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FTS Dashboard

Views and APIs

- Matrix
 - ◆ URL: <http://dashb-fts-transfers.cern.ch/ui/#p.grouping=server>
 - ◆ API: <http://dashb-fts-transfers.cern.ch/dashboard/request.py/transfer-matrix>
- Error samples:
 - ◆ URL: <http://dashb-fts-transfers.cern.ch/ui/#m.content=%28efficiency,errors%29&p.grouping=server>
 - ◆ API <http://dashb-fts-transfers.cern.ch/dashboard/request.py/error-samples>
- Transfers monitoring:
 - ◆ URL: http://dashb-fts-transfers.cern.ch/ui/#p.grouping=server&tab=transfer_plots
 - ◆ API <http://dashb-fts-transfers.cern.ch/dashboard/request.py/transfer-bins>
- History of transfers:
 - ◆ URL: http://dashb-fts-transfers.cern.ch/ui/#p.grouping=server&tab=history_plots
 - ◆ API: <http://dashb-fts-transfers.cern.ch/dashboard/request.py/transfer-history>
- Files status monitoring:
 - ◆ URL: http://dashb-fts-transfers.cern.ch/ui/#p.grouping=server&tab=fts_jobs_plots
 - ◆ API: <http://dashb-fts-transfers.cern.ch/dashboard/request.py/fts-job-bins>
- Active transfers:
 - ◆ URL: http://dashb-fts-transfers.cern.ch/ui/#p.grouping=server&tab=latency_plots
 - ◆ API: <http://dashb-fts-transfers.cern.ch/dashboard/request.py/active-transfers>
- Transfers ranking:
 - ◆ URL: http://dashb-fts-transfers.cern.ch/ui/#p.grouping=server&tab=ranking_plots
 - ◆ API: <http://dashb-fts-transfers.cern.ch/dashboard/request.py/transfer-ranking>
- Transfers map:
 - ◆ URL: <http://dashb-fts-transfers.cern.ch/ui/#p.grouping=server&tab=map>
 - ◆ API: <http://dashb-fts-transfers.cern.ch/dashboard/request.py/transfer-map>

Infrastructure

- PROD
 - ◆ machines : dashb-ai-578.cern.ch / dashb-ai-579.cern.ch
 - ◆ alias : dashb-fts-transfers.cern.ch
 - ◆ broker : dashb-mb.cern.ch
 - ◆ broker topics : transfer.fts_monitoring_start, transfer.fts_monitoring_complete, transfer.fts_monitoring_state
 - ◆ broker queues : Consumer.dashb-fts.
 - ◆ broker auth : dboard certificate (/home/dboard/.globus/*)
 - ◆ database : LCGR (DSN = lcg_dashboard_tfr)
 - ◆ database account : lcg_dashboard_tfr<_r,_w>
 - ◆ database password : Stored in tbag
(dashboard_dao_fts_prod_owner/dashboard_dao_fts_prod_reader/dashboard_dao_fts_prod_writer)
 - ◆ puppet hostgroup : dashboard/web_server/fts/production
- QA
 - ◆ machines : dashb-ai-552.cern.ch
 - ◆ alias : -
 - ◆ broker : dashb-test-mb.cern.ch
 - ◆ broker topics : transfer.fts_monitoring_start, transfer.fts_monitoring_complete, transfer.fts_monitoring_state
 - ◆ broker queues : Consumer.dashb-fts.

- ◆ broker auth : dboard certificate (/home/dboard/.globus/*)
 - ◆ database : INT6R
 - ◆ database account : lcg_transfers_test<_r,_w>
 - ◆ database password : Stored in tbag
(dashboard_dao_fts_int_owner/dashboard_dao_fts_int_reader/dashboard_dao_fts_int_writer)
 - ◆ puppet hostgroup : dashboard/web_server/fts/integration [↗](#)
- DEV (UI only/ES eval.)
 - ◆ machines : dashb-ai-657.cern.ch/dashb-ai-613.cern.ch.
 - ◆ alias : dashb-fts-transfers-dev.cern.ch
 - ◆ database : INT6R
 - ◆ database account : lcg_transfers_test<_r,_w>
 - ◆ database password : Stored in tbag
(dashboard_dao_fts_int_owner/dashboard_dao_fts_int_reader/dashboard_dao_fts_int_writer)
 - ◆ puppet hostgroup : dashboard/web_server/fts/integration [↗](#)
- Config.
 - ◆ Puppet manifest:
 - ◇ <https://gitlab.cern.ch/ai/it-puppet-hostgroup-dashboard/blob/master/code/manifests/init.pp> [↗](#)
 - ◇ <https://gitlab.cern.ch/ai/it-puppet-hostgroup-dashboard/blob/qa/code/manifests/init.pp> [↗](#)
- ◆ Foreman params. and modules manifests:
 - ◇ dashboard_consumer:
 - <https://gitlab.cern.ch/ai/it-puppet-hostgroup-dashboard/blob/master/code/manifests/module>
 - <https://gitlab.cern.ch/ai/it-puppet-hostgroup-dashboard/blob/qa/code/manifests/module>
 - ◇ dashboard_dao:
 - <https://gitlab.cern.ch/ai/it-puppet-hostgroup-dashboard/blob/master/code/manifests/module>
 - <https://gitlab.cern.ch/ai/it-puppet-hostgroup-dashboard/blob/qa/code/manifests/module>
 - ◇ dashboard_web_load:
 - <https://gitlab.cern.ch/ai/it-puppet-hostgroup-dashboard/blob/master/code/manifests/module>
 - <https://gitlab.cern.ch/ai/it-puppet-hostgroup-dashboard/blob/qa/code/manifests/module>

Support

- FTS Dashboard issues: dashboard-support@cernNOSPAMPLEASE.ch, SNOW FE: WLCG Data Management Monitoring.
- FTS issues (service admins and devels.): fts3-steering@cernNOSPAMPLEASE.ch, SNOW FE: FTS Development.

