tools iperf

Tools iperf—Run tests to display various parameters related to timing, buffers, and the TCP and UDP protocols for IPv4 and IPv6 (on vEdge routers only). This command is similar to the standard iperf command.

Command Syntax

tools iperf [options options] [vpn vpn-id]
tools iperf help

Options

Command Help

help
Display all the command options.

Command Options

options options
See the Example Output below for a list of all the tool iperf command options.

Specific VPN

vpn vpn-id
Run the command in a specific VPN.
Default: VPN 0

Output Fields

The output is self explanatory.

Example Output

Viptela# tools iperf help
USAGE:
Options:
  help
    Show usage
  vpn
    VPN or namespace
  options
    iperf options
iperf --help in VPN 0
Usage: iperf [-s|-c host] [options]
  iperf [-h|--help] [-v|--version]

Client/Server:
  -f, --format [kmKM] format to report: Kbits, Mbits, KBytes, MBytes
  -i, --interval # seconds between periodic bandwidth reports
  -l, --len # [KM] length of buffer to read or write (default 8 KB)
  -m, --print_mss          print TCP maximum segment size (MTU - TCP/IP header)
  -o, --output <filename> output the report or error message to this specified file
  -p, --port # server port to listen on/connect to
  -u, --udp               use UDP rather than TCP
  -w, --window # [KM] TCP window size (socket buffer size)
  -b, --bind <host> bind to <host>, an interface or multicast address
  -C, --compatibility for use with older versions does not send extra msgs
  -M, --mss # set TCP maximum segment size (MTU - 40 bytes)
  -N, --nodelay
  -V, --IPv6Version Set the domain to IPv6
Server specific:
- -s, --server             run in server mode
- -U, --single_udp         run in single threaded UDP mode
- -D, --daemon             run the server as a daemon

Client specific:
- -b, --bandwidth #[KM]    for UDP, bandwidth to send at in bits/sec
  (default 1 Mbit/sec, implies -u)
- -c, --client <host>      run in client mode, connecting to <host>
- -d, --single-test        Do a bidirectional test simultaneously
- -n, --num #[KM]          number of bytes to transmit (instead of -t)
- -r, --tradeoff           Do a bidirectional test individually
- -t, --time #             time in seconds to transmit for (default 10 secs)
- -P, --fileinput <name>   input the data to be transmitted from a file
- -I, --stdin              input the data to be transmitted from stdin
- -L, --listenport #       port to receive bidirectional tests back on
- -P, --parallel #         number of parallel client threads to run
- -T, --ttl #              time-to-live, for multicast (default 1)
- -Z, --linux-congestion <algo> set TCP congestion control algorithm (Linux only)

Miscellaneous:
- -x, --reportexclude [CDMSV] exclude C(connection) D(data) M(multicast) S(settings) V(server) reports
- -y, --reportstyle C      report as a Comma-Separated Values
- -h, --help               print this message and quit
- -v, --version            print version information and quit

[KM] Indicates options that support a K or M suffix for kilo- or mega-

The TCP window size option can be set by the environment variable
TCP_WINDOW_SIZE. Most other options can be set by an environment variable
IPERF_<long option name>, such as IPERF_BANDWIDTH.

Report bugs to <iperf-users@lists.sourceforge.net>

Determine the data transfer rate and bandwidth available between two vEdge routers. Set up the client side:

Client-vEdge# tools iperf vpn 0 options -s
option_list, -s
arg_list, -s
iperf -s in VPN 0
------------------------------------------------------------
Server listening on TCP port 5001
TCP window size: 85.3 KByte (default)
------------------------------------------------------------

Start the test on the server side:

Server-vEdge# tools iperf vpn 0 options "-c 172.16.255.13"
option_list, -c 172.16.255.13
arg_list, -c 172.16.255.13
iperf -c 172.16.255.13 in VPN 0
------------------------------------------------------------
Client connecting to 172.16.255.13, TCP port 5001
TCP window size: 22.1 KByte (default)
------------------------------------------------------------

View the output on the server vEdge router:

[  4] local 10.0.12.26 port 54421 connected with 172.16.255.13 port 5001
[ ID] Interval Transfer Bandwidth
[  4]  0.0-10.0 sec  239 MBytes  200 Mbits/sec
Server-vEdge#

View the output and terminate the test on the client vEdge router:

[ ID] Interval Transfer Bandwidth
[  5]  0.0-10.1 sec  239 MBytes  200 Mbits/sec
^CClient-vEdge#
Release Information
Command introduced in Viptela Software Release 17.1.

Additional Information

Iperf Wikipedia page
ping
tools nping
tools ss