

CONTROLROOM - Support #3455

minos-evd-02 commissioning

02/11/2013 09:28 AM - Arthur Kreymer

Status:	Assigned	Start date:	02/11/2013
Priority:	Normal	Due date:	02/28/2013
Assignee:	Arthur Kreymer	% Done:	90%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Description			
Commission the Lenovo minos-evd-02 hardware This includes making a local copy relevant AFS files. The goal is to run EVD on this system.			

History

#1 - 02/21/2013 04:51 PM - Arthur Kreymer

- Tracker changed from Bug to Support

- % Done changed from 10 to 50

1) Copied files local disk /home/afs, with symlink to /afs, from the real /afs/fnal.gov/files/code/e875/general.

```
general
releases
releases1
releases2
```

Details to be posted separately.

2) Modified mcrc (in \$HOME and data/minsoft/mcr/ControlRoomSoftware)
to source /afs/fnal.gov/files/code/e875/general/ups/etc/setup.sh
instead of /usr/local/etc/setup.sh

3) Created /usr/lib/libcrypto.so symlink to libcrypto.so

The event display now seems to run properly.

Remaining work :

- 1) Update this entry with details of the AFS export/import
- 2) Test FD for a day.
- 3) Test ND for a day.
- 4) Exchange identities minos-evd and minos-evd-02
- 5) Wait a week and retire minos-evd

#2 - 02/22/2013 12:14 PM - Arthur Kreymer

- Due date changed from 02/18/2013 to 02/26/2013

Summary of overall minos-evd-02 configuration actions

Cleaned up and archived files on minos-evd

- Got copy of shrc for convenience, on minos-evd

```
scp -r minos-rc-02:shrc shrc
```

- Cleaned up TriD recursive copies in /data/TriD/TriD/... and copied to /home/minos/TriD for reference
 - all owned as root. dated Jul 16 2010

```
cd /data/TriD
```

```
du -sm .
```

```

387 .
    checked for recent access to files.
    Read GNUmakefile, to tickle it

find . -maxdepth 1 -type f -atime -900
./GNUmakefile

find . -type f -atime -900
./GNUmakefile

    So nothing has been used for 900 days.

    Removed the mistaken TriD/Trid tree :

rm -r /data/TriD/Trid

    Copied these files to /home/minos/TriD

cp -vax /data/TriD /home/minos/TriD

```

- abandoned /data/etc, a reference copy of /etc from 2006
- abandoned /home/urish, 3 MB files and configurations vintage 2007
- corrected ownership and permissions of /data/minsoft

```

ksu
chmod 755 /data/minsoft/mcr/include/TriD/fonts

    as minsoft, in /data/minsoft

find /data/minsoft ! -user minsoft -exec ls -ld {} \; > rootfiles

    as root,

find /data/minsoft ! -user minsoft -exec chown minsoft.e875 {} \;

```

• Archived file systems

File systems to archive :

```

/data/mcr          2757 MB
/data/minsoft      438 MB
/home/minos        1009 MB

```

as minos:

```

cd /home/minos
tar czvf /var/tmp/minos-evd-minos.tgz .
du -sm /var/tmp/minos-evd-minos.tgz
378 /var/tmp/minos-evd-minos.tgz

```

```

cd /data/mcr
tar czvf /var/tmp/minos-evd-mcr.tgz .
du -sm /var/tmp/minos-evd-mcr.tgz
1110 /var/tmp/minos-evd-mcr.tgz

```

as minsoft

```

cd /data/minsoft
tar czvf /var/tmp/minos-evd-minsoft.tgz .
du -sm /var/tmp/minos-evd-minsoft.tgz
113 /var/tmp/minos-evd-minsoft.tgz

```

```

date
Mon Feb 11 11:58:50 CST 2013

```

```

    noted slow 2 GB /data/mcr/NuMIMon_overflow/xmlrpc_10ec316441e.dat
-rw-r--r-- 1 minos e875 2222219264 Jul 30 2010

```

as minos

```

LA=/var/tmp/minos-evd
RA=minos@minos27:/minos/data/controlroom/minos-evd

```

```
scp -c blowfish ${LA}-minos.tgz      ${RA}-minos.tgz
scp -c blowfish ${LA}-mcr.tgz       ${RA}-mcr.tgz
scp -c blowfish ${LA}-minsoft.tgz   ${RA}-minsoft.tgz
```

Archived AFS files

Modescan

- created modescan script, to scan for then fix file permissions
 - group read files
 - group exec directories
 - other read files
 - other exec directories
 - user write
- ran as kreymer@minos27
 - logs to /minos/data/users/kreymer/log/modescan

```
AFSG=/afs/fnal.gov/files/code/e875/general
MSL=/minos/data/users/kreymer/log/modescan
./modescan ${AFSG}      | tee ${MSL}/general-run.log
./modescan ${AFSG} fix | tee ${MSL}/general-fix.log
```

- ran on these directories, corresponding to AFS volumes
 - /afs/fnal.gov/files/code/e875/general

```
File counts :
  gr 20575
  gx 739
  or 20935
  ox 1036
  uw 37
```

- /afs/fnal.gov/files/code/e875/releases

```
  gr 24282
  gx 864
  or 24282
  ox 864
  uw 2654820
```

- /afs/fnal.gov/files/code/e875/releases1

```
File counts :
  gr 0
  gx 0
  or 0
  ox 0
  uw 0
```

- /afs/fnal.gov/files/code/e875/releases2

```
File counts :
  gr 9630
  gx 342
  or 9630
  ox 342
  uw 0
```

