

What we can draw from the data presented from pinging teamliquid.net with 60 packets at 1 hour intervals over a 24 hour period is not particularly interesting, test began at 12:15AM Jan 26 (T-0). The data indicates that both the recipient and the sender (teamliquid.net and MTU resp.) have apparently stable connections. The two outlying pings, after some research, were likely caused by two events that occurred on the website at that time causing increased traffic. With a total packet loss of 0% over the entire period and an extremely consistent ping we can conclude that over this interval both systems were up and communicating with no issues that can be detected, at least not from this data alone.

Part 1:

audit.chk

#!/bin/bash

Search a file (audit.log) in the current directory for the string

1 521 1 and output all lines containing it to the file audit.chk

#

If the file is greater than 2K cut the first 2K to a new file

(denoted as audit.<daymonthyear>).

#get all lines with the string

grep "1 521 1" audit.log >> audit.chk

#get the line count

linecount=`grep "1 521 1" audit.log | wc -l | awk -F ' ' '{ print \$1 }`

echo \$linecount >> audit.chk

#get file size

filesize=`wc -c audit.log | awk -F ' ' '{ print \$1 }`

#trim off the first 2048...

if [\$filesize -gt 2048]; then

head -c 2048 audit.log >> audit.`date '+%m%d%y'` #write out the first 2048 (APPENDED)

tail -c +2049 audit.log > audit.log #delete the first 2048 from the file

fi

Part 2:

trace.sh

#!/bin/bash

if [\$# -ne 1]; then

echo "Usage:"

echo " trace.sh <host>"

exit 1

fi

echo "Route to "\$1

tracert \$1 | grep -e 'ms\|*' | awk -F ' ' '{ print \$1 " "\$2 }'

ping.sh

```
#!/bin/bash
```

```
if [ $# -ne 1 -a $# -ne 2 ]; then
```

```
    echo "Usage:"
```

```
    echo "    trimmed_ping.sh <host> [num_pings]"
```

```
    exit 1
```

```
fi
```

```
numpings=60
```

```
echo "-----"
```

```
echo -n "Ping results for "
```

```
echo -n `date +%c`
```

```
echo " on "$1
```

```
#do the ping
```

```
pingresult=`ping -c $numpings $1`
```

```
#retrieve the right lines "$var" to preserve spacing
```

```
loss=`echo "$pingresult" | grep "packets"`
```

```
time=`echo "$pingresult" | grep "rtt"`
```

```
#get the avg time
```

```
avgtime=`echo $time | awk -F ' ' '{ print $2 }' | awk -F '/' '{ print $2 }`
```

```
#get the lossrate
```

