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Procedures for People maintaining CVMFS Repositories

Introduction

For each CVMFS repository an installation box exists where access is controlled via an e-group. Examples below are for the repository dummy, replace dummy with one of:

- atlas-condb
- cms
- ...

The installation nodes are considered "junk" in that they contain nothing that won't be restored via a reinstallation. All vital data is stored on a netapp file server and is stored to tape.

Logging In

You must be a member of the e-group LxCvmfs-dummy. Once you have joined the e-group it is best to wait until 08:00 local time for a cron to run.

Login

```
ssh <yourUsername>@cvmfs-dummy.cern.ch
```

If you would like to take ownership of the e-group to allow you to manage its members this is fine. The full list of such e-groups can be obtained by querying in https://e-groups.cern.ch/e-groups/EgroupsSearch.do

Changing identity to the Software Owner

The CVMFS shadow tree in /cvmfs/dummy.cern.ch/ is owned by a user called cv. See /etc/motd for the exact username. Suppose the account is called shared for the rest of this example.

To check know one else is this user and become the user

```
$ pgrep -fl -u shared
$ sudo -i -u shared
```

Initially this account is very naked and it would be wise at the least to copy skeleton profile files into place.

```
cp /etc/skel/.bash* ~/.bash*
```

The following instructions differ for SLC5 and SLC6 which also have very different versions of the cvmfs_server.

SLC6 - CvmFS 2.1 Installation Nodes


The home directory of shared users /srv/cvmfs/shared and is stored on the netapp and is backed up.
Start a Transaction

Start a transaction by executing

```
cvmfs_server transaction <repo>.cern.ch
```

Until this is done it will not be possible to write to `/cvmfs/dummy.cern.ch`

Edit Files

Files can now be created or edited in the usual ways in `/cvmfs/dummy.cern.ch` install your software and test it as much as you like.

Publishing Files

To publish files and close a transaction.

```
cd
cvmfs_server publish <repo>.cern.ch
```

this will fail if there any open files anywhere in `/cvmfs/dummy.cern.ch` and so it is necessary to not even have a shell in this directory, a simple ’cd’ is necessary so that your current working directory is not inside `/cvmfs/dummy.cern.ch`

Backup and Recovery

To recover recently deleted files they can be copied out of `/srv/cvmfs/atlas.cern.ch/.snapshot`. These files can be copied back into your shadow tree in `/cvmfs/dummy.cern.ch`. Once copied out the files should be republished in the normal fashion.

If you want to recover older than a few weeks ago or a complete system then it may be better to get in touch. For instance we have tape archives in addition.

Backup and Recovery

Please get in touch, while we can recover files that are deleted but it requires some work on our side.

Possible Problems

- There is a bug where by it's possible that the correct partitions may not be mounted resulting in an error `/cvmfs/dummy.cern.ch` is not mounted correctly. See - http://cernvm.cern.ch/portal/cvmfs/fix-failed-remount

Support

Submit a snow ticket, you will find there is CVMFS functional element to which tickets can be submitted.
Ideas, requests, problems regarding TWiki? Send feedback