

INSTALLATION:

1. Make a copy of this directory in your local area:
/afs/cern.ch/sw/arda/install/CMS/prototype/asap_2005_08_24/cms/ASAP
2. Modify in the setup scripts (*.sh, *.csh) the default ASAP_LOCATION to be your asap directory.
3. Take a look in the directory in ASAP_LOCATION/service. in the file crontab.listing one can see which kind of crontab jobs you need to create for the monitor.
4. Remove from service/crontab.listing monitors 2, 3, 4 and clean with there configs.
5. Change paths in crontab.listing.
6. Change hostname in ASAP/conf/asap.conf

Example: host= xarda1502a.cern.ch url=http://lxarda1502a.cern.ch (it means that you use a standard port).

7. Change directory names in conf/asap.conf:

Examples: rootdir=/data/asap2 --> /home/berejnoi/ASAP_INSTALLATION/ASAP

dir-user=/data/asap2/user --> /home/berejnoi/ASAP_INSTALLATION/ASAP/service

dir-trace=/data/asap2/tracing --> /home/berejnoi/ASAP_INSTALLATION/ASAP/service/tracing

dir-unreg=/data/asap2/unregistered --> /home/berejnoi/ASAP_INSTALLATION/ASAP/service/unregistered

dir-monitoring=/data/asap2/monitoring -->

/home/berejnoi/ASAP_INSTALLATION/ASAP/service/monitoring dir-www=/data/asap2/www -->

/home/berejnoi/ASAP_INSTALLATION/ASAP/service/www

www-url=http://asap-monitor.cern.ch:8088/user/ --> www-url=http://lxarda1502a.cern.ch/asap/

8. Install apache.
9. Create a directory somewhere in /tmp for htmls. Example: /tmp/asap/www
10. Create symbolic links as follows: ln -s /tmp/asap/www
/home/berejnoi/ASAP_INSTALLATION/ASAP/service/www ln -s /tmp/asap/www /var/www/html/asap
11. Change in asap-check-services.sh, asap-run-job-monitor.sh, asap-run-myproxy-monitor.sh directory names.

Example

```
cd /home/berejnoi/ASAP_INSTALLATION/ASAP/service pushd
```

```
/home/berejnoi/ASAP_INSTALLATION/ASAP > /dev/null
```

12. Write right new paths in crontab.listing
13. New version of apmon.py is needed for correct work.
14. Use command crontab -e to run cron scripts you need.

Just put into a pico screen the schedule for cron scripts and save it.

Examples:

```
SHELL=/bin/bash
```

```
MAILTO=berejnoi
```

```
#ASAP
```

```
58 * * * * /home/berejnoi/ASAP_INSTALLATION/ASAP/service/asap-check-services.sh
```

```
59 * * * * /home/berejnoi/ASAP_INSTALLATION/ASAP/service/asap-run-myproxy-monitor.sh
```

```
10,25,40,55 * * * * /home/berejnoi/ASAP_INSTALLATION/ASAP/service/asap-run-job-monitor.sh
```

```
* * * * * /home/berejnoi/ASAP_INSTALLATION/ASAP/service/asap-kill-hanging-edg.py
```

15. One can see what is happening with a job of user 'berejnoi' in file monitoring/berejnoi/systemExecLog

Example: tail -f monitoring/berejnoi/systemExecLog

16. To submit the job in config file you need to set FinalDataSystem=FS if you want to put file on AFS.

JOB SUBMISSION (Example)

1. Setup LCG UI environment.

2. Set CMS_PATH variable value. It must be a path to the directory which contains the standart CMS directory "Releases" (as at CERN lxplus cluster).

3. Set SCRAM_ARCH if you need ORCA_8_7_*: export SCRAM_ARCH=slc3_ia32_gcc323

4. pushd /afs/cern.ch/cms/Releases/ORCA/ORCA_8_7_* eval `scram runtime -sh` popd

or

pushd /afs/cern.ch/cms/Releases/ORCA/ORCA_8_8_0 eval `scramv1 runtime -sh` popd

5. Correct a config file for ASAP (It is not the asap.conf file in the ASAP installation directory).

Example:

1) JobDir=/afs/cern.ch/user/b/berejnoi/jobsubmit/workdir

2) FinalDataSystem=FS (to store data on a disk, RFIO to store data in castor).

3) FinalDataSystemPath=/afs/cern.ch/user/b/berejnoi/jobsubmit/data (for castor case must point to castor directory).

4) Application=ORCA

ApplicationVersion=ORCA_8_7_3

5) Executable=/afs/cern.ch/cms/Releases/ORCA/ORCA_8_7_3/bin/slc3_ia32_gcc323/ExDigiStatistics (path to the Executable).

7. Create proxy:

grid-proxy-init

8. Create long time proxy within ASAP:

asap-myproxy-init

9. Submit the jobs:

asap-job-make ConfigFile=config.arda Nevents=200 NoSubmit

10. Register the jobs:

asap-job-monitor TraceID=19665 Register=Submit ("Trace", not "Track")

TraceID is a number obtained during submission.

11. Now one can see what happens with the jobs on a web site with url, which has been setup in asap.conf (see item 6 of INSTALLATION).

12. Unregister the jobs:

asap-job-monitor TraceID=19665 UnRegister

-- Main.berejnoi - 06 Apr 2006

This topic: LCG > ARDA-CMS-ASAP-ASAPInstallation

Topic revision: r1 - 2006-04-06 - AlexanderBerezhnoy



Copyright &© 2008-2021 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.
or Ideas, requests, problems regarding TWiki? use Discourse or Send feedback