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Rocky Enterprise Linux 9.2 Manual Pages on command 'ip-tcp_metrics.8'

\$ man ip-tcp_metrics.8

IP-TCP_METRICS(8) Linux IP-TCP_METRICS(8)

NAME

ip-tcp_metrics - management for TCP Metrics

SYNOPSIS

ip [OPTIONS] tcp_metrics { COMMAND | help }

ip tcp_metrics { show | flush } SELECTOR

ip tcp_metrics delete [address] ADDRESS

SELECTOR := [[address] PREFIX]

DESCRIPTION

ip tcp_metrics is used to manipulate entries in the kernel that keep TCP information for IPv4 and IPv6 destinations. The entries are created when TCP sockets want to share information for destinations and are stored in a cache keyed by the destination address. The saved information may include values for metrics (initially obtained from routes), recent TSVAL for TIME-WAIT recycling purposes, state for the Fast Open feature, etc. For performance reasons the cache can not grow above configured limit and the older entries are replaced with fresh information, sometimes reclaimed and used for new destinations. The kernel

never removes entries, they can be flushed only with this tool.

`ip tcp_metrics show` - show cached entries

address PREFIX (default)

IPv4/IPv6 prefix or address. If no prefix is provided all en?

tries are shown.

The output may contain the following information:

age <S.MMM>sec - time after the entry was created, reset or updated with metrics from sockets. The entry is reset and refreshed on use with metrics from route if the metrics are not updated in last hour. Not all cached values reset the age on update.

cwnd <N> - CWND metric value

fo_cookie <HEX-STRING> - Cookie value received in SYN-ACK to be used by

Fast Open for next SYNs

fo_mss <N> - MSS value received in SYN-ACK to be used by Fast Open for next SYNs

fo_syn_drops <N>/<S.MMM>sec ago - Number of drops of initial outgoing Fast Open SYNs with data detected by monitoring the received SYN-ACK after SYN retransmission. The seconds show the time after last SYN drop and together with the drop count can be used to disable Fast Open for some time.

reordering <N> - Reordering metric value

rtt <N>us - RTT metric value

rttvar <N>us - RTTVAR metric value

ssthresh <SSTHRESH> - SSTHRESH metric value

tw_ts <TSVAL>/<SEC>sec ago - recent TSVAL and the seconds after saving it into TIME-WAIT socket

`ip tcp_metrics delete` - delete single entry

address ADDRESS (default)

IPv4/IPv6 address. The address is a required argument.

`ip tcp_metrics flush` - flush entries

This command flushes the entries selected by some criteria.

This command has the same arguments as show.

ip tcp_metrics show address 192.168.0.0/24

Shows the entries for destinations from subnet

ip tcp_metrics show 192.168.0.0/24

The same but address keyword is optional

ip tcp_metrics

Show all is the default action

ip tcp_metrics delete 192.168.0.1

Removes the entry for 192.168.0.1 from cache.

ip tcp_metrics flush 192.168.0.0/24

Removes entries for destinations from subnet

ip tcp_metrics flush all

Removes all entries from cache

ip -6 tcp_metrics flush all

Removes all IPv6 entries from cache keeping the IPv4 entries.

SEE ALSO

ip(8)

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iproute2

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IP-TCP_METRICS(8)