

Appmon: a tool for monitoring of application jobs

T2.1 *Subtask:*

Monitoring of application jobs

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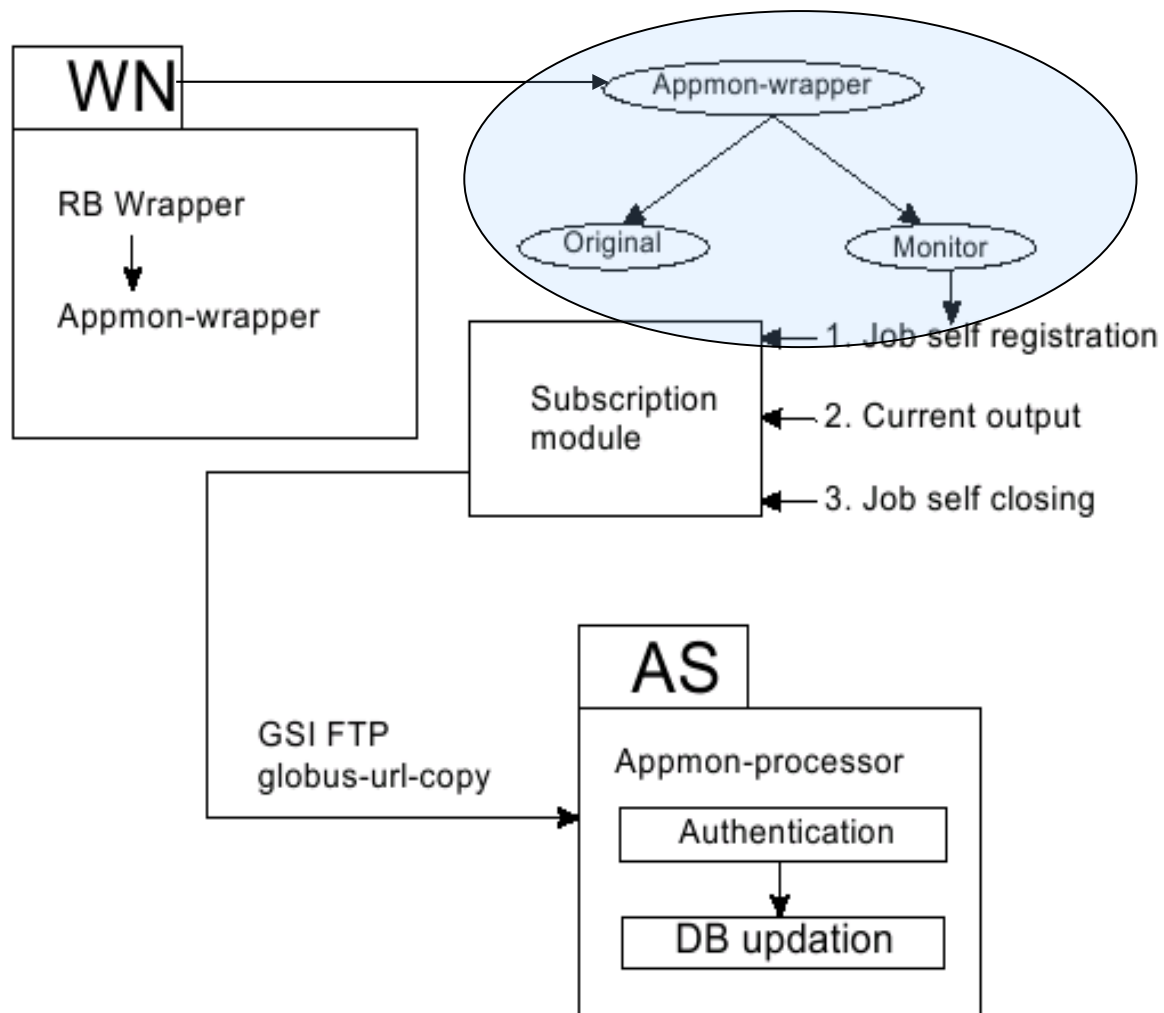
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Subtask T2.1 : Monitoring of application jobs

- Existing LCG job-monitoring system offers information only about a few discrete states of a job in grid (e.g., *submitted, active, done*);
- output and error messages can be obtained only after completion of job execution.
- Suggested extension allows users to have intermediate job output (through time intervals specified by users) for detailed job execution control

T2.1: Monitoring of application jobs (2)



T2.1: Monitoring of application jobs (3)

- No LCG MW modification required (wrappers + additional server);
- Access to the intermediate job output via Web-interface;
- Authorization is based on the standard GSI certificates and proxy certificates
- Starting Web-page for interested users (with instructions):

<http://grid.sinp.msu.ru/acgi-bin/welcome.cgi>

T2.1: Monitoring of application jobs: Web-interface

The screenshot shows a web browser window titled 'Appmon project - Mozilla Firefox'. The address bar contains the URL 'https://grid.sinp.msu.ru/acgi-bin/tls/appmon.cgi'. The browser's menu bar includes File, Edit, View, Go, Bookmarks, Tools, and Help. The browser's toolbar shows navigation buttons and a search bar. The browser's address bar shows the URL 'https://grid.sinp.msu.ru/acgi-bin/tls/appmon.cgi'. The browser's tabs show 'Support', 'National Geographic O...', 'SMS', 'CERN', 'GRID', 'Daily', 'SINP', 'Яндекс.Lingvo', 'ПРОМТ', and 'freshrmps.net'. The browser's status bar shows 'Done' and 'grid.sinp.msu.ru'.

