

Fortigate SD-WAN debug and verification commands cheat sheet

Yuri Slobodyanyuk, <https://yurisk.info>

SD-WAN verification and debug

Command	Description
diagnose sys sdwan health-check (6.4 and newer)	Show state of all the health checks/probes. Successful probes are marked alive , failed probes are marked dead . Also displays packet-loss , latency , jitter for each probe.
diagnose sys virtual-link health-check (5.6 up to 6.4)	
diagnose sys sdwan member (6.4 and newer)	Show list of SD-WAN zone/interface members. Also gives each interface gateway IP (if was set, 0.0.0.0 if not), priority , and weight both by default equal 0 , used with some SLA Types.
diagnose sys virtual-wan-link member	
diagnose sys sdwan service (6.4 and newer)	List configured SD-WAN rules (aka services), except the Implied one which is always present and cannot be disabled, but is editable for the default load balancing method used. Shows member interfaces and their status alive or dead for this rule.
diagnose sys virtual-wan-link service	
diag sys sdwan intf-sla-log <interface name> (6.4 and newer)	Print log of <interface name> usage for the last 10 minutes. The statistics shown in bps: inbandwidth , outbandwidth , bibandwidth , tx bytes , rx bytes .
diag sys virtual-wan-link intf-sla-log <interface name>	
diag netlink interface clear <interface name>	Clear traffic statistics on the given interface, this resets statistics of the SD-WAN Monitor GUI widget for this interface as well. Needed, if, for example, you changed SD-WAN rules, but not sure if it's already active. E.g. diag netlink interface clear port1 .

Command	Description
diagnose firewall proute list	List ALL Policy Based Routes (PBR). SD-WAN in Fortigate, after all, is implemented as a variation of PBR. This command lists manual (classic) PBR rules, along with SD-WAN created via SD-WAN rules. Important: Manually created PBR rules (via Network → Policy Routes or on CLI config route policy) always have preference over the SD-WAN rules, and this command will show them higher up.