

# Cisco Nexus 9000 9k debug and diagnostic commands complete cheat sheet (work in progress)

Author: Yuri Slobodyanyuk, <https://www.linkedin.com/in/yurislobodyanyuk/>

Status: Work in progress.

Command	Description
show run interface <port-channel number> membership	List physical interfaces included in the given Port-Channel, e.g. <code>show run int po1 membership</code>
show port-channel usage	Show port-channel numbers already in use.
show port-channel summary	Display list of all configured Port-Channels with their state, protocol (LACP or None), physical interface members.
show vpc role	Role of this peer in vPC, also vPC MAC address, vPC and system priority, local Nexus switch MAC.
show vpc brief	Gives verbose info about the vPC (vPC domain stats, vPC peer-link stats, port-channels with active VLANs etc.).
show vpc peer-keepalive	Display real-time stats on peering keepalives: last send/receive time, IP of the peer, port and protocol used, vrf for communication.
show feature	Show enabled features, make sure FEX is on.
show fex [ <i>fex-num</i> ] [ <i>detail</i> ]	Show FEX, optionally with details - FEX associated number, state (Online/Offline/Connecting), model, serial number (of the module). If <i>detail</i> , then also show log of the last registration/offline/online of the FEX.
show interface fex	In addition to above, show physical interface names (uplinks) where FEX is connected on Nexus and its state.
reload fex <i>fex-num</i>	Reload the specified FEX (it should be online for this).
show inventory fex <i>fex-num</i>	Show hardware info and serial numbers of the FEX chassis, network module, fans, power supplies.

Command	Description
show environment <i>fex fex-num</i> /all	Show power consumed, temperature.
show int port-channel <i>n</i> <i>fex</i>	Show physical interfaces pinned to a given port-channel.