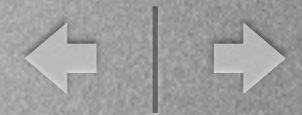




Analysis @ Tier-2s

- Discussion/Decisions -

Thomas Kress
PADA Meeting
2009, January 8th



Phedex Accounting

- Thanks ! A huge step forward !
- Convenient accounting on DB level for new transfers and also old data
- Nice overview per group & site
- DataOps registered all *centrally* distributed Summer08_v2_1 data
- v2_1 & v2_2 to be kept *centrally* in parallel ?
- Should other (which ?) old central data go into the system ?

Group Usage

DataOps

Node	Subscribed	Resident
T2_DE_RWTH	867.50 GB	867.50 GB
T2_US_Nebraska	3.97 TB	3.69 TB
	4.82 TB	4.54 TB

not up-to-date

FacOps

Node	Subscribed	Resident
T2_US_Nebraska	1.04 TB	1.04 TB
	1.04 TB	1.04 TB

b-tagging

Node	Subscribed	Resident
T2_IT_Pisa	6.25 TB	6.25 TB
T2_US_Nebraska	4.59 TB	4.58 TB
	10.84 TB	10.82 TB

ewk

Node	Subscribed	Resident
T2_IT_Pisa	7.85 TB	7.79 TB
	7.85 TB	7.79 TB

tau/nflow

PhEDEx - CMS Data T

[Info](#) [Activity](#) [Data](#) [Reque:](#)

[Daily Reports](#) | [Daily Report](#) | [File S](#)

View node: T2_US_Nebraska

T2_US_Nebraska Group Usage

Group	Subscribed	Resident
DataOps	3.97 TB	3.69 TB
FacOps	1.04 TB	1.04 TB
b-tagging	4.59 TB	4.58 TB
top	2.71 TB	2.71 TB
tracker	1.40 TB	1.40 TB
undefined	71.22 TB	71.04 TB
	84.94 TB	84.46 TB

T2_US_Nebraska Custodial Data

Custodial	Subscribed	Resident
Non-Custodial	84.94 TB	84.46 TB
	84.94 TB	84.46 TB

T2_US_Nebraska Non-subscribed Data

Source	Non-subscribed
3.82 TB	0.00 B



„Home“ Tier-2

- A CMS user has one *default* Home Tier-2 (2009: O(0.5-1 TB) t.b.d.)
- Policy & setup for CERN users to be defined & checked with CMS-IT management & FacOps
- How to find „Tier2 friends“ for countries w/o a national Tier-2 ?
- Countries with several Tier-2s could internally distribute their users among their sites
- I think we/Tier-2 sites/... need a way to easily get the information which is a user's default home Tier-2 location !



SiteDB :: Edit Person

Surname	Forename	Distinguished Name	Username
<input type="text" value="Clinton"/>	<input type="text" value="Bill"/>	<input type="text" value="grids/OU=People/CN=Bill Clinto"/>	<input type="text" value="clinton"/>
Email	Primary Phone	Secondary Phone	IM Handle
<input type="text" value="Bill.Clinton@cern.ch"/>	<input type="text"/>	<input type="text"/>	IM Service <input type="text" value="none"/>

[Edit these details](#)

You have the following site and group roles.

- To use the automatic Crab stage-out store/users/<HNusername>, a user has to fill his DN into his personal SiteDB page
- Proposal: extent this page by *default* „Home Tier-2“ (T2_xx_yy menu list and (perhaps also ?) a blank field for (CMS Grid-enabled) T3 SEs)
 - the user maintains this information !
 - this „T2 Home“ information is visible to the Tier-2 support,
 - does not mean that this is the only location a user can stage-out to
 - would require some work from the SiteDB developers
 - would make sense to integrate this default home Tier-2 into Crab, mapping T2_xx_yy - SE name/path for *default* stage-out



Group Space

- Phedex transferred data will end in /store/data/ or /store/mc/ and can/should be accounted in Phedex DB towards group or central (DataOps, FacOps)
- A popular use case is that a group representative runs CRAB sub-skims
 - can be „Crab-registered“ in local-scope DBS and is then visible to all users, but not yet possible/trivial to replicate such data to other sites
 - where to store such data ?
 - /store/users/<userID>/ is usually disliked
 - /store/results/<groupname>/



Group Space con't

- /store/results/<groupname>/
 - finally (not yet clear when !) data in this location have to fulfill some requirements (EDM format, file sizes, ...) in order to become registered in Phedex for transfers, but we should start although an appropriate tool is missing
 - should have a consistent naming convention for the group name
 - so far defined in Phedex (**problematic** for Posix): *b-physics*, *b-tagging*, *e-gamma*, *ewk*, *exotica*, *forward*, *heavy ion*, *higgs*, *jets/met*, *hcal*, *muon* (=DPG+POG), *qcd*, *susy*, *tau/pflow*, *top*, *tracker*, *trigger* (+ *DataOps*, *FacOps*, *undefined*)
 - best if the 3 problematic group names could be slightly changed transparently in Phedex system



Group Space con't

- then Tier-2 sites have to set up storage area (and write access, TFC) for the supported groups, e.g. /store/results/higgs/
- Be aware: Tier-2 data are usually not backed-up !



T2/group Associations

- Two new requests
- Currently in discussion with physics/detector management, general policy to be decided how to proceed in general with new applications