# **Client installation**



#### **DIRAC** Tutorial



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 Linux flavors

Windows client was demonstrated but not maintained





## Installing DIRAC client:

Getting DIRAC installer dirac-install script from the web

Run it with France Grilles default

### dirac-install -V gridfr

### Detailed instructions at:

## https://github.com/DIRACGrid/DIRAC/wiki/ ClientInstallation



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



If the user certificate is not yet set up, do that now.
Its needed to finish the DIRAC client configuration

## https://github.com/DIRACGrid/DIRAC/wiki/ AuthentificationAuthorization



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

**DIRAC** Tutorial



To configure DIRAC client only one command is needed:

dirac-configure defaults-gridfr.cfg

More information at:

https://github.com/DIRACGrid/DIRAC/wiki/ ClientConfiguration



# **COMDIRAC** Configuration

To configure COMDIRAC extension the command below must be executed

\$ dconfig –minimal

Configuration file will be located in ~/.dirac/dcommands.conf and will look like:

[global]

default\_profile = dirac\_user

[dirac\_user]

```
group_name = dirac_user
```

home\_dir = /

```
default_se = DIRAC-USER
```

More information in the wiki page:

https://github.com/DIRACGrid/COMDIRAC/wiki/Client-Installation-and-Configuration



# Tutorial

### Tutorial page :

#### **Client Installation**

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

### Managing certificates and proxies

https://github.com/DIRACGrid/DIRAC/wiki/AuthentificationAuthorization

### Client Configuration

https://github.com/DIRACGrid/DIRAC/wiki/ClientConfiguration

### COMDIRAC Configuration

https://github.com/<mark>DIR</mark>ACGrid/COMDIRA<mark>C/w</mark>iki/Client-Installation-and-Configuration

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