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How I managed to setup my Ubuntu 12.04 laptop, so I can run Crab2

CVMFS and CMSW and Grid stuff (including automatically up to date certificated and CRL's)

- Install CVMFS
 - ◆ followed online documentation: <http://cernvm.cern.ch/portal/filesystem>
 - ◆ plus: CVMFS_HTTP_PROXY='DIRECT' (from David A.)
- mount
 - ◆ /cvmfs/cms.cern.ch
 - ◆ /cvmfs/grid.cern.ch
- now can create a CMSSW release

```
cd /home/belforte/STEFANO/WORK/CRAB/CMSSW/  
cmsrel CMSSW_7_0_2  
cd CMSSW_7_0_2  
cmsenv
```

- but can't do scram b, so I have to copy the directory from lxplus in order to run customized cmsRun
 - ◆ OTOH cmsRun and EdmConfigHash run

GSI part

- install `globus-proxy-utils` via synaptic
- in my `.bashrc`

```
export X509_CERT_DIR=/cvmfs/grid.cern.ch/etc/grid-security/certificates  
export X509_VOMSES=/cvmfs/grid.cern.ch/emi-ui-3.7.3-1_sl6v2/etc/vomses  
export X509_VOMS_DIR=/cvmfs/grid.cern.ch/emi-ui-3.7.3-1_sl6v2/etc/grid-security/vomsdir  
export X509_USER_PROXY=/tmp/x509up_u`id -u`
```

- and since `voms-proxy-init` in `globus-proxy-utils` is old and does not know to look in `X509_VOMSES`

```
mkdir ~/.glite  
ln -s /cvmfs/grid.cern.ch/emi-ui-3.7.3-1_sl6v2/etc/vomses ~/.glite/vomses
```

- alternatively could simply run `/cvmfs/grid.cern.ch/emi-ui-3.7.3-1_sl6v2/usr/bin/voms-proxy-init`
- as root, added a symlink, see <http://askubuntu.com/questions/342484/etc-pki-tls-certs-ca-bundle-crt-not-found>

```
mkdir -p /etc/pki/tls/certs/  
cd /etc/pki/tls/certs/  
ln -s /etc/ssl/certs/ca-certificates.crt ./ca-bundle.crt
```

- now `gsissh`. See <http://askubuntu.com/questions/249881/how-do-i-install-globus-toolkit-5-2> and <http://www.astro.gla.ac.uk/~matthew/blog/?p=476>

```
wget http://www.globus.org/ftppub/gt5/5.2/5.2.3/installers/repo/globus-repository-5.2-stable-precise  
sudo dpkg -i globus-repository-5.2-stable-precise_0.0.3_all.deb  
sudo apt-get update  
sudo apt-get install gsi-openssh-clients
```

CRAB part

- installed locally CRAB_2_10_7_pre1 from tarball so that can edit
- finally to setup the crab environment

```
source /cvmfs/cms.cern.ch/cmsset_default.sh
#source /cvmfs/grid.cern.ch/emi-ui-3.7.3-1_sl6v2/etc/profile.d/setup-emi3-ui-example.sh
cd /home/belforte/STEFANO/WORK/CRAB/CMSSW/CMSSW_7_0_2
cmsenv
cd /home/belforte/STEFANO/WORK/CRAB/TESTCRAB

source /home/belforte/STEFANO/WORK/CRAB/CRAB_2_10_7_pre1/crab.sh
```

- now crab -create works
- and now also crab -submit and crab -status work

NOTES

- no myproxy-* yet, need to use dont_check_proxy=1 in crab.cfg

The myproxy problem

myproxy comes with globus-proxy-utils , but it fails with

```
myproxy-info: error while loading shared libraries: libssl.so.10: cannot open shared
object file: No such file or directory
```

Also libcrypto.so.10 is missing. I did as superuser

```
cd /usr/lib/x86_64-linux-gnu/
ln -s libssl.so libssl.so.10
ln -s libcrypto.so libcrypto.so.10
```

but then:

```
LapSB:TESTCRAB$ myproxy-info -d -s myproxy.cern.ch
myproxy-info: /cvmfs/cms.cern.ch/slc6_amd64_gcc481/cms/cmssw/CMSSW_7_0_2/external/slc6_amd64_gcc4
myproxy-info: /cvmfs/cms.cern.ch/slc6_amd64_gcc481/cms/cmssw/CMSSW_7_0_2/external/slc6_amd64_gcc4
Error authenticating: Connection closed.
```

If I try to unsetenv scram, like Crab2 does now, only get the authentication error:

```
LapSB:TESTCRAB$ eval `scram unsetenv -sh`
LapSB:TESTCRAB$ myproxy-info -v -d -s myproxy.cern.ch
MyProxy v5.5 5 Sep 2011 PAM SASL KRB5 LDAP VOMS OCSP
Attempting to connect to 188.184.135.252:7512
Successfully connected to myproxy.cern.ch:7512
using trusted certificates directory /cvmfs/grid.cern.ch/etc/grid-security/certificates
Using Proxy file (/tmp/x509up_u1000)
Error authenticating: Connection closed.
```

For reference, the same on lxplus6 gives (making sure to use same grid-security cert. list):

```
belforte@lxplus0107/~> export X509_CERT_DIR=/cvmfs/grid.cern.ch/etc/grid-security/certificates
belforte@lxplus0107/~> myproxy-info -v -d -s myproxy.cern.ch
MyProxy v5.9 Jul 2012 PAM SASL KRB5 LDAP VOMS OCSP
Attempting to connect to 188.184.135.252:7512
```

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```
Successfully connected to myproxy.cern.ch:7512
using trusted certificates directory /cvmfs/grid.cern.ch/etc/grid-security/certificates
Using Proxy file (/tmp/x509up_u8516)
server name: /DC=ch/DC=cern/OU=computers/CN=px402.cern.ch
checking that server name is acceptable...
server name matches "myproxy@px402.cern.ch"
authenticated server name is acceptable
username: /C=IT/O=INFN/OU=Personal Certificate/L=Trieste/CN=Stefano Belforte
owner: /C=IT/O=INFN/OU=Personal Certificate/L=Trieste/CN=Stefano Belforte
  timeleft: 131:16:39 (5.5 days)
```

-- StefanoBelforte - 01 Aug 2014

This topic: [Sandbox > CrabOnUbuntu1204](#)

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