dCache in 3 or 4 slides

by Patrick for the dCache Team

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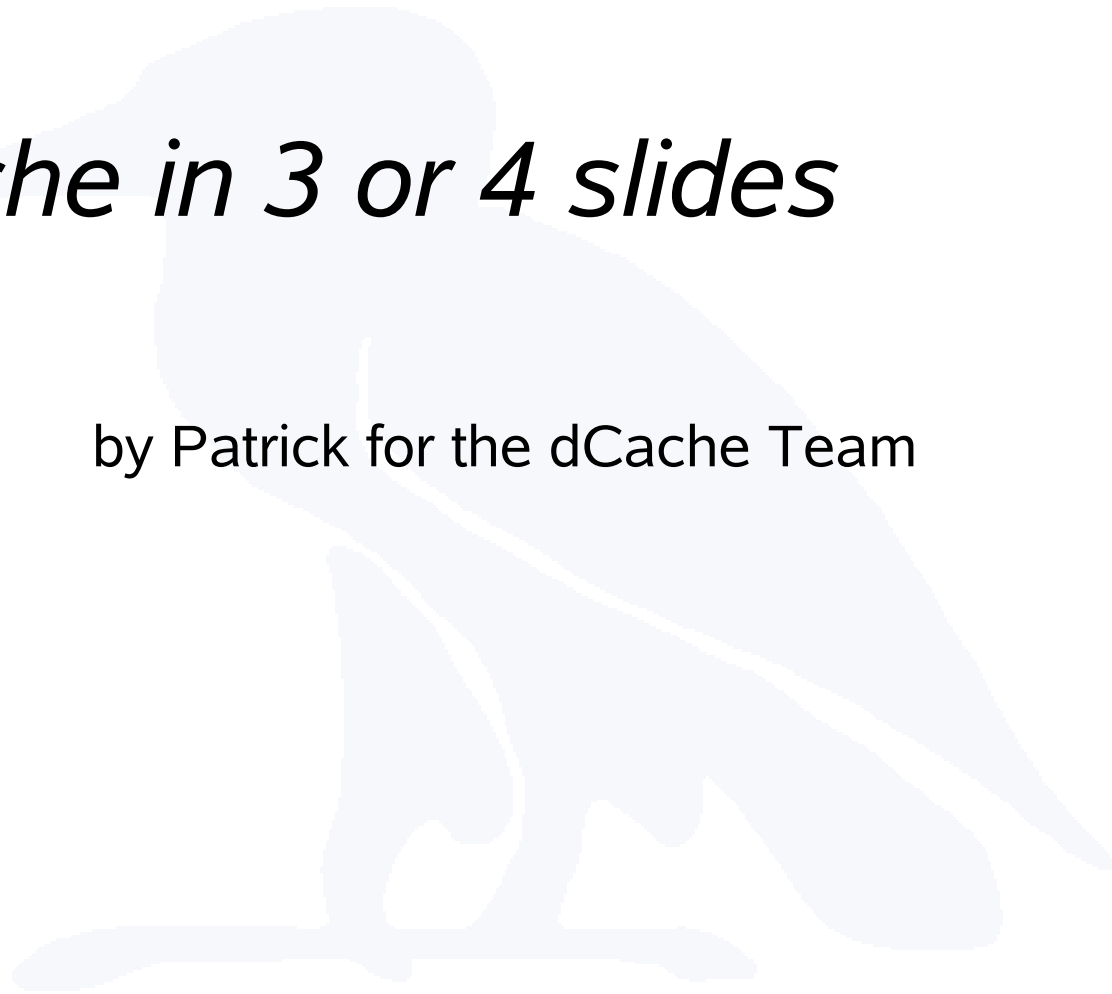
SRM in general

Resource Requirement footprint needs to be significantly reduced !
Timur et al. are working on this.

SRM 2.2

Timur (Interface and DB) and Tigran (dCache core) plan to have
the first WLCG compliant SRM 2.2 dCache ready mid of march.

xRootd integration

- Protocol plus 'non standard Alice' authorization done.
- Gsi Authentication planned.

gPlazma

- All protocols except xRoot integrated.
- GUMS integrated.
- Scripting workaround for non-GUMS (LCG) sites.

Chimera (pnfs replacement)

- First phase of development done (Tigran)
- Performance evaluation and code review in progress (Vladimir)
- Evaluating pnfs <-> chimera migration scenarios.
- ACL sub project started end of December. (David, Dirk)

gsiFtp improvements (Nordic Data Grid Facility)

- NDGF plans for single dCache instance spanning multiple countries.
- Need to improve current dCache gsiFtp implementation to avoid long data path.

Resilient dCache module (Alex)

- In great demand.
- Second, improved version in preparation.

Improved Monitoring

- SRM watch (Dimitry)
- dCache monitoring plots (Vladimir)
- much more is needed. (N.N)

nfs 4.1 (Tigran)

- nfs access to name-space and data.
- nfs4.1 supports distributed data locations (as dCache does)
- nfs clients will come for free.

HSM interface improvement (Jon and Patrick)

- very important for Tier I's.
- First version of central flush manager ready.

* **Fully automated *code to product* chain [Owen,Vladimir].**

  - checking out CVS archive
  - code compilation
  - RPM production
  - running test suite
  - publishing on web page and APT repository

* **Slogan : dCache in 10 minutes (fast installation and configuration) [Owen,Ted]**

* **Adjusting dCache packaging to VDT needs in progress [Ted].**

* **Goal : only one set of RPMs for all distributions (**dCache.org, CERN apt, VTD**)**

* **CERN and dCache**

  - production dCache in CERN repository
  - dCache certification done by CERN staff against dCache instance at DESY

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Version management (for the near future)

- **1.7.0** current production version (Used by official production sites)
- **1.7.1** floating pre production version in preparation for SRM 2.2 (branch started last week)
- **1.8.0** first SRM 2.2 version (mid – end of March)

Funding

DESY, FNAL, OSG, d-grid, NDGF, (EGEE : very little and very unofficial)

dCache Distribution

Tier I's

1.7.0 : FNAL, BNL, gridKa, IN2P3, Triumf.ca, NorduGrid

1.6.6 : RAL (will move to Castor, because they need HSM)

(PIC might move to dCache, if they find good, cheap, fast, reliable HSM back-end :-)

Tier II's

non US : in the order of 40

US : you know better

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