egee

Enabling Grids for E-sciencE

Summary of Day 4

Application

Application toolkits, standards

Higher-level grid services (brokering,…)
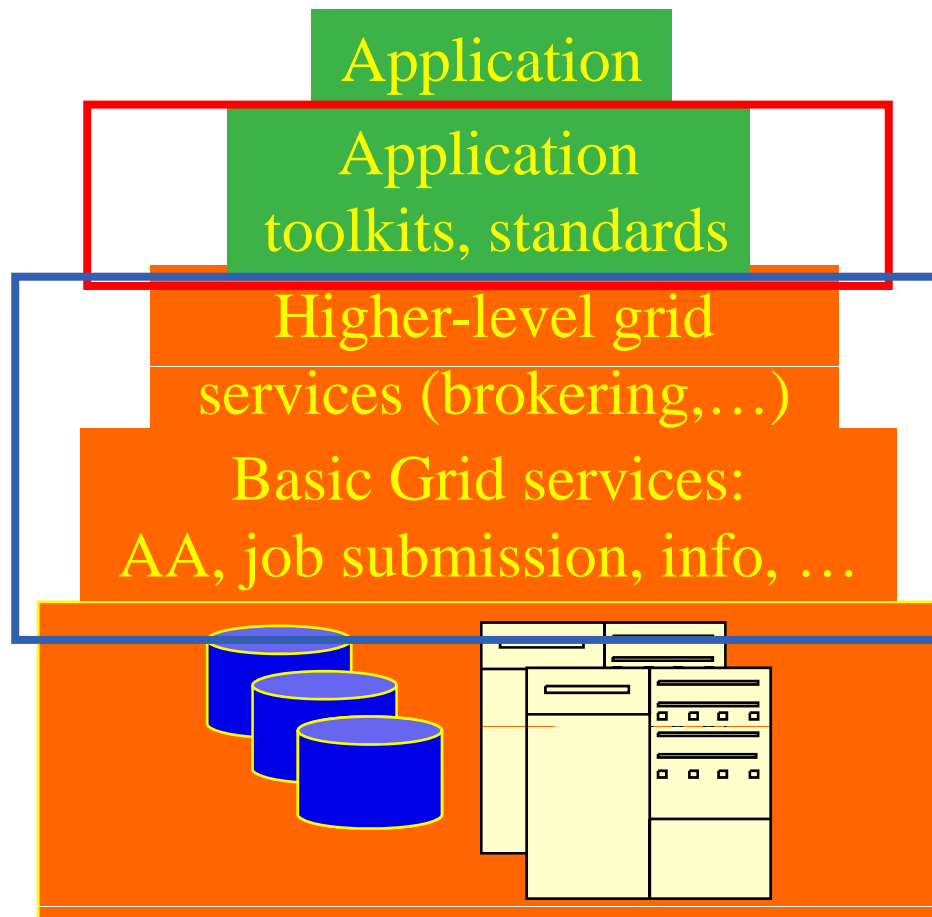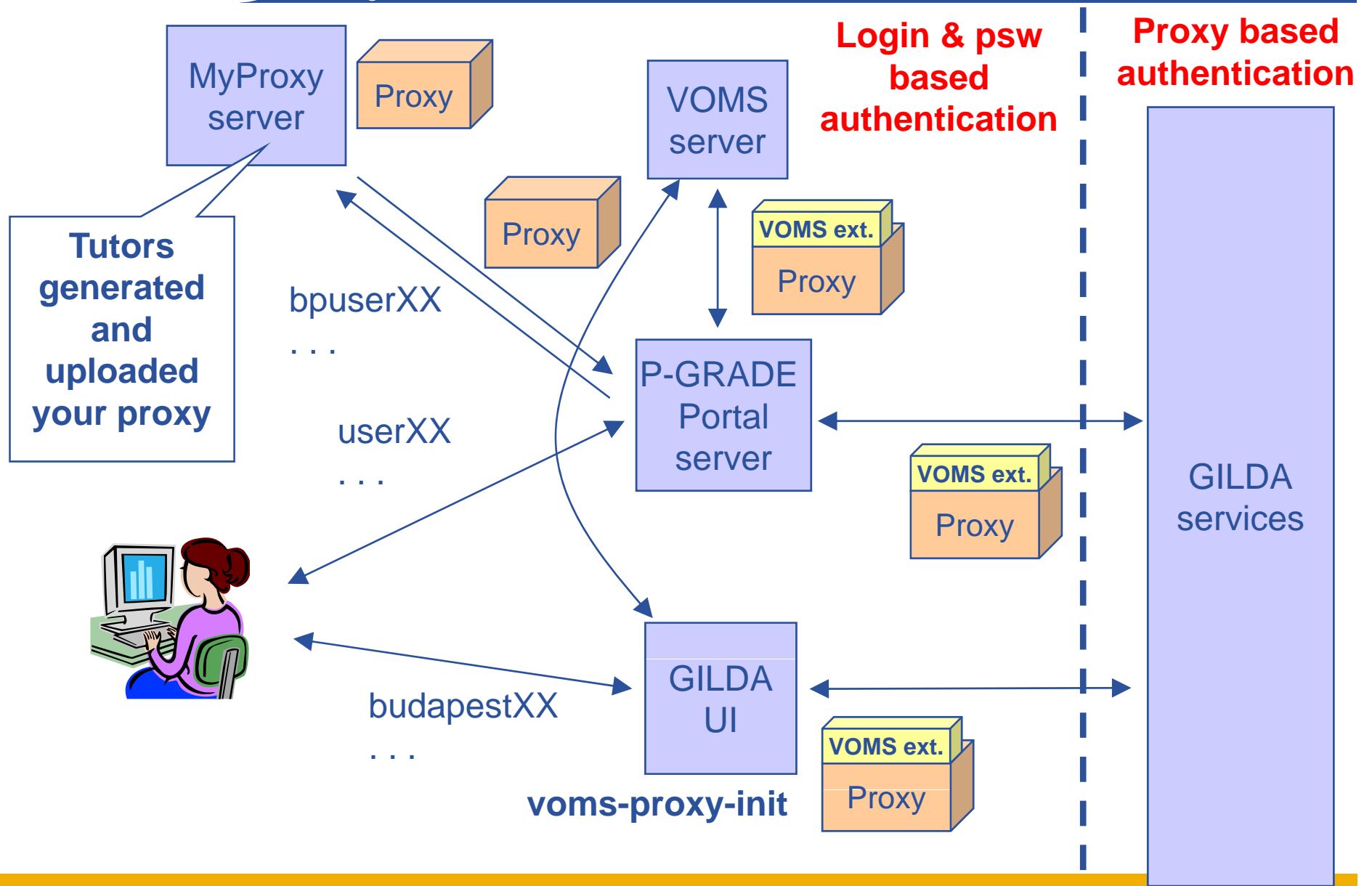
Basic Grid services:
AA, job submission, info, …

