GlideinWMS Workshop Summary

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Main Web Page for Workshop:
http://hepuser.ucsd.edu/twiki2/bin/view/Main/GlideinFrontend1201

Workshop Objectives

- Train new frontend administrators
- Information gathering re existing installations
    --'best practices' discussion
    – new features discussion

GlideinWMS/Condor Overview

- useful for new administrators

See the first 5 presentations in
http://hepuser.ucsd.edu/twiki2/bin/view/Main/GlideinFrontend1201

Installation Summary:

FE can be installed via
- RPM
- Q&A installer
- INI installer

Installation is relatively easy, configuration is hard.
- Generate Certs/Proxies
- Notify Factory that you want to submit to them
- Modify frontend xml to match with entries made in Factory xml

GlideinWMS/Condor

(part 2)
 - tweaking and tuning

Frontend Configuration
http://hepuser.ucsd.edu/twiki2/pub/Main/GlideinFrontend1201/0202_ConfigFE.pdf
- we never did any of this at CDF
- I did some of this at IF to associate group proxies with glideins
- there's a lot of potential for control and customization here

Custom Validation Scripts for glideins
http://hepuser.ucsd.edu/twiki2/pub/Main/GlideinFrontend1201/0204_Validation.pdf
- Check that machine has what you want on it prior to starting a glidein
- Tried to write one of these back at CDF to check for SL4/SL5, ended up doing it differently

Condor Tuning
http://hepuser.ucsd.edu/twiki2/pub/Main/GlideinFrontend1201/0205_ConfigCondor.pdf
- we do lots of this
- need to keep condor current (or beta) to use some of these recommendations

GlideinWMS is rapidly getting new features and improving monitoring
- need to keep current. Virtualization probably best way to do this

Frontend Administrator Experience Talks

- almost everyone uses fewer boxes than Igor recommends
- everyone has trouble getting installation to work first time
- most run frontend only, connect to OSG factory
  - The good:
    - have expert help from OSG to get this to work
    - theoretically half the work load
  - The bad:
    - communication lag when something goes wrong
    - factory admin has to look through log files to find your problem

Condor Near Future

http://hepuser.ucsd.edu/twiki2/pub/Main/GlideinFrontend1201/0309_condor_near_future.pdf

- fixed group quotas , GROUP_AUTOREGROUP works as before

- plan to fix glexec so it communicates expired user proxy up the chain better

- planned better support for CREAM, CLOUD, Blahp

GlideinWMS Near Future

http://hepuser.ucsd.edu/twiki2/pub/Main/GlideinFrontend1201/0310_gldieinWMS_future.pdf

- better support for Cloud, CREAM

- improve logging

- improve installation procedures
  – 3 installation methods is 2 too many
  – simplify configuration
    --- at least have one that works out of box

Best Practices?

http://hepuser.ucsd.edu/twiki2/pub/Main/GlideinFrontend1201/0402_BestPractices.txt

Our experience compared to recommendations:
- They recommend doing matching in the frontend
- We do it in the negotiator, generated by cafSubmit, jobsub

- Everything else mirrors our experience
- initial installation hard
- runs (fairly) smoothly after that
- disruptions come from new usage patterns, requirements