

Status of Database Services at GridKa

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CERN

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Status GridKa

- ▶ Today, we have different local database installations for each service:
 - an Oracle database for FTS
 - a MySQL database for LFC
- ...
- ▶ In the future it is desirable to have a robust and failsafe database installation for the different services

Database Deployment at GridKa

- ▶ No precise requirements from GridKa users currently
- ▶ No long-scale plan for database support in GridKa currently
- ▶ No dedicated hardware for database services currently

we need better communication

Streams Testbed Hardware

10gRAC with

- ▶ 2 Intel ® Xeon™ CPU dual 2.40GHz , 1.5GB RAM
- ▶ 36 GB local disk (RAID1)
- ▶ 100Mbit/s network, Cluster Interconnect: TCP/IP
- ▶ redundant SAN Adapter → no real space limit
(IBM FastT 700, 60 GB at the moment)

Streams Testbed Software

- ▶ Redhat ES 3.0 Update V4
Patchlevel Kernelversion 2.4.21-27.Elsmp
- ▶ 4 GB swap, 400MB /tmp
- ▶ Oracle 10.1.0.4
 - Nodes: 2
 - Cluster Interconnect: TCP/IP (Fast Ethernet)
 - Storage: SAN Storage (IBM FAStT700)
 - HBAs: Qlogic 2340
 - Storage data: ASM : Automatic Storage Management
Basis: shared storage devices (SAN)
 - Storage OCR: shared raw devices
(Oracle Cluster Registry and voting disk)
 - Storage Binaries: local filesystem
 - Cluster Software: CRS : Cluster Ready Services
Basis: shared storage devices (SAN)
 - ORACLE Version: Real Application Cluster, Cluster Database Software
(ORACLE 10g 32 Bit RAC, Enterprise Edition)
- ▶ STREAMS activation following CERN documentation

Problems during Streams-Test

No stable connection with CERN!

- ▶ Test from outside firewall with 1Hz PHP-connect: no problems
- ▶ Test communication with „ethereal“: is change of naming the instance (name/IP) the problem?
- ▶ Test with different listener names
- ▶ Test to provide DNS-names extern (instead of /etc/hosts)
- ▶ not solved at the moment....

next plans

- ▶ try to fix streams problem with RAC
- ▶ try to find out the need for next year
- ▶ participate in further tests in 3D

maybe...

heavy load test with more than 2 nodes on
infiniband technology?