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Archery @ NDGF

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Idea

- First, to test the new thing
- But also 2 ATLAS CEs that got ARC6 installed and became “invisible” for ATLAS indices

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Processes: ■ Grid ■ Local

Country	Site
Algeria	DZ-01-ARN
Canada	lcg-ce1.sfu.computecan
	lcg-ce1.uw.computecan
	lcg-ce2.sfu.computeca
Denmark	Steno (HPC/CSC/KU)
	DESY HH ARC CE
	DESY HH ARC CE
	DESY HH C2PAP
	LRZ-LMU lcg-lrz-ce0
Germany	LRZ-LMU lcg-lrz-ce3
	LRZ-LMU_MUC
	LRZ-LMU_MUC
	MPPMU
	MPPMU
	wuppertalprod
	wuppertalprod condor
Slovenia	Arnes
	NSC
	SIGNET
	SIGNET
Sweden	Abisko (HPC2N)

Implementation

- *atlas.archery.ndgf.org* zone (NDGF maintains ndgf.org zone)
- Blindly following the manual:
https://source.coderefinery.org/nordugrid/doc/blob/master/playground/source/user/archery_vo.rst

```
zone "atlas.archery.ndgf.org" IN {  
    type master;  
    file "/var/lib/bind/atlas.archery.ndgf.org";  
    notify yes;  
    allow-update {  
        key archery_key;  
    };  
};
```

← A directory writable by bind

Implementation [continued]

- NDGF archery contains the hosts ATLAS wants to see indexed <http://aipanda404.cern.ch/data/releases/atlasregistrants.txt>
- A cron job dumps that list to the archery twice a day

```
- name: download the list of ATLAS servers
  local_action: get_url
    url=http://aipanda404.cern.ch/data/releases/atlasregistrants.txt
    dest=/tmp/archery.txt
    force=yes

- name: update Archery registry on ndgf.org
  local_action: "shell /usr/sbin/archery-manage -s file:/tmp/archery.txt -f portscan --ddns-update --domain atlas.archery.ndgf.org --ddns-master-ip <our_shy_nameservers_ip> --ddns-tsig-keyfile /etc/arc/archery-manage.key"
```

The result

- Due to portscan and the need for the CEs to register themselves, the ARC5 and archery ATLAS indices differ

