

Cisco Device Security Cheat Sheet by River L. (Tamaranth) via cheatography.com/42882/cs/14448/

Login Enhancements	
Command	Function
login block-for 120 attempts 3 within 30	blocks login attempts for 120 secs if 3 fail within 30 secs (login local must be configured)
login quiet-mode access-class [acl-name acl-number]	maps to an ACL so only authorized hosts can attempt to login
login delay seconds	wait-time between login attempts
login on-success log	records successful logins
login on-failure log	records failed login attempts

- > Login enhancements don't apply to console connections
- $> {\tt login\ block-for\ must\ be\ configured\ before\ any\ others}$

Role-Based CLI Views		
Command	Mode	Function
aaa new-model	global	enables AAA
parser view view-name	global	creates a new view (must be in root view)
secret password	view	assigns view password (required)
<pre>commands parser-mode [include exclude] [command interface]</pre>	view	assigns command or interface to view
enable view view-name	priv. EXEC	enters view (enable secret for root password)
parser view view-name superview	global	creates a new superview
secret password	superview	assigns superview password (required)
view view-name	superview	assigns existing view to superview

IPsec VPNs (Site-to-Site)		
	Command	Mode
Phase 1		
cry is en	crypto isakamp enable	global
cry is pol 10	crypto isakmp policy 10	global
h sha	hash sha	(config-isakmp)
a p (auth pre)	authentication pre-share	(-isakmp)
g 14	<pre>group [DH group #]</pre>	(-isakmp)
1 3600	lifetime [secs]	(-isakmp)
enc a 256	encryption aes 256	(-isakmp)
cry is key vpnpass add 10.2.2.2	crypto isakmp key [key] address [peer IP]	global
Phase 2		
cry ip t VPN-SET esp-a 256 esp-sha-	<pre>crypto ipsec transform-set [tag] [encry.] [bits] [hash]</pre>	global



By **River L.** (Tamaranth) cheatography.com/tamaranth/

Published 23rd February, 2018. Last updated 30th August, 2018. Page 1 of 3. Sponsored by **CrosswordCheats.com**Learn to solve cryptic crosswords!
http://crosswordcheats.com



Cisco Device Security Cheat Sheet by River L. (Tamaranth) via cheatography.com/42882/cs/14448/

IPsec VPNs (Site-to-Site) (cont)		
cry ip s 1 s	crypto ipsec security-association lifetime seconds 1800	global
cry map CMAP 10 ipsec-i	<pre>crypto map [name] [seq #] ipsec-isakmp</pre>	global
m add 101	match address 101	(-crypto-map)
s pe 10.2.2.2	set peer [peer IP]	(-crypto-map)
s pfs group14	set pfs [group#]	(-crypto-map)
s t VPN-SET	<pre>set transform-set [tag]</pre>	(-crypto-map)
s s li s 900	set security-association lifetime seconds [secs]	(-crypto-map)
desc [text]	description [text]	(-crypto-map)
cry m CMAP	crypto map [name]	interface

Line Config Mode		
Command	Line	Function
no exec	any unused	disables EXEC mode for the line (outgoing connections only)
login local	all	forces username/password authentication from local database
logging synchronous	all	prevents logging from interrupting commands
exec-timeout 5 0	all	logs out after 5 mins inactive

Informational/Show Commands		
Short Command	Full Command	What It Displays
sh login	show login	configured login settings
sh login f	show login failures	details about login failures (src IP, count, time/date, etc)
sh cry key mypubkey r	show crypto key mypubkey rsa	current RSA keys
sh ip ssh	show ip ssh	SSH configuration
sh ssh	show ssh	current SSH connections
sh p v a	show parser view all	summary of all configured views (asterisk indicates superview)
sh sec b	show secure bootset	verification of the archive
sh logg	show logging	logging configuration & buffered syslog messages
sh us	show users	users connected to the device
sh cr is po	show crypto isakmp policy	ISAKMP policy configuration
sh cr ip sa	show crypto ipsec sa	IPsec security association
sh cr map	show crypto map	crypto map configuration



By **River L.** (Tamaranth) cheatography.com/tamaranth/

Published 23rd February, 2018. Last updated 30th August, 2018. Page 2 of 3. Sponsored by **CrosswordCheats.com**Learn to solve cryptic crosswords!
http://crosswordcheats.com



Cisco Device Security Cheat Sheet by River L. (Tamaranth) via cheatography.com/42882/cs/14448/

Logging & Monitoring		
Command	Mode	Function
service timestamps log datetime msec	global	enables timestamps service
logging host ip-address	global	specifies syslog server
logging trap level	global	sets log severity level
logging source-interface ip-address	global	identifies the device sending the log info
logging on	global	turns on logging

Secure Bootset		
Command	Mode	Function
secure boot-image	global	secures IOS image & enables Cisco IOS image resilience
secure boot-config	global	takes snapshot of running-config to save in persistent storage
To Restore Secure Configuration		
reload-> ROMmon mode		
dir	ROMmon	lists contents of device where secure bootset is stored
boot flash: filename	ROMmon	boots route with secure IOS image
secure boot-config restore flash: filename	global	restores secure config

SSH Configuration	
Command	Function
user Bob algorithm-type scrypt secret password	creates user in local database
ip domain-name span.com	sets network domain name
crypto key zeroize rsa	removes any existing RSA key pairs
cry key gen rsa gen mod 1024	creates RSA encryption key (max: 4096 bits)
transport input ssh	enables SSH (line config, vty)
ip ssh time-out seconds	sets SSH timeout length
ip ssh authentication-retries 2	sets number of login attempts before user is disconnected
ip ssh version 2	sets SSH version to v2

Miscellaneous Configurations	
Command	Function
license boot module c1900 technology-package securityk9	Adds security package to 1941 routers!
no service password-recovery	prevents an attacker from recovering the router password



By River L. (Tamaranth) cheatography.com/tamaranth/

Published 23rd February, 2018. Last updated 30th August, 2018. Page 3 of 3. Sponsored by **CrosswordCheats.com** Learn to solve cryptic crosswords! http://crosswordcheats.com