

# PingER install at Daffodil university

PingER and the tracerouter server were installed at Daffodil University in Bangladesh.

- <http://203.190.11.4/cgi-bin/traceroute.pl> works for both reverse traceroute and pin servers.
- [http://203.190.11.4/cgi-bin/ping\\_data.pl](http://203.190.11.4/cgi-bin/ping_data.pl) responds with the form, however:
  - The output has been modified to remove the debugging/help boxes at the top. See [Difference in Daffodil and normal ping\\_data.pl form output](#)
  - When one gathers data (e.g. by pushing Getdata!) one gets the response:

```
#No data found in 0 lines of data between dates specified in /usr/local/share/pinger/data/ping-2013-09.txt.
#Dates: 2013/9..2013/9. Epoch time searched from 1380240000-120 secs to 1380412740+120 secs
#Results (6 lines) from /usr/bin/tail -20 /usr/local/share/pinger/data/ping-2013-09.txt are:
#Pinging pinger.daffodilvarsity.edu.bd [203.190.11.4] with 32 bytes of data:
#Reply from 203.190.11.4: bytes=32 time=12ms TTL=63
#Reply from 203.190.11.4: bytes=32 time=3ms TTL=63
#Reply from 203.190.11.4: bytes=32 time=8ms TTL=63
#Reply from 203.190.11.4: bytes=32 time=9ms TTL=63
```

To further investigate we were provided an account on 203.190.11.4.

We followed the information in <http://www-iepm.slac.stanford.edu/pinger/faq.html#nodata>

- The PingER directory is at: /usr/local/share/pinger/.

```
[root@pinger ~]# cd /usr/local/share/pinger
[root@pinger pinger]# ls -l
total 140
-rw-r--r-- 1 root root 16844 Sep  1 12:20 beacons.txt
drwxr-xr-x 2 root root  4096 Sep 14 16:52 data
-rwxr-xr-x 1 root root   300 Sep  1 12:20 dnsV4Cmd.pl
-rwxr-xr-x 1 root root  5385 Sep  1 12:20 installCron.pl
-rw-r--r-- 1 root root 34443 Sep  1 12:20 pinger2.html
-rw-r--r-- 1 root root 50442 Sep  1 12:20 pinger2.pl
-rw-r--r-- 1 root root   314 Oct  1 00:30 pingerCronStat.stderr
-rw-r--r-- 1 root root   518 Oct  1 00:30 pingerCronStat.stdout
-rw-r--r-- 1 root root  1610 Oct  1 00:30 pinger.xml
-rw-r--r-- 1 root root  2512 Sep  1 12:20 pinger.xsd
```

## pinger.xml

- There was nothing in the <BeaconList></BeaconList> stanza. This is normally updated weekly by pinger2.pl accessing the beacon table at SLAC <http://www-iepm.slac.stanford.edu/pinger/beacons.txt>.
- <SrcName>pinger.slac.stanford.edu</SrcName> needs to be updated to <SrcName>203.190.11.4</SrcName>.
- Also the host needs to get a Domain name registration (e.g. pinger.daffodilvarsity.edu.bd):w and that entered into the <Srcname>
- Looking at the processes running I see:

```
[root@pinger pinger]# ps -efl | grep pinger
5 S avahi      6628      1  0  80   0 -   822 -   Sep01 ?           00:00:41 avahi-daemon: running [pinger.local]
```

and

```
[root@pinger ~]# ps -efl | grep http
5 S apache 13111 16592 0 80 0 - 8046 - Sep29 ? 00:00:00 /usr/sbin/httpd
5 S apache 13112 16592 0 80 0 - 8112 - Sep29 ? 00:00:00 /usr/sbin/httpd
5 S apache 13113 16592 0 80 0 - 8079 - Sep29 ? 00:00:00 /usr/sbin/httpd
5 S apache 13114 16592 0 80 0 - 8112 - Sep29 ? 00:00:00 /usr/sbin/httpd
5 S apache 13115 16592 0 80 0 - 8079 - Sep29 ? 00:00:00 /usr/sbin/httpd
5 S apache 13116 16592 0 80 0 - 8112 - Sep29 ? 00:00:00 /usr/sbin/httpd
5 S apache 13117 16592 0 80 0 - 8079 - Sep29 ? 00:00:00 /usr/sbin/httpd
5 S apache 13120 16592 0 80 0 - 8112 - Sep29 ? 00:00:00 /usr/sbin/httpd
5 S apache 13121 16592 0 80 0 - 8079 - Sep29 ? 00:00:00 /usr/sbin/httpd
5 S root 16592 1 0 80 0 - 8046 - Sep14 ? 00:00:21 /usr/sbin/httpd
```

