## **Check Point CLI Reference Card - 20120724**

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ŞFWDIR	FW-1 installation directory, with f.i. the conf, log, lib, bin and spool directories.	
\$CPDIR	SVN Foundation / cpshared tree.	
\$CPMDIR	Management server installation directory.	
\$FGDIR	FloodGate-1 installation directory.	
\$MDSDIR	MDS installation directory. Same as \$FWDIR on MDS level.	
\$FW BOOT DIR Directory with files needed at boot time.		

Basic starting and st	opping	
cpstop	Stop all Check Point services except cprid. You can also stop specific services by issuing an option with cpstop. For instance cpstop FW1 stops FW-1/VPN-1 or use cpstop WebAccess to stop WebAccess.	
cpstart	Start all Check Point services except cprid. cpstart works with the same options as cpstop.	
cprestart	Combined cpstop and cpstart. Complete restart.	
cpridstop	Stop cprid, the Check Point Remote installation Daemon.	
cpridstart	Start cprid, the Check Point Remote installation Daemon.	
cpridrestart	Combined cpridstop and cpridstart.	
fw kill [-t sig] proc_name	Kill a Firewall process. PID file in \$FWDIR/tmp/ must be present. Per default sends signal 15 (SIGTERM). Example: fw kill -t 9 fwm	
fw unloadlocal	Uninstall local security policy and disables IP forwarding.	

fw unloadlocal	Ininstall local security policy and disables IP forwarding.		
		info device \	/iew
Basic firewall informatio		info computers	_ist a
fw ver [-k]	Show major and minor version as well as build number and latest installed hotfix of a Check Point module.	View and manage logfiles	
vpn ver [-k] fgate ver	Show additional kernel version information with -k switch.	fw lslogs fwm logexport	
cpshared_ver	Show the version of the SVN Foundation.	fw logswitch [-audit]	
fw stat	Show the name of the currently installed policy as well as a brief interface list. Can be used with the -long or -short switch for more information.	fw log -c <action></action>	
cpwd_admin list	Display process information about CP processes monitored by the CP WatchDog.	fw log -f -t	
cpca_client lscert	Display all ICA certificates.		
fw ctl iflist	Display interface list.	<pre>fw log -b <starttime>   <endtime>   fw fetchlogs -f <file>   module</file></endtime></starttime></pre>	
fw ctl arp [-n]	Display proxy arp tablen disables name resolution.		
fw ctl pstat	Display internal statistics including information about memory, inspect, connections and NAT.		
fw ctl chain	Displays in and out chain of CP Modules. Useful for placing fw monitor into the chain with the -p option.		
fw ctl zdebug drop	Real time listing of dropped packets.	fwm logexport -i in.l	
cp_conf sic state	Display current SIC trust state.	-0 out.csv -d ',' -p	-n
cp_conf finger get	Display fingerprint on the management module.		
cp_conf client get	Disptay GUI clients list.	Display and manage licens	·
cp_conf admin get	Display admin accounts and permissions. Also fwm -p	cp_conf lic get	Vi
<pre>cp_conf auto get <fwl fgl rm all></fwl fgl rm all></pre>	Display autostart state of Check Point modules.	cplic print fw lichosts	Di Lis
fgate stat	Status and statistics of Flood-Gate-1.	dtps lic	Se
fwaccel <stat < td=""><td>Status and statistics or connection table of SecureXL.</td><td>cplic del <sig> <obj></obj></sig></td><td>De</td></stat <>	Status and statistics or connection table of SecureXL.	cplic del <sig> <obj></obj></sig>	De
stats conns>	*	cplic get <ip host -<="" td=""><td>Re</td></ip>	Re

