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Tier-0 Operations - Useful commands

WMAgent

Condor

Contents :

Get information about the the jobs sent by the agent running in a site (for example T0_CH_CERN)

Show... Hide

```
$manage execute-agent wmaget-resource-control --site-name=T0_CH_CERN -p
```

Example output

Show... Hide

```
T0_CH_CERN - 0 running, 28 pending, 10000 running slots total, 5000 pending slots total, Site is
Cleanup - 0 running, 0 pending, 160 max running, 80 max pending, priority 5
Merge - 0 running, 4 pending, 1000 max running, 400 max pending, priority 5
Harvesting - 0 running, 0 pending, 80 max running, 40 max pending, priority 3
Skim - 0 running, 0 pending, 1 max running, 1 max pending, priority 3
LogCollect - 0 running, 1 pending, 80 max running, 40 max pending, priority 3
Processing - 0 running, 23 pending, 9000 max running, 5000 max pending, priority 0
Repack - 0 running, 0 pending, 2500 max running, 500 max pending, priority 0
Production - 0 running, 0 pending, 1 max running, 1 max pending, priority 0
Express - 0 running, 0 pending, 9000 max running, 500 max pending, priority 0
```

Get status of everything running in the pool (from the schedd)

Show... Hide

This command should be executed from one of the schedds in the pool.

```
condor_status -schedd
```

Example output

Show... Hide

Name	Machine	TotalRunningJobs	TotalIdleJobs	TotalHeldJobs
cmmsgwms-submit1.fnal	cmmsgwms-su	19276	14202	9
cmmsgwms-submit2.fnal	cmmsgwms-su	9322	9032	0
cmssrv113.fnal.gov	cmssrv113.	1	2	0
cmssrv218.fnal.gov	cmssrv218.	110	1329	0
cmssrv219.fnal.gov	cmssrv219.	0	0	0
vocms001.cern.ch	vocms001.c	8	40	0
vocms015.cern.ch	vocms015.c	0	0	0
vocms0230.cern.ch	vocms0230.	0	0	0
vocms0303.cern.ch	vocms0303.	0	0	0
vocms0308.cern.ch	vocms0308.	12413	3173	2
vocms0309.cern.ch	vocms0309.	24639	15850	8
vocms0310.cern.ch	vocms0310.	21581	18317	526
vocms0313.cern.ch	vocms0313.	27	1	0
vocms0314.cern.ch	vocms0314.	17	0	0
vocms039.cern.ch	vocms039.c	0	0	0

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vocms047.cern.ch	vocms047.c	0	0	0
vocms053.cern.ch	vocms053.c	6	0	0
vocms074.cern.ch	vocms074.c	1113	19830	0
	TotalRunningJobs	TotalIdleJobs	TotalHeldJobs	
	Total	88513	81776	545

Get the information about the VMs in a site (for example T0_CH_CERN) from a particular pool (-pool vocms007 refers to the collector of the pool)

Show... Hide

```
condor_status -const 'ParentSlotId is undefined && GLIDEIN_CMSSite=?="T0_CH_CERN"' -totals -pool
```

WARNING: You are querying the Central Collector of the pool, using this command in a cronjob may result in harming the Collector's performance

Example output:

Show... Hide

X86_64/LINUX	1684	0	0	70	0	0
Total	1684	0	0	70	0	0

This is a filtered version in case you need only the numeric value (used in the monitoring scripts)

```
condor_status -const 'GLIDEIN_CMSSite=?="T0_CH_CERN" && ParentSlotId is undefined' -totals | grep
```

Example output:

```
1684
```

Turn off condor service

Show... Hide

condor stop it if you want your data to be still available, then cp your spool directory to diskcp -r /mnt/ramdisk/spool /data/when you reboot the machinecopy it backotherwise just create an empty spool directory

Change the thresholds for jobs in the queue

Show... Hide

(used by the agent to decide how many jobs to send to the queue).

The number of jobs per task-type has to be consistent with the global number of jobs

- `$manage execute-agent wmaget-resource-control --site-name=T2_CH_CERN_T0 --task-type=Re`
 - `$manage execute-agent wmaget-resource-control --site-name=T0_CH_CERN --pending-slots=160`
 - `$manage execute-agent wmaget-unregister-wmstats `hostname -f`:9999`
-

Number of Jobs per number of cores running in the pool

Show... Hide

```
condor_q -const 'JobStatus=?=2' -name vocms0314.cern.ch -af:h RequestCpus | sort | uniq -c
```

Details of the command

Show... Hide

- Basic condor command to check the queue

```
condor_q
```

* Adding constraints to the query of the queue -const * Check only for jobs running 'JobStatus=?=2' *
 Check only the jobs sent from vocms0314 Schedd -name vocms0314.cern.ch * Choose ClassAd to
 show -af:h RequestCpus * Sort and count the output sort | uniq -c

How to choose a good run to get tarballs from?

7. Automatización runs para replays 8. Confirmar si se limpia toda la run y con qué peridiodicidad

Nuevo plot para cores usado

11. Nuevo plot para uso de HighIO Slots

```
--
```

```
-- Schedd: vocms0314.cern.ch : &lt;128.142.209.169:4080?...
```

```
977 jobs; 0 completed, 0 removed, 0 idle, 977 running, 0 held, 0 suspended
```

```
<verbatim>
```

```
condor_q -w -const 'MATCH_GLIDEIN_CMSSite=?="T0_CH_CERN" && JobStatus =?=2 && RequestIoslots &gt;
```

```
</verbatim>
```

```
887 jobs; 0 completed, 0 removed, 0 idle, 887 running, 0 held, 0 suspended
```

```
<verbatim>
```

```
condor_q -w -const 'MATCH_GLIDEIN_CMSSite=?="T0_CH_CERN" && JobStatus =?=2 && RequestIoslots &gt;
```

```
</verbatim>
```

```
<verbatim>
```

```
condor_q -w -const 'MATCH_GLIDEIN_CMSSite=?="T0_CH_CERN" && JobStatus =?=2 && RequestIoslots &gt;
```

```
</verbatim>
```

Node	Use	Type
vocms001	<ul style="list-style-type: none"> • Replays: Normally used by the developer • Transfer System 	Virtual machine
vocms015	<ul style="list-style-type: none"> • Replays: Normally used by the operators • Tier0 Monitoring 	Virtual machine
vocms047	<ul style="list-style-type: none"> • Replays: Normally used by the operators 	Virtual machine
vocms0313		Physical Machine

	• Production node	
vocms0314	• Production node	Physical Machine

To restart this node you need to check the following:

- **Production node:**
 - ◆ The agent is not running and the couch processes were stopped correctly.
 - ◆ These nodes uses a RAMDISK. Mounting it is puppetized, so you need to make sure that puppet ran before starting the agent again.
- **TransferSystem:**
 - ◆ Transfer should be stopped before stopping the TransferSystem. You need to coordinate this in advance with the Storage Manager Operators
cms-storagemanager-alerting@cernNOSPAMPLEASE.ch
- **Replays:**
 - ◆ The agent should not be running, check the Tier0 Elog to make sure you are not interfering with a particular test.
- **Tier0 Monitoring:**
 - ◆ The monitoring is executed via a cronjob. The only consequence of the restart should be that no reports are produced during the down time. However you can check that everything is working going to:

```
/data/tier0/sls/scripts/Logs
```

To restart a machine you need to:

- Login and become root
- Do the particular checks (listed above) based on the machine that you are restarting)
- Run the restart command

```
shutdown -r now
```

After restarting the machine, it is convenient to run puppet. You can either wait for the periodical execution or execute it manually:

```
• puppet agent -tv
```

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