



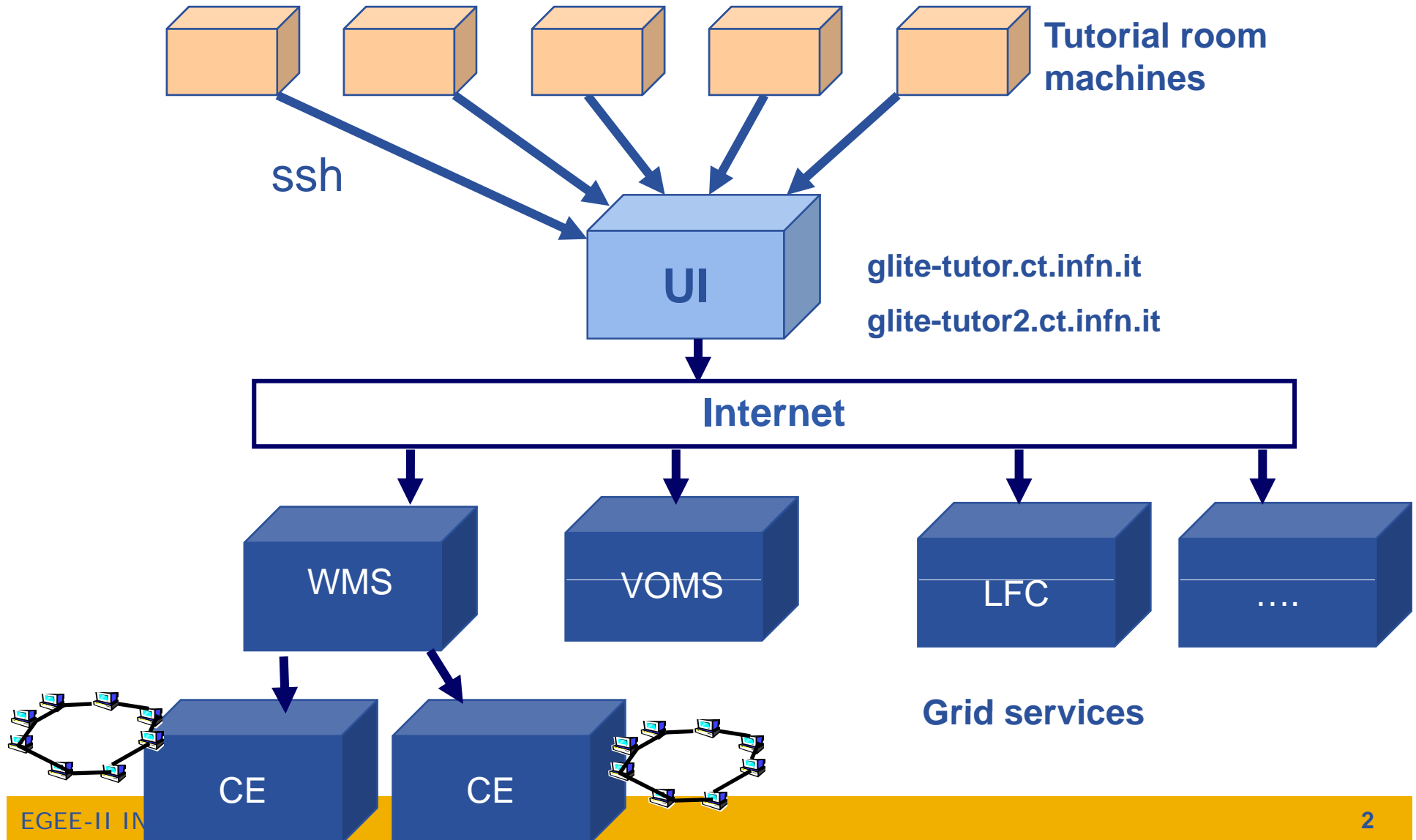
Enabling Grids for E-science

Using Certificate & Simple Job Submission

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- **The practical exercises are to illustrate “how”**
 - Not using typical jobs for running on a grid!!
 - But to show how grid services are used, jobs are submitted, output retrieved,...

- **We will use the Command-Line Interfaces on a “User Interface” (UI) machine**
 - “UI” is your interface to the GILDA Grid
 - Client tools are already installed

- **We are using the GILDA testbed today**
 - The production EGEE grid looks like this!
 - Current EGEE production middleware
 - GILDA is one VO on EGEE → resources for training and prototyping

- **Get an internationally recognised certificate**
 - From a local “Registration Authority” – you will need to see them personally, bringing passport or other identification
- **Contact the virtual organisation (VO) manager**
- **Accept the VO and the EGEE conditions of use**
- **The VO manager authorises you to use resources**
- **Upload your certificate to a “User Interface” machine**

- **We are continuing the practical from this stage**
- **You are a member of the GILDA VO**
- **We have training certificates on the GILDA testbed**

