

Göttingen, March 16-18 Preparation Workshop

dCache German support

Structure/Dates

- The entire workshop can be done in 3 Block, ½
 day each.
 - Intro and Migration to the next Golden Release
 - Protocol session (NFS4.1/WebDav/xroot)
 - gPlazma, Migration Module, etc, future development.
- Dates (likely)
 - One full day: Wednesday, March 16
 - One morning: Thursday, March 17
 - Needs confirmation with Göttingen Colleagues.

Agenda/Details

Block I

- Introduction 30' (Doris, Göttingen people)
- Migrating to 1.9.12 (Paul)
 - Theory first: when to use the script and when not
 - Hands on with simple example + one exotic example e.g. setting java memory per domain (Oleg)
 - Demonstration covering more complex topics: maybe complex network topology.
 - Binding doors to particular interfaces.
 - Giving domain arbitrary names

Agenda/Details

- Block 2 : Protocol session
 - NFS 4.1 (patrick)
 - Theory
 - Demonstration
 - WebDav (Oleg)
 - Theory
 - Demonstration
 - xRoot (Sergey)
 - Theory
 - Demonstration with ROOT?
 - ROOT demonstration : maybe providing a Smart script verifying all protocols.
 - Hands on protocols. And FAQ's

Agenda/Details

Block 3:

- gPlazma 1 1.5 hours (dCache.org: Karsten)
 - Theory
 - ARGUS integration 5' plus ARGUS itself 10'
 - Demonstration on possible change in policy (DN,uid,gid) 10
 - Stress advantage of improved user handling (legal issues)
 - ACL's and setacl, getacl
 - Demonstration on gPlazma 2 and ACL's (all protocols)
- Migration Module 20' (Gerd)
 - Theory
 - Demonstration
- Bits and Pieces 25' (Anton)
- Optionally PIC report on migration to 1.9.10.
- General questions
- Future development

Main Tracks

- Golden Upgrade (1.9.5 to 1.9.12)
- "New Technologies" Track
 - WebDAV
 - NFS 4.1 (Parallel NFS)
 - xRoot protocol
 - gPlazma-two
 - News on the Pool Migration Module
- Bits and Pieces

Details

Golden upgrade 1.9.5 to 1.9.12

- Introduction of new configuration system.
- Demonstration
 - Upgrade with script.
 - Examples for medium complex upgrades
- Hands on
 - Easy script
 - Medium complex upgrade
- Demonstration of some very complex examples

"New Technologies" Track I

- NFS 4.1 (pNFS)
 - Theoretical Background (Intro)
 - How does the p in pNFS works for dCache ?
 - How is NFS 4.1 integrated ?
 - Cost Calculation
 - ACL's
 - Authentication
 - How do I use Kerberos with dCache/NFS4.1
 - How is X509 Authentication handled.
 - Clients
 - Status of standards kernel
 - What do I need to run the pNFS Kernel with SL5

"New Technologies" Track II

WebDAV

- What is WebDAV
- Which Authentication methods are available
- How are Space Tokens handled.
- Redirection and clients.
- Limitations (X509 Proxies, ACL's)
- Details on Client OS and Software
- Demonstration: Windows 7, Mac OS X, Linux clients

"New Technologies" Track III

- xROOT protocol support in dCache
 - Supported functionality
 - X509/GSI Authentication
 - RM command ???
 - Improved
 - No connection close
 - Reuse of connections

"New Technologies" Track (IV)

- gPlazma 'too'
 - Benefits of the new gPlazma mechanism.
 - Pluggins
 - What is fixed (designwise, etc)
 - How to configure 'new gPlazma'.
 - Planned migration.
- News On the Pool Migration Modules
 - New features (compared to 1.9.5)

Bits and pieces I (Cont V)

- GLUE 2.0
 - Motivation; migration
 - How to configure in dCache ?
- JMS
 - Why should you switch to JMS ?
 - How to switch ?
 - How to scale out ?
- New Log system
 - Advantages
 - How to customize
- P2p transfers:
 - Jon's algorithm
 - Using tags to define larger p2p units.

Bits and pieces II (Cont VI)

- SRM
 - Jetty instead of Tomcat
 - SSL instead of GSI
 - Why are we doing this?
 - How to configure
 - What is missing
 - Synchronous getTURL
 - Advantages
 - How to configure
 - Improved performance
 - Slides from Dmitry
 - Space Manager
 - Multiple Link Groups

Bits and pieces III (Cont VII)

- No NFS mount point needed anymore.
- How to run as Non-ROOT.
- Details on single port per protocol.
- Support of SSH version 2.
- Progress bar for dccp (-H option)
- Important fixes since 1.9.5
 - Pin Manager

Deadlines

- Doris asking Goettingen about organizational details.
- User-forum DORIS e-mail till end of THIS week.
- Arranging for indico (Patrick) including registration. Patrick finds out about Credit card in indico. (Till end of next week)
- Asking PIC (Patrick, not before Jan 26)
- Asking EMI (Patrick) about support.
- Next Phone meeting: March 3, Thursday.