



# ATLAS pilot factory update

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# Migration to APFv2

- Last week added three new factories and decommissioned two old factories
- Currently have four production factories at CERN: voatlas171,273,296,297
- Plus a single remaining old factory voatlas215
- These service non-US/ND clouds
- Pilot wrapper uses python26 and new DDM clients

## ATLAS pilot factory monitor

Factory	activity	when	version
ANLASC	10	5 mins ago	2.1.0
ASGC-TW-1	3	1 min ago	1.3.3
BNL-grid04-panitkin	20	5 mins ago	2.1.4-1
BNL-grid05-panitkin	100	13 hrs ago	2.1.1-3
BNL-gridtest03-jhover	10	10 mins ago	2.1.4-1
BNL-gridui18-jhover	2	seconds ago	2.1.1-3
BNL-gridui19-jhover	7	seconds ago	2.1.1-3
BNL-gridui20-jhover	7	seconds ago	2.1.1-3
dashboard60	1	seconds ago	2.1.1
DUKE-atlasgce-benjamin	4	4 mins ago	2.1.0
FR-Analysis-cclcgatlas01	662	4 mins ago	1.3.3
FR-Analysis-cclcgatlas05	513	5 mins ago	1.3.3
FR-Production-cclcgatlas01	217	seconds ago	1.3.3
FR-Production-cclcgatlas05	256	6 mins ago	1.3.3
harenberg-DE	154	seconds ago	1.3.3
IT-factory_CNAF	500	seconds ago	2.1.0
MWT2-cloud-lbrvart	12	1 min ago	2.1.0
TRIPOLI-APF2	50	seconds ago	2.1.0
voatlas171	2	seconds ago	2.1.1-3p
voatlas215	480	seconds ago	1.3.x
voatlas273	21	seconds ago	2.1.1-3p
voatlas94	1	seconds ago	2.1.1

# Deployment and ops

- Deployment is on SLC6 via 'yum install' using rpms from BNL repo
- Standard RHEL service. Use 'service factory start/stop/restart'
- Queue configuration via agis.py script in atlpan account. Manually run for now but should be a 30 minute cron. Uses AGIS information to populate queue.conf, these are placed in /data/atlpan/autopyfactory/etc/\*
- \$ agis.py -c uk -a analysis > /data/atlpan/autopyfactory/etc/uk-analy.conf

```
[ANALY_LANCS-1224]
enabled = True
autofill = False
batchqueue = ANALY_LANCS
wmsqueue = ANALY_LANCS
batchsubmitplugin = CondorCREAM
batchsubmit.condorcream.gridresource = abaddon.hec.lancs.ac.uk:8443/ce-cream/services/CREAM2 lsf hex
sched.activated.max_pilots_pending = 20
batchsubmit.condorcream.proxy = atlas-analysis
executable.arguments = %(executable.defaultarguments)s -u user
```

[https://twiki.cern.ch/twiki/bin/viewauth/Atlas/CentralServiceExpertOnCall#Pilot\\_factories](https://twiki.cern.ch/twiki/bin/viewauth/Atlas/CentralServiceExpertOnCall#Pilot_factories)

# Short term & summary

- Expecting a new APFv2 release shortly
  - some small bugs fixed
  - improved monitoring using new monitor API
  - new Sched plugins to tweak number of pilots submitted
  - review wrapper scripts, need signal handling feature
- Drop last remaining v1 factory at CERN
- Encourage clouds to upgrade
- It has taken a few weeks to migrate with the usual teething problems but hope for stable running for remainder of year...