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CRAB @ FNAL Tutorial 27. June 2007

Introduction

The CRAB @ FNAL tutorial is a hands-on introduction to distributed user analysis within the CMS computing model. The user will learn about the CMS computing model and the user GRID analysis tool CRAB. All information will be presented in the form of talks and hands-on exercises. The goal of this tutorial is to prepare all participants to use and succeed in using the GRID for their analyses.

Schedule

- [9:00 - 9:30]: Introduction to the CMS computing model (Ian Fisk, WH11 Sunrise)
CMS_CM_CRAB_Tut.pdf
- [9:30 - 10:30]: Introduction to CRAB (Oliver Gutsche, WH11 Sunrise) 070627_crab_introduction.pdf
- [10:30 - 11:45]: Coffee break
- [10:45 - 11:30]: Introduction to data discovery and DBS (Valentin Kuznetsov, WH11 Sunrise)
DBS2_discovery_FNAL.pdf
- [11:45 - 12:00]: DashBoard and Monitoring (Ian Fisk, WH11 Sunrise)
<https://twiki.cern.ch/twiki/bin/view/CMS/WorkBookMonitoringTutorial>
- [12:00 - 13:00]: lunch break
- [13:00 - 14:00]: Hands-on session to submit CRAB jobs (WH11 crossover) CRAB tutorial for \geq CMSSW_1_5_X or CRAB tutorial for \leq CMSSW_1_4_X
- [14:00 - 14:45]: Debugging techniques (WH11 crossover) 070627_crab_debugging.pdf
- [14:45 - 15:15]: Support Channels (Patrick Gartung, WH11 crossover) supportchannels_jun07.ppt
- [15:15 - 16:00]: Coffee break
- [16:00 - 17:00]: Hands-on session to solve problems with submitting CRAB jobs (WH11 crossover)

Prerequisites / Requirements

All participants are advised to start early with the registration processes as the individual processes can take some time (order of days) to be processed.

- UAF/LPC account at Fermilab:: Please follow
<http://www.uscms.org/SoftwareComputing/UserComputing/GetAccountFermilab.html>
- Own laptop able to login to CMSUAF/CMSLPC at FNAL and open X windows:: Please follow
<http://www.uscms.org/SoftwareComputing/UserComputing/ConnectUAF.html>
- GRID credentials (certificate and CMS registration): Please follow:
<https://twiki.cern.ch/twiki/bin/view/Main/CRABPrerequisitesGRIDCredentials> and complete all described steps
 - ♦ **A valid GRID certificate is THE prerequisite for this tutorial. Without it, users cannot participate successfully.**

Registration

To guarantee successful participation, proof of a valid GRID certificate is needed for the registration. Each user has to execute two commands on the cmsuaf/cmslpc and send the output of the second command with the registration e-mail to **gutsche AT fnal.gov**:

- Execute the generation of a GRID certificate proxy with:

```
voms-proxy-init -voms cms
```
- Check the validity of the generated proxy with the following command:

```
voms-proxy-info -all
```

which should produce output similar to:

```
subject   : /DC=org/DC=doegrids/OU=People/CN=Oliver Gutsche 103748/CN=proxy
issuer    : /DC=org/DC=doegrids/OU=People/CN=Oliver Gutsche 103748
identity  : /DC=org/DC=doegrids/OU=People/CN=Oliver Gutsche 103748
type      : proxy
strength  : 512 bits
path      : /tmp/x509up_u12840
timeleft  : 11:59:54
VO        : cms
subject   : /DC=org/DC=doegrids/OU=People/CN=Oliver Gutsche 103748
issuer    : /C=CH/O=CERN/OU=GRID/CN=host/lcg-voms.cern.ch
attribute : /cms/Role=NULL/Capability=NULL
attribute : /cms/uscms/Role=NULL/Capability=NULL
timeleft  : 11:59:54
```

Include the output in your registration e-mail. If one of the above steps fails, please follow <https://twiki.cern.ch/twiki/bin/view/Main/CRABPrerequisitesGRIDCredentials> and complete all described steps

List of Participants

- A list of registered participants is available here.

Public terminals

- 3 of 8 public terminals are still available.

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