

Goal of Unit IV

- get more familiar with tracking and solving errors in dCache
- go through checklist to trace the error
- exercise: simulated pool failure on your PoolNode and how to recover from it

checklist in case of errors

- check usermapping and Unix FS permissions in PNFS
- check billing (file or database) for other failed transfers
- increase debug level of client commands
- watch the dCache log files
 - located at /var/log/<DomainName>.log
 - SRM logfile: /opt/d-cache/libexec/apache-tomcat-5.5.20/logs/catalina.out
 - increase log level of dCache components

Checklist continued

- use the ssh-interface of dCache to:
 - check the PoolManager for causes of hanging transfers
 - check CacheLocation of erroneous files to get the pool(s) the file resides on
 - check PoolManager: is that pool registered, pool status (enabled/disabled, ronly, etc.)
- check the web-interface of Cache
 - check cellinfo to detect cells being offline
 - check pool mover page for the length of the mover queues
 - pool usage (free/cached space available)

Exercise

- simulated pool failure on your PoolNode
 - stop the pools on your PoolNode
- try to read a file from the UI with gsiFTP, which resides on the “failing” pools
=> hanging transfers
- go through the checklist to recover from it