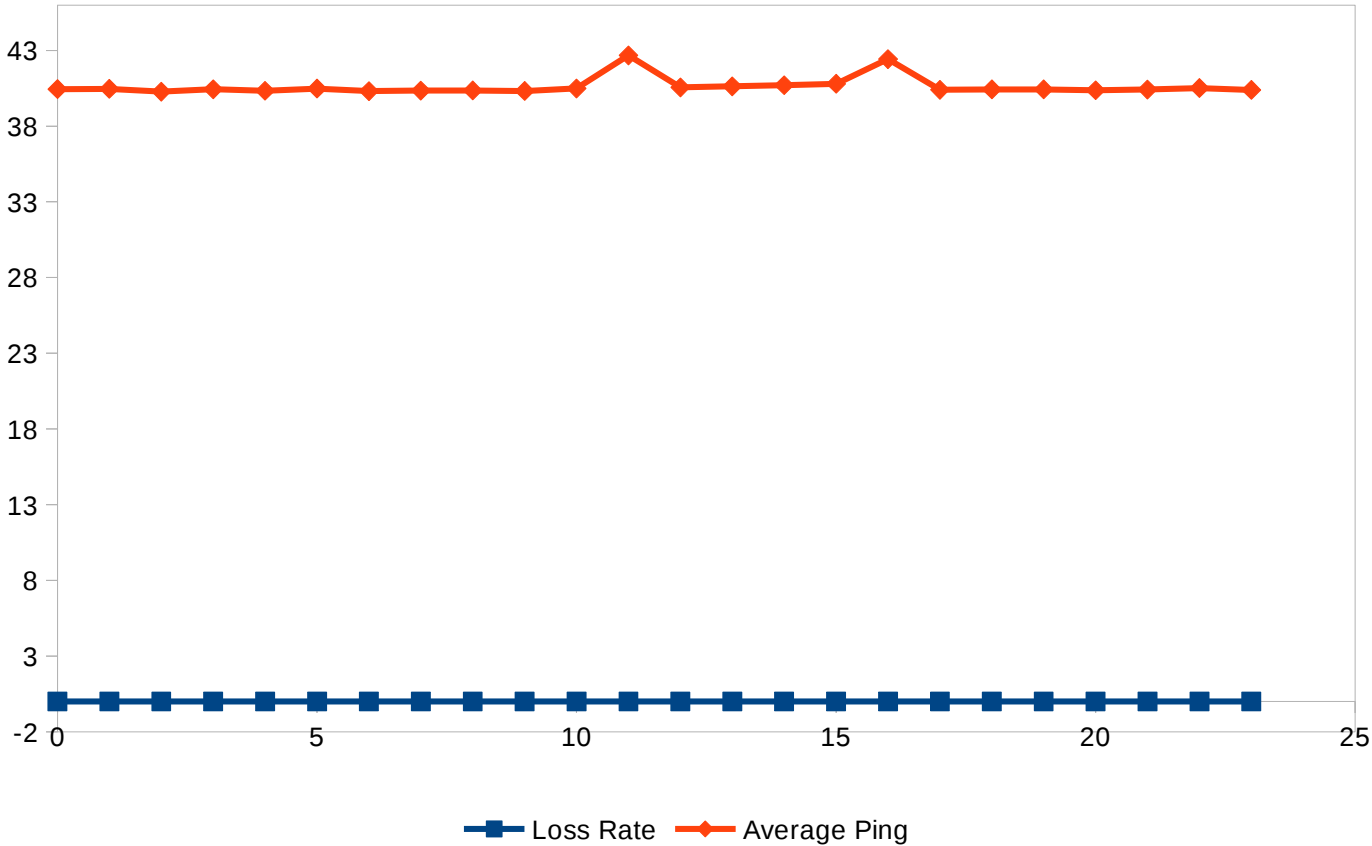
```
lossrate=`echo $loss | awk -F ', ' '{ print $3 }' | awk -F ' ' '{ print $1 }`
```

```
echo "Loss rate: "$lossrate
```

```
echo "Average time: "$avgtime
```

```
echo "-----"
```

Ping to teamliquid.net



Time	Loss Rate	Average Ping
0	0	40.444
1	0	40.464
2	0	40.281
3	0	40.442
4	0	40.337
5	0	40.479
6	0	40.316
7	0	40.35
8	0	40.362
9	0	40.323
10	0	40.492
11	0	42.679
12	0	40.56
13	0	40.632
14	0	40.703
15	0	40.801
16	0	42.426
17	0	40.403
18	0	40.427
19	0	40.424
20	0	40.37
21	0	40.417
22	0	40.52
23	0	40.397

File Edit View Search Terminal Help

```
[btcraig@localhost sat3711]$ ls -la
```

```
total 44
```

```
drwxrwxr-x. 2 btcraig btcraig 4096 Jan 28 13:31 .  
drwxrwxr-x. 4 btcraig btcraig 4096 Jan 26 10:18 ..  
-rw-rw-r--. 1 btcraig btcraig 2048 Jan 28 13:31 audit.012815  
-rw-rw-r--. 1 btcraig btcraig 10004 Jan 28 13:31 audit.chk  
-rw-rw-r--. 1 btcraig btcraig 0 Jan 28 13:31 audit.log  
-rwx-----. 1 btcraig btcraig 740 Jan 28 13:31 audit.sh  
-rw-rw-r--. 1 btcraig btcraig 4939 Jan 28 13:25 ping.results  
-rwx-----. 1 btcraig btcraig 907 Jan 25 23:50 ping.sh  
-rwx-----. 1 btcraig btcraig 178 Jan 25 23:58 trace.sh  
[btcraig@localhost sat3711]$ $
```