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 | 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 | interfaces

Level 5 | protocols

Up - will back up one level in the directory

Top - will move to the root directory

Sub Hierarchies

host name

root-authentication

log in

All sub hierarchies—it will be indented once to the right, when compared to the top-level hierarchies.

Show Command Level of Information Returned

show interface	descriptions	
	terse	IP and interface state
	brief	
	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

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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 information	| Displays the model, OS family, OS version & hostname
show route	| Displays the routing table
show system users	| Displays currently logged in users
show configuration system services | display set	| Displays running services
show configuration system login |display set	| will display any users built on this device
show configuration interfaces | display set	
show configuration interfaces ge-0/0/2 | display set	
show configuration protocols | display set	

Configuration Mode Levels

employee@router_1 > configure	creates a duplicate [candidate] file **multiple people can edit the same candidate record**
employee@router_1 > configure private	each editor has their own copy of the candidate record **however, users can still save on top of each other**
employee@router_1 > configure exclusive	**locks the candidate record; no one else can modify**

Configuration Mode

employee@ROUTER_1 >	**configure**
employee@ROUTER_1#	
In Configuration Mode	
commit check	| verifies syntax

Configuration Mode (cont)

show | compare	| displays the differences between the 2 configs
rollback	| returns to the previous configuration
commit confirmed 20	| commits config must confirm in 20 minutes 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
show	| **must add the word "run" to any command at this level**
commit at "18:00:00"	| sets time for commit
commit at " 2023-10-06 14:00:00"	| sets commit day and time
clear system commit	

Example

Change device name	| set host-name ROUTER_1

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

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Troubleshooting

show configuration system syslog	| messages & interactive-commands
	show log messages
	show log interactive-commands
	shoe log interactive-commands | match **"word"**
script logging is indicated 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.txt lab@17-2.25.11.254:home/lab/desktop

By default, logs are stored in /var/log

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