✓ y in () Check Point CLI Reference Card – v2.1		Basic firewall information gather	Basic firewall information gathering		Basic troubleshooting		
👽	by Jens Roesen	fgate stat	Status and statistics of Flood-Gate-1.	cpview	View OS and software blade statistics. See <u>sk101878</u> .		
Useful Secure Knowledge articles		<pre>fwaccel <stat stats conns></stat stats conns></pre>	View status, statistics or connection table of SecureXL.	cpinfo	Collect diagnostic data for CP support cases. See sk92739.		
sk65385 List of "He	List of "How To" Guides for all Check Point products.		Show list of configured interfaces with IP and netmask.	sar	System monitoring tool (GAiA) generating monitoring data		
sk97638 Check Poi	int Processes and Daemons	cpstat <app_flag> [-f flavour]</app_flag>	View OS, HW and CP application status. Issue cpstat		every 10 minutes, keeping the data for 7 days. E.g.:		
sk52421 Ports use			<pre>without any options to see all possible application flags <app_flag> and corresponding flavours. Examples: cpstat fw -f policy - verbose policy info cpstat os -f cpu - CPU utilization statistics</app_flag></pre>		sar $-n$ EDEV - Interface errors from today sar $-u$ $-f$ /var/log/sa/sa04 - CPU stats from the 4 <sup>th</sup> .		
sk98348         Best Practices - Security Gateway Performance				cpsizeme	For 24h, monitor gw resource utilization every minute and generate a CSV report to use for sizing considerations or troubleshooting. See <u>sk88160</u> for additional information.		
sk105119 Best Practices - VPN Performance							
There also are a lot of valuable ATRGs (Advanced Technical Reference Guides) available.		cpinfo -y all	List all installed patches and hotfixes.				
Search for "ATRG" and a suitable keyword. For instance "artg ipv6".		cpd_sched_config print	Show task scheduled with CPD scheduler.	ethtool -S	View interface statistics and counters.		
Check Point Environment variables (most common ones)		enabled_blades	View enabled software blades	emergendisk	Create a bootable system on a USB device for system or password recovery and secure HDD wiping.		
	FW-1 installation directory, with f.i. the conf, log, lib, bin and spool directories.	avsu_client [-app <app>] get_version</app>	Get signature version and status of content security <app>. Without the -app option "Anti Virus" is used.</app>	cpinfo -z -o <file></file>	Create a compressed cpinfo file to open with the InfoView utility or to send to Check Point support.		
\$CPDIR	SVN Foundation / cpshared tree.	show configuration	Show running system configuration.	cst	Configuration Summary Tool and its enhanced version. Packs		
\$CPMDIR	Management server installation directory.	show commands	Show all commands you are allowed to run.	ecst	IPSO config, logs, core dumps etc. into a single file.		
\$FGDIR	FloodGate-1 installation directory.	show asset all	Display general hardware information.	fw ctl zdebug drop Real time listing of dropped packets.			
\$MDSDIR	MDS installation directory. Same as \$FWDIR on MDS level.	show sysenv all	Display system component status (fans, power supply)	cpwd_admin list	Display PID, status and starting time of CP WatchDog		
\$FW_BOOT_DIR	Directory with files needed at boot time.	asset	View hw info on IP Series Appliances running GAiA.		monitored processes.		
Deferrer Coul Course		show asset hardware	View hw info like serial numbers in Nokia clish.	cpca_client lscert	Display all ICA certificates.		
Reference Card CommaExpert ModeGA	htershellinderfors NA clish 역 SPLAT cpshell의 IPSO clish 역 IPSO shell 『	ipsctl -a	View hw info. Also see cat /var/etc/.nvram output.	fw tab -t <tbl> [-s]</tbl>	View kernel table contents. Make output short with -s switch.		
· · · · · · · · · · · · · · · · · · ·	mode commands are also available within GAiA clish as "extended	Display and manage licenses			List all available tables with fw tab -s. Example: fw tab -t connections -s - View connection table.		
	mplete list with the clish command "show extended commands".	cp_conf lic get	View licenses.	fw ctl multik stat	Show connection statistics for each kernel instance.		
