# Checkpoint Firewalls Debug Cheat Sheet

## 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 *pnote* that causes failover, number of failovers since last restart. |
| **cphaprob -ia list** | Show detailed information on the failed *pnote*/Critical Device of this member. List of pnotes enabled by default (differs by version/model so not a reference): *Interface Active Check*, *Recovery Delay* , *CoreXL Configuration, Fullsync, Policy/filter, routed, fwd, cphad, init, cvpnd.* |
| **cphaprob -l list** | List ALL *pnotes* of the member, including in *OK* state. |
| **cphaprob -a if** | Show all the interfaces seen by the cluster on this member. *Monitored* are interfaces monitored by the cluster and if failed would cause fail over. *Secured* is/are interface(s) the cluster uses to synchronize members. In Checkpoint appliances it is usually named <span style="color:red">Sync</span>. 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 szie/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. |