NAME

sc_pinger — scamper driver to run ping with different probe methods on a list of addresses.

SYNOPSIS

```
sc_pinger [-?D] [-a infile] [-c probe-count] [-1 limit] [-m method]
        [-M move-dir] [-o outfile] [-p port] [-R unix-remote] [-t logfile]
        [-U unix-socket]
```

DESCRIPTION

The **sc_pinger** utility provides the ability to connect to a running scamper(1) instance and run ping on a set of IPv4 and IPv6 addresses. For each address in the file, **sc_pinger** will try ICMP, UDP, and TCP-ack probe methods to solicit responses from the address. **sc_pinger** will not try all methods if one method obtains responses. The output of **sc_pinger** is written to a warts(5) file, which can then be processed to extract details of responses. The options are as follows:

- -? prints a list of command line options and a synopsis of each.
- -D causes **sc_pinger** to detach and become a daemon.
- -a infile

specifies the name of the input file which consists of a sequence of IPv4 and IPv6 addresses, one per line.

-c probe-count

specifies the number of probes to send for each method. **sc_pinger** accepts two formats: a single integer that specifies the number of probes (and responses) desired; or, two integers, separated by /, that specify the number of responses desired and maximum number of probes to send. By default, **sc_pinger** seeks three responses from up to five probes.

-l limit

specifies the number of objects to write to an output file, before closing it and opening the next file. The output file must contain a %u format specifier, which **sc_pinger** uses to embed a counter value that increments with each new output file. If the user uses the move option, **sc_pinger** moves the file when it closes the file.

-m method

specifies a single probe method to try. The available probe methods are the same as scamper's ping implementation, listed in scamper(1) manual page. By default, **sc_pinger** uses ICMP-echo, UDP-dport, and TCP-ack-sport to destination port 80.

-M move-dir

specifies the name of the directory to move completed files to. By default, **sc_pinger** leaves completed files in place.

-o outfile

specifies the name of the output file to be written. The output file will use the warts(5) format.

-p port

specifies the port on the local host where scamper(1) is accepting control socket connections.

-R unix-remote

specifies the name of a unix domain socket on the local host where a remote scamper(1) instance is accepting commands.

-t logfile

specifies the name of a file to log output from **sc_pinger** generated at run time.

-U unix-local

specifies the name of a unix domain socket on the local host where a local scamper(1) instance is accepting commands.

EXAMPLES

Given a set of IPv4 and IPv6 address sets in a file named infile.txt:

192.0.2.1 192.0.32.10 192.0.31.60 2001:db8::1

and a scamper(1) daemon listening on port 31337, then these addresses can be probed using

sc_pinger -a infile.txt -o outfile.warts -p 31337

To send 4 probes, and stop after receiving two responses:

sc_pinger -a infile.txt -o outfile.warts -p 31337 -c 2/4

To use ICMP-echo and TCP-syn probes to destination port 443

```
sc_pinger -a infile.txt -o outfile.warts -p 31337 -m icmp-echo -m
'tcp-syn -d 443'
```

The following command writes a series of gzip-compressed warts(5) files, each of which have up to 1000 objects in them, with names such as outfile_0000.warts.gz, outfile_0001.warts.gz, moving them to the finished directory:

sc_pinger -a infile.txt -o outfile_%04u.warts.gz -p 31337 -l 1000 -m finished

A user can concatenate these files into a final bzip2-compressed warts(5) file with sc_wartscat(1):

sc_wartscat -o outfile_final.warts.bz2 outfile_0000.warts.gz
outfile_0001.warts.gz

SEE ALSO

```
scamper(1), sc_wartscat(1), sc_wartsdump(1), sc_warts2json(1), sc_warts2text(1)
```

AUTHORS

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