Basic starting and stopp			Display more detailed license information.	fw ctl pstat	Display internal statistics including information about memory,		
	Stop all Check Point services except cprid. You can also stop	fw lichosts	List protected hosts with limited hosts licenses.		inspect, connections, synchronization and NAT.		
cpstop	specific services by issuing an option with cpstop. For instance		SecureClient Policy Server license summary.	fw ctl chain	Displays in and out chain of CP modules. Useful for placing fw		
	cpstop FW1 stops FW-1/VPN-1 or use cpstop WebAccess to		Detach license with signature sig from object obj.	-	monitor into the chain with the -p option.		
	stop WebAccess.	cplid db_rm <sig></sig>	Remove license <sig> from repository after detaching.</sig>	<pre>cp_conf sic state cp_conf sic init <key></key></pre>	Display SIC trust status or (re)initialize SIC. Also see <u>sk30579</u>		
cpstart	Start all Check Point services except cprid. cpstart works with the same options as cpstop.		Retrieve all licenses from a certain gateway or all gateways	fwm sic reset	for additional hints on SIC troubleshooting.		
cprestart	Combined cpstop and cpstart. Complete restart.		to synchronize SmartCenter license repository with gw(s).	I I WIII STC_FESEC	Reset Internal Certificate Authority (ICA) and delete certs. Reinitialize ICA with cpconfig or cp_conf ca init.		
cpridstop	Stop, start or restart cprid, the Check Point Remote	cplic put <-l file>	Install local license from file to an local machine.	cpca_client	Manage parts of the ICA. View, create and revoke certificates,		
cpridstart cpridrestart	Installation Daemon.	cplic put <obj> &lt;-l file&gt;</obj>	Attach one or more central or local licenses from file remotely to obj.		start and stop the ICA Web Tool. Examples: cpca_client lscert -stat Valid		
fw kill [-t sig] pr		cprlic	Remote license management tool.	fwaccel <off on></off on>	cpca_client search <searchstring></searchstring>		
	present. Per default sends signal 15 (SIGTERM). Example: fw kill -t 9 fwm	contract_util mgmt	Get contracts from Management Server.	cpmonitor	Disable/enable SecureXL.		
fw unloadlocal	Uninstalls local security policy and disables IP forwarding.	View and manage log files		Cpillott 1 Col	Statistics and analysis of snoop/tcpdump/fw monitor traffic capture files. See sk103212 for download link and usage.		
		fw lslogs	View a list of available fw log files and their size.	sk98348 - Best Practices - Se	curity Gateway Performance		
Basic firewall informatio		fwm logexport         Export/display current fw.log to stdout.		sk98799 – Kernel Debug			
fw ver [-k] fwm [mds] ver	Show major and minor version as well as build number and latest installed hotfix of a Check Point module. Show	fw repairlog <logfile></logfile>	Rebuild pointer files for <logfile>.</logfile>	PDF - How to Troubleshoot N			
vpn ver [-k]	additional kernel version information with -k switch.	fw logswitch [-audit]	Copy current (audit) logfile to YY-MM-DD-HHMMSS.log	<u>tcpdump101</u> – Generate fw monitor and kernel debug CLI commands online.			
fgate ver	95 of 20 1 1 1 1 1 1 1 1 1 1		and start a new fw.log.	fw monitor Examples			
ver	Show CP version and build as well as kernel info.	fw log -c <action></action>	Show only records with action <action>, e.g. accept,</action>	The fw monitor packet sniffer is part of every FW-1 installation. For more detailed info see			
cpshared_ver Show the version of the SVN Foundation.			drop, reject etc. Starts from the top of the log, use -t to start a tail at the end.	my cheat sheet ( <u>http://bit.ly/cpfwmon</u> ). Disable SecureXL (fwaccel off) prior to sniffing. Display traffic with 192.168.1.12 as SRC or DST on interface ID 2			
cpview	cpview Tool combining several Check Point and Linux commands into a great text based tool providing both OS and software blade information. See sk101878.		Tail the actual log file from the end of the log. Without the -t switch it starts from the beginning.	(List interfaces and correspo	nding IDs with fw ctl iflist) nost(192.168.1.12) and ifid=2;'		
fw stat Show the name of the current policy and a brief interface		fw log -b <starttime></starttime>	View today's log entries between <starttime> and</starttime>	Display all packets from 192.			
