Table of Contents

CRAB3-glideinWMS testing

This page describes the very, very alpha testing for CRAB3-glideinWMS

Engineering setup

The known working host environment is:

- RHEL5.
- Download the latest tarball ☑. Unpack into a separate pre-made CRAB3 directory, then `source setup.sh`.
    - ♦ Example:

      ```
      mkdir ~/CRAB3; pushd ~/CRAB3
      curl http://hcc-briantest.unl.edu/CRAB3-gWMS.tar.gz | tar zx
      source setup.sh
      popd
      ```
- A grid proxy that works with cmsweb. cmsweb has several bugs, so I found this precise combination works:

  ```
  voms-proxy-init --voms cms:/cms --old --valid 168:00
  ```

  . DigiCert certificates do NOT work.

KNOWN BUGS:

- The gsissh environment and the shipped HTCondor libraries conflict. If using GSISSH, do the following:

  ```
  mv $CRAB3_BASEPATH/lib/condor $CRAB3_BASEPATH/lib/condor-orig
  ```

User Environment

First, setup a CMS user area:

```
. /cvmfs/cms.cern.ch/cmsset_default.sh
mkdir ~/tmp
cd ~/tmp
cmsrel CMSSW_5_3_7
cd CMSSW_5_3_7
cmsenv
```

Next, download the attached `crabConfig.py`. This is equivalent to the old `crab.cfg`.

Edit this config as desired; make sure to point it at the appropriate `pset.py` to run your job.

Now, source the `setup.sh` found inside the CRAB3-gWMS.tar.gz. `crab` should be in your path.

Things to Try

```
crab submit
```

```
crab status -t <task name>
```

```
crab getoutput -t <task name>
```

```
crab kill -t <task name>
```

For direct submission

This version of CRAB3 can submit directly to CRAB3 without GSISSH. However, this requires a very specific HTCondor setup. Be able to submit to a remote HTCondor schedd using GSI auth. Talk to your local HTCondor experts.

- Python2.6 must be installed on the schedd. If you have a RHEL5 box, this can be done by "yum install python26".
- If it's a RHEL5 box, you must also install the classads module for Python 2.6. Do: `curl http://hcc-briantest.unl.edu/classad.so` > `/usr/lib64/python2.6/site-packages/classad.so`
- The schedd needs to use full-strength delegations; FTS cannot use the default limited proxy delegation. We also suggest to increase the DAGMan submission rates for large jobs. Add the following config variables to the schedd configuration:

```
DAGMAN_MAX_SUBMITS_PER_INTERVAL = 50
DELEGATE_FULL_JOB_GSI_CREDENTIALS = True
```

Add lines to crabConfig.py to specify the HTCondor schedd location. For example:

```
config.General.condorPool = "glidein.unl.edu"
config.General.condorScheddList = ["glidein.unl.edu"]
```

This topic: Main > Crab3GwmsTesting
Topic revision: r5 - 2013-06-07 - BrianBockelman