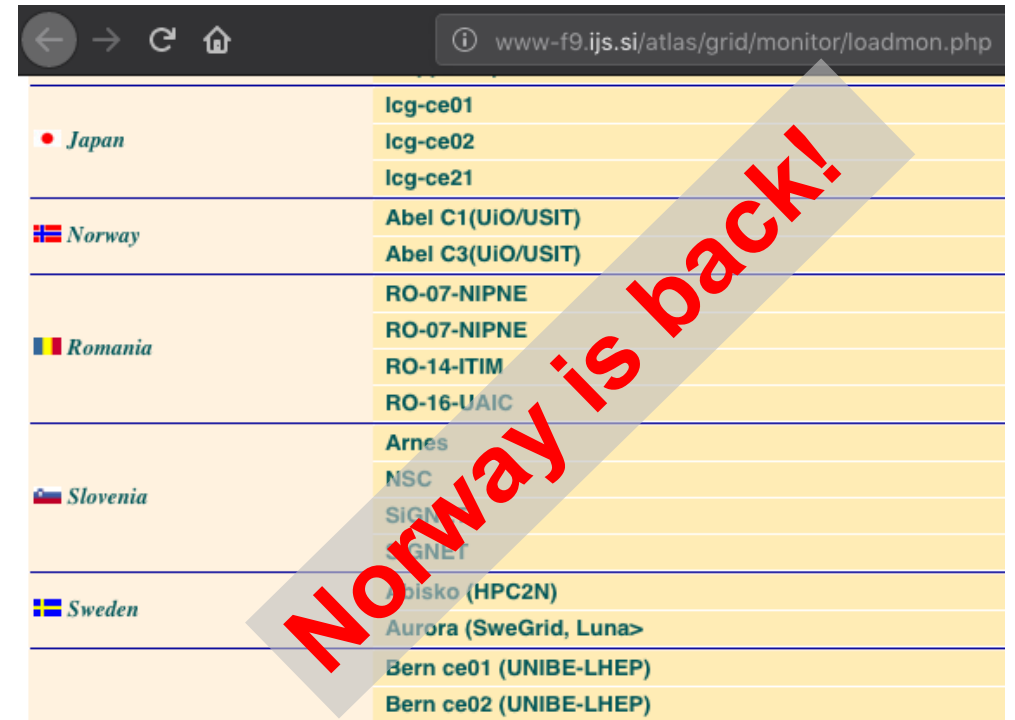
```
dmytrok@ladon:~$ host -t TXT _archery.atlas.archery.ndgf.org | sort
u=dns://abisko-ce.hpc2n.umu.se <-- Don't register to arcgiis.grid.uio.no
u=dns://arc-1-kit.gridka.de          Present only in Archery
u=dns://arc-2-kit.gridka.de
u=dns://arc-3-kit.gridka.de
u=dns://arc-4-kit.gridka.de
u=dns://arc-5-kit.gridka.de
u=dns://arc-6-kit.gridka.de
u=dns://arc-ce-condor.pleiades.uni-wuppertal.de
u=dns://arc-ce.pleiades.uni-wuppertal.de
u=dns://arc-ce01.gridpp.rl.ac.uk
u=dns://arc-ce02.gridpp.rl.ac.uk
u=dns://arc-ce03.gridpp.rl.ac.uk
u=dns://arc-ce04.gridpp.rl.ac.uk
u=dns://arc-fdr2.grid.sinica.edu.tw
u=dns://arc-grid.uaic.ro
u=dns://arc-htc.nipne.ro
u=dns://arc-it4i.farm.particle.cz
u=dns://arc-node.itim-cj.ro
u=dns://arc.nipne.ro
```

```
dmytrok@ladon:~$ ldapsearch -xLLL -h arcgiis.grid.uio.no -p 2135 -b "mdu-vo-name=Atlas,o=grid" -s base | grep nordugrid-cluster-name | sort
arc-ce-condor.pleiades.uni-wuppertal.de
arc-ce.pleiades.uni-wuppertal.de
arc-ce01.gridpp.rl.ac.uk
arc-ce02.gridpp.rl.ac.uk
arc-ce03.gridpp.rl.ac.uk
arc-ce04.gridpp.rl.ac.uk
arc01.hpc.ku.dk <-- Had problems during portscan
arc01.lcg.cscs.ch   Present only in arcgiis's index
arc02.lcg.cscs.ch
arc03.lcg.cscs.ch
arc04.lcg.cscs.ch
arc07.lcg.cscs.ch
aurora-grid.lunarc.lu.se
c2papdata2.lrz.de
ce01.lhep.unibe.ch
ce02.lhep.unibe.ch
gar-ex-etpgrid1.garching.physik.uni-muenchen.de
gar-ex-etpgrid2.garching.physik.uni-muenchen.de
```

Grid monitor

<http://www-f9.ijs.si/atlas/grid/monitor/loadmon.php>

```
$archery_list = array (
  array (
    "endpoint" => "ndgf.org",
  )
);
```



Country	Grid Site
Japan	lcg-ce01
	lcg-ce02
	lcg-ce21
Norway	Abel C1(UIO/USIT)
	Abel C3(UIO/USIT)
Romania	RO-07-NIPNE
	RO-07-NIPNE
	RO-14-ITIM
	RO-16-UAIC
Slovenia	Arnes
	NSC
	SIGMA
	GNET
Sweden	Uppsala (HPC2N)
	Aurora (SweGrid, Luna)
	Bern ce01 (UNIBE-LHEP)
	Bern ce02 (UNIBE-LHEP)

Jobs submission

- Works!

```
[dmytrok@gridadm grid]$ arctsub -g atlas.archery.ndgf.org xrsl  
Job submitted with jobid: gsiftp://arc03.lcg.cscs.ch:2811/jobs/cCFMDm3voctndvtlepYPV1GmABFKDmABFKDmAvfKDmABFKDmRFFdrn
```

- Unfortunately, that cluster generally does not function

```
[dmytrok@gridadm grid]$ arcstat -a  
Job: gsiftp://arc03.lcg.cscs.ch:2811/jobs/cCFMDm3voctndvtlepYPV1GmABFKDmABFKDmAvfKDmABFKDmRFFdrn  
State: Failed  
Job Error: Job submission to LRMS failed
```

- Another one sometimes briefly becomes available for the portscan, but really is a black hole for jobs

```
[dmytrok@gridadm grid]$ arcstat -a  
WARNING: Job information not found in the information system:  
gsiftp://arc01.lcg.cscs.ch:2811/jobs/btXLDmoBpYtnlztlepovt9HmABFKDmABFKDm14kKDmABFKDmJGSkPm <-- Has been like that for 2 weeks
```

Kiev cats

