Sites compute and storage description

Some clean-up is needed...

This is not a sexy talk

This is about the legacy stuff we have around and makes our life difficult

Many site attributes "leftover"

- in the next slides: list few key places where we have a lot of things that are "maybe used - maybe not used anymore but we have still that small bit that need fixing"

Why?

- Why? Everybody is talking about simplification, consolidation, automation, etc...
    - But how can we do this if it's taking several experts days to explain how our system works?
- Lightweight sites??
    - No way! With the examples above bootstrapping a site is complicated
    - Experts always needed, not clear what happens if someone touch something.
- Whenever we make a change is supercomplex to understand the impact

DDM endpoints

DDM endpoint info

Operations: 📋 Clone DDM Endpoint   📝 Update DDM Endpoint information   📄 Show Changes log

Name:	AGLT2_DATADISK
Type:	DATADISK
SRM:	token:ATLASDATADISK:srm://head01.aglt2.org:8443/srm/managerv2?SFN=/pnfs/aglt2.org/atlasdatadisk/
Token:	ATLASDATADISK
Phys Group:	
Is Rucio enabled:	No
Domain:	.*aglt2.org.*/atlasdatadisk/.*
mkdir:	No
Is cache:	No
Is Deterministic:	Yes
Is Volatile:	No
Space method:	other
Space Usage:	gsiftp://dcdum02.aglt2.org:2811/pnfs/aglt2.org/atlasscratchdisk/space-usage.json
Tape:	No
Pledged:	No
Tool Assigner::	lcg
LFC:	CERN-PROD_RUCIO_Catalog
Site:	AGLT2
ATLAS Site:	AGLT2
SE info:	
Resource:	New Storage Relation: NULL (NULL)
Storage element:	AGLT2-SRM-head01.aglt2.org (srm://head01.aglt2.org:8443/srm/managerv2?SFN=)
Default FTS:	BNLFTS3/FTS (BNL-ATLAS)
Tier1s FTS:	None
CERN FTS:	None
REST FTS master1:	BNLFTS3_REST/FTS (BNL-ATLAS)
REST FTS master2:	CERNFTS3_REST/FTS (CERN-PROD)
REST FTS master3:	RALFTS3PILOT_REST/FTS (RAL-LCG2)
REST FTS test:	CERNFTS3PILOT_REST/FTS (CERN-PROD)
Permission Group:	defaultPermission
Permissions	**Role:** /atlas/Role=production **Permissions** frwpuda **Role:** /atlas/Role=NULL **Permissions** fr---
	Change permissions Create new Permission group for this endpoint
DDM Groups:	ALL TIER2DS UMICH USASITES USTIER2DS USTIER2S
Data Policy:	T0Disk, Nucleus
State:	ACTIVE
State comment:	
State update:	None

PandaQueue 1

SchedConfig parameters

Final value of parameter marked with green color

Parameter	Default Value from parent PQ (CERN–PROD_VIRTUAL)	Ovewritten Value (ANALY_CERN_T0_SHORT)
accesscontrol:		
allowdirectaccess: (deprecated)	True	
allowednode:		
allow FAX:	False	True
allow JEM:	False	False
appdir:	/cvmfs/atlas.cern.ch/repo/sw|nightlies^/cvmfs/atlas-nightlies.cern.ch/repo/sw/nightlies	/cvmfs/atlas.cern.ch/repo/sw|nightlies^/cvmfs/atlas-nightlies.cern.ch/repo/sw/nightlies
autosetup post:		
autosetup pre:		
availablecpu:	None	None
cachedse:	None	None
capability:	score	
catchall:		
cmd: (deprecated)		
cmtconfig: (deprecated)		
copyprefix: (deprecated)	srm://srm-eosatlas.cern.ch/^root://eosatlas.cern.ch/	srm://srm–eosatlas.cern.ch/^root://eosatlas.cern.ch/
copyprefixin: (deprecated)	srm://srm-eosatlas.cern.ch,srm://srm-atlas.cern.ch^root://eosatlas.cern.ch/,root://castoratlas.cern.ch/	
copyprefixin fax direct: (deprecated)		srm://srm–eosatlas.cern.ch/^root://atlas-xrd-eos-rucio.cern.ch:1094
copyprefixin fax xrdcp: (deprecated)		
copysetup: (deprecated)	/cvmfs/atlas.cern.ch/repo/sw/local/xrootdsetup.sh	/cvmfs/atlas.cern.ch/repo/sw/local/xrootdsetup.sh^False^False
copysetup fax direct: (deprecated)		/cvmfs/atlas.cern.ch/repo/sw/local/xrootdsetup.sh^False^True
copysetup fax xrdcp: (deprecated)		
copysetupin: (deprecated)	/cvmfs/atlas.cern.ch/repo/sw/local/xrootdsetup.sh^srm://srm–eosatlas.cern.ch^root://eosatlas.cern.ch/^False^False	/cvmfs/atlas.cern.ch/repo/sw/local/xrootdsetup.sh^False^True
copysetupin fax direct: (deprecated)		
copysetupin fax xrdcp: (deprecated)		/cvmfs/atlas.cern.ch/repo/sw/local/xrootdsetup.sh^False^False
copytool: (deprecated)	xrdcp	xrdcp
copytoolin: (deprecated)	xrdcp^dummy	xrdcp^dummy
corecount:	None	None

