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CvmFS Operations for PES Members

These are tasks for PES members to do, this page is not of interest to anyone else.

White List Signing

IF IT EXPIRES ALL OF WLCG STOPS WORKING AT ONCE

Currently this only applies to the following repositories:

- AMS node `cvmfs-ams.cern.ch` which hosts repository `ams.cern.ch`.
- LHCb node `cvmfs-lhcb-conddb.cern.ch` which hosts repository `lhcb-conddb.cern.ch`.
- `alice-ocdb.cern.ch`
- `bbp.epfl.ch`
- `belle.cern.ch`
- `ilc.cern.ch`

The dns names are aliases to `lxcvmfsXX` nodes in the `lxcvmfs` CDB cluster.

For all other repositories bother Jakob/Artem/Predrag about them.

Per repository the CVMFS whitelist is located at `/srv/cvmfs/example.cern.ch/pub/catalogs/cvmfswhitelist` must be signed with smart card every month.

If you mess this up it will take one to two hours for people to start noticing so don't do it at 3.00pm.

Current Status

Number of days left can be checked via lemon:

- Lemon CVMFSWhiteExpire [?](#).
- Lemon CVMFSWhiteExpire on puppet nodes. [?](#).

Each host is in a sub cluster named by repository, e.g `lxcvmfs06` is in cluster `lxcvmfs`, subcluster `ams`.

Resigning a White List.

Do your self a favour and don't do this, nag Steve (or Alberto) to do it.

I know this can be done with a mac , I'm less sure about anything else.

Background: <https://cernvm.cern.ch/project/trac/cernvm/wiki/Smartcards> [?](#)

You require 4 things in advance.

- Your laptop/desktop, works certainly with mac or linux.
 - ◆ On a mac install `opensc` - from <http://www.opensc-project.org/opensc> [?](#).
- The smart card.
- The pin for the smart card.
- The smart card reader.

N.B. Members of the IT-PES-PS section can get a working smart card and a card reader from the IT secretariat.

Check out the magic scripts and input.

```
git clone https://git.cern.ch/ldap/it-cvmfs
cd signing
```

Plug in card reader and card and execute script.

```
./do-everything.sh
```

During the script run the pin reader will request the pin for as many repositories as we have.

Running lemon host check and waiting for lemonweb to update to check your handy work.

Debugging dodgy CVMFS Nodes

Sometimes we get errors reported such as

```
lxbsq0635 $ cd /cvmfs/lhcb.cern.ch/lib/lhcb/DBASE/TCK/HltTCK/v2r1
v2r1/ v2r10/ v2r11/ v2r12/ v2r13 v2r1p2/ v2r1p4/
lxbsq0635 $ cd /cvmfs/lhcb.cern.ch/lib/lhcb/DBASE/TCK/HltTCK/v2r13
-bash: cd: /cvmfs/lhcb.cern.ch/lib/lhcb/DBASE/TCK/HltTCK/v2r13: No such file or directory
```

These basically need investigating by hand using the methods:

- Check */var/log/messages*
- Add debugging with **CVMFS_DEBUGLOG=/tmp/cvmfs.log** to */etc/cvmfs/default.local*, this will require a remount to be active. Note that quattor is configured to remove this line with **ncm-checklines**.

Updating cvmfs-server puppet/appstate procedure

New procedure.

1. roger update --appstate=intervention <host>
2. Run puppet twice on host.
3. wait until */var/spool/cvmfs/*.cern.ch/in_transaction.lock* doesn't exist
4. yum update 'cvmfs*'
5. Set *creator_version: 2.3.3-1* in host's fqdn yaml.
6. Set roger appstate back to production.
7. Run puppet twice.

-- SteveTraylen - 23-Mar-2012

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