- **To hide the complexity of the grid middleware**

- **To provide application specific user interface**

- **To provide easier access mechanisms (web)**

- **To keep the user focused onto the "real problem", solve everything else – abstract interface**

egee
Enabling Grids for E-sciencE

MyProxy server

Proxy

VOMS server

Login & psw based authentication

Proxy based authentication

Proxy

VOMS ext.
Proxy

Tutors generated and uploaded your proxy

bpuserXX
. . .

P-GRADE Portal server

userXX
. . .

VOMS ext.
Proxy

GILDA services

budapestXX
. . .

GILDA UI

voms-proxy-init

VOMS ext.
Proxy

Enabling Grids for E-sciencE

Proxy based authentication

Alternative interfaces, but the same grid infrastructure:
- Same set of Computing Elements
- Same set of Storage Elements
- The same Workload Management System (broker)
- The same Logical File Catalog
  - LFNs are the same

Single sign-on:
- Authenticate with name&psw once: when you generate your proxy
- Use the proxy to authenticate with the grid services

GILDA services

- **Graphical support for the development and execution of**
  - Data driven workflows
  - Parameter studies (parametric studies)
    - Single Instruction Multiple Data parallelization
- **Workflow: Put together components into larger applications**
- **Parameter study: Execute components/workflows with large number of parameters**
- **Interoperable with gLite, Globus 2, Globus 3, Globus 4 grids**
- **Make your code accessible to a wider community: GEMLCA specific P-GRADE Portal**

- Visit **www.portal.p-grade.hu**
  (manuals, slide shows, installation procedure, etc.)

  - **Get an account on one of its production installations:**
    - **portal.p-grade.hu/index.php?m=5&s=0**

  - **GILDA P-GRADE Portal**
    - **Not only for training events!**
    - **Get your certificate from GILDA CA**
    - **Join the GILDA VO**
    - **Get an account on GILDA P-GRADE Portal**

  - **If your grid / VO does not have P-GRADE Portal yet, contact SZTAKI and ask for an installation!**

Morning (basement):

- **Case studies: applications using the EGEE grid and related high level services**
  - Do not be afraid to ask technical questions!

Afternoon (computer room)

- **Application porting session**
  - If your presentation is already available please show me

- **Do not forget your feedback form!**