

Pinger move from RedHat6 to CentOS

Remove need for /usr/local/bin

The half hourly job to ping all the active PingER hosts is at `~cottrell/bin/pinger_startup.pl`. It in turn calls `pinger2.pl` to make the measurements.

In CentOS there is no `/usr/local/bin` so we need to make the following change in `pinger_startup`, and after testing restore

```
#my $PERL_PATH="/usr/local/bin/perl";
```

```
my $PERL_PATH="/usr/bin/perl";
```

Failure to restore `$PERL_PATH` results in email with:

Can't locate XML/Simple.pm in @INC (@INC contains: /usr/local/lib/perl5 /usr/local/share/perl5 /usr/lib/perl5/vendor_perl /usr/share/perl5 /vendor_perl /usr/lib/perl5 /usr/share/perl5 .) at /afs/slac/package/pinger/pinger2/share/pinger/pinger2.pl line 450.
BEGIN failed--compilation aborted at /afs/slac/package/pinger/pinger2/share/pinger/pinger2.pl line 450.

An improved solution is:

```
use Net::Domain qw(hostname hostfqdn hostdomain);
```

```
my $hostname = hostname();#eg $hostname='pinger'
```

```
my $hostfqdn = hostfqdn();#eg $hostfqdn='pinger.slac.stanford.edu'
```

```
my $PERL_PATH="/usr/local/bin/perl";
```

```
if($hostname eq 'pinger-test') {$PERL_PATH="/usr/bin/perl";}
```

Access to /nfs

INC0346900:

I am unable to access the following /nfs file on `pinger-test.pl` from either the pinger or cottrell accounts, but am able to access it from the `cottrell@pinger.slac.stanford.edu` or `pinger@pinger.slac.stanford.edu` accounts:

```
[pinger@pinger-test ~]$ ls -l /nfs/slac/g/net/pinger/pinger2/data/ping-2022-01.txt
```

```
ls: cannot access /nfs/slac/g/net/pinger/pinger2/data/ping-2022-01.txt: No such file or directory
```

```
[cottrell@pinger-test ~]$ ls -l /nfs/slac/g/net/pinger/pinger2/data/ping-2022-01.txt
```

```
ls: cannot access /nfs/slac/g/net/pinger/pinger2/data/ping-2022-01.txt: No such file or directory
```

However I can access it from `cottrell@pinger`

```
[cottrell@pinger ~]$ ls -l /nfs/slac/g/net/pinger/pinger2/data/ping-2022-01.txt
```

```
-rw-r--r-- 1 pinger sf 66517964 Jan 6 16:37 /nfs/slac/g/net/pinger/pinger2/data/ping-2022-01.txt
```

or `pinger@pinger`

```
[pinger@pinger ~]$ ls -l /nfs/slac/g/net/pinger/pinger2/data/ping-2022-01.txt
```

```
-rw-r--r-- 1 pinger sf 66709377 Jan 6 16:47 /nfs/slac/g/net/pinger/pinger2/data/ping-2022-01.txt
```

Pinger-test has not been given access to NFS. (This managed by host, not user.)

Looking in more detail /nfs/slac is not accessible from `cottrell@pinger-test`

```
[cottrell@pinger-test ~]$ ls -l /nfs/slac
```

```
ls: cannot access /nfs/slac: No such file or directory
```

Pinger-test has not been given access to NFS. (This managed by host, not user.)

tracrontab -e

INC0346569:

There is still a minor problem with invoking `tracrontab -e`, the `.bashrc` does not appear to be invoked at login.

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```
-bash-4.2$ trscrontab -e
-bash: trscrontab: command not found
-bash-4.2$ source .bashrc
[pinger@pinger-test ~]$ trscrontab -e
trscrontab: Old and new crontabs are identical.
trscrontab: Request scheduled.
[pinger@pinger-test ~]$ cat .bashrc
# .bashrc

# Source global definitions
if [ -f /etc/bashrc ]; then
    . /etc/bashrc
fi
alias escrow="perl /afs/slac.stanford.edu/package/scsutils/scripts/escrow"
alias trscrontab=/afs/slac.stanford.edu/package/scsutils/src/trs/cron/trscrontab
# Uncomment the following line if you don't like systemctl's auto-paging feature:
# export SYSTEMD_PAGER=

# User specific aliases and functions
```

In that case, can you rename .bashrc to .bash_profile, and re-login ?

That fixed it:
retaylor:~ cottrell\$ ssh pinger@pinger-test.slac.stanford.edu
pinger@pinger-test.slac.stanford.edu's password:
Last login: Thu Jan 6 12:54:02 2022 from 23-124-104-105.lightspeed.sntcca.sbcglobal.net

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```
[pinger@pinger-test ~]$ trscrontab -e
trscrontab: Old and new crontabs are identical.
trscrontab: Request scheduled.
[pinger@pinger-test ~]$
```

escrow edit -c netdev cottrell

INC0346741:

I note that escrow does not seem to work on pinger-test or cent7a
[cottrell@pinger-test ~]\$ escrow edit -c netdev cottrell
escrow: Command not found.

Put the following in ~cottrell/.cshrc
alias escrow "perl /afs/slac.stanford.edu/package/scsutils/scripts/escrow"
alias trscrontab /afs/slac.stanford.edu/package/scsutils/src/trs/cron/trscrontab
For pinger, put the following in ~pinger/.bash_profile
alias escrow="perl /afs/slac.stanford.edu/package/scsutils/scripts/escrow"
alias trscrontab=/afs/slac.stanford.edu/package/scsutils/src/trs/cron/trscrontab

I now get:

```
[cottrell@pinger-test ~]$ escrow edit -c netdev cottrell  
/afs/slac.stanford.edu/package/console/@sys/slacmsg: error while loading shared libraries: libgssapi_krb5.so.2: cannot open shared object file: No such  
file or directory  
File cottrell was escrowed to the following users:  
cottrell@slac.stanford.edu
```

You need a pass phrase to unlock your RSA secret key.
Key for user ID "Les Cottrell <cottrell@slac.stanford.edu>"

Enter pass phrase:

Good signature from user "Les Cottrell <cottrell@slac.stanford.edu>".
Signature made 2022/01/04 18:27 GMT

WARNING: Because this public key is not certified with a trusted
signature, it is not known with high confidence that this public key
actually belongs to: "Les Cottrell <cottrell@slac.stanford.edu>".
No changes, nothing stored
[cottrell@pinger-test ~]\$

I think you can ignore the error from slacmsg. It is just a logging issue.

Since slacmsg is 32bit and depends on a lots of 32bit libraries, I am not sure I should install all of them, especially those 32bit PAM related libraries.