FTS Monitoring GUI

- **Objectives**: build a monitoring web tool that allows the support team visualize on a GUI interface

  - the histograms of FTS transfer stats (e.g. number of files, throughput, total file size, deration)

  - per status (successful, failed or both), VO (Atlas, CMS, LHCb, Alice), time window and time granularity (e.g. hourly, weekly, monthly etc.)

Project

- Server side:

  1. The FTS log files are stored in cclcgftmli02:/var/www/html/transferlogs

  2. A backend python application (launched and monitored by a cronjob) extracts the relevant parameters (start time, end time, destination, source, file name etc.)

  3. From the transferlogs and stores them in a file in JSON-like format

  4. On the front-end vobox cctest04, there is a python application which regularly scp(opies) the JSON file,

  5. Retrieves the relevant pieces of info from it and stores/updates them into the local MySQL DB accordingly

  6. The front-end php server application serves the client requests by extracting the needed info and return it to the client

- Client side:

  1. From an html form the user specifies the parameters and stats needed and submit his/her request to the server

  2. An ajax module (based on the library jQuery) pre-processes the request of the client and then sends a "post" request to the server

  3. Once it receives the data a javascript module (base on the library HighCharts) plots the histograms accordingly

- Current Status:

  1. To fix the rendering of the coordinates' values

  2. To fix the outlook of the web interface

other   admin   monitor   tutorial   linux   lhcb   in2p3   GMaps   GTrans

FTS MONITOR

FROM:

2012-02-01 13:32:29

TO:

2012-02-20 13:32:32

Granularity:

hour

Experiment:

☑ ATLAS ☑ CMS
☐ LHCb ☐ ALICE

Direction:

◯ TO IN2P3 ◉ FROM IN2P3

Stats:

◯ Files ◉ Size
◯ Throughput ◯ Duration

Status:

Successful ▼

Submit

Main Title
Here goes the Subtitle

1000000M

800000M

atlas
1970-01-16: 654161400087 m

600000M

yAxis Title

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09:11:40   09:11:50   09:12:00   09:12:10   09:12:20

● atlas ◆ cms

Highcharts.com

This is the Footer