



Enabling Grids for E-sciencE

Introduction to GILDA testbed and Genius portal

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GILDA testbed

- After a lot of presentations about Grid
 - Users want to see Grid in action
 - Users want to try some examples in Grid
 - Users want to run their applications in Grid

- GILDA is a complete suite of grid elements (test-bed, CA, VO, monitoring system, web portal) and applications
- Everyone can register and use GILDA for training and testing purposes



GILDA testbed





GILDA testbed

Enabling Grids for E-sciencE















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How to access to GILDA

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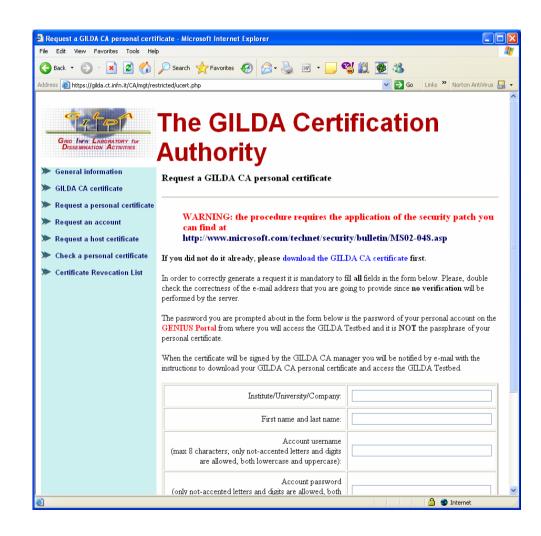
- Grid Demonstrator portal https://grid-demo.ct.infn.it
 - Simplified version of Genius portal
 - No registration required
 - Users can run only predefined jobs
- Grid Tutor portal https://grid-tutor.ct.infn.it
 - Full version of Genius portal
 - Used only for tutorials
 - Registration required (for accounts and certificates)
 - Users can define own jobs
 - Advanced features: VNC, job editor, certificate management
- Command-line user interface "ssh grid-tutor.ct.infn.it"
 - Only for registered users
 - Users have full access to all grid commands



GILDA Certification Authority

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- https://gilda.ct.infn.it/CA/
- Users can register and get Grid certificates (valid for 14 days)
- After that, users can use full version of Genius portal and/or command-line interface
- Please read carefully the instructions on the web pages





Command line UI versus Portal

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Command-line user interface is powerful but

- It is take some time to learn the commands
- The interface depends on the middleware
- It is difficult to control what the users really do

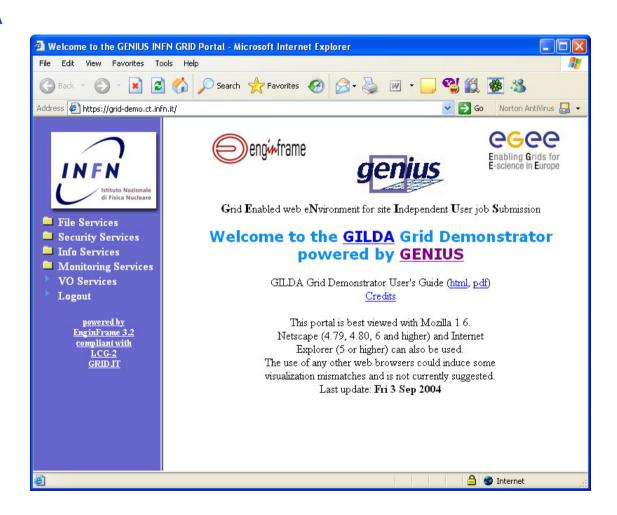
Portal is web-based user interface that

- Is accessible from everywhere
- Has redundant security level
- Is independent from middleware
- Is easy to control what users can do



