

Checkpoint Firewalls Debug Cheat Sheet

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Status: Work in progress.

Cluster XL (ClusterXL) debug

| command | Description |
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| 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. |

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| 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. |