

FIFE - Task #16430

Milestone # 16428 (Assigned): Roll out FIFE efficiency policy

Design and implement email generation based on the policy

05/04/2017 04:59 PM - Tanya Levshina

Status:	Closed	Start date:	05/04/2017
Priority:	Normal	Due date:	05/20/2017
Assignee:	Kevin Retzke	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	FIFE Roadmap for FY18	Spent time:	0.00 hour
Description			

History

#1 - 05/05/2017 10:50 AM - Kevin Retzke

- Status changed from Assigned to Work in progress

This was originally requested in RITM0533293. Suppose I'll close that. Summary of status:

Report triggering (from Condor EventLog in Elasticsearch) and generation (from Condor job info in Elasticseach) is complete. Sample email:

FIFE Batch System Job Summary

Cluster: 16693618@fifebatch1.fnal.gov
Number of Jobs: 20
Submitted: 2017-05-04T00:30:18-05:00
Owner/Group: dpershey / nova (dpershey@FNAL.GOV)

Requested:

Memory: 1900 MiB
Disk: 2.0 GiB
Time: 3h0m0s

Average time waiting in queue: 15h26m32s

Used:	Min	Max	Avg
Memory:	26.9	548.8	174.4 MiB
Disk:	0.0	0.0	0.0 GiB
Wall Time:	48m38s	48m40s	48m38s
CPU Time:	0s	28m8s	7m31s

Efficiency:	Min	Max	Avg
Memory:	1.4%	28.9%	9.2%
Disk:	0.0%	1.4%	0.3%
CPU:	0.0%	57.8%	15.5%
Time:	27.0%	27.0%	27.0%

The program has been running (not actually sending emails) since yesterday to gather statistics. Monitoring at <https://fifemon-pp.fnal.gov/dashboard/db/fifemail>

Generating under one email per second, I suppose that's reasonable (initial rate was seen much higher due to a bug).

Remaining parts:

- Opt-out link & handling.
- Actually sending email.

#2 - 05/09/2017 01:02 PM - Tanya Levshina

- Target version set to FIFE Roadmap for FY18

#3 - 05/17/2017 11:25 AM - Kevin Retzke

Some observations and feedback from the Lariat trial:

1. Due to the collection interval some emails have been seen with "exceeded resource request" hold notice (and jobs actually held), but the utilization

numbers don't reflect this. Issue will be solved by job history collection, but in the meantime should probably include a note that resource numbers may be from up to ten minutes before the job ended or was held.

2. Should add a link to the "why are my jobs held?" dashboard for further information on held jobs

3. User has requested the option to send daily digests, as has already been discussed.

I'll add more as they come in.

#4 - 06/23/2017 11:28 AM - Kevin Retzke

General summary emails were deployed in production 5/30. Still need to finalize the spec for efficiency policy notifications.

User documentation: https://cdcvs.fnal.gov/redmine/projects/fife/wiki/Email_Reports

Operations and development: <https://cdcvs.fnal.gov/redmine/projects/discompsupp/wiki/Fifemail>

#5 - 07/25/2017 03:33 PM - Tanya Levshina

- % Done changed from 0 to 90

emails are monitored here: <https://fifemon-pp.fnal.gov/dashboard/db/fifemail?refresh=1m&orgId=1>

#6 - 10/09/2017 03:47 PM - Tanya Levshina

- Status changed from *Work in progress* to *Resolved*

- % Done changed from 90 to 100

#7 - 10/09/2017 03:48 PM - Tanya Levshina

- Status changed from *Resolved* to *Closed*