



Overview of user client usage: ARC

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Why ARC clients?

- Easy-to-install (yum install nordugrid-arc-client)
- Easy-to-configure
- Based on ARCLib (ARC client library)
 - multi-platform support (Windows!, various Linuxes, Solaris, OS X)
 - language binding (java, python)
 - plugins for pre-WS ARC (ARC0), WS ARC (ARC1), CREAM, BES
 - job description translation (JSDL, JDL, xRSL)

Job life-cycle

- Having an idea
- Create valid credentials for grid usage
- Compose job (collect input files, write the program, write job description)
- Submit job to the grid
- Check job status (if you are curious)
- Get the result
- Rejoice

Clients to show

- **arcproxy**
 - creating and managing proxy certificates (support for MyProxy, VOMS)
- **arcsub**
 - communicate with the information systems
 - do brokering
 - translate
 - move input files
 - submit jobs to cluster
- **arcstat**
 - query the status of active jobs from clusters
- **arccat**
 - print standard output and error of job
- **arcget**
 - get results of a job and clean it from cluster

```
$ arcproxy [--voms testers.eu-emi.eu] [--old]
$ arcproxy -I
$ arcinfo pgs03.grid.upjs.sk
$ cat <<EOF > myjob.xrsl
  &(executable="/bin/echo")
  (arguments="Hello World")
  (stdout="hello.txt")
EOF
$ arctsub -c pgs03.grid.upjs.sk myjob.xrsl -dump
$ arctsub -c pgs03.grid.upjs.sk myjob.xrsl
$ arcstat JOBID or arcstat -a
$ arccat JOBID or arccat -a
$ arcget JOBID or arcget -a
$ arcinfo pgs03.grid.upjs.sk:50000/arex
$ arctsub -c pgs03.grid.upjs.sk:50000/arex
  myjob.xrsl -dump
$ arcinfo lxbra2308.cern.ch
$ arctsub -c lxbra2308.cern.ch myjob.xrsl -dump
```

Further information or questions?

www.nordugrid.org

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Thank you!

EMI is partially funded by the European Commission under Grant Agreement
RI-261611