



## **Manual Installation & Configuration**

### Antonio Retico & Alessandro Usai LCG-GIS

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• To produce and maintain guides for manual installation of LCG nodes



### <u>Acronym</u>

- MIG : Manual Installation Guide
  - (you can forget it as soon as this presentation ends)









- The <u>idea</u> is to have LCG middleware configured on the node <u>exactly</u> the way LCFG would do
- A Manual Installation Guide (**MIG**) for a LCG node includes:
  - List of RPMs for installation on RH 7.3
  - Scripts for downloading
  - List of configuration steps (to be done by 'root')
  - Instructions, RPM lists and scripts for <u>upgrade</u> from the previous version (upgrade just supported between <u>two consecutive tags</u>)
- The RPM lists are NOT exactly the same ones used by LCFG
  - Different underlying installations of RH on <u>different sites</u> may result in <u>different issues</u> of LCG middleware software installation
  - The lists are shaped to allow an installation without conflicts on the current <u>standard distribution</u> of RH7.3
  - Sites which use customized versions of RH (like CERN) may encounter dependencies or conflicts to be handled locally





- The <u>initial version</u> of a guide is done starting from existing installation documentation
  - LCG-0 documentation (very useful)
  - Single modules installation guides (when available)
- The <u>first release</u> of a new guide usually takes a lot of time
  - From list of RPMs installed on a node by LCFG to truly <u>LCFG and RH</u> independent RPM list: simple in principle but articulated in practice
  - Time depends on the node <u>complexity</u>
  - There is often a <u>significant gap</u> from existing documentation and LCG2
  - Configuration steps have to be <u>carefully cross-checked</u> against one (or more) reference machine(s)



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## What is available?









### .. to do better being faster (of course)

#### Immediate needs

Suitable set of guides for all LCG nodes

#### Process improvements

Work closer to C&T to know in advance details on configuration changes

Improve tools supporting the maintenance process

# Re-use of documentation modules

Quality improvements

Line-up our recipes to current quality standards of LCG Documentation

Use of more articulated test suites to deeply check configuration

#### <u>Dreams</u>

Allow dynamical creation of individual installation guides and examples according to site actual settings





Our main task is to comply to sites need



If you have any ideas or contributions to forward to us

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You would like to take part in the process of maintaining and improving LCG guides



Do not hesitate to get in touch with us





## References to available MIGS are included in LCG release notes distributed with TAGS



If you are really looking forward to read them, you can find them in CVS

cvs: (http://lcgapp.cern.ch/cgi-bin/viewcvs/viewcvs.cgi/lcg2/?cvsroot=lcgdeploy module: "lcg2"

"WN Installation & Configuration" file: "manual-install/WN/WN\_manual\_install.txt"
"UI Installation & Configuration" file: "manual-install/UI/UI\_manual\_install.txt"
"SE Installation & Configuration" file: "manual-install/SE/SE\_manual\_install.txt"
"CE Installation & Configuration" file: "manual-install/CE/CE\_manual\_install.txt"
"RB Installation & Configuration" file: "manual-install/RB/RB\_manual\_install.txt"
"BDII Installation & Configuration" file: "manual-install/BDII/BDII\_manual\_install.txt"