PandaQueue 2

corepower:	9.86	0.0
countrygroup:		
datadir: (deprecated)		
ddm:	CERN-PROD_DATADISK,CERN-PROD_DATATAPE,CERN-PROD_MCTAPE	CERN-PROD_SCRATCHDISK,CERN-PROD_DATADISK
deprecate_oldmover:	False	
depthboost:	None	None
description:	Short analysis queue for ATLAS using Tier0 resources	
direct access lan:	False	True
direct access wan:	True	True
dq2url:		
email:		
environ:		DATAPATH=/afs/cern.ch/atlas/conditions/poolcond/catalogue
envsetup:		
envsetupin:	export XrdSecSSLUSERCERT=$X509_USER_PROXY;export XrdSecSSLUSERKEY=$X509_USER_PROXY	export XrdSecSSLUSERCERT=$X509_USER_PROXY;export XrdSecSSLUSERKEY=$X509_USER_PROXY
fairsharepolicy:		priority>6000:100
faxredirector:	None	atlas-xrd-eu.cern.ch:1094	XROOTD XROOTD-atlas-xrd-us/Redirector (BNL-ATLAS)
gatekeeper: (deprecated)	to.be.set	
glexec:		
globusadd:		
hc_param:	OnlyTest	AutoExclusion
ignore swreleases:	False	False
CVMFS:	True	True
is default:	False	
is virtual:	False	
jdl: (deprecated)		
jdladd: (deprecated)		
jobmanager:	lcglsf	lcglsf
last modified:	Sept. 21, 2017, 3:32 p.m.	
lfchost:	prod-lfc-atlas.cern.ch	prod-lfc-atlas.cern.ch
lfcpath:	/grid/atlas/users/pathena	/grid/atlas/users/pathena
lfcprodpath:	/grid/atlas/dq2	/grid/atlas/dq2
lfcregister:	server	server
localqueue:	grid_atlas	grid_atlas
maxinputsize:	14336	14336
maxmemory:	6000	0

PandaQueue 3

maxrss:	2000	3200
maxswap:	0	0
maxtime:	0	259200
maxwdir:	16336	19000
minmemory:	0	0
minrss:	0	0
mintime:	0	0
name2: (deprecated)	default	
nodes:	0	0
objectstore:		
panda site:	CERN-PROD	
pilot manager:	APF	APF
pilot version:	current	
pilotlimit:	None	None
pledgedcpu:	None	None
proxy: (deprecated)		
Pilot test:	False	False
python path:		
queue: (deprecated)		
queuehours:	0	0
recoverdir:		
region:	CERN	CERN
releases:		
resource type:	GRID	GRID
retry:	False	False
se: (deprecated)	token:ATLASSCRATCHDISK:srm://srm-eosatlas.cern.ch:8443/srm/v2/server?SFN=	token:ATLASSCRATCHDISK:srm://srm-eosatlas.cern.ch:8443/srm/v2/server?SFN=
sein: (deprecated)		
seinopt: (deprecated)		
seopt: (deprecated)	token:ATLASDATADISK:srm://srm-eosatlas.cern.ch:8443/srm/v2/server?SFN=,token:ATLASDATATAPE:srm://srm-atlas.cern.ch:8443/srm/managerv2?SFN=,token:ATLASMCTAPE:srm://srm-atlas.cern.ch:8443/srm/managerv2?SFN=	token:ATLASSCRATCHDISK:srm://srm-eosatlas.cern.ch:8443/srm/v2/server?SFN=,token:ATLASDATADISK:srm://srm-eosatlas.cern.ch:8443/srm/v2/server?SFN=,token:ATLASDATATAPE:srm://srm-atlas.cern.ch:8443/srm/managerv2?SFN=,token:ATLASMCTAPE:srm://srm-atlas.cern.ch:8443/srm/managerv2?SFN=
sepath: (deprecated)	/eos/atlas/atlasscratchdisk/rucio	/eos/atlas/atlasscratchdisk/rucio
seprodpath: (deprecated)	/eos/atlas/atlasscratchdisk/rucio	/eos/atlas/atlasscratchdisk/rucio
setokens: (deprecated)	ATLASSCRATCHDISK,ATLASDATADISK,ATLASDATATAPE,ATLASMCTAPE	ATLASSCRATCHDISK,ATLASDATADISK,ATLASDATATAPE,ATLASMCTAPE
special par:		
stageinretry:	2	2
stageoutretry:	2	2
AGIS internal state:	ACTIVE	
State comment:	Object was cloned from ANALY_CERN_SHORT via WebUI	
State modification time:	March 29, 2017, 3:51 p.m.	
system:	lcg-cg	lcg-cg
tags:		
timefloor:	None	60
tmpdir:		

