Ideas for Cyberintegrator for BrownDog

This page is to discuss and explore the possible ideas for Cyberintegrator for BrownDog. From this discussion, we will derive the tangible tasks for BrownDog.

Discussion points:

- Architecture or mechanism (how to)
- Cost in terms of time, Difficulty level

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Running CI workflow as a extractor

The medici extraction service is able to execute CI workflow as a extractor. The CI workflow will be queued at extractor event bus.

Option 1: Medici extractor can be a CI RESTful service client

- Medici extractor uses CI RESTful service endpoints to do
  - upload the dataset
  - execute the workflow
  - retrieve the results from the execution
  - put those results to Medici metadata

Running Polyglot by using CI

The polyglot will be run by using CI workflow to have reproducibility.

Option 1: Spit out CI workflow from Polyglot conversion

- Use as the basis for providing error messages when things go wrong in conversions across software. Currently very difficult to debug when a software server has an error.

Running CI workflow on Medici

This is on-demand execution of CI workflow different from extractor idea. The user will see the possible CI workflow to execute on the dataset on the dataset page.

Integration of Ci and Medici

Tight integration of CI and Medici. Ci will use the Medici as a metadata and dataset storage. It may requires to remove "Spring" framework and adopting other "injection" mechanism.

Running Other workflows (Kepler, Galaxy) as CI workflow

CI workflow will have a step that execute other workflow such as Kepler, or Galaxy.