

Network Commands



Welcome to this compilation of the most common Juniper / Junos Troubleshooting and Operational Commands. Based on the documentation and the experience we have achieved along years working as a network engineer, we want to condense the hughest ammount of knowledge and experience in the minimum space, in order to become an useful "cheat sheet" able to help the network engineer on a daily basis.

We are not showing configuration commands. Juniper has tons of documentation in order to configure services. What we want to show is just the operational side, but focussing there, we want to create the best spreadsheet in the web. Please be welcome to help us with any additional commands or suggestions you may have. This site will always be under construction.

We are committed to avoid any copyright infringement, so if someone feels we do, please let us know. Our e-mail address is info@networkcommands.net

Most of these commands will be valid for the following models: MX80, MX104, MX160, MX204, MX240, MX480, MX960, EX2200, EX2300, EX3300, EX3400, EX4200, EX4600, QFX5100, QFX5100, QFX5110, QFX5120, QFX5200, QFX10002, PTX100, PTX3000, PTX5000, PTX10002, PTX10003, PTX10004, PTX10008, PTX10016, SRX300, SRX320, SRX340, SRX380, SRX550, SRX1500, SRX4100, SRX4200, SRX4600, SRX5400, SRX5600, SRX5800, ACX1000, ACX1100, ACX2100, ACX2200, ACX4000, ACX5000, ACX5400, ACX7000, ACX7100

Adittionally, feel free to check our other useful sites: www.bgplookingglass.com and www.routeservers.org

IOS vs JUNOS vs IOS-XR (Basic Commands)		
IOS	JUNOS	IOS-XR
show version	show version	show version
show logging	show log messages	show logging
show interface transceiver	show interface diagnosis optics	sh controllers <interface-id> phy
Links of Interest		
JTAC Contact Numbers	http://www.juniper.net/support/requesting-support.html	
Juniper Case Manager	https://casemanager.juniper.net/casemanager/	
Juniper Discussion Forum	http://forums.juniper.net/t5/Discussion-Forums/ct-p/Forums	
Junos Software Download Page	https://www.juniper.net/support/downloads/	
Juniper Problem Report Search	https://prsearch.juniper.net/InfoCenter/index?page=prsearch	
Juniper CLI Explorer	https://apps.juniper.net/cli-explorer/	
Unofficial Forum about Juniper	https://lists.gt.net/nsj/juniper/	
Unofficial IRC channel	Server: chat.freenode.net / Channel: #Juniper	
Juniper Configuration Operational Commands		
edit / configure	enter configuration mode	
exit	exit from configuration mode to operational mode without committing config changes	
top	moves to the top level of the configuration hierarchy	
top edit <path>	moves directly a specific path in the configuration hierarchy	

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up	moves up one level of configuration
copy <statement 1> to <statement 2>	duplicates statement 1 and the entire hierarchy of statements configured under that statement
annotate	add comments to a configuration at the current hierarchy level.
activate / deactivate	activate / deactivate a configuration statement. if deactivated, config won't take effect when committed.
rename <id1> to <id2>	rename identifier id1 to id2
insert term <stat1> before/after <stat2>	moves relative position between terms
replace pattern <pattern1> with <pattern2>	replace a pattern with a different one
protect <path>	protect the device configuration from being modified or deleted by other users
show configuration display set	displays original commands used to enter configuration
show configuration display set relative	displays original commands used to enter configuration just related to the current hierarchy level
show configuration display inheritance	displays config including inherited terms from specific groups
show configuration no-more	displays config without pagination
show configuration match <exp>	displays config lines matching an expression
show configuration find <exp>	displays config lines starting in the first match of one specific expression
run	from configuration mode, execute commands in operational mode
configure private / update	enter configuration mode to edit privately from other users. commit only apply current user changes, not to others. to synchronize with other users, enter update command
configure exclusive	bans any other users of committing changes
Juniper CLI & Date Operational Commands	
show cli history	show current session executed commands
show cli authorization	show my user authorization level
set cli directory <path>	changes current directory to the selected path
set cli timestamp	makes cli outputs with timestamp
set date <YYYYMMDDhhmm.ss>	set time & date
Juniper Commit Operational Commands	
commit	save, validate and activate a complete config
commit check	check for syntax errors in the candidate configuration
commit confirmed <minutes>	commit configuration and roll it back after a number of minutes (10 minutes default)
commit-and-quit	commit configuration and exit configuration mode
commit synchronize	commit changes in all routing engines

