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# Extremely handy links :

[MonaLisa HepSpec table](#)

[USCMS T2 HepSpec table](#)

[Sites pledges](#)

# Upgrades (software)

USCMS Upgrades twiki

# Pledges, etc

- REBUS [↗](#)
- SiteDB [↗](#)

# Monitoring links

We need a page to aggregate those, plus some DashBoard + PhEDEx + central CMS monitoring tools plots.

## Central CMS

- Overview
  - ◆ Batch system efficiency [↗](#)
  - ◆ Site Status Board [↗](#)
  - ◆ Site Readiness [↗](#)
- Running production x Pledge [↗](#)
- Pledges and shares [↗](#)
- Grid jobs
  - ◆ Daily running [↗](#)
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  - ◆ Production jobs efficiency (success/failure) [↗](#)
- Nagios SE [↗](#)
- Nagios CE1 [↗](#)
- Transfers, **from** Caltech
  - ◆ Weekly rate [↗](#)
  - ◆ Weekly quality [↗](#)
- Transfers, **to** Caltech
  - ◆ Weekly Rate [↗](#)
  - ◆ 48h quality [↗](#)
- Perfsonar [↗](#)
- Analysis central monitoring per user [↗](#)
- Subir phedex page [↗](#)
- GlideIn monitoring page [↗](#)

## OSG

- RSV probes [↗](#)
- Local RSV [↗](#)

## Local pages/systems

- Internal batch system monitoring [↗](#)
- Tier-2 hadoop monitoring [↗](#)
- Tier-3 remote hadoop monitoring [↗](#)
- Nagios [↗](#)
- Ticket system [↗](#)
- Campus cacti [↗](#)

## Documentation

- Chaging SITECONF settings
- CRAB3 mantra

# Workplan 02/2013

## T2

- Base improvements in the T2 cluster management schema -- will improve the cluster stability and ease maintenance procedures
- Improvements/integration on the monitoring
  - ◆ Automate MonaLisa install into all T2 nodes and servers
  - ◆ Clean current MonaLisa web dashboard with the help of the MonaLisa team
  - ◆ Clean current Nagios dashboard, reduce to applicable alarm frequency
    - ◇ (optional) Implement SMS alerts for Nagios most critical alarms.
- Integrate all new servers into Nagios/Backup schema (could not be done yet)
- Review of network/firewalls/security settings -- more a "learning review"
  - ◆ Add few rules so cluster management from CERN is easier
  - ◆ (Optional) Explore different SSH authentication methods (GSI or Kerberos) - passwordless but still secure SSH access

## T3 (Local & Remote)

- Automate node deployment and profile maintenance with local (dedicated headnode) or remote (T2) puppet+foreman
  - ◆ This will make us move away from Rocks in all clusters and have more uniformity in deployment/configuration procedures.
- Commission Condor as a batch system, better monitoring comes for free

## Global (related to computing resources in general) :

- <https://github.com/dmwm/WMCore/wiki/All-in-one-test> [Tutorial] To install a WMAgent. Let's see.
- Explore how the T3s could use its Idle CPU time (if any) to process jobs for the T2 cluster. (condor integration, condor fork)
- Explore pros/cons of this : The T2 and T3-higgs nodes can store data under the same hadoop namenode, our local resources would be protected by quotas. Management gets simpler
- Explore dynamic Condor job scheduling based on resource utilization and job requirements. Condor will not anymore serve X slots, but will schedule jobs as long as CPU usage is < 90% (configurable) and there is enough available memory in a node. In general this should provide slightly more job slots than the number of cores that a node has. -- motivation : most of the jobs have CPU efficiency < 70%
- Improve BeStman GridFTP selection algorithm (light development needed) -- currently round-robin, very sub-optimal for setup like ours where we have fast (10 GE) servers and slow (1 GE) servers.

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This topic: Sandbox > SamirCurySandboxCaltech

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