<pre>fw stat &lt;-l long&gt; fw stat &lt;-slshort</pre>	list. Use -1 or -s for more info. Consider using cpstat	<endtime></endtime>	<endtime>.</endtime>	fw monitor -e 'accept src=192.168.1.12 and dst=192.168.3.3;'			
fw stat <-s short>     fw instead of -l or -s switch for better formatted output.		<pre>fw fetchlogs -f <file> module</file></pre>	Fetch a logfile from a remote CP module. NOTE: The log will be deleted from the remote module. Does not work	UDP port 53 (DNS) packets, pre-in position is before 'ippot_strip' fw monitor -pi ipopt_strip -e 'accept udpport(53);'			
fw ctl iflist     Display interface list.		modute	will be deleted from the remote module. Does not work with current fw.log.				
fw ctl arp [-n]     Display proxy arp tablen disables name resolution.		fwm logexport -i <file> -o</file>		UPD traffic from or to unprivileged ports, only show post-out fw monitor -m 0 -e 'accept udp and (sport>1023 or dport>1023);' Display Windows traceroute (ICMP, TTL<30) from and to 192.168.1.12 fw monitor -e 'accept host(192.168.1.12) and tracert;'			
cp_conf finger get Display fingerprint on the management module.		out.csv -d ',' -p -n	delimiter (CSV) and do not resolve services or				
cp_conf client get Display GUI clients list.			hostnames (-n).				
cp_conf admin get	Display admin accounts and permissions. Also fwm -p	log list	Show index of available system and error log files.	Capture web traffic for VSX virtual system ID 23			
cp_conf auto get <fw1 fg1 rm all></fw1 fg1 rm all>			log show <nr> View log file number <nr> from the log list index.</nr></nr>		Capture web traffic for VSX virtual system ID 23   fw monitor -v 23 -e 'accept tcpport(80);'		
					, , , , ,		

Basic administration and conf	Backup and Restore			Multi-Domain Security Management (Provider-1)				
cpconfig	Menu based configuration tool. Options depend on the installed products and modules.	add backup	Create	e backup in /var/CPbackup/backups/ or on a remote	mdsconfig	DS replacement for cpconfig.		
				r (scp/ftp/tftp). Also see <u>sk91400</u> . E.g.:	mdsenv [dms_name]	t the environment variables for MDS or DMS level.		
sysconfig cp_conf admin add <user></user>	Start SPLAT OS and Check Point product configuration tool.	add b		backup local backup scp ip <ip> path  username</ip>	mdsstart [-m -s] mdsstop [-m]	arts/stops the MDS and all DMS (10 at a time). Start		
<pre><pre>com admin add <user> <pre><pre>com admin add <user></user></pre></pre></user></pre></pre>	Add admin user with password pass and permissions perm where w is read/write access and r is read only. Note: permission w does not allow account administration.	set backup restore GRestor set b set b		er> interactive re backup. Also see <u>sk91400</u> . Examples:		ly the MDS with −m or DMS subsequently with −s. ow status of the MDS and all DMS or a certain stomer's DMS. Use −m for only MDS status.		
cp_admin_convert	Export admin definitions created in cpconfig to SmartDashboard.			backup restore local <tab> backup restore scp ip <ip> path  file le&gt; username <user> interactive</user></ip></tab>	cpinfo -c <dms></dms>	reate a cpinfo for the customer DMS <dms>. Remember orun mdsenv <dms> in advance.</dms></dms>		
fwm lock_admin -v	View list of locked administrators.	show backups	w backups			FWDIR/ <dir> of the current DMS.</dir>		
fwm lock_admin -u <user></user>	Unlock admin user. Unlock all with -ua.			nd delete sytstem snapshots. Example	mdsstop_customer <dms></dms>	top single DMS <dms>.</dms>		
cp_conf admin del <user></user>	Delete the admin account user.			<pre>snapshot <name> [descr &lt;"my destription"&gt;]</name></pre>		Start single DMS <dms< td=""><td></td></dms<>		
<pre>fwm expdate <dd-mmm-yyy>   [-f <dd-mmm-yyyy>]</dd-mmm-yyyy></dd-mmm-yyy></pre>	Set new expiration date for all users or with -f for all users matching the expiration date filter: fwm expdate 31-Dec-2020 -f 31-Dec-2014.	set snapshot revert set snapshot export set snapshot import	set s	t/import or revert to a certain system snapshot. E.g.: snapshot revert <name> snapshot export <name> path <path> name <name></name></path></name></name>	mds_backup [-l] [-d directory]	Backup binaries and data to current directory. Change output directory with -d, exclude logs with -1, do a dry run with -v. You can exclude files by specifying them in		
<pre>cp_conf client add <ip> cp_conf client del <ip></ip></ip></pre>	Add/delete GUI clients. You can delete multiple clients at	show snapshots Show list of local snapshots.				\$MDSDIR/conf/mds_exclude.dat.		