The main content area of the web interface is divided into several sections:

- Job:** A form with a 'Resource URL' field containing 'https://lcg16.sinp.msu.ru:9000/H-' and a 'Job filter' dropdown menu set to 'Any'.
- User:** A form with a 'User DN' field and a 'User filter' dropdown menu set to 'Any'.
- Conditions:** A form with four dropdown menus: 'Virtual Organisation' set to 'rgstest', 'Records to display' set to '3', 'Time period' set to 'Maximum', and 'Jobs to display' set to 'All'. A 'Search' button is located below these fields.

Below the search filters, the text 'Search results:' is displayed. A 'Reload' link is provided. A bullet point indicates the selected 'Virtual Organisation: rgstest'. Below this, a table displays the search results:

Time	Current status	URL	User
2004/12/21-18:41	done	https://lcg16.sinp.msu.ru:9000/Vq4n-3Nd93YdrvkOc8U2_A	/C=RU/O=DataGrid/OU=sinp.msu.ru/CN=Vladimir Yu. Kalyaev
2004/12/21-17:20	done	https://lcg16.sinp.msu.ru:9000/OajkClcElfr1vhOdXG3khw	/C=RU/O=DataGrid/OU=sinp.msu.ru/CN=Vladimir Yu. Kalyaev
2004/12/21-16:43	done	https://lcg16.sinp.msu.ru:9000/ctL1CVvpRFCqMo4rXCyp_w	/C=RU/O=DataGrid/OU=sinp.msu.ru/CN=Vladimir Yu. Kalyaev
2004/12/21-16:29	done	https://lcg16.sinp.msu.ru:9000/XNQx1PqIMrBcYrS0qYKIRA	/C=RU/O=DataGrid/OU=sinp.msu.ru/CN=Vladimir Yu. Kalyaev

T2.1: Monitoring of application jobs: Web-interface (2)

Appmon project - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

https://grid.sinp.msu.ru/acgi-bin/tls/appmon.cgi

Support National Geographic O... SMS CERN GRID Daily SINP Яндекс.Lingvo ПРОМТ freshrms.net

Полезная информаци... CIC UK Globus Week - Apr 05 UK Globus Week - Apr 05 Appmon project

Search results:

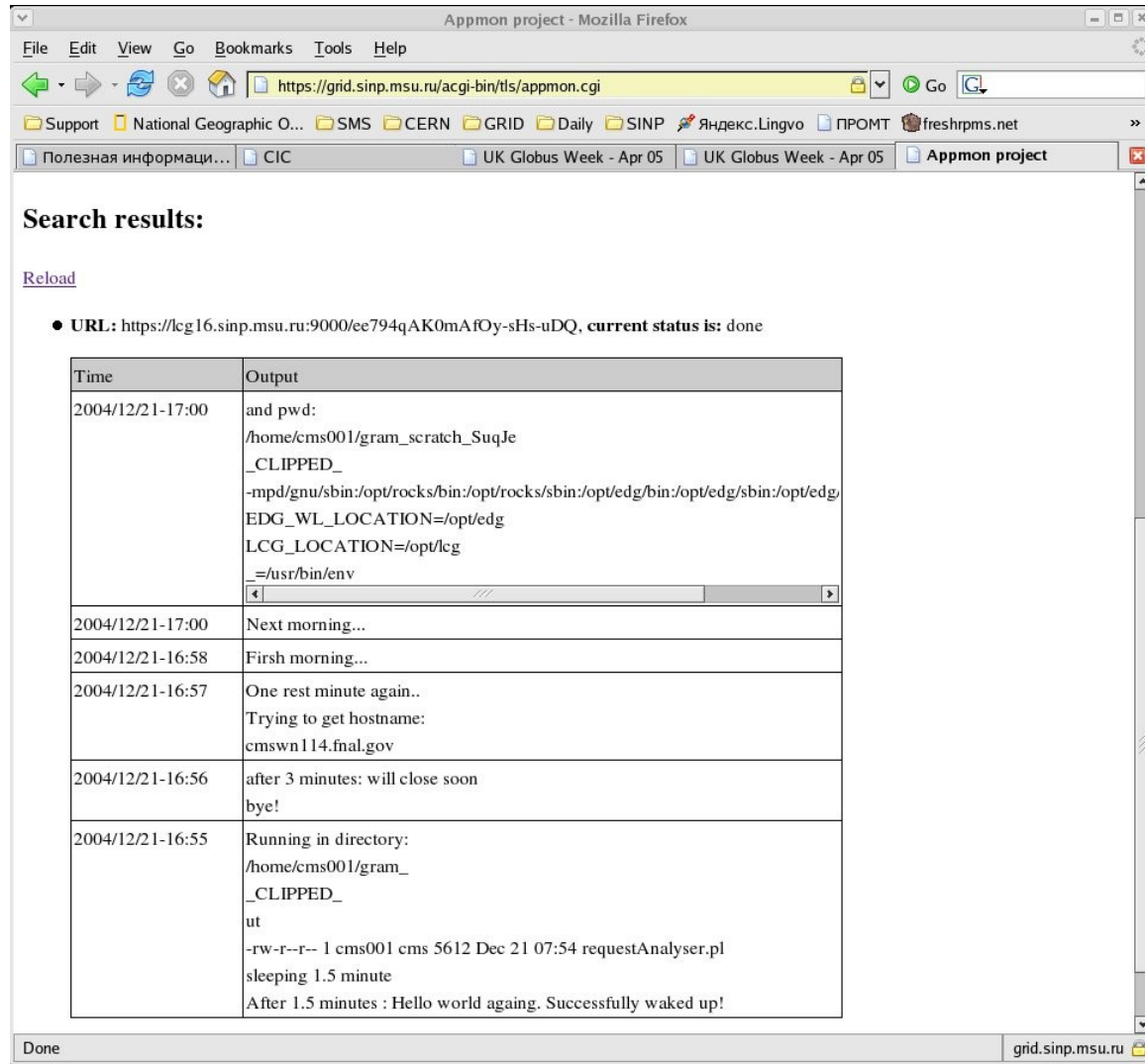
[Reload](#)

