

Fortigate debug and diagnose commands complete cheat sheet

NOTE

To enable debug set by any of the commands below, you need to run **diagnose debug enable**. This is assumed and not reminded any further.

NOTE

To disable and stop immediately any debug, run **dia deb res** which is short for **diagnose debug reset**.

IPSEC VPN debug

Table 1. IPSEC VPN Debug

Command	Description
diagnose vpn ike log-filter <parameter>	Filter VPN debug messages using various parameters: <ul style="list-style-type: none">• list Display the current filter.• clear Erase the current filter.• name Phase1 name to filter by.• src-addr4/src-addr6 IPv4/IPv6 source address range to filter by.• dst-addr4/dst-addr6 IPv4/IPv6 destination address range to filter by.• src-port Source port range• dst-port Destination port range• vd Index of virtual domain. -1 matches all.• interface Interface that IKE connection is negotiated over.• negate Negate the specified filter parameter.
diagnose debug application ike -1	Enable IPSec VPN debug, shows phase 1 and phase 2 negotiations (for IKEv1) and everything for IKEv2. "-1" sets the verbosity level to maximum, any other number will show less output.
diagnose vpn ike gateway flush name <vpn_name>	Flush (delete) all SAs of the given VPN peer only.

Command	Description
get vpn ipsec tunnel details	Detailed info about the tunnels: Rx/Tx packets/bytes, IP addresses of the peers, algorithms used, detailed selectors info, lifetime.
get vpn ipsec stats tunnel	Short general statistics about tunnels: number, kind, number of selectors, state
get vpn ipsec tunnel summary	Short statistics per each tunnel: number of selectors up/down, number of packets Rx/Tx.
get vpn ipsec stats crypto	Statistics of the crypto component (ASIC/software) of the Fortigate: encryption algorithm, hashing algorithm.

NTP debug

Table 2. NTP daemon diagnostics and debug

Command	Description
diag sys ntp status	Current status of NTP time synchronization. Shows all NTP peers and their details info: reachability, stratum, clock offset, delay, NTP version.
execute date	Show current date as seen by Fortigate
exec time	Show current time as seen by Fortigate