

# Upgrading to OSG 0.8.0 and keeping jobs running

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Lightning talk, OSG Site Admins Meeting

# Disclaimers

- Only tested with Condor as underlying batch system—but no known reason it couldn't work for PBS
- Only tested with pre-Web services jobs running
- All jobs are being run through the condor-G grid monitor on jobmanager-condor
- Jobmanager-fork calls are not preserved

# Requirements

- Condor installed external to the CE directory
- Condor configured with  
JobLeaseDuration=3600 seconds
- Condor\_schedd will stay running the whole time  
—i.e. No fair to upgrade condor on the same  
downtime as the VDT.
- Home directories of grid users stay constant  
(nfs-lite not involved)

# Where state of jobs is stored

- `$VDT_LOCATION/globus/tmp/gram_job_state`
  - `job.fcdfosg2.fnal.gov.999.1197324108` (all jobs)
  - `job.fcdfosg2.fnal.gov.999.1197324108.lock` (active jobs)
  - `gram_condor_log.999.1197324108` (xml-based condor log)

# Sequence

- Install new VDT into new-versioned directory such as `/usr/local/vdt-1.8.1`, including Globus-Condor-Setup and ManagedFork
- Log in via a second window, setup up the old vdt and turn it off via `vdt-control -off`
- Put new `/etc/grid-security/prima-authz.conf` in place
- Copy over the old `globus/tmp/gram_job_state` files to the new `globus/tmp/gram_job_state` area.
- In new vdt, do `vdt-control -on`
- Enable `gums-host-cron`, force a `gums-host-cron` and `fetch-crl`
- Run `configure-osg.sh`
- Congratulations you are back on the grid, downtime ~15 minutes
- Wait till running jobs finish, then copy the `gram_condor_log*` files over again.