commit at <yyyy-mm-dd hh:mm[:ss]>	commit config at a certain time/date
commit at reboot	commit config at next reboot
commit comment	commit config adding changes description
commit full	commit config restarting all deamons (be very careful when applying this command)
commit display detail	monitor the Junos commit process
clear system commit	from operational mode, clear all pending commit requests (similar to rollback)
show system commit	show list of committed config files
show system rollback compare 4 8	display differences between config files 4 and 8
show system rollback 32	displays rollback config file 32
request system commit	commit changes from operational mode
show compare	show candidate configuration
show configuration compare	from operational mode, show candidate configuration
rollback	returns to the most recently committed configuration and loads it without activating it, you need to commit it later
rollback 0	discard uncommitted changes
rollback 22	loads config file 22 without activating it, you need to commit it later
Juniper VRRP Operational Commands	
show vrrp detail/extensive	show information about vrrp groups
clear vrrp	clear vrrp stats
Juniper LACP & MC-LAG Operational Commands	
show iccp	
show interfaces mc-ae	
show lacp interfaces	
show interfaces ae0 extensive	
Juniper Chassis Operational Commands	
show chassis hardware	displays a list of all Flexible PIC Concentrators (FPCs) and PICs installed in the router or switch chassis, including the hardware version level and serial number
show chassis routing-engine	displays info like memory load, CPU load, temperature and other parameters related to each Routing Engine. It also shows when it was the last reboot and why this happened
show chassis alarms	displays information about the the conditions that have been configured to trigger alarms
show chassis environment	displays environmental/temperature information related to the device. Also it shows power supply status
show chassis fpc detail	
show chassis mac-addresses	displays the media access control (MAC) addresses for the router or switch
show system core-dumps	shows system crash dumps
show system alarms	displays active system alarms

Juniper Beacon & Display Commands	
set chassis display fpc-slot 3 message Hola	shows message "hola" in VC member 3 lcd display
request chassis beacon fpc 2 on	turns on beacon on fpc number 2
Juniper Switching & ARP Operational Commands	
show ethernet-switching table	show MAC table
clear ethernet-switching table	clears MAC table
clear ethernet-switching table interface	clears MAC table interface status
show ethernet-switching redundancy-groups arp- statistics	displays MC-LAG ARP statistics
show services statistics arp	displays ARP statistics
show arp	show ARPtable
Juniper Spanning Tree Operational Commands	
show spanning-tree bridge	show STP bridge parameters
show spanning-tree interface	show STP interface parameters
show spanning-tree mstp	show Multiple Spanning Tree Protocol information
show spanning-tree statistics	show STP statistics
clear spanning-tree statistics	clear STP statistics
Juniper Fusion Commands	
request chassis satellite shell- command fpc-slot 101 "shutdown -h now"	send shell comand to a Junos Fusion Satellite (in this case send "shutdown -h now" to FPC 101)
show chassis satellite	verifies that a device is recognized as a satellite device by the aggregator device
show chassis satellite interface	verifies cascade ports and uplink ports state
show chassis satellite neighbor	verifies that a cascade port recognizes a satellite device
show chassis satellite terse	verifies the hardware model of each satellite device
Juniper Packet Forwarding Engine Operational Commands	
show pfe terse	show list of Packet Forwarding Engine components
show pfe route	show Packet Forwarding Engine routing table
show pfe statistics	show Packet Forwarding Engine statistics
Juniper Virtual Chassis Operational Commands	
show virtual-chassis	shows virtual chassis members, their serial number, status, role (master, backup, linecard, VC interface involved)
show virtual-chassis vc-port	show inter-chassis interfaces anc vc-ports associated
request session member X	login a particular member (X) of the virtual chassis
request chassis routing-engine master switch	force routing-engine mastership switchover

