



# Quattor usage in Grid-Ireland

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# Usage summary

- 18 distributed sites managed (~ 400 nodes)
- Single CVS repository (**moving to SVN**)
- Replicated software repositories (web servers) at sites
- Three deployment servers
  - Production grid
  - Test grid (**now SVN-compatible**)
  - E-learning grid

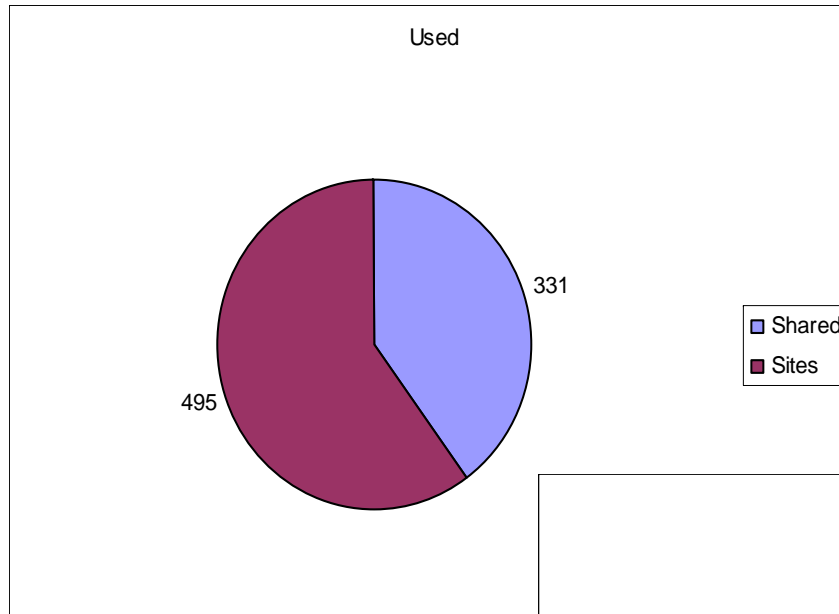


# Recent developments

- Reinstallation of entire infrastructure using Quattor/Xen
  - ~ 17 sites (5 nodes per site)
  - Fully-automated PXE installation of hosts and guests
- Migrating to Subversion repository
  - Set up test repository
  - Migrating local templates:
    - ~ 886 in use, ~ 259 obsolete (maybe fewer)
  - Integration with local web deployment tool
- New compute resources
  - Profiles ready for ~140 Condor VMs (~30 deployed)
  - Dedicated grid cluster: 96\*8-core; SL 4 x86\_64; gLite 3.1 (next few months)

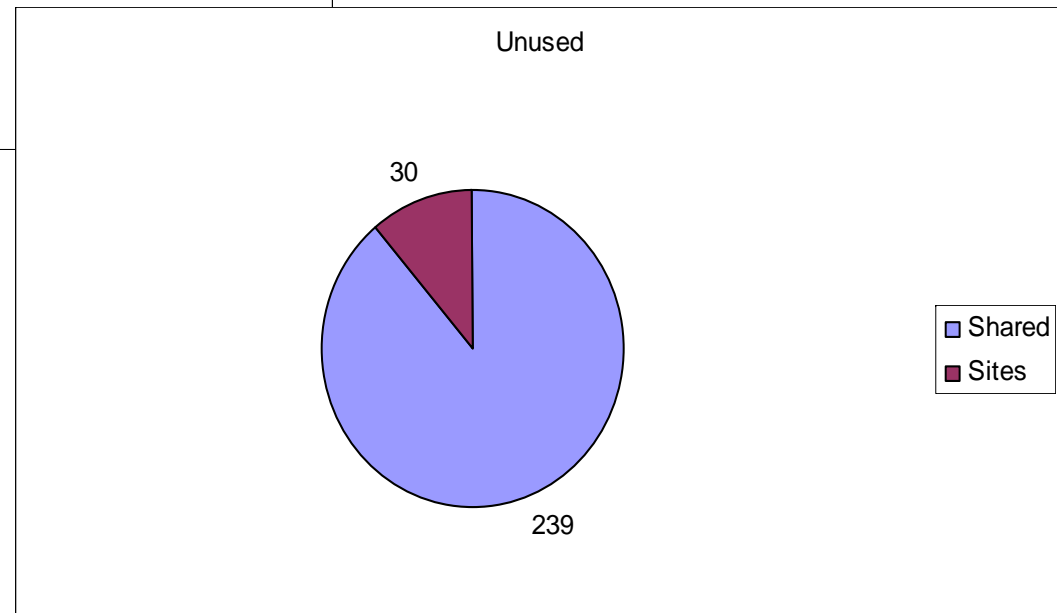


# Local templates (why so many?)



There are still at least 331 local templates in use: Xen, VOs, local config

Also 495 in sites (mostly object tpls)



Most of the unused templates are obsolete local customisations (shared)



# Grid-Ireland QWG usage

- Previously:
  - “Pointer” to particular QWG revision (e.g. 1787); checked out semi-automatically
  - Profiles compiled on deploy server and XML pushed out to sites
  - “Real” sites containing clusters compiled hierarchically (could select sites)
  - Software repository mirrored to sites: hostname substitution used in repository templates
- New plan:
  - QWG pulled in via svn:externals
  - Keep site hierarchy – local target “compile.sites”
  - Namespace all local templates
  - Use Stijn’s “dummy” WN speedup



# Issues

- Desperately need monitoring integrated (e.g. to detect failed deployments)
- int.eu.grid site & cluster backed out of Quattor due to conflicts with APT/YAIM
- Getting started with Quattor difficult
- Hard to keep complexity manageable
- x86\_64/Xen packages (glibc etc.)



# Goals (from March)

- Manage more servers with Quattor **No significant progress**
- Refactor Grid-Ireland templates **Getting there**
  - Remove relics of past customisations
  - Get in line with standard SCDB/QWG
- Active use of ncm-xen particularly for replica creation **Used for major upgrade**



# Current goals (Oct. 07)

- Finish migration to subversion (11/07)
- Deploy new cluster
- Upgrade core services (web server, repository, etc.) on new hardware (VM)
- Get ops team (4-5 people) up to speed