Basic firewall information	n gathering	
cpstat <app_flag> [-f flavour]</app_flag>	Display status of the CP applications. Command has to be used with a application flag app_flag and an optional flavour. Issue cpstat without any options to see all possible application flags and corresponding flavours. Examples:  cpstat fw -f policy - verbose policy info cpstat fw -f sync - Synchronisation statistics cpstat os -f cpu - CPU utilization statistics cpstat os -f memory - Memory usage info cpstat os -f ifconfig - Interface table	
cpinfo -z -o <file></file>	Create a compressed cpinfo file to open with the InfoView utility or to send to Check Point support.	
fw hastat	View HA state of local machine.	
cphaprob state	View HA state of all cluster members.	
vpn overlap_encdom	Show, if any, overlapping VPN domains.	
<pre>fw tab -t <tbl> [-s]</tbl></pre>	View kernel table contents. Make output short with -s switch. List all available tables with fw tab -s. E.g. fw tab -t connections -s - Connections table.	
avsu_client [-app <app>] get_version</app>	Get local signature version and status of content security <app> where <app> can be "Edge AV", "URL Filtering" and "ICS". Without the -app <app> option "Anti Virus" is used by default.</app></app></app>	
<pre>avsu_client [-app <app>] fetch_remote -fi</app></pre>	Check if signature for <app> is up-to-date. See previous command for the possible values of <app>.</app></app>	
show asset hardware	View hw info like serial numbers in Nokia clish. Also see ipsctl -a and cat /var/etc/.nvram.	
info device	View Edge Appliance information (hw, fwl, license)	
info computers	List active devices behind Edge Appliance.	
View and manage logfiles		
fw lslogs	View a list of available fw logfiles and their size.	
fwm logexport	Export/display current fw.log to stdout.	
fw logswitch [-audit	Write the current (audit) logfile to YY-MM-DD- HHMMSS.log and start a new fw.log.	
fw log -c <action></action>	Show only records with action <action>, e.g. accept, drop, reject etc. Starts from the top of the log, use -t to start a tail at the end.</action>	
fw log -f -t	Tail the actual log file from the end of the log. Without the -t switch it starts from the beginning.	
<pre>fw log -b <starttime <endtime=""></starttime></pre>	<pre>&gt; View today's log entries between <starttime> and <endtime>. Example:</endtime></starttime></pre>	

stat fw -f policy - verbose policy info	file>
stat fw -f sync-Synchronisation statistic	cprlic
stat os -f cpu-CPU utilization statistics	contract_util mg
stat os -f memory - Memory usage info	Basic configuration
stat os -f ifconfig-Interface table	cpconfig
ate a compressed cpinfo file to open with the View utility or to send to Check Point support.	
w HA state of local machine.	cp conf -h
w HA state of all cluster members.	
ow, if any, overlapping VPN domains.	cp_conf admin ad
w kernel table contents. Make output short with tch. List all available tables with fw tab -s. E tab -t connections -s - Connections to	Ē.g.
local signature version and status of content	cp_admin_convert
urity <app> where <app> can be "Edge AV"</app></app>	
RL Filtering" and "ICS". Without the -app  op> option "Anti Virus" is used by default.	fwm lock_admin -
eck if signature for <app> is up-to-date. See pre</app>	fwm lock_admin -
nmand for the possible values of <app>.</app>	cp_conf admin de.
	fwm expdate <dd-< td=""></dd-<>
w hw info like serial numbers in Nokia clish.	Also [-f <dd-mmm-yyy< td=""></dd-mmm-yyy<>
ipsctl -a and cat /var/etc/.nvram.	on conf alient a
w Edge Appliance information (hw, fwl, license.	
active devices behind Edge Appliance.	cp_conf client <
The state of the s	fwm sic_reset
View a list of available fw logfiles and their s	ize.
Export/display current fw.log to stdout.	
Write the current (audit) logfile to YY-MM-DD-	
HHMMSS.log and start a new fw.log.	cpca_client
Show only records with action <action>, e.</action>	= 11
accept, drop, reject etc. Starts from the the log, use -t to start a tail at the end.	fw monitor Examples
Tail the actual log file from the end of the log.	
Without the -t switch it starts from the beginn	
View today's log entries between <starttir< td=""><td>me&gt; monitor cheat sheet</td></starttir<>	me> monitor cheat sheet
and <endtime>. Example:</endtime>	Display traffic with 192
fw log -b 09:00:00 09:15:00.	(List interfaces and co
Fetch a logfile from a remote CP module.  NOTICE: The log will be deleted from the ren	fw monitor -e 'acce
module. Does not work with current fw.log.	
Export logfile in.log to file out.csv, use, (comma) as delimiter (CSV) and do not resol	II UUP DOIL 33 IDINA) DA
services or hostnames.	UPD traffic from or to u
	fw monitor -m 0 -e

all>	gateways in order to synchronize license repository on the SmartCenter server with the gateway(s).	
cplic put <-l file>	Install local license from file to an local machine.	
cplic put <obj> &lt;-l file&gt;</obj>	Attach one or more central or local licenses from file remotely to obj.	
cprlic	Remote license management tool.	
contract_util mgmt	Get contracts from Management Server.	

