NAME

ip-mptcp − MPTCP path manager configuration

SYNOPSIS

ip [*OPTIONS*] **mptcp** { **endpoint** | **limits** | **help** }

ip mptcp endpoint add *IFADDR* [**port** *PORT*] [**dev** *IFNAME*] [**id** *ID*] [*FLAG-LIST*]

ip mptcp endpoint del id *ID*

ip mptcp endpoint show [**id** *ID*]

ip mptcp endpoint flush

FLAG-LIST := [*FLAG-LIST*] *FLAG*

FLAG := [**signal** | **subflow** | **backup**]

ip mptcp limits set [**subflow** *SUBFLOW_NR*] [**add_addr_accepted** *ADD_ADDR_ACCEPTED_NR*]

ip mptcp limits show

ip mptcp monitor

DESCRIPTION

MPTCP is a transport protocol built on top of TCP that allows TCP connections to use multiple paths to maximize resource usage and increase redundancy. The ip-mptcp sub-commands allow configuring several aspects of the MPTCP path manager, which is in charge of subflows creation:

The **endpoint** object specifies the IP addresses that will be used and/or announced for additional subflows:

ip mptcp endpoint add	add new MPTCP endpoint
ip mptcp endpoint delete	delete existing MPTCP endpoint
ip mptcp endpoint show	get existing MPTCP endpoint
ip mptcp endpoint flush	flush all existing MPTCP endpoints

PORT When a port number is specified, incoming MPTCP subflows for already established MPTCP sockets will be accepted on the specified port, regardless the original listener port accepting the first MPTCP subflow and/or this peer being actually on the client side.

ID is a unique numeric identifier for the given endpoint

signal the endpoint will be announced/signalled to each peer via an ADD_ADDR MPTCP sub-option

subflow
if additional subflow creation is allowed by MPTCP limits, the endpoint will be used as the source address to create an additional subflow after that the MPTCP connection is established.

backup
the endpoint will be announced as a backup address, if this is a **signal** endpoint, or the subflow will be created as a backup one if this is a **subflow** endpoint

The **limits** object specifies the constraints for subflow creations:

ip mptcp limits show get current MPTCP subflow creation limits
ip mptcp limits set change the MPTCP subflow creation limits

SUBFLOW_NR
specifies the maximum number of additional subflows allowed for each MPTCP connection. Additional subflows can be created due to: incoming accepted ADD_ADDR option, local **subflow** endpoints, additional subflows started by the peer.

ADD_ADDR_ACCEPTED_NR
specifies the maximum number of ADD_ADDR suboptions accepted for each MPTCP connection. The MPTCP path manager will try to create a new subflow for each accepted ADD_ADDR option, respecting the *SUBFLOW_NR* limit.

monitor displays creation and deletion of MPTCP connections as well as addition or removal of remote addresses and subflows.

AUTHOR

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