

pps-dCache @ gridKa

Forschungszentrum Karlsruhe GmbH
Institute for Scientific Computing
P.O. Box 3640
D-76021 Karlsruhe, Germany

Doris Ressmann
Silke Halstenberg
Jos van Wezel

<http://gridka.de>

pps-dCache 1.8 headnodes

pps-dcacheh1

2x2.8GHz 4 GB mem

134GB disk SL4

kernel:2.6.9-42 / 64 bit

dCap, dirDomain

utilityDomain, lmDomain

dCacheDomain

admin-door, gPlazma

httpdDomain, StatisticDomain

xrootdDomain

pnfsServer, pnfs Manager

Pnfs und companion DB

pps-srm-fzk.gridka.de

2x2.8GHz 4GB mem

134GB disk SL4

kernel: 2.6.9-42 / 64 bit

srmDomain

InfoProvider

SRM postgres DB

pps-se-fzk.gridka.de

Lcg info system
(GIIS)

gLite-SE

Storage Pools

3,2 GHz / 2 GB mem / 2.6.9-34 kernel 64 bit SL4

fileserver with 5.2 TB for pools

1 pool 1.7 TB tape connected for all VOs

1 pool 1.7 TB for tape tests (only used by gridka staff)

1 pool 1.7 TB disk-only

fileserver with 5.2 TB for pools

1 pools 2.6 TB tape connected (did not come up after update)

1 pool 2.6 TB disk-only

VO support

- ops, dteam, alice, atlas, cms, lhcb,
- no dedicated pools for a VO
- 3 link groups (Test-link, All-tape-link, All-disk-only-link)
 - psu create link all-tape-link any-protocol all-store world-net
 - psu set link all-tape-link -readpref=20 -writepref=20 -cachepref=20 -p2ppref=-1
 - psu add link all-tape-link tape-pools
 - psu set linkGroup attribute all-tape-link-group HSM=TSM
 - psu addto linkGroup all-tape-link-group all-tape-link
- Is this enough for all SRM 2.2 cases e.g. Custodial, Near line,...Space Manager configuration?
- all-store covers SRM1.1 directory tags!!!

To do

- gPlazma authentication VOMS
 - different roles e.g for space reservation
- more tests of the new tape connection
- get ATLAS tests going
- check LHCb requirements.....

Info Provider

- In dCache 1.7 Pool Manager
 - psu create pgroup ops
 - psu addto pgroup ops f01-015-128-e_ops
- GRIIS and dCache SRM on same host
- infoProviderStaticFile=/opt/lcg/var/gip/ldif/static-file-SE.ldif
 - link to /opt/d-cache/jobs/infoDynamicSE-provider-dcache
 - Same for plugin

In dCache 1.8 a pool belongs to one and only one pgroup !!!!

open issues

- accounting / info system:
- separation of SE and SRM
- Is it still possible to have pools shared by different VOs in 1.8?
- Flavia's DN (Emailaddress=....)
 - without gPlazma its ok, it is used as (E=...)
 - with gPlazma the requests are with (Emailaddress=....)

QUESTIONS