Service Ops

- UI
 - ◆ start/stop:


```
[root@dashb-ai-552 ~]# service httpd restart
```
 - ◆ log: /opt/dashboard/var/log/dashboard
- Collectors
 - ◆ start/stop:


```
[dboard@dashb-ai-552 ~]$ /opt/dashboard/bin/dashb-agent-restart fts.collectors
```
 - ◆ log: /opt/dashboard/var/log/dashb-fts.collectors.log
- Services simplevisor (collectors)
 - ◆ start/stop:

- ```
[dboard@dashb-ai-552 ~]$simplevisor --conf /opt/dashboard/etc/dashboard-simplevisor/
```
- ```
[dboard@dashb-ai-552 ~]$simplevisor --conf /opt/dashboard/etc/dashboard-simplevisor/
```
- ◆ log: /opt/dashboard/var/log/services-simplevisor.log
 - ◆ config.: /opt/dashboard/etc/dashboard-simplevisor/services-simplevisor.cfg
 - Consumer simplevisor (stompctl)
 - ◆ start/stop:


```
[dboard@dashb-ai-552 ~]$simplevisor --conf /opt/dashboard/etc/dashboard-simplevisor/
```

```
[dboard@dashb-ai-552 ~]$simplevisor --conf /opt/dashboard/etc/dashboard-simplevisor/
```
 - ◆ log: /opt/dashboard/var/log/consumer-simplevisor.log
 - ◆ config.: /opt/dashboard/etc/dashboard-simplevisor/consumer-simplevisor.cfg
 - Database access
 - ◆ config.: /opt/dashboard/etc/dashboard-dao/dashboard-dao.cfg

Database

- RAW tables:
 - ◆ t_transfer_start/t_transfer_complete/t_fts_state
- STATS tables:
 - ◆ t_error_summaries
 - ◇ View: Errors categorization
 - ◆ t_file_stats_detailed
 - ◇ View: FTS 3 jobs plots
 - ◆ t_tfrs_stats
 - ◇ Views: Matrix, Transfer plots, Ranking plots
 - ◆ t_transfers
 - ◇ View: Latency plots

Topology

- Lookups:
 1. hostname (of the storage) ---> GOCDB name: statically using the t_topology table
 2. GOCDB name ---> vo site name: using the cached file of the following IS url for each vo
 - ◇ CMS: <http://dashb-cms-vo-feed.cern.ch/dashboard/request.py/cmssitemapbdii>
 - ◇ ATLAS: <http://atlas-agis-api.cern.ch/request/atp/xml/>
 - ◇ LHCb: http://lhcb-web-dirac.cern.ch/topology/lhcb_topology.xml
 3. GOCDB name ---> country: <https://wlcg-rebus.cern.ch/apps/topology/all/json>
- t_topology table
 - ◆ The SE in the following structure is the hostname of the storage as it is sent by FTS while SITE is the GOCDB name.

```
describe t_topology
Name Null      Type
-----
SE    NOT NULL  VARCHAR2(256)
SITE                VARCHAR2(256)
```

- Flow
 1. The hostname of the storage is sent by FTS as src_hostname/dst_hostname and stored in the RAW tables
 2. The computation jobs run over the RAW tables and store the src_hostname/dst_hostname as they are sent by FTS
 3. At each invocation of the FTS Dashboard APIs pointed out above:
 - ◇ Lookups.1 is performed and then depending on the requested grouping:

1. By country: + Lookups.3
2. By site: + Lookups.2
3. By host: no further lookup is needed

- Metadata:
 1. GOCDB name
 2. VO site name
 3. Country

Modules & RPMs

- dashboard-transfers-collector: It includes the config and the code of the FTS collector (https://gitlab.cern.ch/exp_dashboard/cosmic/tree/master/dashboard.transfers-collector)
- dashboard-transfers: APIs, template of simplevisors config., FTS DAOs, FTS specific UI, MVC actions config. for FTS (https://gitlab.cern.ch/exp_dashboard/cosmic/tree/master/dashboard.transfers)
- dashboard-transfers-topology: topology related stuff - topology update cron, static topology files and code for the topology resolution (https://gitlab.cern.ch/exp_dashboard/cosmic/tree/master/dashboard.transfers-topology)
- The other RPMs from the dashboard framework that are needed and not specific to FTS: dashboard-common, dashboard-xbrowse, dashboard-util-url, dashboard-dao-oracle, dashboard-service-config, dashboard-cli, dashboard-dao, dashboard-web)

-- HassenRiahi - 2016-02-08

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