Non-technical news
Some changes at DESY

News on the team composition

- New person (N.A.) starting an about 2 months
- Karsten (QoS in Storage and Release mgnt)
- Marina (RESTful Service and Release mgnt)
- Anupam (AAI)
- Femi (GUI and Web 2 applications)
- Jürgen (AAI)

New people

- New person (N.A.) starting an about 2 months
More new people

Dr. Millar and Baby Ben

Benjamin joined
2016-03-23, at 08:47
Reminder: Our collaboration
The dCache.org collaboration

Next Generation Chimera
Federated Storage
Student on

DGF

Nordic DataGrid Facility

Nordic Data Grid Facility

DESY

Hamburg University

Hamburg University

Fermilab

HTW
On funding
The project aims for an Open Source Data and Computing platform targeted at scientific communities, deployable on multiple hardware, and provisioned over private and public e-infrastructures.

• Horizon 2020 project started April 2015
• Project led by INFN Italy
• 26 Partners = 17 European Countries
• Budget 1.1 Million Euros (800,000 for dcache)
• Duration 30 months (about 15 left now)
1. Self-service, on-demand
2. Access through the network
3. Resource pooling
4. Elasticity (with infinite resources)
5. Pay as you go

In the end, Applications Rule.

Stolen from Davide Salomoni (Project Director)

INDIGO in a nutshell
Funding and technology directions
Funding influences dcache

Data Life Cycle

Multi Tier Storage

Quality of Service

Migration & Chiving

2018

2015

2013

2010

Standardization

Indigo Datacloud

Contributing to the Dynamic Federation

HTTP / WebDAV

NFS 4.1 / pNFS

Deploying new technologies

Deploying new products

Indigo Datacloud

AAI

Contributing to the Dynamic Federation

Multi Tier Storage

Quality of Service

Migration & Chiving

2018

2015

2013

2010

Standardization

Development topics

Funding influences dcache
High level technical overview
New Technologies in dCache

- SSDs
- Spinning Disks
- Tape, Blue Ray...

Ceph

Unlimited Hierarchical Storage Space

Web-based authentication and delegation (Open Id Connect and Macaroons)
New approaches in dCache
New approaches in dCache

Class A
Class B
Class C
Class D

(Select your storage class)

Quality of Service

RESTful Service

Your own Apps

dCache.org
And many more things afoot ...
On the meeting today and tomorrow (resorted agenda)
We'll talk about (cont.):

- Multi VO SRM in dCache (Marc)
- Gantry (Ulf)
- dCache in Docker (Tigran)
- Puppet: Oleg, Christina
- dCache Operations
- dCache Release Process (Marina and Jurgen)
- What's new in dCache (Gerd)
We'll talk about:

- Ongoing development
  - Sharing directly in dCache and QoS (me too)
  - Delegated Authorization (me)
- Ongoing development – DEMO on the Resilient Manager (Dmitry)
  - RESTful API into dCache (Marina)
  - New Graphical Interface (Femi)
  - New Authentication Mechanisms (Anupam)
  - New Storage Interfaces, CEPH (Tigran)
- dCache Labs:
  - Trying out dCache for local use at Nikhef (Andrew)
  - Trying out dCache for local use at Gerd (Gerd)
- dCache lab's:
  - New Authentication Mechanisms (Anupam)
• Special Announcements by Mattias

Funny (according to Christian) of storage technologies... or something really whatever you think is worth mentioning in terms

Lightning Talks

Virtual Environment On a Mass Storage System „Exploring the Efficiencies of Operating dCache in a Dave Fellinger

Special Contributions
Enjoy the workshop
dCache is well prepared Historically dCache supports multi-tier storage and the corresponding transition.

Media

Manual and Automatic

Transitions

Virtual File-system Layer

NFS/pNFS

httpWebDAV

gridFTP

xrootd/dcap

the corresponding transition.
Scientific Data Lifecycle

- High Speed Data Ingest
- Fast Analysis
- Wide Area Transfers (Globus Online, FTS)
- NFS 4.1/pNFS
- GridFTP
- Visualization & Sharing by WebDAV, OwnCloud
- By WebDAV, OwnCloud

SciCache.org
Further reading

www.dcache.org

The END