

Introduction

Hammer Cloud is a stress testing service which is used by central operations teams, regional coordinators, and local site admins to submit arbitrary number of analysis jobs to a number of LHC sites, maintain at a steady-state a predefined number of jobs running at the sites under test, produce web-based reports summarizing the efficiency and performance of the sites under test, and present a web-interface for historical test results to both evaluate progress and compare sites. Currently the service is one of the core components of the LHC operations and site commissioning. The goal of the review is to assess current implementation and service management (including testing, building and deployment), understand current limitations (if any) considering scalability and performance, overview existing and potential use-cases and requirements and evaluate whether they are satisfied.

Use-cases and requirements

Current limitations

Technical areas included in the review

- Overall architecture (Daniele, Valentina)
- HC as a service (testing and build system, deployment, etc..) (Pablo, Valentina)
 - ◆ Draft document
- Test configuration, generation, scheduling and tracking (Daniele, Valentina)
- Collecting test results including performance metrics (Lionel, Luca)
- DB schema and data aggregation (Eddie, Luca)
 - ◆ Available info for the DB schema [here](#)
- UIs (administration UI and visualization of the test results (Eddie))

Useful links

- Hammer Cloud twiki page
- HammerCloud IT twiki
- Additional documentation
 - ◆ I suggest to start from
 1. general -> HC_architecture.txt
 2. general -> HC_workflow.txt
 3. development -> HC_technical_design.txt
 4. development -> HC_to_django.txt
 5. users -> HC_advanced_user.txt

Mailing list

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-- JuliaAndreeva - 10 Apr 2014

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