The crontab shows:

```
[root@pinger ~]# crontab -l
*/30 * * * * cd /usr/local/share/pinger; perl /usr/local/share/pinger/pinger2.pl > /usr/local/share/pinger/pingerCronStat.stdout 2> /usr/local/share/pinger/pingerCronStat.stderr
```

And the pinger2.pl version is the latest (2.0.6).

## pingerCronStat.stdout log

```
Tue Oct 1 00:30:01 2013 /usr/local/share/pinger/pinger2.pl(version=2.0.6, 11/12/2012 by Les Cottrell) loaded
pinger.xml config for root@pinger.slac.stanford.edu
getIPv4: Tue Oct 1 00:30:01 2013 local time processing pinger.slac.stanford.edu
_getIP(1,pinger.slac.stanford.edu): dnsCmd=/usr/local/share/pinger/dnsV4Cmd.pl %destination, destination=pinger.slac.stanford.edu
/tmp/pinger2_newBeaconList.txt does not exist on pinger.daffodilvarsity.edu.bd
BeaconList will be updated. LastUpdate was: 0 interval is 604800.
```

## pingerCronStat.stderr log

```
Can't exec "/usr/local/bin/lynx": No such file or directory at /usr/local/share/pinger/pinger2.pl line 518.
Use of uninitialized value $beacons in split at /usr/local/share/pinger/pinger2.pl line 520.
Use of uninitialized value $nline in concatenation (.) or string at /usr/local/share/pinger/pinger2.pl line 596.
```

## Resolution

There is a lynx on the host. It is at /usr/bin/lynx. This needed to be entered in the pinger.xml file, i.e.

```
<HttpGetBin>/usr/bin/lynx -source -dump %s</HttpGetBin>
```

In addition I verified that the locations of the dig, mail and ping were correctly entered in pinger.xml.

I looked at the latest entry in /usr/local/share/pinger/data/

```
[root@pinger pinger]# ls -l data/
total 32
-rw-r--r-- 1 root root 27480 Oct 1 03:54 ping-2013-09.txt
```

The update time and date were recent and there were >> 1000 bytes in the file so it looked promising. So I did a head command on the file:

```
[root@pinger ~]# head /usr/local/share/pinger/data/ping-2013-09.txt
Pinging pinger.daffodilvarsity.edu.bd [203.190.11.4] with 32 bytes of data:
Reply from 203.190.11.4: bytes=32 time=12ms TTL=63
Reply from 203.190.11.4: bytes=32 time=3ms TTL=63
Reply from 203.190.11.4: bytes=32 time=8ms TTL=63
Reply from 203.190.11.4: bytes=32 time=9ms TTL=63
203.190.11.4 203.190.11.4 www.univ-sba.dz 80.249.75.2 100 1380577705 10 10 238.610 239.389 240.745 1 2 3 4 5 6
7 8 9 10 240 238 240 239 239 238 238 239 238 238
203.190.11.4 203.190.11.4 waib.gouv.bj 81.91.232.2 100 1380577707 10 10 347.761 348.693 350.187 1 2 3 4 5 6 7 8
9 10 350 348 348 347 350 347 348 349 347 348
203.190.11.4 203.190.11.4 frcu.eun.eg 193.227.1.1 100 1380577708 10 10 310.162 321.238 334.306 1 2 3 4 5 6 7 8
9 10 330 319 320 319 319 311 310 313 332 334203.190.11.4 203.190.11.4 www.stmaryuniversitycollege.edu.et
213.55.83.210 100 1380577709 10 10 410.875 417.609 422.054 1 2 3 4 5 6 7 8 9 10 417 420 417 410 414 418 420 416
422 417
```

"It's alive!"\*

\* Mary Shelley, "Frankenstein".