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How to prepare a new machine for running the nightlies

Overview of existing machines

LHCbNightliesPrerequisites

Scientific Linux release specific information

- SLC6
 - ◆ link
- SLC5

general steps

- machine accessible... --> ask IT for moving the machine into production... 😊
- local build directory exists and is accessible (depends on the slot configuration!)
 - ◆ standard is /build/nightlies/ --> +rw for lhcbsoft
- prepare for use of distcc
 - ◆ create /build/nightlies/.distcc/ directory
- for some old logs a local directory is used
 - ◆ create = /build/nightlies/OldLogs/=
- add the machine to acrontab
 - ◆ build jobs

```
◇ 09 02 * * * buildlhcbXX nice -n 5 ~/bin/nightliesClient.sh
x86_64-slc5-icc11-opt >
/afs/cern.ch/lhcb/software/nightlies/www/logs/nightliesClient/nightliesClient
+%\a`_XXc.txt 2>&1
```
 - ◆ clean local build dirs

```
◇ 2 0 * * * buildlhcbXX rm -rf /build/nightlies/lhcb-*/`date --date='1
days ago' +%\a`/*
◇ 10 0 * * * buildlhcbXX rm -rf /build/nightlies/lhcb-*/`date +%\a`
```
 - ◆ kill all remaining jobs from yesterday

```
◇ 3 0 * * * buildlhcbXX ~/bin/killTree.sh nightlies `date --date='1 day
ago' +%\a` > /build/nightlies/OldLogs/KillClient.log 2>&1
```

SLS sensor

- A SLS sensor [is](#) to be placed for a new machine to monitor its disk usage
- to monitor the build machine, a script collects the information and pushes it to SLS as xml
 - ◆ run the monitor from acrontab and let it place the xml onto AFS to be picked up from AFS

```
◇ */20 * * * * buildlhcbXX export
PYTHONPATH=/afs/cern.ch/lhcb/software/releases/LBSCRIPTS/prod/InstallArea/pyt
&&
/afs/cern.ch/user/l/lhcbsoft/PRODUCTION/LHCbNightliesProd/LHCbNightlies/Night
--aw
/afs/cern.ch/lhcb/software/nightlies/www/LHCb_Nightlies_buildlhcbXX.xml
--dirdepth 0 --dirroot /build/nightlies --xmlid
LHCb_Nightlies_buildlhcb04 > /build/nightlies/OldLogs/localdisk.out
2>&1
```
- prepare the SLS interface
 - ◆ the admin page is available under https://apex.cern.ch/pls/htmldb_itcore/f?p=116:LOGIN:888212673570801:::

- ◆ if you not yet an account for SDB ask Victor for example
 - ◇ you will most probable get an account, able to edit existing sensors but not create new ones
 - ask Victor, if he can clone an existing sensor for you
 - when available, you can add the path to the sensor `xml` (were you let `acrontab` write to) to the sensor etc.

local services

- to organize log files in the local build directory `logrotate` is used
 - ◆ normally the general `logrotate` configuration in `/afs/cern.ch/user/l/lhcbsoft/public/PRODUCTION/LHCbNightliesProd/LHCbNightlies/Nightlies` should be fine
 - ◇ the local state file is normally placed at `/build/nightlies/logrotate.local`
 - ◆ set up the local `crontab`, i.e.
 - ◇

```
* /2 * * * * date -Is >> /build/nightlies/meminfo.txt; cat /proc/meminfo >> /build/nightlies/meminfo.txt
```
 - ◇

```
55 23 * * * tar cjf /build/nightlies/OldLogs/ProcessesMeminfo.tar.bz2 /build/nightlies/meminfo.txt
```
 - ◇

```
55 1 * * * /usr/sbin/logrotate -s /build/nightlies/logrotate.local /afs/cern.ch/user/l/lhcbsoft/public/PRODUCTION/LHCbNightliesProd/LHCbNightlies/Nightlies
```

-- ThomasHartmann - 12-Oct-2012

This topic: LHCb > LHCbNightliesNewMachine

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