Archived

- minsoft@minos27

```
MAT=/minos/data/users/minsoft/AFS
```

```
cd /afs/fnal.gov/files/code/e875/general
time tar czvf ${MAT}/general.tgz .
```

```

date
du -sm ${MAT}/general.tgz
real    334m12.734s
user    88m41.628s
sys     12m26.011s
Tue Feb 19 14:06:25 CST 2013
24147   /minos/data/users/minsoft/AFS/general.tgz

cd /afs/fnal.gov/files/code/e875/releases
date
tar czvf ${MAT}/releases.tgz .
date
du -sm  ${MAT}/releases.tgz
Fri Feb 15 18:13:36 CST 2013
Fri Feb 15 20:21:39 CST 2013
10616   /minos/data/users/minsoft/AFS/releases.tgz

cd /afs/fnal.gov/files/code/e875/releases1
time tar czvf ${MAT}/releases1.tgz .
date
du -sm  ${MAT}/releases1.tgz
real    14m40.278s
user    6m30.719s
sys     0m40.051s
Thu Feb 21 12:56:50 CST 2013
1662    /minos/data/users/minsoft/AFS/releases1.tgz

cd /afs/fnal.gov/files/code/e875/releases2
time tar czvf ${MAT}/releases2.tgz .
date
du -sm  ${MAT}/releases2.tgz
real    14m28.825s
user    6m43.291s
sys     0m36.110s
Thu Feb 21 14:33:13 CST 2013
1721    /minos/data/users/minsoft/AFS/releases2.tgz

```

Configured minos-evd-02

- Set up /home/minos

```

root@minos-evd-02

cd /home
mv minos minos02
mkdir minos
chown minos.e875 minos
cp    minos02/.k5login minos/.k5login

minos@minos-evd-02

scp minos-evd:/var/tmp/minos-evd-minos.tgz /var/tmp/minos-evd-minos.tgz
tar xzvf /var/tmp/minos-evd-minos.tgz

scp minos-acnet:minos-kinit \
/home/minos/minos-kinit

Edited crontab.dat to
0 * * * * /home/minos/minos-kinit > /dev/null 2>&1
@reboot /home/minos-kinit > /dev/null 2>&1

crontab crontab.dat

Changed rms config file

mv opt/rms/config/minos-evd.fnal.gov \
opt/rms/config/minos-evd-02.fnal.gov

gedit opt/rms/config/minos-evd-02.fnal.gov/config
changed to minos-evd to minos-evd-02

Tested RMS
opt/rms/rms service rc near # and far
opt/rms/rms service om near # and far

```

- Copied data minsoft and mcr files from minos-evd

```

root
cd /home/data
mkdir mcr
mkdir minsoft
chown minos.e875 mcr minsoft

```

minsoft

```

cd /home/data/minsoft
tar xzvf /var/tmp/minos-evd-minsoft.tgz
rm .Xauthority

```

minos

```

time tar xzvf /var/tmp/minos-evd-mcr.tgz
date
real    0m57.724s
user    0m26.498s
sys     0m4.772s
Fri Feb 22 11:54:52 CST 2013

```

- Installed AFS local copy as user minsoft

```

scp -c blowfish minos27:/minos/data/users/minsoft/AFS/general.tgz /home/afs/general.tgz
# 36 minutes
mkdir /home/afs/fnal.gov/files/code/e875/general
cd /home/afs/fnal.gov/files/code/e875/general
date ; sleep 10
time tar xzvf /home/afs/general.tgz
date
Tue Feb 12 11:26:59 CST 2013

```

```

cd /home/afs
scp -c blowfish minos27:/minos/data/users/minsoft/AFS/releases.tgz .
releases.tgz          100% 10GB 11.1MB/s 15:54
mkdir releases
cd releases
time tar xzvf ../releases.tgz
date
real    21m30.306s
user    6m1.788s
sys     1m35.300s
$ date
Mon Feb 18 14:33:16 CST 2013

```

```

cd /home/afs
scp -c blowfish minos27:/minos/data/users/minsoft/AFS/releases1.tgz .
releases1.tgz        100% 1662MB 11.2MB/s 02:29
mkdir releases1
cd releases1
time tar xzvf ../releases1.tgz
date
real    3m7.975s
user    1m2.911s
sys     0m13.733s
Thu Feb 21 13:40:31 CST 2013

```

```

cd /home/afs
scp -c blowfish minos27:/minos/data/users/minsoft/AFS/releases2.tgz .
releases2.tgz        100% 1721MB 11.2MB/s 02:34
mkdir releases2
cd releases2
time tar xzvf ../releases2.tgz
date
real    2m28.554s
user    0m58.012s
sys     0m12.676s
Thu Feb 21 14:42:42 CST 2013

```

#3 - 02/22/2013 01:24 PM - Arthur Kreymer

- % Done changed from 50 to 80

One more minos-evd-02 system config item to note :

As root, had to create libcrypto symlink :

```
cd /usr/lib
ln -s libcrypto.so libcrypto.so.4
```

Also note that the releases* areas were inadvertently installed in the wrong place,

Under /home/afs
instead of /home/afs/fnal.gov/files/code/e875/

I have moved them where they belong, though they are not used by evd processes.

Desktop

I set the default to KDE.

Remaning work

Will swap minos-evd and minos-evd-02 hardware after the Monday Feb 25 detector ops meeting.

#4 - 02/26/2013 03:44 PM - Arthur Kreymer

- Due date changed from 02/26/2013 to 02/28/2013
- Status changed from New to Assigned
- Assignee set to Arthur Kreymer
- % Done changed from 80 to 90

RITM0049781

Jason Harrington swapped minos-evd and minos-evd-02 identities.
The Lenovo system will not drive the hi rez monitor beyond 1024 x 800.
Jason is investigating.