

Grid Training for Power Users Institute of Physics Belgrade

Hands-On: Advanced Job Submission

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- Advanced job overview
- Hands-On example
- Links

- **Advanced job:**
 - Download uploaded code (or executing file)
 - Download necessary scripts for executing and running the job
 - Executing & running the program
 - Upload results to Storage Element

- Content of JDL file:

```
Executable = "run.sh";  
Arguments = "";  
StdOutput = "std.out";  
StdError = "std.err";  
InputSandbox = {"run.sh"};  
OutputSandbox = {"std.out", "std.err"};  
Requirements = RegExp("ce64.ipb.ac.rs*", other.GlueCEUniqueID);
```

- Content of run.sh:

```
#Downloading source code from SE
lcg-cp lfn:/grid/aegis/power/src.tgz 'src.tgz'

#Extract code
tar xvzf src.tgz

#Compile C file

gcc hello.c -o hello

#Execute hello program

./hello >> output

#Make tgz archive of output
tar cvzf output.tgz output

#Uploads output to SE
lcg-cr -l lfn:/grid/aegis/nikola/hello.SE/output.tgz file:`pwd`/output.tgz
lcg-cr -l lfn:/grid/aegis/nikola/hello.SE/std.err file:`pwd`/std.err
```

- Navigate to the following address:
http://wiki.ipb.ac.rs/index.php/Grid_examples
- Choose advanced job example and follow the instructions for submitting advanced job

gLite user guide:

- <https://edms.cern.ch/file/722398//gLite-3-UserGuide.pdf>