Cheatography

Junos OS CLI Cheat Sheet by Mary F. Smith (boogie)via cheatography.com/86236/cs/45378/

Interface Naming	
FCP [Flexible PIC concentrator]	The actual card itself
PIC [Physical Interface Card]	interface card within a Line Card
Port	The port number on the card
ge	1 gig
xe	10 gigs
et	40 gigs
ge-0/1/1	Gig, line card
fxp0	is the name of the mgmt interface

The text fpc 0 refers to the line card on this device, whilst you might remember that PIC is an interface card within this line card.

CLI Junos OS

Junos is set up in a directory fashion like Linux distributions

Results can be viewed in one of two ways

Set View | Line by line as in Linux distributions

Hierarchy View | Code writing type display

Understanding Hierarchy [Directory] Structure			
Level 1	Level 1 version		
Level 2	system		
Level 3 chassis	The chassis hierarchy is where you configure physical device settings for your Junos device. This is also where you can configure device settings for your vMX.		
Level 4	Level 4 interfaces		
Level 5	Level 5 protocols		
Up - will ba	ack up one level in the directory		
Top - will n	Top - will move to the root directory		
Sub Hier	Sub Hierarchies		
host nam	ne		
root-auth	root-authentication		
log in			
	ierarchies—it will be indented once to the right, when d to the top-level hierarchies.		

Show Command Level of Irormation Returned show interface descriptions terse IP and interface state brief detail detail extensive wildcard search ex-0/1/*

Extending the Commands with a Pipe	
Pipes help narrow search results	count
	find
	save
You can use multiple pipes in one search	
show interfaces xe-0/1/* match "physical count"	after pipe goes in quotes

Keyboard Shortcuts		
ctrl-a	beginning of the command line	
ctrl-e	end of the command line	
ctrl-k		
ctrl-w	deletes the word	

Logs	
Create syslog file	set system syslog file CONFIG_CHANGES.txt change-log any
Edit the properties of syslog file	set system syslog file CONFIG_CHANGES.txt archive size 1M files 4 no-world-readable
Read log file	show log CONFIG_CHANGES.txt
Rerad log files in real time	monitor start messages
	monitor stop messages

Deleting

| delete protocols ospf

Show Command Basic System Information

show configuration display set	This displays the full device config
show system uptime	Displays current time, last system boot
show system inform-	Displays the model, OS family, OS
ation	version & hostname



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Show Command Basic System Information (cont)		Co
show route	Displays the routing table	sh
show system users	Displays currently logged in	
	users	СО
show configuration system services	Displays running services	CO
display set		14
show configuration system login	will display any users built on	cle
display set	this device	
show configuration interfaces displa	y set	Ex
show configuration interfaces ge-0/0/	2 display set	Cł

show configuration protocols | display set

Configuration	Mode Levels
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employee@rou- ter_1 > configure	creates a duplicate [candidate] file multiple people can edit the same candidate record
employee@rou- ter_1 > configure private	each editor has their own copy of the candidate record however, users can still save on top of each other
employee@rou- ter_1 > configure exclusive	locks the candidate record; no one else can modify

Configuration Mode

, and the second s	
employee@ROU- TER_1 >	configure
employee@ROUTER_	1#
In Configuration Mode	
commit check	verifies syntax
show compare	displays the differences between the 2 configs
rollback	returns to the previous configuration
commit confirmed 20	commits config must confirm in 20 minute or auto rollback
commit confirmed w/ no time	Defaults to 10 minutes
commit and-quit	
commit comment	allows user to ad comments to config file

figuration Mode (cont) must add the word "run" to any command at w this level nmit at "18:00:00" | sets time for commit nmit at " 2023-10-06 | sets commit day and time :00:00" ar system commit ample | set host-name ROUTER_1 ange device name LLDP - Link Layer Discovery Protocol show lldp neighbors | hostname port name MAC POE ability Vendor

All devices must have LLDP configured for this to work

Troubleshooting	
disable port	set interfaces ge-0/0/2 disable
enable	set interfaces ge-0/0/2 enable
commit and-quit	
Troubleshooting	
show configuration	messages & interactive-commands
system syslog	
	show log messages
	show log interactive-commands
	shoe log interactive-commands match "wor- d"
script logging is indic	cated by the word "netconf"
Narrow log results	show log interactive-commands match lab last 15
	show log interactive-commands match "word 1" "word 2"
	show log messages match "down error"
Send a syslog	scp /var/log/CONFIG_CHANGES.txtlab@17- 2.25.11.254:home/lab/desktop
By default, logs are stored in /var/log	



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