# Old xrootd notes

The rootd server on sldrh2 is down. This rootd server serves the system tests histos and the pawdemo.root file that we use to test the AIDA tag library. It looks like Tony has fixed the system tests histo server by moving it to glast02, but I can't figure out how to connect to this new rootd server.

As a simple fix (so I could continue my development), and to just gain some experience with xrootd, I thought I'd try to see if I could fire up xrootd on glast02. Tony told me that Navid was going to look into setting up xrootd for us, so I had a few questions about how I should proceed, and to share the results of my simple experiemtns.
Well, xrootd fired up ok (as user langston, not as root), but ROOT couldn't connect to it because I failed to authorize. This was my setup:

1. Iwrote this simple xrootd.cf configuration file:

```
#
# xrootd.cf
#
xrootd.fslib /nfs/farm/g/glast/u05/GLAST_EXT/rh9_gcc32/ROOT/v4.02.00/root/lib/libXrdOfs.so
oss.readonly
xrootd.export /nfs/farm/g/glast/u07/mcenery/systests/GlastRelease
```

2. I started xrootd like this:

```
xrootd -l xrdlog -c xrootd.cf &
```

3. I tried to access the v5r0p2 VerticalGamma100MeV system test histos running root from my laptop like this:

```
myfile = TFile::Open("root://glast02.slac.stanford.edu//nfs/farm/g/glast/u07/mcenery/systests
/GlastRelease/v5r0p2/VerticalGamma100MeV/linux/VerticalGamma100MeV_Histos.root");
```

4. I got these error messages from root

```
SysError in <TWinNTSystem::WinNTRecv>: recv (No such file or directory)
Error in <TWinNTSystem::RecvRaw>: cannot receive buffer
SysError in <TWinNTSystem::WinNTSend>: send (No such file or directory)
Error in <TWinNTSystem::SendRaw>: cannot send buffer
SysError in <TWinNTSystem::WinNTSend>: send (No such file or directory)
Error in <TWinNTSystem::SendRaw>: cannot send buffer
Info in <TAuthenticate::Authenticate>: attempted methods SSH/UidGid are not supported by remote server
version
Info in <TAuthenticate::Authenticate>: failure: list of attempted methods: UsrPwd SSH UidGid
Error in <TPSocket::Authenticate>: authentication failed for langston@glast02.slac.stanford.edu
SysError in <TWinNTSystem::WinNTRecv>: recv (No such file or directory)
Error in <TWinNTSystem::RecvRaw>: cannot receive buffer
SysError in <TWinNTSystem::WinNTSend>: send (No such file or directory)
Error in <TWinNTSystem::SendRaw>: cannot send buffer
SysError in <TWinNTSystem::WinNTSend>: send (No such file or directory)
Error in <TWinNTSystem::SendRaw>: cannot send buffer
Info in <TAuthenticate::Authenticate>: attempted methods SSH/UidGid are not supported by remote server
version
Info in <TAuthenticate::Authenticate>: failure: list of attempted methods: UsrPwd SSH UidGid
Error in <TPSocket::Authenticate>: authentication failed for langston@glast02.slac.stanford.edu
Error in <TNetFile::TNetFile>: can't open connection to rootd on host glast02.slac.stanford.edu at port
1094
Error in <TNetFile::Create>: authentication attempt unsuccessful
```

5. This was the output in the xrootd log file:

```
langston@glast02$ tail -f xrdlog
oss.fdlimit      512 1024
oss.maxdbsize    0
oss.readonly
oss.trace        0
oss.xfr          1 9437184 30 10800
050115 18:08:02 001 oss_Init: No remote file paths specified; local mode assumed
050115 18:08:02 001 Prep log directory not specified; prepare tracking disabled.
050115 18:08:02 001 Exporting /nfs/farm/g/glast/u07/mcenery/systests/GlastRelease
050115 18:08:02 001 XRootd protocol version 2.2.0 build 20041124-0752 successfully loaded.
050115 18:08:02 001 xrd@glast02.slac.stanford.edu:1094 initialization completed.
050115 18:15:29 18537 XrdLink: ?:11@ntvpn2-022 disconnected after 0:00:01 (matching protocol not found)
050115 18:15:29 18537 XrdLink: ?:11@ntvpn2-022 disconnected after 0:00:00 (matching protocol not found)
```