Basic configuration tasks, Admi	nistrators, Users, SIC, ICA
cpconfig	Menu based configuration tool for the most common tasks. Options depend on the installed products and modules.
cp_conf -h	Display cp_conf help. Options depend on the installed products and packages.
<pre>cp_conf admin add <user> <pass> <perm></perm></pass></user></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 administration of admin accounts.
cp_admin_convert	Export admin definitions created in cpconfig to SmartDashboard.
fwm lock_admin -v	View list of locked administrators.
<pre>fwm lock_admin -u <user></user></pre>	Unlock admin user. Unlock all with -ua.
cp_conf admin del <user></user>	Delete the admin account user.
<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-2010.
cp_conf client get	Display GUI clients list.
<pre>cp_conf client <add del> <ip>&lt;</ip></add del></pre>	Add / delete GUI client with IP ip. You can delete multiple clients at once.
fwm sic_reset	Reset internal Certificate Authority (ICA) and delete certificates. Initialize ICA afterwards with cpconfig or cp_conf ca init.
cp_conf sic init <key></key>	(Re)initialize SIC.
cpca_client	Manage parts of the ICA. View, create and revoke certificates, start and stop the ICA Web Management Tool.

packet sniffing tool, is part of every FW-1 installation. For more the Check Point guide (http://bit.ly/fwmonref) or see my fw t (http://bit.ly/cpfwmon). fw6 monitor is working with GaiA.

2.168.1.12 as SRC or DST on interface ID 2 orresponding IDs with fw ctl iflist) ept host(192.168.1.12) and ifid=2;

om 192.168.1.12 to 192.168.3.3 ept src=192.168.1.12 and dst=192.168.3.3;

ackets, pre-in position is before 'ippot\_strip' pt\_strip -e 'accept udpport(53);

unprivileged ports, only show post-out fw monitor -m O -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;'

Capture web traffic for VSX virtual system ID 23 fw monitor -v 23 -e 'accept tcpport(80);'

Capture traffic on a SecuRemote/SecureClient client into a file. srfw.exe in \$SRDIR/bin (C:\Program Files\CheckPoint\SecuRemote\bin) srfw monitor -o output\_file.cap

Display more detailed license information.

List protected hosts with limited hosts licenses.

Delete license with signature sig from object obj.

Retrieve all licenses from a certain gateway or all

SecureClient Policy Server license summary.

View licenses.

