CE publishing proposal

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History

• We have talked about simplifying the information system since 2015 as part of the costs evaluation.

• In 2015 OSG also announced they'd drop the BDII
  • This TF was setup to solve the problem of sites disappearing from services such as REBUS and even AGIS

• Europe is more complicated
  • No agreement to do the same
  • Many lengthy discussions....
BDII still used

- The main problem in Europe is that there are many stakeholders and nobody can really impose anything.
  - Dropping the BDII is not an option in general but possibly also in WLCG.
- What we can do however is to provide an alternative mechanism so that there is at least a choice to make.
- In the past we discussed where we could put the handful of parameters needed by WLCG
  - Add the information to GOCDB
  - Add simplified json files to the services with a pointer in GOCDB to find the json
One of the solutions discussed was to add configurable properties to the service and its end points.

- One can add as many properties as it is wanted.
- Andrew's talk will show a proposal to get the HS06 values and the capacity using these mechanism.
- Would need agreement on properties and writing information upload tools.
**Json**

- Storage developers have already agreed to supply a simplified json as an alternative to the BDII
- HTCondor-CE already provides this capability which is already consumed by ATLAS
- ARC-CE developers planned a simple parser of the ARC configuration to produce a json that can be published.
- This is already a good chunk of services whose developers can maintain this without system administrators doing any extra fiddling or writing upload tools.
- CREAM-CE: one CE at the time
How would it work?

- Add the json in an accessible place and add it as an end point in GOCDB
- Experiments systems query GOCDB for new services, end points.
- Sys admins only have to add an extra end point.
Current json

- Current json needs tweaking.
- Main tweak areas
  - VO access
    - Important at shared sites
  - Can we add new things?
    - GPUs?
  - What about running and waiting jobs?
    - Dynamic I know but only 2 fields.
- Else?
Conclusion

- I'm not proposing anything that isn't already happening
  - Storage, HTcondor-CE already provide this
- ARC-CE can be the next
- We might get CREAM-CE to produce something similar.
  - One CE at the time
- New sites with non classical grid services will have easier time too.
  - Rather than a full blown BDII all they need is a static or semi-static file with a handful of parameters.
- ATLAS and CMS already consumers
  - One experiment at the time? 😊
- Discuss details........