



FTS Monitoring at SARA

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SARA

■ Why?

- Data is sent to your site using your FTS and transfers fail and there is no easy way to find out why other than by digging through a lot of logging.

People submitting the transfers get information why transfers fail which is in the oracle database. This information gives at least a good idea where to look.

■ Why?

- A lot of channels need to be configured.
- It is easy to forget or misconfigure something and it is easy to overlook that.
- How to monitor agents status?
- Having an overview of channel settings and agent status' on a web page would be nice.

- Two parts:
 - Channel settings and agent status
 - Transfers and jobs

- Settings and agent status
 - Run as cron jobs every 5 minutes
 - Scripts renew proxy when needed
 - Scripts get info about channel settings with the `glite-transfer-channel-list` command and put it on a webpage.
 - Does not require access to the oracle db. Able to monitor other sites FTS'.



FTS Monitoring



Channel settings

Mon Sep 11 01:01:19 CEST 2006

Channel	Nominal throughput	Number of VO shares	streams	State	Number of files	Bandwidth	vo shares			
							atlas	dteam	lhcb	alice
ASCC-SARA	0	4	5	Active	5	0	25	25	25	25
BNL-SARA	0	2	5	Active	5	0	25	25		
CNAF-SARA	0	4	5	Active	5	0	25	25	25	25
GRIDKA-SARA	0	4	5	Active	5	0	25	25	25	25
IN2P3-SARA	0	4	5	Active	5	0	25	25	25	25
ITEP-SARA	0	2	6	Active	5	0	25	25		
JINR-SARA	0	2	6	Active	5	0	25	25		
NIKHEF-SARA	0	4	5	Active	5	0	25	25	25	25
PIC-SARA	0	4	5	Active	5	0	25	25	25	25
PRAGUE-SARA	0	4	5	Active	5	0	25	25	25	25
RAL-SARA	0	4	5	Active	5	0	25	25	25	25
RRC-SARA	0	2	6	Active	5	0	25	25		
SARA-ITEP	0	2	6	Active	5	0	25	25		
SARA-JINR	0	2	6	Active	5	0	25	25		
SARA-NIKHEF	0	4	5	Active	5	0	25	25	25	25
SARA-PRAGUE	0	4	5	Active	4	0	25	25	25	25
SARA-RRC	0	2	6	Active	5	0	25	25		
SARA-STND	0	2	6	Active	5	0	25	25		



FTS Monitoring



Agents status

SARA/NIKHEF: FTS Agent Status

Tue Oct 17 18:02:10 CEST 2006

Channel Agents

Name	DN	Host	Version	Type	State	Last active
PIC-SARA	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:02:05
SINP-SARA	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:01:41
SARA-RRC	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:01:41
IITEP-SARA	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:01:33
STAR-SARA	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:01:53
RAL-SARA	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:01:17
PRAGUE-SARA	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:01:13
JINR-SARA	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:01:39
SARA-JINR	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:01:25
RRC-SARA	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:01:20
STAR-NIKHEF	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:02:03
CNAF-SARA	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:01:22
SARA-IITEP	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:01:20
NIKHEF-SARA	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:01:40
IN2P3-SARA	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:01:30
GRIDKA-SARA	/O=dutchgrid/O=hosts/OU=sara.nl/CN=mu13.matrix.sara.nl	mu13.matrix.sara.nl	2.2.3	channel	Started	2006-10-17 16:01:29

■ Transfers and jobs

- Scripts retrieve information from oracle db of transfers and jobs of the past 24 hours
 - ▶ The glite-transfer-* tools don't support getting the necessary information about jobs and transfers.
- Displays statistics.
- Displays information about individual jobs and transfers
 - ▶ Status
 - ▶ Source
 - ▶ Destination
 - ▶ Reason of the failure, if applicable

Statistics

The statistics of the transfers performed since 2006-09-09 23:03:04 +00:00

Mon Sep 11 01:03:04 CEST 2006

t_transfer.transfer_state	number
Completed	8
Failed	18

The statistics of the transfers performed since 2006-09-09 23:03:04 +00:00 grouped by Channel

Mon Sep 11 01:03:04 CEST 2006

channel_name	Total	Completed	Failed
IN2P3-SARA	4	4	
RAL-SARA	6	4	2
TRIUMF-SARA	16		16

The statistics of the transfers submitted since 2006-09-09 23:03:04 +00:00 grouped by VO

Mon Sep 11 01:03:05 CEST 2006

vo_name	Total	Completed	Failed
dteam	26	8	18

Transfers

FTS Transfer Status

The status of the transfers submitted during the last 24 hours.

Thu Sep 14 16:03:03 CEST 2006

job_id	logical_name	job_state	source_surl
6662692e-43f7-11db-88c3-8bd46d8ee2fc		Active	srm://srm.grid.sara.nl:8443/srm/managerv1?SFN=/pnfs/grid.sara.nl/data/atlas/jiri/jiri.1GB.1.1
6662692e-43f7-11db-88c3-8bd46d8ee2fc		Active	srm://srm.grid.sara.nl:8443/srm/managerv1?SFN=/pnfs/grid.sara.nl/data/atlas/jiri/jiri.1GB.1.1
0aa89908-43e3-11db-88c3-8bd46d8ee2fc		Failed	srm://dcache.gridpp.rl.ac.uk:8443/pnfs/gridpp.rl.ac.uk/data/lhcb/sc3/test/roberto/zz_zz.f
0aa89908-43e3-11db-88c3-8bd46d8ee2fc		Failed	srm://dcache.gridpp.rl.ac.uk:8443/pnfs/gridpp.rl.ac.uk/data/lhcb/sc3/test/roberto/zz_zz.f
0aa89908-43e3-11db-88c3-8bd46d8ee2fc		Failed	srm://dcache.gridpp.rl.ac.uk:8443/pnfs/gridpp.rl.ac.uk/data/lhcb/sc3/test/roberto/zz_zz.f

Transfers

dest_turl	transfer_time	reason_class	reason
gsiftp://lcg60.sinp.msu.ru:2811//pnfs/sinp.msu.ru/data/atlas/jiri.1GB.1.20060914.1	14-SEP-06 02.02.01.000000 PM +00:00		
gsiftp://lcg60.sinp.msu.ru:2811//pnfs/sinp.msu.ru/data/atlas/jiri.1GB.1.20060914.1	14-SEP-06 01.46.21.000000 PM +00:00	NETWORK_ERROR	Transfer failed due to possible network problem - timed out.
	14-SEP-06 12.59.07.000000 PM +00:00	SOURCE_SRM_ERROR	Failed on SRM get. SRM getRequestStatus timed out on get
	14-SEP-06 12.59.07.000000 PM +00:00	SOURCE_SRM_ERROR	Failed on SRM get. SRM getRequestStatus timed out on get
	14-SEP-06 12.59.07.000000 PM +00:00	SOURCE_SRM_ERROR	Failed on SRM get. SRM getRequestStatus timed out on get
	14-SEP-06		

■ Future plan

- Combine job and transfer output so you have information about individual transfers, VOs and channels in one view

- Monitoring site
<http://winnetou.matrix.sara.nl/monitoring/datatransfer>
- Jobs/Transfer scripts
http://winnetou.matrix.sara.nl/monitoring/datatransfer/fts_transfers.tar.gz
- Settings/agent status scripts are not packaged yet.