GAIA clish			Provider-1	
ver		Show GAiA Version.	mdsconfig	
show configuration		Show running configuration.	plshell	
save config		Save running configuration.	mdsenv [dms_name	
history		Show command history.		
show commands		Show all commands you are allowed to run.	mdsstart [-m -s]	
lock database overr	ide	Acquire read/write access to the database.		
start transaction	# # # # # # # # # # # # # # # # # # #	Start transaction mode. All changes made will be applied at once if you exit transaction mode with commit or discarded if you exit with rollback.	mdsstop [-m] mdsstat [dms_nam	
show version os edit	tion	Show which OS edition (32 or 64-bit) is running.	cpinfo -c <dms></dms>	
set edition default 32-bit 64-bit	100	Switch between 32 and 64-bit kernel. 64-bit needs at least 6GB of RAM (or 1GB running in a VM).	mcd <dir></dir>	
expert		Switch to bash and expert mode.	mdsstop_customer	
show extended comman	nds	Show all defined extended (OS level) commands	mdsstart_custome	
add command df path /bin/df description "list free hdd space"		Add f.i. Linux command df to the list of extended commands. You can also use all options of an ext. command from within clish: clish> df -h	mds_backup [-1] directory]	
IPSO clish (Better go and	read th	ne documentation, Clish is mighty ;)		
You can enter clish com	mands	either in the clish itself or from the shell using '. The -s option runs save config afterwards.	./mds_restore <f< td=""></f<>	
show summary		Show system configuration summary.		
show asset hardware		Show hardware information. See also output of ipsctl -a and cat /var/etc/.nvram.	0	
show images		Show available IPSO images.	mdscmd <subcmds></subcmds>	
show image current		Show current IPSO image,	mds -u user -p p	
show package all act	ive	Show all available/active packages.	vsx_util <subcom< td=""></subcom<>	
show interfaces		Show all interfaces and their configuration.		
<pre>set package name <name> <on off></on off></name></pre>		Activate or deactivate a package.	ClusterXL cp_conf ha enabl	
set ssh server log-level <level></level>		Set sshd log verbosity to quiet, fatal, error, info (default), verbose or debug.	cphastart	
show vrrp [interface	s]	View VRRP (interface) status.	cphastop	
reboot image <img/> s	ave	Reboot into <img/> and run save before booting.	fu bactat	
rm /config/active		Kind of factory default reset. Reboot afterwards.	fw hastat	
set voyager daemon-		Enable (or disable) Voyager on SSL port 8443	cphaprob state	
enable <1 0> ssl-por 8443 ssl-level 168	t	using 3DES crypto. Also works with true, false, on or off. save config afterwards.	cphaprob -ia lis	
		Tarse, on or orr. save confrig anerwards.	cphaprob syncsta	
		VPN-1 major and minor version as well as build	cphaconf set_ccp	
vpn tu	number and latest hotfix. Use –k for kernel version.  Start a menu based VPN TunnelUtil program where you can list and delete Security Associations (SAs) for peers.		<pre></pre>	
		e VPN shell.	clusterXL_admin <up down></up down>	
vpn debug ikeon	Debug	IKE into \$FWDIR/log/ike.elg.	Note: DO NOT run a	
	Debug <sub>a</sub>	VPN into \$FWDIR/log/vpnd.elg.	SecurePlatform cpsl	
	140	te and stamp logs, enable IKE & VPN debug.	cd_ver or ver	
		status of VPN-1 kernel module.	sysconfig	
		f any, overlapping VPN domains.	webui <enable < td=""></enable <>	
		MAC for Secure Remote user <user>.</user>	disable> [port]	
		es ike.elg and vpnd.elg with the IKEView tool	showusers	
	prov	ided by Chack Point	adduser <user></user>	

provided by Check Point.

Provider-1	and the second section is a second section of	
mdsconfig	MDS replacement for opconfig.	
plshell	Start the P1Shell if it's not the default shell.	
mdsenv [dms_name]	Set the environment variables for MDS or DMS level.	
mdsstart [-m -s]	Starts the MDS and all DMS (10 at a time). Start only MDS with -m or DMS subsequently with -s.	
mdsstop [-m]	Stop MDS and all DMS or with -m just the MDS.	
mdsstat [dms_name] [-	m] Show status of the MDS and all DMS or a certain customer's DMS. Use -m for only MDS status.	
cpinfo -c <dms></dms>	Create a cpinfo for the customer DMS <dms>. Remember to run mdsenv <dms> in advance.</dms></dms>	
mcd <dir></dir>	Quick cd to \$FWDIR/ <dir> of the current DMS.</dir>	
mdsstop_customer <dms< td=""><td>&gt; Stop DMS dms.</td></dms<>	> Stop DMS dms.	
mdsstart_customer <dm< td=""><td>s&gt; Start DMS dms.</td></dm<>	s> Start DMS dms.	
mds_backup [-1] [-d directory]	Backup binaries and data to current directory. Change output directory with -d, exclude logs with -1. You can exclude files by specifying them in \$MDSDIR/conf/mds_exclude.dat.	
./mds_restore <file></file>	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.	
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.	
vsx_util <subcommand></subcommand>	Perfom VSX maintenance from the main DMS. See vsx_util -h for subcommands.	
ClusterXL	ith is the design of the second state of	
<pre>cp_conf ha enable  disable [norestart]</pre>	Enable or disable HA.	
cphastart cphastop	Enable / Disable ClusterXL on the cluster member. Issued on a cluster member running in HA Legacy Mode cphastop might stop the entire cluster.	
fw hastat	View HA state of local machine.	
cphaprob state	View HA state of all cluster members.	
cphaprob -a if	View interface status.	
cphaprob -ia list	View list and state of critical cluster devices.	
cphaprob syncstat	View sync transport layer statistics. Reset with -reset.	
<pre>cphaconf set_ccp   <bre>cbroadcast  multicast&gt;</bre></pre>	Configure Cluster Control Protocol (CCP) to use unicast or multicast messages. By default set to multicast. Setting survives reboot.	
<pre>clusterXL_admin [-p] <up down></up down></pre>	Perform a graceful manual failover by registering a faildevice. Survives a reboot with -p switch set	
Note: DO NOT run any cphaconf commands other than cphaconf set_ccp.		
SecurePlatform cpshell		

View SecurePlatform build number.

disable the WebUI.

