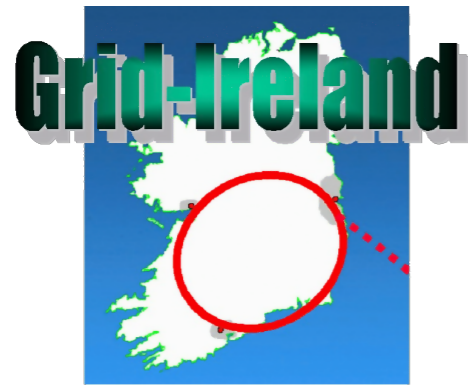


Quattor use in Grid-Ireland

David O'Callaghan
November 2009



e-INIS

The Irish National e-Infrastructure



- Grid-Ireland is NGI for Ireland
- e-INIS is developing Irish national e-Infrastructure
- Computer Architecture & Grid research group at TCD
- Operates Grid-Ireland OpsCentre and EGEE ROC for Ireland

Systems

- 2 TCD sites + 17 Irish sites + 3 test sites
- 491 machine profiles
- 18 Quattor servers
- 55 virtual hosts and 182 guests

People

- 10 admins (9 since July)
- 6.7 commits per day (since March)

Quattor Set-up

- SCDB repository
- Subversion (and one bazaar client)
- Panc version 8.2.8
- Full compile takes 4 mins
on desktop

Nagios

- Support v3
- Links to multiple SAMs
- Christos has more details...

QWVG Templates

- Switch from using `svn:externals` to a copy
- Store QWVG rev no. (not history)
- Previously had lots of exceptions in *grid-ireland*
- Encourages changes to be checked in to QWVG

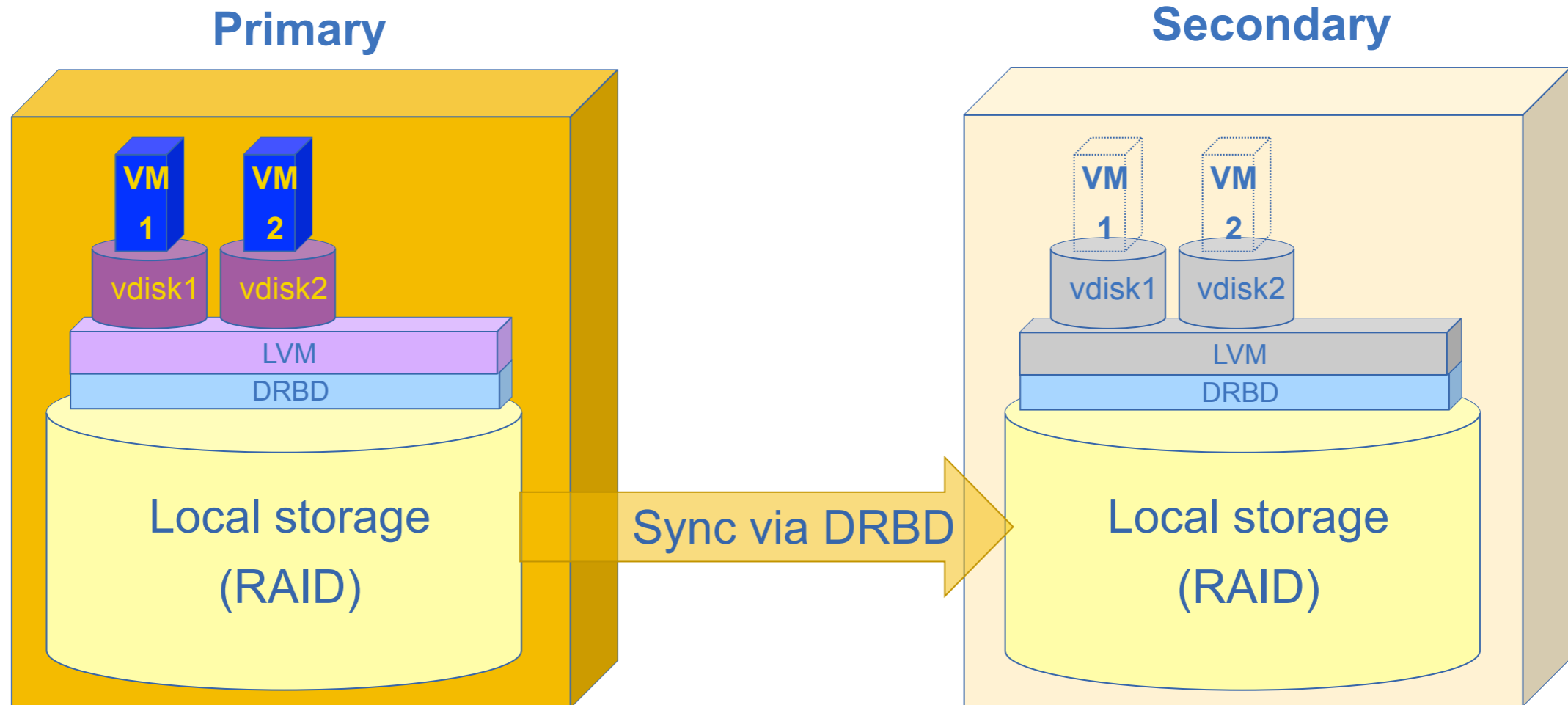
quattor command

- `quattor fetch`
- `quattor configure --all`
- `quattor configure filecopy`
- `quattor list`
- `quattor query --component spma`
- `quattor query --dump /system`

(only one known user!)

New Services

- Shibboleth, Boinc, RT
- ... but mostly using filecopy



- **DRBD under LVM and Xen provides simple and effective redundancy**
 - **Replicating whole storage is straightforward**
 - No need to individually replicate VMs' storage
 - But means “all or none” failover for VMs
- Stephen Childs, e-INIS All Hands Meeting 2009

Future

-  quest
- Clouds
- As NGL, increase number of active sites