cpca_client	once. Manage parts of the ICA. View, create and revoke certificates, start and stop the ICA Web Tool.	upgrade_export <file>         Tool from \$FWDIR/bin/upgrade_tools. Saves only Check           migrate export <file>         Point configuration (policy, objects) and no OS settings.           upgrade_import <file>         Import config package generated with migrate tools.</file></file></file>		<pre>./mds_restore <file></file></pre>	Restore MDS backup from file. Notice: you may need to copy mds_backup from \$MDSDIR/scripts/ as well as gtar and gzip from \$MDS_SYSTEM/shared/ to the directory with the backup file. Normally, mds_backup does this during backup.			
patch add cd <patch> G</patch>	Install the patch <patch> from CD.</patch>	migrate import <file></file>						
lvm_manager	Manage partition sizes on GAiA. See <u>sk95566</u> for info and download link.	<pre>backup Create backup in /var/CPbackup/backups/ or on a remote server (scp/ftp/ftfp). Also see <u>sk54100</u>. Examples.: backup [-f <file>] backupscp <ip> <user> <pass> [-path <file>]</file></pass></user></ip></file></pre>		r (scp/ftp/tftp). Also see <u>sk54100</u> . Examples.:	cma_migrate	this during backup. Import and if necessary upgrade an export_database created management server or DMS database package.		
show users	<sup>G</sup> Show configured users and their homedir, UID/GID and shell.			upscp <ip> <user> <pass> [-path </pass></user></ip>	mdscmd <subcmds> [-m mds -u user -p pass]</subcmds>	Connect to a (remote) MDS as CPMI client and configure or manage it. See mdscmd help.		
add user <user> <pre>set user <user> shell</user></pre></user>	G Add a new user with username <user>.</user>			re backup from local package or via scp/ftp/tftp. Delete backup packages. Menu based.	vsx_util <subcommand></subcommand>	erfom VSX maintenance from the main DMS. See		
<pre><shell></shell></pre>	Set the login shell of user <user> to <shell>. Setting it to f.i. /bin/bash will log in <user> directly into expert mode.</user></shell></user>	snapshot <sup>5</sup> Take a		a snapshot of the entire system. Without options it's menu	sk95329 – Advanced Technical Re	x_util -h for subcommands. ence Guide: Multi-Domain Security Management		
set user <user> password Set new password for <user>.</user></user>		based. <b>Note: cpstop is issued!</b> Examples: snapshotfile <file> snapshotscp <ip> <user> <pass> <file></file></pass></user></ip></file>		sk33207       - How to debug FWM daemon on Provider-1 DMS / CMA         VSX (When two commands are given, the first applies to R68 and the second to R75.40+)				
set selfpasswd Change your own password.								
set expert-password	Set or change password for entering expert mode.	revert	Reboo	ot system from snapshot. Same syntax as snapshot.	vsx stat [-v] [-l] [id]	Show VSX status	Verbose with -v, interface list with	
save config	Save configuration changes.	ClusterXL configuration and troubleshootin		leshooting – and some VRRP		-1 or status of single VS with VS ID <id>.</id>		
showusers	Display a list of configured SecurePlatform administrators.	cphaprob state		View HA state of all cluster members.	show virtual-system all	List all VS with their VS ID and name.		
adduser <user></user>	Add a new user with username <user>.</user>	cphaprob -a if		View interface status and CCP state.	vsx get vsenv	View current shell context. Second line applies to VSX on R75.40VS and up.		
chsh -s <shell> <user></user></shell>	Change the login shell for <user> to <shell> on SPLAT.</shell></user>	cphaprob -ia list		View list and state of critical cluster devices.	vsx set <id></id>	Set context to VS with the ID <id>. Second line</id>		
passwd	Change your own password.	fw hastat		View HA state of local machine.	vsenv <id></id>	applies to VSX on R75.40VS and up.		