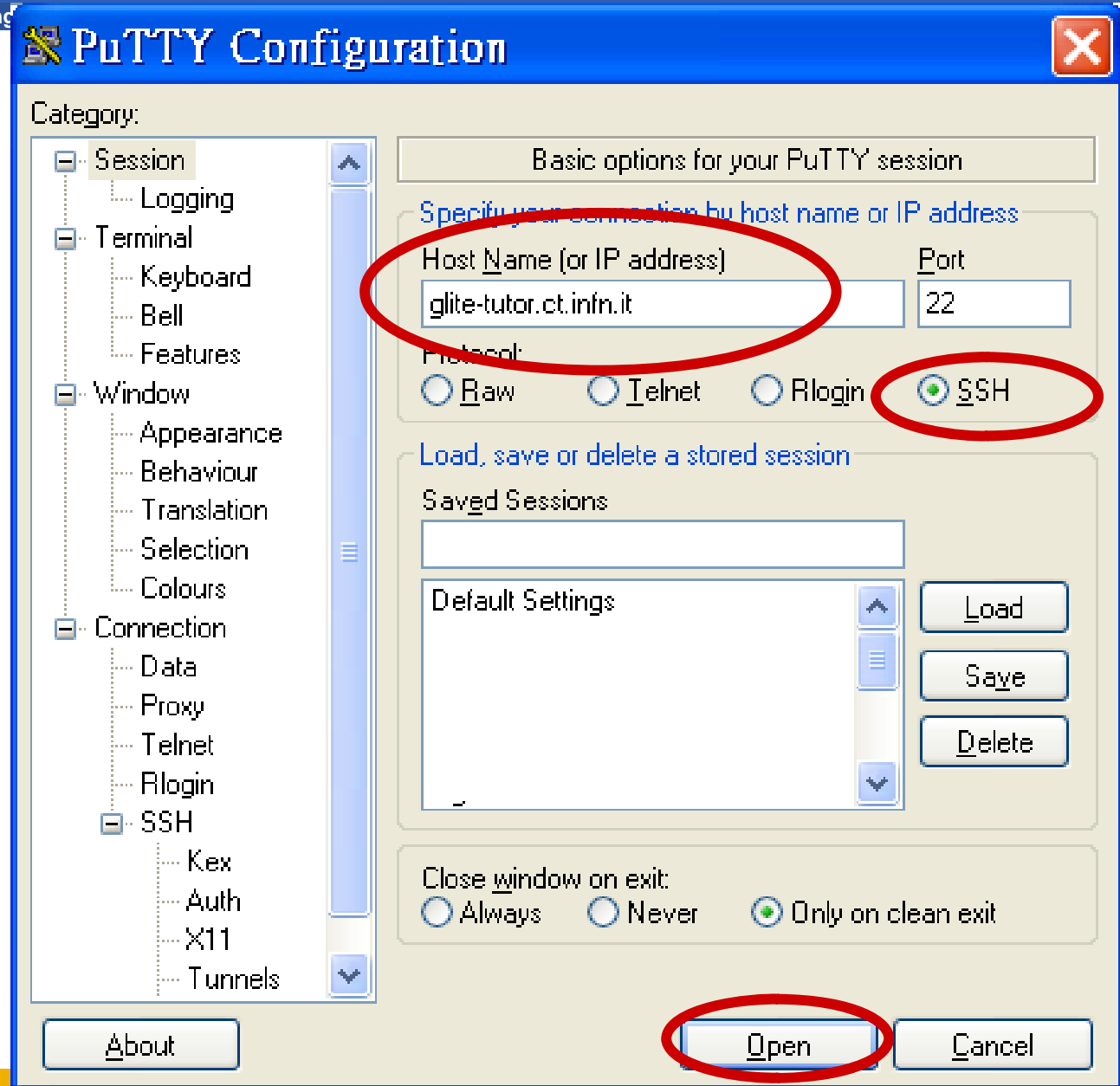
- **If you are new to Linux – or if you prefer – work in pairs**
- **You will need to edit files and use command-line interfaces**
- **If you have Windows OS on the laptop, please download putty.exe with this link**
- <http://the.earth.li/~sgtatham/putty/latest/x86/putty.exe>

- Tutors will assign you a user number
- Then use **putty** or **ssh** to connect to **glite-tutor.ct.infn.it** or **glite-tutor2.ct.infn.it**
 - usernames --> **singapore01.....singapore40**
 - passwords --> **GridSIN01....GridSIN40**
 - Private Key passphrase: **SINGAPORE**
 - **Voms-proxy-init -voms gilda**
 - **ALWAYS USE THE SAME ACCOUNT DURING ALL OF THIS EVENT – REMEMBER YOUR NUMBER!!**

Wireless Network SSID :

http://t-ap41.grid.sinica.edu.tw/exercise/cert_simple_job.html

1. Download putty.exe
2. Run putty (double click the icon)
3. Type Host Name
4. Select SSH protocol
5. Click Open button



- VOMS on EGEE: User Guide available at <http://glite.web.cern.ch/glite/documentation/default.asp>
- VOMS
 - Available at <http://infnforge.cnaf.infn.it/voms/>
 - Alfieri, Cecchini, Ciaschini, Spataro, dell'Agnello, Fronher, Lorentey, From gridmap-file to VOMS: managing Authorization in a Grid environment
 - Vincenzo Ciaschini, A VOMS Attribute Certificate Profile for Authorization
- GSI
 - Available at www.globus.org
 - A Security Architecture for Computational Grids. I. Foster, C. Kesselman, G. Tsudik, S. Tuecke. *Proc. 5th ACM Conference on Computer and Communications Security Conference*, pp. 83-92, 1998.
 - A National-Scale Authentication Infrastructure. R. Butler, D. Engert, I. Foster, C. Kesselman, S. Tuecke, J. Volmer, V. Welch. *IEEE Computer*, 33(12):60-66, 2000.

WMS User's Guide

- <https://edms.cern.ch/file/572489/1/EGEE-JRA1-TEC-572489-WMS-guide-v0-2.pdf>

JDL Attributes Specification

- **Fabrizio Pacini**
- <https://edms.cern.ch/file/555796/1/EGEE-JRA1-TEC-555796-JDL-Attributes-v0-8.pdf>