PandaGrid PackMan story

Kilian Schwarz
GSI Darmstadt

a) number packages

- AliEn tries to install packages on the sites which are named identical to the ID of the JobAgents requesting them

- Sites are busy installing these fake packages, sometimes they crash in the process of doing so, instead of submitting jobs

a) number packages PackMan.log

Il pandabox.to.infn.it (torino-2g) the PackMan log file reports lots of lines like these:

- Jan 11 09:56:39 info   Ready to install 17104 and and pbarserv (from -2)

- Jan 11 09:56:39 info   Locking the file /opt/exp_software/compassit/packages/pbarserv.17104..InstallLock

- Jan 11 09:56:39 info   4062 Ready to install the package (output in /opt/exp_software/compassit/packages/pbarserv.17104..InstallLog)

- Jan 11 09:56:39 info   28758 Checking package 17150 for pbarserv and

- Jan 11 09:56:39 info   28758 Looking for the lfn of 17150 () for the user pbarserv

- Jan 11 09:56:39 info   Returning from the cache lfn_pbarserv_17150_ (-2 HASH(0xd0d8990))

- Jan 11 09:56:39 info   28758 The package is not installed :D

- Jan 11 09:56:39 info   The package is not installed. Forking and installing it

a1) number packages fixed

- In Broker/Job.pm: sub getJobAgent {

  - delete $params->{returnId};

  - $params->{returnPackages}=1;

  - my $packages=$self->{DB}->getNumberWaitingForSite($params);

b) package matching

- After the patch of slide 4 has been applied the number packages have disappeared from PandaGrid

- Next related issue:

    - Sites keep installing packages which are obviously already installed instead of submitting JobAgents

b1) package matching fixed

- SQL query when asking for JobAgent ID did not match format in table (processes/JOBAGENT)

- Fix in Database/TaskQueue.pm: sub getNumberWaitingForSite{

  - #defined $options->{packages} and $where .="and ? like packages " and push @bind,$options->{packages};

  - defined $options->{packages} and $where .="and ? like replace(packages,',','') " and push @bind,$options->{packages};

- Currently we have a reasonable number of jobs running

  - Packages problem seems to have improved

- Current feature:

  - Authen

  - Server

keep dying. Central machine overloaded ? Load average: 6

d1) other problems

- When doing:
  - alien login:
  - Feb 20 11:39:15 info   Error opening the file
  - d/panda01/protopop/grid/packages/alien_list_Installedpackages_
    - This file is only readable for account which operates the vobox service.
    - Does user need to see this file and why ?

d2) other problems

- if several users access PandaGrid from the same UI then error messages like:

  - lxi047:~ $ ~/bin/alien login

  - Warning! not able to use /tmp/panda-cache as cache dir

  - touch: cannot touch `/tmp/panda-tmp/alien_test.3362': Permission denied

  - touch: cannot touch `/tmp/alien-log//alien_test.3362': Permission denied

- Because the directory belongs to the user which connected before from that box.

d3) other problems:

- When specifying
    - Requirements = other.CE ==
      "PANDA::Mainz::himster";

- The job is quite often also executed at other sites.

- How does the mechanism work ?

- Does it work as designed ?