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

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-ation	Displays the model, OS family, OS version & hostname

By **Mary F. Smith** (boogie)
cheatography.com/boogie/

Not published yet.
Last updated 9th January, 2025.
Page 1 of 2.

Sponsored by CrosswordCheats.com
Learn to solve cryptic crosswords!
http://crosswordcheats.com

Show Command Basic System Information (cont)

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
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

Configuration Mode (cont)

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	

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

By **Mary F. Smith** (boogie)
cheatography.com/boogie/

Not published yet.
Last updated 9th January, 2025.
Page 2 of 2.

Sponsored by CrosswordCheats.com
Learn to solve cryptic crosswords!
http://crosswordcheats.com