start transaction	Change expert password in expert mode on SPLAT systems. Start transaction mode. All changes made will be applied at	cp_conf ha enable  disable [norestart] cphastart cphastop		Enable or disable HA.	set virtual-system <id></id>	Set context to VS ID <id>.</id>		
	once if you exit transaction mode with commit or discarded if you exit with rollback.			Enable / Disable ClusterXL on the cluster member. On HA Legacy Mode cphastop might stop the entire cluster.	fw -vs <id> unloadlocal vsenv <id>; fw unloadlocal</id></id>	Unload policy from a VS. To unload policies on all VS use fw vsx unloadall. See <u>sk33065</u> for details.		
show version os edition set edition default	Show which OS edition (32 or 64-bit) is running.	cphaprob syncstat		View sync transport layer statistics. Reset with -reset.	<pre>vsx sic reset <id> vsenv <id>; fw vsx sicrese</id></id></pre>	Reset SIC for VS $\langle id \rangle$ . For details see <u>sk34098</u> . Second line applies to VSX on R75.40VS and up.		
32-bit 64-bit				See <u>sk34475</u> for detailed description.	cpinfo -x <id></id>	Start cpinfo collecting data for VS ID <id>.</id>		
VPN		fw ctl pstat		View sync status and packet statistics. See <u>sk34476</u> .	vpn -vs <id> debug trunc</id>	Empty & stamp logs, enable IKE & VPN debug.		
vpn tu	Start a menu based VPN TunnelUtil program where you can			Stop or start synchronization in a cluster. Start a full synchronization with debugging output.	fw -vs <id> getifs</id>		face list for a VS. You can also use the	
vpn shell	list and delete Security Associations (SAs) for peers.	cphaconf set_ccp		Configure Cluster Control Protocol (CCP) to use unicast	<pre>vsenv <id>; fw getifs fw tab -vs <id> -t </id></id></pre>	VS name instead View state tables	for virtual system <id>. Second line</id>	
vpn snell vpn debug ikeon ikeoff	Start the VPN shell. Debug IKE into \$FWDIR/log/ike.elg. Analyze ike.elg	<pre></pre>		or multicast messages. By default set to multicast. View multicast MAC addresses used.	<pre>vsenv <id>; fw tab -t <tab vsx vspurge</tab </id></pre>	applies to VSX on R75.40VS and up.		
	with the IKEView tool. See <u>sk30994</u> .			Perform a graceful manual failover by registering a	fw monitor -v <id> -e</id>		Remove unused VSX systems and fetch VS config.	
vpn debug on off	Debug VPN into \$FWDIR/log/vpnd.elg. Analyze vpnd.elg with the IKEView tool. See <u>sk30994</u> .	<up down> <pre>show vrrp interfaces</pre></up down>		faildevice. Survives a reboot with -p switch set.	'accept;'	View traffic for virtual system with ID <id>. Attn: with fw monitor use -v instead of -vs.</id>		
vpn debug trunc	Truncate and stamp logs, enable IKE & VPN debug.			you can also use show vrrp in the iclid shell.	cphaprob -vs <id> state</id>	View HA state for Virtual System id when "Per Virtual System HA" mode is configured.		
vpn drv stat vpn overlap encdom	Show status of VPN-1 kernel module.			View IPs and interface IDs for all cluster members.	cphaprob -vs <id> register</id>	Register a faildevice and switch VS <id> to the next</id>		
vpn overtap_encdom vpn macutil <user></user>	Show, if any, overlapping VPN domains. Show MAC for Secure Remote user <user>.</user>	1		View IGMP status for CCP multicast mode.	clinux command - Kid	cluster member (only in Per VS HA/VSLS).		
sk60318 - How to troubleshoo	<u>sk93306</u> - Advanced Technical Reference Guide: ClusterXL R6x and R7x <u>sk56202</u> - How to troubleshoot failovers in ClusterXL		<pre>\$linux_command -z <id> traceroute -Z <id></id></id></pre>	In R68 set context for ifconfig, ip, arp, ping or netstat. Uppercase "Z" for traceroute.				
	sk89940 - How to debug VPND daemon sk33327 - How to generate a valid VPN debug, IKE debug and FW Monitor			lovers in ClusterXL - Advanced cluster interfaces are connected through several switches	A lot of Check Point's commands up to R68 do understand the -vs <id> switch. With newer versions you often have to change context with vsenv <id> before issuing the commands.</id></id>			

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