**
  - – Manual build of RPMs for bigpandamon-atlas **BigPanDARPMbuildManual**
- Issue tracking: Jira
  - ✔ **https://its.cern.ch/jira/browse/BIGPANDA**
  - ✔ **https://its.cern.ch/jira/browse/ATLASPANDA**
- Code versioning
  - ✔ SVN: updated structure of bigpandamon repositories
    - ✔ **BigPanDAmonitoringDevelopers#SVN_guidelines_for_BigPanDA_moni**
  - ✔ Git: our GitHub project is being populated
    - **https://github.com/PanDAWMS**

SVN updates, Git

- ➤ BigPanDAmon SVN restructured, prep for Git

  - Introduced the branches/devel as THE place for development

  - Documentation updates

    - ✔ SVN guidelines for BigPanDAmon devs: BigPanDAmonitoringDevelopers#SVN_guidelines_for_BigPanDA_moni

    - ✔ Manual build of RPMs for ATLAS: BigPanDARPMbuildManual

- ➤ PandaWMS GitHub project **https://github.com/PanDAWMS**

  - BigPanDAmon-core being prepared for migration

    - Aim: have -lsst and -htcondor in Github as soon as possible

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BigPanDA instance update

➢ PanDA server: panda-server-mysql-0.0.1

➢ BigPanDA monitoring: bigpandamon-core-0.0.**6**, -atlas-0.0.**7**, -lsst-0.0.1

➢ Addressed Heartbleed bug

- Successfully submitting LSST jobs to BNL opportunistic resources again

BigPanDAmon instances update

➤ ATLAS: bigpandamon-core-0.0.**6**, -atlas-0.0.**7**, -lsst-0.0.1

   – Mainly updates of ProdSys2 and JEDI monitoring

   – **http://bigpanda.cern.ch**: deployed with RPMs

   – **http://bigpanda.cern.ch/devprodsys2/**: deployed with "svn up"

➤ HTCondor

   – Attended HTCondor week, presented mon updates

      ✔ Warmly accepted, interest in BigPanDAmon as a service from the community

   – TODO:

      • Migrate to Github

      • HTTP with host restriction instead of HTTPS

      • Update API to have schema-less data structure

      • Restrict list of compulsory parameters

      • Deploy changes, run more test from HTCondor instance at Wisconsin

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Near-term plans for BigPanDA instance 1

➢ LSST production: collaboration meeting mid June

- – Migrate a real-workload task from SLAC to BNL

- – Update OASIS repository

- – Update monitoring for LSST

  - • From this update ATLAS will benefit, too

- – Update/adapt pilot to the newest PICARD version

  - • Make sure that stage-out is not done or does not fail

- – Test with users who are not us

➢ PanDA server: End of June - July

- – Update MySQL schema

- – Introduce JEDI to MySQL PanDA server

- – Merge MySQL branch with master

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Near-term plans for BigPanDA instance 2

➢ Monitoring: End of June - July

  – Update LSST monitoring: End of May

  – Update HTCondor API and monitoring: End of May

  – Update monitoring for ALICE jobs from Titan

➢ Version system: End of June - July

  – Move to Github

➢ Build system: End of June - July

  – Use Jenkins CI for RPM builds

➢ Documentation: July - August

  – Update instance install doc

Thank you for your attention!

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