PandaQueue 4

transferringlimit:	**None**	~~None~~
type:	production	**analysis**
use_newmover:	**True**	
validatedreleases:	**14.5.0|14.5.2|15.2.0|15.3.1**	~~14.5.0|14.5.2|15.2.0|15.3.1~~
wansinklimit:	**None**	~~None~~
wansourcelimit:	**None**	~~None~~
wnconnectivity:	**full**	
wntmpdir:		

Attributes to the Pilot

- SchedConfig is under evolution
  - The "configurator"
- Still the pilot needs several other attributes which are not in SchedConfig
  - E.g. the storage protocols
- For now using CVMFS
  - Plus retries directly on AGIS if CVMFS not available
  - Couple of hours minimum refresh time, i.e. change a value you've to wait to see if the change is ok.
- If we need faster turnaround we should think:
  - Several options, just listing 2:
    - having these infos in Panda which can serve them to the pilot (as today panda does for the "queuedata")
    - Query directly AGIS

ToACache

- Is anyone still using ToACache????

```
-bash-4.1$ ls -la /afs/cern.ch/atlas/www/GROUPS/DATABASE/project/ddm/releases/Tier*
-rw-------. 1    15861 zp 56427 Jul 27  2006 /afs/cern.ch/atlas/www/GROUPS/DATABASE/project/ddm/releases/TiersOfATLASCache_new.py
-rw-------. 1    15861 zp 21662 Jul 27  2006 /afs/cern.ch/atlas/www/GROUPS/DATABASE/project/ddm/releases/TiersOfATLASCache_new.pyc
-rw-------. 1    15861 zp 54805 Jul 13  2006 /afs/cern.ch/atlas/www/GROUPS/DATABASE/project/ddm/releases/TiersOfATLASCache_new.py_with_toolAssigners
-rw-------. 1     1702 zp 29714 Jun 23  2006 /afs/cern.ch/atlas/www/GROUPS/DATABASE/project/ddm/releases/TiersOfATLASCache_old.py
lrwxr-xr-x. 1 iueda    zp    25 Sep 24  2012 /afs/cern.ch/atlas/www/GROUPS/DATABASE/project/ddm/releases/TiersOfATLASCache.py -> TiersOfATLASCache.py.AGIS
lrwxr-xr-x. 1 iueda    zp    49 Sep 21  2012 /afs/cern.ch/atlas/www/GROUPS/DATABASE/project/ddm/releases/TiersOfATLASCache.py.AGIS -> /afs/cern.ch/atlas/GRID/AGIS/TiersOfATL
ASCache.py
-rw-------. 1    15861 zp 21649 Jul 26  2006 /afs/cern.ch/atlas/www/GROUPS/DATABASE/project/ddm/releases/TiersOfATLASCache.pyc
lrwxr-xr-x. 1 iueda    zp    24 Sep 12  2012 /afs/cern.ch/atlas/www/GROUPS/DATABASE/project/ddm/releases/TiersOfATLASCache.py.DDM -> ToA/TiersOfATLASCache.py
-rw-------. 1    15861 zp 41686 Jul  1  2006 /afs/cern.ch/atlas/www/GROUPS/DATABASE/project/ddm/releases/TiersOfATLASCache.pySat_Jul_1_10:30:00_2006
-rw-------. 1    15861 zp 45509 Jul  9  2006 /afs/cern.ch/atlas/www/GROUPS/DATABASE/project/ddm/releases/TiersOfATLASCache.py_Sun_Jul_9_10:25:10_2006
-rw-------. 1    15861 zp 42888 Jul  6  2006 /afs/cern.ch/atlas/www/GROUPS/DATABASE/project/ddm/releases/TiersOfATLASCache.py_Thu_Jul_6_09:35:27_2006
-rw-------. 1    15861 zp 34211 Jun 29  2006 /afs/cern.ch/atlas/www/GROUPS/DATABASE/project/ddm/releases/TiersOfATLASCache.py_Thu_Jun_29_15:57:28_2006
-rw-------. 1 dcameron zp 54124 Jul 11  2006 /afs/cern.ch/atlas/www/GROUPS/DATABASE/project/ddm/releases/TiersOfATLASCache_test.py
-bash-4.1$ ls -l /afs/cern.ch/atlas/GRID/AGIS/TiersOfATLASCache.py
lrwxr-xr-x. 1 atagadm root 76 Sep 20 11:00 /afs/cern.ch/atlas/GRID/AGIS/TiersOfATLASCache.py -> /afs/cern.ch/atlas/GRID/AGIS/ToACache/TiersOfATLASCache_2017_09_20_110006.py
-bash-4.1$
```

SW releases (publication)

- We are (since a while) automatically tagging the CVMFS sites
- Do we still need the whole granularity for all the sites?
- nightlies?

Why? -- again

- Why? Everybody is talking about simplification, consolidation, automation, etc...
  - But how can we do this if it's taking several experts days to explain how our system works?
- Lightweight sites??
  - No way! With the examples above bootstrapping a site is complicated
  - Experts always needed, not clear what happens if someone touch something.
- Whenever we make a change is supercomplex to understand the impact

- What do we clean?
- ... and when?