HTCondor-CE: What's Next?

HTCondor Workshop 2019 - EU Joint Research Centre
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HTCondor-CE 4

- HTCondor-CE 4.0.1 is the most recently tagged version
    - SciTokens support if using an HTCondor build that supports it (expected by default in HTCondor 8.9.4)
    - Disabled job retries by default
    - Major configuration reorganization
    - More changes described in detail on GitHub:
      https://github.com/htcondor/htcondor-ce/releases/tag/v4.0.0
- Currently available in the HTCondor 'testing' Yum repository, targeted for the 'development' repository
- Many changes may require manual configuration updates:
  https://htcondor-ce.readthedocs.io/en/latest/releases/#updating-to-htcondor-ce-4

Improved APEL and BDII support

- So far this year we've:
    - Added multi-CE support to BDII
    - Added the htcondor-ce-apel package
    - Wrote documentation for APEL and BDII integration on htcondor-ce.org
- What's next?
    - Package APEL HTCondor-CE service or schedd cron configuration
    - Separate out HTCondor-CE endpoint BDII generation
    - Pass more accounting data from the batch system job to the CE job

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First Class in HTCondor

- So far this year we've:
    - Moved the GitHub repository to the HTCondor organization
    - Streamlined the RPM packaging process using CI tools
- What's next?
    - Official release announcements!
    - Eliminating the last OSG smells from the "optional" packaging
    - Unifying the Batch GAHP/BLAHP: HTCondor and OSG Software teams maintain slightly different versions of this piece of the software stack

Using New HTCondor Features

- So far this year we've:
  - Added SciTokens support with a roadmap for deprecating GSI support: [https://docs.google.com/document/d/1DAFeAaUmHHVcJGZMTIDUtLs9koCruQRD Y1sJq1opeNs/edit?usp=sharing](https://docs.google.com/document/d/1DAFeAaUmHHVcJGZMTIDUtLs9koCruQRDY1sJq1opeNs/edit?usp=sharing)
- What's next?
  - Support accounting group mapfiles
  - Add Schedd monitoring to the HTCondor-CE View
  - Allow pilots to make use of Condor-F for sites with little/no network connectivity
  - HTCondor is exploring data transfer over HTTP, what would it take to do the same with the Batch GAHP/BLAHP?
  - Make Central Collector data available via the REST API

Documentation

- So far this year we've:
    - Moved the documentation out of the HTCondor Wiki
    - Added documentation for LCMAPS/Argus:
      https://htcondor-ce.readthedocs.io/en/latest/installation/htcondor-ce/#globus-callout
- What's next?
    - Update documentation for HTCondor-CE 4
    - Document Central Collector installation and how to configure an HTCondor-CE to report
    - Document the Hosted CE installation for use by other grids
    - Split lengthy troubleshooting guide into separate pages

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Prioritizing the Work

- Up until now, HTCondor-CE has been primarily produced and used by the OSG

- Interest outside of the OSG has grown due to the upcoming CREAM retirement

- Community engagement

    - Happy to discuss feature requests/support issues via HTCondor mailing lists (htcondor-users@cs.wisc.edu)

    - Quarterly stakeholder meetings?

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