



Enabling Grids for E-scienceE

## Next Steps and Discussion

[www.eu-egee.org](http://www.eu-egee.org)



- **GILDA: Training**
- **Users**
- **Site Administrators**

- **GILDA**
  - Training infrastructure that we used today
  
  - Complete suite of Grid Services in an distributed environment
  
  - Apply for a 2 week account (which can be renewed)
    - GILDA CA Certificate
    - GILDA VOMS membership
    - For self training and pre-porting of applications



**New GILDA usage rule**

**GILDA ( Grid I nfn L aboratory for D issemination A ctivities )**

is a virtual laboratory to demonstrate/disseminate the strong capabilities of grid computing.

GILDA consists of the following elements:

- [the GILDA Testbed](#): a series of sites and services (Resource Broker, Information Index, Data Managers, Monitoring tool, Computing Elements, and Storage Elements) spread all over Italy and the rest of the world on which the latest version of the [INFN Grid](#) middle-ware (fully compatible with [gLite](#)) is installed;
- [the Grid Demonstrator](#): a customized version of the full [GENIUS web portal](#), jointly developed by INFN and [NICE](#), from where **everybody** can submit a pre-defined set of applications to the GILDA Testbed;
- [the GILDA Certification Authority](#): a fully functional Certification Authority which issues 14-days X.509 certificates to everybody wanting to experience grid computing on the GILDA Testbed;
- [the GILDA Virtual Organization](#): a Virtual Organization gathering all people wanting to experience grid computing on the GILDA Testbed; the GILDA Virtual Organization is based on the Virtual Organization Membership Service (VOMS) developed by INFN;

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- **CA Certificates:**
  - IGTF and Catch All CA
    - <http://lcg.web.cern.ch/LCG/users/registration/certificate.html>
  - ASGCCA:
    - <http://ca.grid.sinica.edu.tw/>
  
- **VO Membership**
  - APeSci and TWGrid:
    - <http://www.twgrid.org/aproc/services/vom/>
  - EGEE VOs:
    - <https://cic.gridops.org/index.php?section=users&page=homepage>
  
- **User Interface:**
  - Root and non-root installation instructions
    - [http://lists.grid.sinica.edu.tw/apwiki/The\\_procedure\\_of\\_only\\_UI\\_installation](http://lists.grid.sinica.edu.tw/apwiki/The_procedure_of_only_UI_installation)

- **AsiaPacific Regional Operation Center (APROC)**  
**Mission**
  - Provide deployment support facilitating Grid **expansion**
  - Maximize the **availability** of Grid services
  
- **Supports EGEE sites in Asia Pacific since April 2005**
  - 20 production sites, 8 countries
  - 9 sites joined EGEE since last year

- **Contact APROC:** <http://www.twgrid.org/aproc/join/newrc/>
- **If domestic CA is not available**
  - Register as a ASGCCA RA
  - Obtain user and host certificates
- **Dedicated an administrator with Unix experience**
- **Allocate servers**
- **Study user guide and installation manual**
- **Send configuration file to APROC for review before deployment**
- **Complete registration and certification process**

- **Minimum 5 nodes: UI, CE, DPM, MON, WN**

- **Bare minimum Configuration**

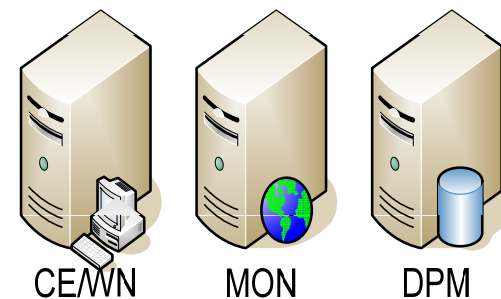
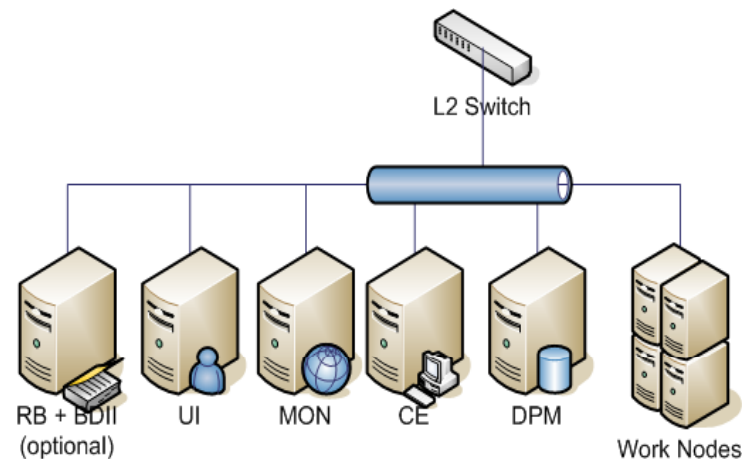
- CE/WN, DPM, MON
- UI **user space** installation available
- Virtual Machine to reduce physical nodes
  - Require more memory on host

- **Node specifications**

- Memory: 254MB 1GB+
- CPU Pentium: 500Mhz 2Ghz+
- Disk: 20GB 80GB+
- Network: 10Mbps GE
- **Application requirements**
  - Job memory requirements Typical file size

- **Network**

- **Public IP** required for all service nodes
- **Avoid private IP** if WN to DPM throughput is important
  - or configure selective NAT and decent router





- **GILDA**
  - <https://gilda.ct.infn.it/>
- **gLite Documentation**
  - <http://glite.web.cern.ch/glite/documentation/>
- **gLite User Guide**
  - <https://edms.cern.ch/file/722398//gLite-3-UserGuide.html>
- **gLite Installation and Configuration**
  - <http://grid-deployment.web.cern.ch/grid-deployment/documentation/LCG2-Manual-Install>
- **More advanced training courses at NA3**
  - <http://www.egee.nesc.ac.uk/schedreg/index.cfm>
- **AsiaPacific Regional Operation Center**
  - <http://www.twgrid.org/aproc/>
  - [roc@lists.grid.sinica.edu.tw](mailto:roc@lists.grid.sinica.edu.tw)