

WLCG Demonstrator

WLCG storage, Cloud Resources and volatile storage
into HTTP/WebDAV-based regional federations

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CERN CERN

Status at UVic

- Installation of dynafed was easy, and so far federated two canadian sites on the westcoast, SFU and UVic. Adding more is merely uncommenting lines in a configuration file
- Discussing with CERN of how to do tests in production setup
- Did few tests and comparisons of different protocols vs. different network latencies
- Web location: CERN CERN
<https://dynafed01.heprc.uvic.ca:8443/myfed/>

Disk Pool Manager

dynafed01.heprc.uvic.ca:8443 > myfed > browseatlas > rucio > data16_13TeV > 01 > 00 >

Workspace

DYNAFED01.HEPRC.UVIC.CA:8443

- myfed
 - data16_13TeV
 - browseatlas
 - SAM
 - dumps
 - rptaylor
 - rucio
 - 21
 - NULL
 - data10_7TeV
 - data10_cos
 - data10_hi
 - data11_2p76TeV
 - data11_7TeV
 - data11_hi
 - data11_hip
 - data12_8TeV
 - + data12_hip
 - data13_2p76TeV
 - data13_hip
 - data15_13TeV
 - data15_5TeV
 - data15_comm
 - data15_cos
 - data15_hi
 - data16_13TeV
 - 00
 - 01
 - 00

Data

New directory Delete directory Upload Download

Q All Fields Search... Delete

Metalink	Filename	Size	Modified
	AOD.09390224_000282.pool.root.1	878.4 MB	10/09/2016, 05:45:07
	DAOD_EGAM6.09517413_000106.pool.root.1	1.3 GB	01/10/2016, 22:38:15
	DAOD_JETM6.09630658_000023.pool.root.1	1.8 GB	16/10/2016, 08:24:03
	data16_13TeV.00303560.physics_Main.merge.AO...	2.1 GB	13/10/2016, 19:09:43
	log.09636573_000021.job.log.tgz.1	605.0 KB	18/10/2016, 06:07:57

Properties

Collection

Name: 00

Route: /myfed/browseatlas/rucio/data16_13TeV/01/00/

Children: 0

Files: 5

Federated ATLAS data at UVic and SFU Accessible e.g. via curl, aria2c, and also davix-get/put requires valid x509 cert

temporarily stored some ATLAS data locally on web server (Was) accessible via http(s), xrootd and ssh and was used for some comparisons of transfer rates for different protocols removed now

Plans

- Utilize a local test queue and a test storage element. ATLAS analysis queue is more flexible with input and output data than the production system. With this we can test access to local and federated data, ATLAS DDM does not need to be involved
- next, test things closer to production: use test storage element. Possibly copy data locally and in dedicated space on other storage elements (details still under discussion with ATLAS DDM)
- First tests will be reading only, writing to storage element later
- Further investigations needed on how does production system know what data is on storage elements ? Currently unclear and under discussion with ATLAS DDM (own copy of data, federate all data on many SEs ...)