

**NAME**

**sc\_pinger** — scamper driver to run ping with different probe methods on a list of addresses.

**SYNOPSIS**

```
sc_pinger [-?D] [-a infile] [-o outfile] [-p port] [-U unix-socket]  
          [-c probe-count] [-m method] [-t logfile]
```

**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.
- 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.
- U *unix-socket*  
specifies the name of a unix domain socket where `scamper(1)` is accepting control socket connections.
- 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.
- 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.
- t *logfile*  
specifies the name of a file to log output from **sc\_pinger** generated at run time.

**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'
```

#### SEE ALSO

scamper(1), sc\_wartsdump(1), sc\_warts2json(1), sc\_warts2text(1)

#### AUTHORS

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