SPLAT OS configuration and CP Software installation tool.

Enable the WebUI on HTTPS port 443 or port [port] or

Display a list of configured SecurePlatform administrators.

Add an admin account. Delete with deluser <user>.

SecurePlatform cpshell			
backup	Backup system config to /var/CPbackup/backups file backup_host.domain_DD_MM_YYYY_hh_mm.tgz. backup works with the following switches:scp <ip> <user> <pass> -path <path> <file> -ttp <ip> -path <tftpboot subdir=""> fileftp <ip> <user> <pass> -path <path> <file> ile&gt; -ftp <ip> <user> <pass> -path <path> <file> ile&gt; -ftp <ip> <user> <pass> -path <path> <file> ile&gt; ile&gt; <user> <pass> -path <path> <user> <us< td=""></us<></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></path></pass></user></file></path></pass></user></ip></file></path></pass></user></ip></file></path></pass></user></ip></tftpboot></ip></file></path></pass></user></ip>		
2511.5	scheme and/or the homedir of the account will be used. A relative path results in a backup to a subdirectory of home.		
restore <file></file>	Restores a backup from file <file>. Pretty much works with the same switches as backup.</file>		
snapshot	Take a snapshot of the entire system. Without options it's menu based. Note: cpstop is issued! Examples: snapshotfile <file> snapshottfpt <ip> <file> snapshotscp <ip> <user> <pass> <file> snapshotftp <ip> <user> <pass> <file> <user> <pass> <file> <user> <user< td=""></user<></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></user></file></pass></user></file></pass></user></ip></file></pass></user></ip></file></pass></user></ip></file></pass></user></ip></file></pass></user></ip></file></ip></file>		
revert	Reboot sys	stem from snapshot. Same switches as snapshot.	
patch add cd <patch></patch>	Install the patch <patch> from CD.</patch>		
addarp <ip><mac></mac></ip>	Add a static ARP entry for i.p. Survives a reboot. Use delarp with the same syntax to delete a ARP entry.		
<pre>dns [add del <ip>]</ip></pre>	View DNS server setting or add/delete DNS servers.		
log list	Show index of available system and error log files.		
log show <nr></nr>	View log file number <nr> from the log list index.</nr>		
passwd	the admin p	ssword. In standard mode (cpshell) it changes bassword, in expert mode passwd is an alias for ert_passwd and changes only the expert pass. use /usr/bin/passwd <user> for other users.</user>	
		e login shell for the user admin to always be in e after login.	
VSX R67 (Commands for R75.40VS Expert Mode are in <i>italics</i> )			
vsx stat [-v] [-l] [id]		Show VSX status. Verbose with -v, interface list with -1 or status of single VS with VS ID <id>.</id>	
vsx get vsenv		View current shell context.	
vsx set <id>vsenv <id></id></id>		Set context to VS with the ID <id>.</id>	
vsx sic reset <id></id>		Reset SIC for VS <id>. For details see sk34098.</id>	
vsx sicreset		Reset SIC in current context in R75.40VS.	
cpinfo -x <vs></vs>		Start cpinfo collecting data for VS ID <vs>.</vs>	
vpn -vs <id> debug trunc</id>		Empty & stamp logs, enable IKE & VPN debug.	
fw -vs <id> getifs</id>		View driver interface list for a VS. You can also use the VS name instead of -vs <id>.</id>	
fw tab -vs <id> -t</id>		View state tables for virtual system <id>.</id>	
fw monitor -v <id> -e 'accept;'</id>		View traffic for virtual system with ID <id>. Attn: with fw monitor use -v instead of -vs</id>	
cphaprob -vs <id> state</id>		View HA state for Virtual System id when "Per Virtual System HA" mode is configured.	
cphaprob -vs <id>register</id>		Register a faildevice and switch VS <id> to the next cluster member (only in Per VS HA/VSLS).</id>	
<pre>\$linux_command -z <id> traceroute -Z'<id></id></id></pre>		In R67 set context for ifconfig, ip, arp, ping or netstat. Uppercase "z" for traceroute.	
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In general, a lot of Check Point's commands do understand the -vs <id> switch.