Genius portals

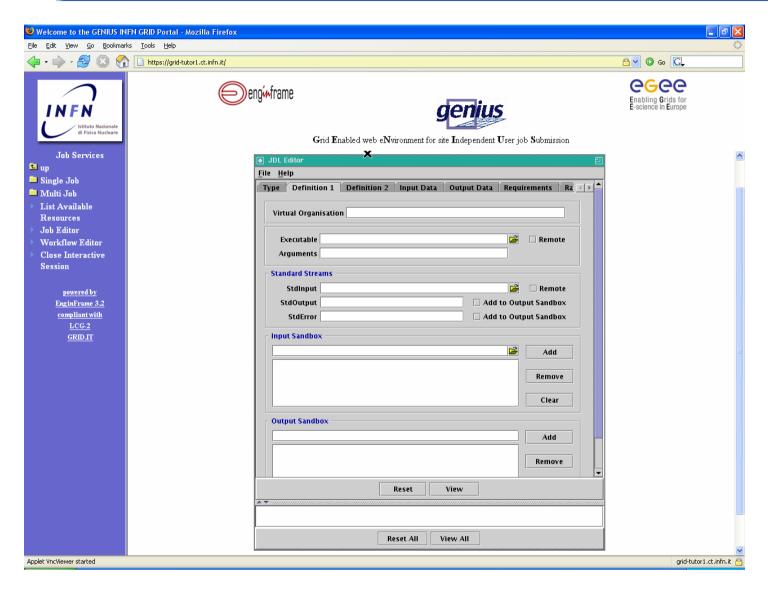
- Dedicated to GILDA testbed
- Based on XML technology
- Use command-line
 UI in background





Job definition (Creating JDL)

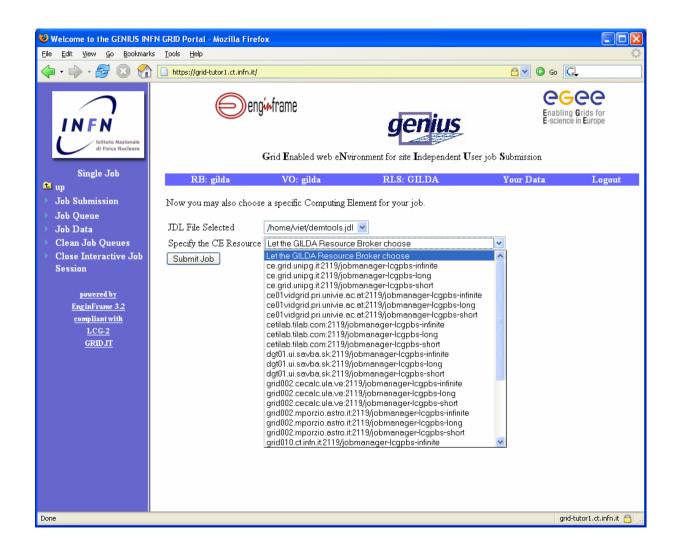
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Job submission

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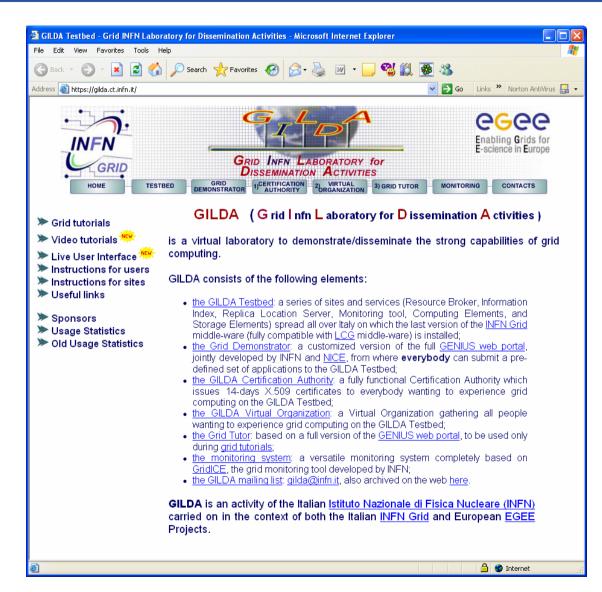


GILDA home page

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More information at https://gilda.ct.infn.it/

- Video tutorials
- Instructions for users
- LiveCD for User Interface



- Note that GILDA is dedicated for training and dissemination purposes
 - Do not overload it with long-time jobs or too many jobs
- For large applications, please join EGEE project and run your applications on EGEE production testbed
- Contact us
 - If you need more information about Grid computing and EGEE
 - If you want to join EGEE project
 - If you have a large application and want to port it to Grid
 - Or for any other Grid-related problems





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More information at demonstration

www.eu-egee.org



