



Enabling Grids for E-science

EGEE Training Report - Swiss / German Federation -

*Dr. Rüdiger Berlich / Forschungszentrum Karlsruhe
Edinburgh / 15.4.05*

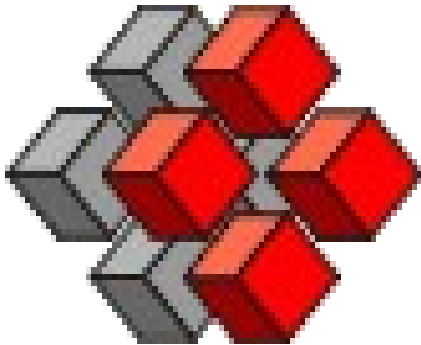
www.eu-egee.org



- Originally: Rüdiger Berlich (mostly NA3, but also responsible for NA2 in DECH)
- Since March 2005:
 - Marcus Hardt (part time; only NA3)
 - Karin Schäufele (part time; mostly NA2)
- FZK has strong SA1 group (Tier-1 centre): involvement in many activities
- Kilian Schwarz of GSI / Darmstadt (SA1) has helped with many trainings



- Since March 2005: We are now officially the **Swiss / German** federation („DECH“ for short)
- **Gian Luca Volpato** of the Swiss National Supercomputing Centre might do training in the future



- FZK is responsible for organising and / or running of Grid Training activities for the Swiss / German Collaboration
- Originally: Commitment of 4 training courses until March 2005
- So far **8 courses**
 - 6.7.04: LCG-2 induction course for internal and external (Uni Karlsruhe)
 - 20. - 23.9.04: LCG-2 Introduction, Bonn (40 people)
 - 20.- 23.9.04: LCG-2 Introduction, Bonn (24 people)
 - 11. - 14.10.04: LCG-2 Introduction, Bonn (24 people)
 - 11. - 14.10.04: LCG-2 Introduction, Bonn (24 people)
 - LCG-2 installation, Bonn, November, FZK, (15 people)
 - 10th of December 2004: AliEn Introduction, Bochum University (7 people)
 - 3rd of February 2005: LCG-2 and AliEn Introduction, Sydney (APAC, AusGrid; 12 people)
 - 23./24.3.05: LCG-2 Introduction, DESY / Hamburg (23 people)

Goal accomplished with approx. 143 people trained in 8 courses by March 2005.

- Two other courses held in DECH federation, thanks to NeSC team:
 - Forschungszentrum Jülich (9.3.05)
 - Forschungszentrum Karlsruhe, Webservices Course, (15./16.3.05)
- In cooperation with NeSC team:
 - TERENA / Amsterdam – Grid Introduction for NA2 members (28.2./1.3.05)

- Two upcoming events:
 - 28./29.4.05: Practical Introduction to Grid Computing for the enterprise (together with NA4)
 - GridKa School '05 (September 05)

Impressions



PROOF

- Make work working on
- Return to the PROOF
- The master objects before

September 22, 2008

V10

Impressions

Forschungszentrum Karlsruhe
in der Helmholtz-Gemeinschaft

Data management

EGGEE
European Grid for Earth and Environmental Sciences

Show replicas

```
edg-rm --no gks listReplicas lfn:<name>  
1
```

Other edg-rm commands

```
listRestFile (lhf), getRestFile (ghf),  
unregister (uf), deleteFile (del),  
removeAlias (ra), ... (edg-rm -h)
```

Helpful option for deleteFile:
--all-available <GUID>

Torsten Adami, Rüdiger Berlich, Christopher Jung

Data management

Exercise

- Create files (different names, small)
- Register
- Replicate (purally, also remove replicas)
- Show replicas
- Copy back replicas
- Finally, remove all replicas (if)

Helmholtz-Zentrum für Umweltforschung



Impressions



Impressions



Impressions



egee

Hello World

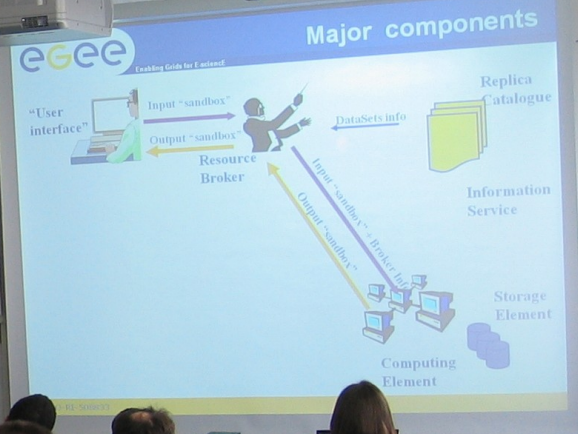
Job submission

`edg -s <jobname> -o <jobid> -c <jobconfig> -d <jobdir> -f <jobfile>`

Parameters: `-o <jobid>` specifies the output file for edg job id(s)
not necessary, but comfortable

`-c <jobconfig>` specifies a CE to submit the job directly to

Impressions



Impressions

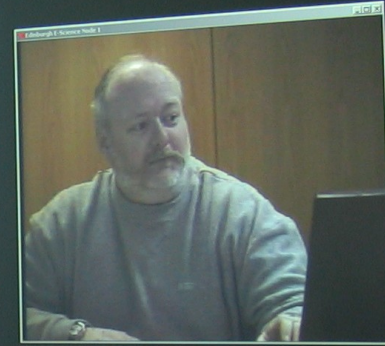


Web services tools

etee
Creating GUIs for E-entire

- Java based
 - ANT
 - JWSDP/J2EE/Java Beans
 - Axis
 - Tomcat
- C based
 - .Net
 - gSOAP
- Perl based
 - SOAP::Lite

MSDN #L 300833



- There is a sizeable demand for Grid courses, especially from „likely audiences“.
- It is easier to preach to the converted / Finding new, interested audiences is an up-hill battle
- Finding trainers (where no in-house knowledge is available) can be a problem as well.
- gLite installation courses will be in high demand
- **COLLABORATION** and **COOPERATION** should be written in capital letters
- Finding suitable training rooms outside of the home institute can be a problem, but
- It is easier to get an audience when visiting the other institutes than when asking others to come to a central location.
- Access Grid or video conferencing can be a solution, but has its own problems.