

# Checkpoint Firewalls Debug Cheat Sheet

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Status: Work in progress.

## Cluster XL (ClusterXL) debug

command	Description
cphaprob state	Show status of the cluster and its members, if down - show the descriptive reason and when the state change happened, type of clustering - HA/Load Sharing/VRRP, IP address of each member's sync interface, problematic <i>pnote</i> that causes failover, number of failovers since last restart.
cphaprob -ia list	Show detailed information on the failed <i>pnote</i> /Critical Device of this member. List of pnotes enabled by default (differs by version/model so not a reference): <i>Interface Active Check, Recovery Delay, CoreXL Configuration, Fullsync, Policy/filter, routed, fwd, cphad, init, cvpnd</i> .
cphaprob -l list	List ALL <i>pnotes</i> of the member, including in OK state.
cphaprob -a if	Show all the interfaces seen by the cluster on this member. <i>Monitored</i> are interfaces monitored by the cluster and if failed would cause fail over. <i>Secured</i> is/are interface(s) the cluster uses to synchronize members. In Checkpoint appliances it is usually named <i>Sync</i> . Also show cluster synchronization mode - broadcast/multicast,
cphaprob -m if	Show the monitored interfaces but also add ClusterXL VLAN monitoring info - which VLANs on which interface are being monitored.
cphaprob syncstat	Show detailed synchronization states and traffic statistics: sync traffic drops/sent/received/queue size/delta interval. Good at showing network/communication problems between cluster members.

cphaprob show_failover	Show detailed history log of failover events with their dates and reasons. Checkpoint records last 20 failovers by default.
cphaprob mmagic	Show the cluster magic number, relevant if multiple clusters are present in the same network.
cphaprob show_bond	Show bond interfaces.
cpview ! Advanced ! ClusterXL	Partial output of the above commands in TUI interface.