- URL: https://lg16.sinp.msu.ru:9000/Vq4n-3Nd93YdrvkOc8U2_A, current status is: done

Time	Output
2004/12/21-18:51	-----
2004/12/21-18:50	current ntpl = 1171 1171 171 **KIMAIN** Nb. ev.triggered, selected, in current ntpl = 1181 1181 181 **KIMAIN** Nb. ev.triggered, selected, in current ntpl = 1191 1191 191 **KIMAIN** Nb. ev.triggered, selected, in current ntpl = 1201 1201 201
2004/12/21-18:49	ed, in current ntpl = 131 131 131 **KIMAIN** Nb. ev.triggered, selected, in current ntpl = 141 141 141 **KIMAIN** Nb. ev.triggered, selected, in current ntpl = 151 151 151 **KIMAIN** Nb. ev.triggered, selected, in current ntpl = 161 161 161
2004/12/21-18:49	699 gamma 1 22 484 0.131 -0.031 -36.743 36.743 0.000 700 gamma 1 22 485 0.004 0.035 -17.661 17.661 0.000 701 gamma 1 22 485 0.261 -0.027 -124.999 125.000 0.000 702 K 1 0 1 130 492 3.293 -3.682 0.087 4.966 0.498
2004/12/21-18:48	218 0.069 0.288 0.140 597 pi+ 1 211 301 0.036 -0.017 0.434 0.457 0.140 598 (pi0) 11 111 301 0.199 0.005 0.751 0.789 0.135 599 pi- 1 -211 303 -0.308 0.108 1.902 1.935 0.140
2004/12/21-18:47	1 22 218 1.563 -2.522 0.009 2.967 0.000 495 gamma 1 22 218 2.618 -3.911 -0.026 4.706 0.000 496 (pi0) 11 111 219 0.204 -0.346 -0.106 0.437 0.135

Done grid.sinp.msu.ru

T2.1: Monitoring of application jobs: Web-interface (3)



Appmon project - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

https://grid.sinp.msu.ru/acgi-bin/tls/appmon.cgi

Support National Geographic O... SMS CERN GRID Daily SINP Яндекс.Lingvo ПРОМТ freshrps.net

Полезная информаци... CIC UK Globus Week - Apr 05 UK Globus Week - Apr 05 Appmon project

Search results:

[Reload](#)

- URL: https://lcg16.sinp.msu.ru:9000/ee794qAK0mAfOy-sHs-uDQ, current status is: done

Time	Output
2004/12/21-17:00	and pwd: /home/cms001/gram_scratch_SuqJe _CLIPPED_ -mpd/gnu/sbin:/opt/rocks/bin:/opt/rocks/sbin:/opt/edg/bin:/opt/edg/sbin:/opt/edg/ EDG_WL_LOCATION=/opt/edg LCG_LOCATION=/opt/lcg _=/usr/bin/env ◀ // ▶
2004/12/21-17:00	Next morning...
2004/12/21-16:58	Firsh morning...
2004/12/21-16:57	One rest minute again.. Trying to get hostname: cmswn114.fnal.gov
2004/12/21-16:56	after 3 minutes: will close soon bye!
2004/12/21-16:55	Running in directory: /home/cms001/gram_ _CLIPPED_ ut -rw-r--r-- 1 cms001 cms 5612 Dec 21 07:54 requestAnalyser.pl sleeping 1.5 minute After 1.5 minutes : Hello world againg. Successfully waked up!

Done grid.sinp.msu.ru

Filters

- User has possibility to add custom filter which permit to select from full stdout/stderr flow the interesting information.
- User just provides a script/binary in the format:

