



Client installation

DIRAC Project



DIRAC Client Software

- ▶ 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 flavours of Linux
 - ▶ Windows client was demonstrated but not maintained





Client installation

- ▶ 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
 - ▶ <https://github.com/DIRACGrid/DIRAC/wiki/ClientInstallation>
 - ▶ If the user certificate is not yet set up, do that now
 - ▶ Is needed to finish the DIRAC client configuration





Installing user certificate

- ▶ 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*



Tutorial page :

<https://github.com/DIRACGrid/DIRAC/wiki/ClientInstallation>

1. Client installation
2. Managing certificates and proxies

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

