



Version: v1.0

Date: February 16, 2004

The Italian Production Grid for Newbies

Very first information and useful links for new grid users

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1- Introduction

The Italian Grid is managed by the Italian ROC (Regional Operation Centre) team. You can get in touch with them using the mailing list it-roc@inf.n.it. They are also referred with the acronyms CMT (Central Management Team) or OCM (Oper Central Management).

Up to date information regarding the Italian Production Grid (Grid-it) are published into the official web portal <http://grid-it.cnaf.infn.it/>. News, instruction, links and every thing you need to use the Italian Grid can be found there.

The Italian Grid is part of an European Grid that is being built under the EGEE (Enabling Grid for e-science in Europe) project, formally LCG (LHC Computing Grid) project. Nine federations (called ROCs) participate into the European grid. Each federation is composed by one or more European states plus the Russia. At the moment of writing the present grid service offers a computing power of more than 10.000 CPUs. Information about the European Grid and the EGEE project can be found at:

<http://public.eu-eg ee.org>

<http://l cg.web.cern.ch/LCG/>

<http://www.cern.ch>

For information on other/related grid projects: <http://grid-it.cnaf.infn.it> → LINKS

Another source of useful introductive grid material and tutorials can be found on the ALICE web page at the Bologna INFN section site <http://www.bo.infn.it/alice/introgrd/ml l-introgrd.html>.

Note: In this document the notation <http://web-url> → ‘string’ indicates that the user must go to the url and click on the link ‘string’

3 - Information and advices for Users:

- 1) **The Certificate:** get a personal certificate released by one of the LCG recognized Certification Authority (http://proj-lcg-security.web.cern.ch/proj-lcg-security/certification_ authorities.html). In Italy you can ask it to the INFN CA (<http://security.fi.infn.it/CA>). More information at <http://grid-it.cnaf.infn.it> → Get your Certificate.
- 2) **The VO registration:** Virtual Organizations (VOs) are groups that are allowed to use the grid. If you are not a member of a VO you CANNOT use the grid. The list of Virtual Organizations allowed in the Italian Production Grid can be found at <http://grid-it.cnaf.infn.it> → Register to a VO. At this link you can also ask for admission to the preferred VO. Some credentials will be asked to you by the VO manager before accepting your request. If you don't find an appropriate VO or in case of doubts ask the ROC Team. Some VO admission requests must be done with your personal certificate installed in your browser.
- 3) **The ticketing system account:** ask for an account on the grid-it ticketing support system (<http://grid-it.cnaf.infn.it> → Ticketing System → Register for an Account). In case of problems you have the possibility to create a ticket towards an appropriate group that can help you. In case of doubt create it towards the Oper Central Management (the ROC Team), they will redirect (or solve) it for you. More information at <http://grid.it.cnaf.infn.it> → Support → Ticketing System mini how-to.

- 4) **Get an User Interface account:** User Interfaces (UIs) are the Grid access points. You can install one on you own workstation following the instructions at <http://grid-it.cnaf.infn.it> → Install your UI, or ask an account on one of the officially supported INFN-GRID UIs (<http://grid-it.cnaf.infn.it> → Install your UI, ask for an account)
- 5) **Enjoy your Grid experience:** now you are ready to run your first Grid job. Detailed instructions on how to use the Italian Production Grid are at <http://grid-it.cnaf.infn.it> → Use the Grid.
- 6) **Grid Monitor:** if you want to know the Grid status you can have a look at the grid-it monitoring tool (called GridICE) at <http://grid-it.cnaf.infn.it> → Grid Status. A GridICE monitoring for the entire European Grid is also available at <http://grid-it.cnaf.infn.it> → European Site View
- 7) **Downtimes:** if have problems with a site, before asking for help through the ticketing system, check if the site manager posted a downtime advice at <http://grid-it.cnaf.infn.it> → Downtime Advice or at <http://grid-it.cnaf.infn.it> → Calendar.

3 - Useful links quoted in the text:

3.1 - Generic Grid Links:

EGEE project: <http://public.eu-egee.org>
LCG project: <http://lcg.web.cern.ch/LCG/>
CERN home page: <http://www.cern.ch>
Various Grid Project: <http://grid-it.cnaf.infn.it> → LINKS
ALICE bologna web: <http://www.bo.infn.it/alice/introgrd/ml-introgrd.html>

3.2 - Grid-it links:

Italian Grid portal: <http://grid-it.cnaf.infn.it>
Ticketing System: <http://grid-it.cnaf.infn.it> → Ticketing System
<http://grid-it.cnaf.infn.it> → Support
Installation: <http://grid-it.cnaf.infn.it> → Manage your site → Installation
Install an UI : <http://grid-it.cnaf.infn.it> → Install your UI
Grid Guides: <http://grid-it.cnaf.infn.it> → Use the Grid
Site Tests: <http://grid-it.cnaf.infn.it> → Test and Certification
Contacts info: <http://grid-it.cnaf.infn.it> → Documents → Contacts Info
Deployment Status: <http://grid-it.cnaf.infn.it> → Deployment
Downtime Advices: <http://grid-it.cnaf.infn.it> → Downtime advices
Downtime Calendar <http://grid-it.cnaf.infn.it> → Calendar
Allowed Vos: <http://grid-it.cnaf.infn.it> → Register to a VO
UI Accounts: <http://grid-it.cnaf.infn.it> → Install your UI, ask for an account
GOCDB: http://goc.grid-support.ac.uk/gridsite/gocdb/gocdb_ts.html
<https://goc.grid-support.ac.uk/gridsite/db/>
Gridice Monitoring: <http://grid-it.cnaf.infn.it> → Grid Status
<http://grid-it.cnaf.infn.it> → European Site View
LCG Monitoring: <http://goc.grid.sinica.edu.tw/gstat/>
<http://lcg-testzone-reports.web.cern.ch/lcg-testzone-reports/cgi-bin/lastreport.cgi>
Get a Certificate: <http://grid-it.cnaf.infn.it> → Get a Certificate
INFN CA: <http://security.fi.infn.it/CA>
LCG recognised CA: http://proj-lcg-security.web.cern.ch/proj-lcg-security/certification_authorities.html

4 – Useful mailing lists quoted in the text:

It-ROC team: [it-roc<at>infn.it](mailto:it-roc@infn.it)
Italian site managers: [grid-prod<at>infn.it](mailto:grid-prod@infn.it)
Ticketing-system
Administrators: [andrea.caltroni<at>pd.infn.it](mailto:andrea.caltroni@pd.infn.it) and [andrea.ferraro<at>cnaf.infn.it](mailto:andrea.ferraro@cnaf.infn.it)