



# Client installation

DIRAC Project



# DIRAC Client Software

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- ▶ Many operations can be performed through the Web interface
  - ▶ Even more to come
  
- ▶ However, certain things should be done using the DIRAC client software
  - ▶ Obtaining proxies
  - ▶ Intensive work with jobs, data – scripting tools
    - ▶ E,g, using Ganga
  
- ▶ Client software available for MacOS and various flavor of Linux
  - ▶ Windows client was demonstrated but not maintained

- ▶ **Installing DIRAC client**
  - ▶ Getting DIRAC installer ***dirac-install*** script from the web
  - ▶ Run it with the France-Grilles default
    - ▶ `dirac-install -V gridfr`
  - ▶ Configure the DIRAC client installation
  - ▶ Detailed instructions
    - ▶ `http://<github>`
- ▶ If the user certificate is not yet set up, do that now
  - ▶ Is needed to finish the DIRAC client configuration

- ▶ Obtaining user grid certificate is specific for each Certification Authority
  - ▶ Out of scope of this tutorial
  - ▶ You are supposed to have your personal certificate or a temporary training certificate
    - ▶ In p12 form
  
- ▶ DIRAC is providing a `dirac-cert-convert.sh` tool to convert the certificate in p12 form into the form suitable for the Grid use
  - ▶ `dirac-cert-convert.sh <cert_file.p12>`
  - ▶ User cert and key files in PEM format are in `~/.globus`

- ▶ Users must generate and upload long proxies to the ProxyManager before using DIRAC
  - ▶ Single command, use it for any proxy generation
    - ▶ Analogous to *voms-proxy-init*
    - ▶ Gets also VOMS extensions if possible
    - ▶ Checks the long proxy status and uploads as necessary
    - ▶ Creates short working proxy
  - ▶ *dirac-proxy-init -g dirac\_user*

<http://marela.in2p3.fr:9200/dirac/wiki/Tutorials>

1. Client installation
2. Managing certificates and proxies

The goal is to get a fully functional DIRAC user environment ready for subsequent exercises