show version invoke-on all-routing-engine	show Junos version installed in each Virtual Chassis member. It also applies to Standalone chassis with dual routing engines
Junos BFD Operational Commands	
show bfd session	display BFD session statistics
clear bfd session	clear bfd sessions
clear bfd adaptation	clear bfd parameters
Juniper RSVP Commands	
clear rsvp session	clear RSVP sessions and trigger fast reroute optimization
show rsvp interface	display the status of interfaces on which RSVP is running
show rsvp neighbor	display RSVP neighbors
show rsvp session	display currently active RSVP sessions
show rsvp statistics	display RSVP packet and error counters
show rsvp version	display RSVP version and configuration information
Juniper PPP Operational Commands	
show ppp summary	show PPP summary information
show ppp statistics	show PPP statistics
show ppp interface	show PPP interface information
show ppp address-pool	show PPP address pool information
clear ppp statistics	clear PPP statistics
Juniper Help Operational Commands	
help apropos <topic>	shows all commands related to the topic
help topic <topic>	help for high level topics
help reference <topic>	help information about a topic
help tip cli	displays a random tip
help syslog	info about specific error messages
Juniper RSI & Logs	
request support information save /var/tmp/rsi.txt	gets RSI info and stores it in rsi.txt file
file archive compress source /var/log/ destination /var/tmp/logfile.tgz	compresses /log directory into one file
Juniper User Management Commands	
show system users	show connected users to the device
request system logout user xxx	force logout to user xxx
request message all message "hola"	send message "hola" to all logged users in the device
show arp request message user will.jack	sends arp table output to will.jack terminal
show log user all-members	displays all users last logins

status	display the users currently editing the configuration
Load Commands	
load merge terminal	loads and merge config directly from router terminal
load merge terminal relative	loads and merge config relative to current edit point
load merge /var/tmp/ddd.txt	loads and merge directly from file
load replace terminal	loads and replace config directly from router terminal
load replace terminal relative	loads and merge config relative to current edit point
load replace /var/tmp/ddd.txt	loads and merge directly from file
Juniper Request Commands	
request system reboot	reboot device
request system halt	gracefully terminates software processes, but not the chassis
request system zeroize	erase all data (config + logs)
request system power-off	power-off all the chassis (but the fun)
request session member 4	log in virtual-chassis member number 4
Juniper Monitoring Commands	
monitor start messages	displays "messages" log file in real time
monitor stop messages	stops displaying "messages" log file in real time
monitor interface ge-x/y/z	real-time statistics monitor of one interface
monitor traffic interface ge-x/y/z no-resolve detail	displays real-time control traffic
monitor traffic interface ae10 extensive no-resolve write-file /var/tmp/test.pcap	It creates a pcap file of a trace in interface ae10 (tested in MX routers). This can be exported and opened with Wireshark tool .
Juniper DHCP Operational Commands	
show dhcp relay binding <routing-instance name>	shows current dhcp leases
Juniper SNMP Commands	
show snmp mib get <oid>	show value for a specific OID
show snmp mib walk <oid>	show snmpwalk for that specific OID
Juniper Shell Commands	
start shell	enter shell mode
cli	enter cli mode
start shell user root	enter shell with root user
top	lists running processes
df -k	lists disk partition
Juniper FPC Commands	
start shell pfe network fpc0 or start shell + vty fpc0	enter fpc0 cli

test xfp 1 laser off	disable XFP optic 1
Juniper OSPF Operational Commands	
show ip ospf database	view OSPF database
show ip ospf interface	view OSPF interfaces
show ip route ospf	display the current state of the routing table learnt through OSPF Protocol
Juniper DDoS Violation Operational Commands	
show ddos-protection protocols	it shows an overview of the DDoS violation, sorted by protocol
show ddos-protection protocols statistics brief	it shows an overview of the DDoS violation statistics
show ddos-protection resolve	it shows specific information about DDoS violations for the protocol "resolve". There are more than 40 protocols to be queried

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