egee

Enabling Grids for
E-science in Europe

*EGEE 3rd parties Advanced Induction Course,
Athens 20-21/01/05*

EGEE Induction Course

Christos Aposkitis
GRNET

Objectives of this session

- Presentation of a sample course (EGEE induction)

- Course aims

- Prerequisites for participants

- Course content

- Training material

Sample course overview

- EGEE induction course
  - 2 –day course (16-18 hours)
  - Roughly 13-14 actual course hours, the rest is breaks
  - Roughly 60% theory, 40% practical hands-on exercises
  - Hands-on sessions in the afternoon of each day
- This is the basic course for beginners provided by EGEE throughout Europe
- 8 of these courses will be delivered in Greece
  - 2 in Q2 2005
  - 6 in Q4 2005 – Q1 2006
- 25 participants expected - maximum 40
  - more than that will make exercises difficult

Course Objectives

1. Understanding of general Grid and e-Science concepts.
2. Orientation to the EGEE infrastructure and middleware.
3. Understanding of the goals, context and structure of the EGEE project.
4. Awareness of current project procedures and tools.
5. Experience from use of an EGEE testbed GILDA, via the GENIUS portal.
6. Command-line exercises

Prerequisites for participants

- Some general knowledge about Grids

- A laptop with:
  - Ethernet 10/100 port
  - Optional WiFi
  - Windows or Linux
  - Mozilla 1.6 or IE 5.5 (with Java support)
  - SSH client
  - Optional Cortona VRML for Windows, or OpenVRML for Linux

- For the command line exercises:
  - Basic UNIX command-line skills

Course outline

- Day 1:
  - Morning (D1M): Introductions to Grid computing, EGEE Grid middleware (gLite), GILDA and the GENIUS portal; job submission using GENIUS
  - Afternoon (D1A): Getting to know EGEE and the GILDA testbed; data management using GENIUS

- Day 2:
  - Morning (D2M): The EGEE project and its procedures
  - Afternoon (D2A): Continuing to use GILDA; command-line exercises; looking to the future

Course content – Morning Day 1

No.	Description	Duration
D1M.1	Introduction to the course	15'
D1M.2	What is the Grid. Introduction to the e-science concept	45'
D1M.3	Overview of EGEE infrastructure and middleware	45'
D1M.4	Overview of HellasGrid infrastructure and objectives	30'
D1M.5	The grid portal: GENIUS	30'
D1M.6	Job submission through GENIUS	45'
	Total	**3h30'**

Course content – Afternoon Day 1

No.	Description	Duration
D1A.1	Data management through GENIUS	30'
D1A.2	Other GENIUS features	30'
D1A.3	Certification procedures	30'
D1A.4	Practicals on data management using GENIUS	1h00'
D1A.5	Discussion – 1st day results	30'
	Total	**3h00'**

Let's try it !!!

- https://genius.ct.infn.it/

Course content – Morning Day 2

No.	Description	Duration
D2M.1	Introduction to the EGEE project	30'
D2M.2	EGEE infrastructure – HellasGrid infrastructure	45'
D2M.3	EGEE middleware (current state and roadmap)	45'
D2M.4	EGEE applications – procedures for new user applications	45'
D2M.5	EGEE dissemination and training	15'
D2M.6	Discussion – open Q&A	30'
	Total	**3h30'**

Course content – Afternoon Day 2

No.	Description	Duration
D2A.1	Proxy certificates	15'
D2A.2	Command line exercises	2h15'
D2A.3	Discussion – course closing	30'
	Total	**3h00'**

Training material

- Initially available through

  - The NA3 website: http://egee.nesc.ac.uk/

- The GILDA website: https://gilda.ct.infn.it/

  - Video tutorials

- Will be collected and selected by GRNET (March '05)

  - Finally available at http://www.egee-see.org

- To be updated continually

Other relevant issues

- **Administrative help from GRNET**
  - Any questions are welcome, help with logistics, etc.
  - Contact: apochr@grnet.gr, egee-pr@admin.grnet.gr
- **Where to find participants**
  - Create and maintain your own contact lists
  - Advertise in local universities
  - Post-graduate students in relevant fields
- **Hosting sites**
  - Requirements already described
  - University rooms that can be reserved for free
- **Coffee breaks**
  - Contact GRNET for possible support. We will do our best.
- **Printed material**
  - Contact GRNET for possible support. We will do our best.
- **Consider small fees to cover the above**
  - Up to 30 Euros per person

Other relevant issues – cont'd

- Average estimate of 2,5 Mmonths for each course

- Support to the participants
  - Before the course
  - After the course

- Patience and persistence required
  - Varying degree of familiarity with Grids
  - Murphy's law – If something can go wrong, it will, exactly when it should not.

- During the courses, SA1 will be ready to assist if needed

- GRNET can also provide one (or more) presenter(s) to help with some sections

EGEE 3 rd conference

- Athens 18-22 April 2005, Ledra Marriott
- There will be trainers' training sessions before, during and after the event.
- Strongly suggested
  - Excellent opportunity to get more familiar with EGEE
  - Meet people especially involved in training
  - Get actual training
  - Build confidence to deliver your own courses
  - At least one person from each partner should be there
- Details for courses and conference programme should be finalised until the end of March

Discussion

- Q & A
- Action points