



Setup / Configuration

For Units

4210D 1MP / 6210D 2MP

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Disclaimer: Nimitz does not take responsibility for security breaches related to failures in changing the default password (nimitz) on any of its units.

Step 1: Connecting to Nimitz

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Serial Cable Login-----4

Telnet Login-----4

Serial Cable Login	
Client	PuTTY
Session	<p>Specify the destination you want to connect to</p> <p>Serial line <input type="text" value="/dev/ttyS0"/> Speed <input type="text" value="115200"/></p> <p>Connection type:</p> <p><input type="radio"/> Raw <input type="radio"/> Telnet <input type="radio"/> Rlogin <input type="radio"/> SSH <input checked="" type="radio"/> Serial</p>
Terminal -- Keyboard	<p>The Home and End keys</p> <p><input checked="" type="radio"/> Standard <input type="radio"/> rxvt</p> <p>The Function keys and keypad</p> <p><input type="radio"/> ESC[n~ <input type="radio"/> Linux <input type="radio"/> Xterm R6 <input type="radio"/> VT400 <input checked="" type="radio"/> VT100+ <input type="radio"/> sco</p>
Connection -- Serial	<p>Select a serial line</p> <p>Serial line to connect to <input type="text" value="/dev/ttyS0"/></p> <p>Configure the serial line</p> <p>Speed (baud) <input <="" p="" type="text" value="115200"/> <p>Data bits <input type="text" value="8"/></p> <p>Stop bits <input type="text" value="1"/></p> <p>Parity <input type="text" value="None"/></p> <p>Flow control <input type="text" value="None"/></p> <p>*Microsoft Windows: COM(n) *Linux: /dev/ttys(n) *Serial line will vary with Operating System, check kernel device pages for more information.</p> </p>

Console Settings			
Terminal Type	vt100+	Stop Bits	1
Bits Per Second	115200	Flow Control	none
Data Bits	8	Putty KeyPad	VT100
Parity	none	Recorder Mode	disabled
VT-UTF8 Combo Key Support	enabled		

Telnet Settings	
Telnet	telnet 10.30.0.33 2601
Password (default)	nimitz

Step 2: Basic Configurations

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Change Default Password

Login	\$telnet 10.30.0.33 2601 Trying ::1... Trying 10.30.0.33 Connected to 10.30.0.33 Escape character is '^]'. Hello, this is Quagga (version 1.1.1). Copyright 1996-2005 Kunihiro Ishiguro, et al.
enable	Nimitz> enable Password: <nimitz> Nimitz#
configure terminal	Nimitz# configure terminal Nimitz(config)#
password	Nimitz(config)# password <enter new password> Nimitz(config)#

Enable IP-Forwarding

enable	Nimitz> enable Password: <password> Nimitz#
Configure terminal	Nimitz# configure terminal Nimitz(config)#
ip forwarding	Nimitz(config)# ip forwarding Nimitz(config)#

Adding Static Routes

enable	Nimitz> enable Password: <password> Nimitz#
configure terminal	Nimitz# configure terminal Nimitz(config)#
ip route <gateway - address>	Nimitz(config)# ip route A.B.C.D/xx A.B.C.D Nimitz(config)#
ip route <interface - address>	Nimitz(config)# ip route A.B.C.D/xx <interface-name> Nimitz(config)#

Using <?> for clarity

ip route ?	Nimitz(config)# ip route ? A.B.C.D IP destination prefix A.B.C.D/M IP destination prefix (e.g. 10.0.0.0/8)
ip route A.B.C.D/24 ?	Nimitz(config)# ip route A.B.C.D/xx ? A.B.C.D IP gateway address INTERFACE IP gateway interface name
ip route A.B.C.D/24 A.B.C.D ?	Nimitz(config)# ip route A.B.C.D/xx A.B.C.D ? <1-255> Distance value for this route *Directly connected routes carry a default route metric of 0

Additional Features

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Show Running Configuration <sample>

enable	Nimitz> enable Password: <password> Nimitz#
show running-config	Nimitz# show running-config Current configuration: ! hostname Nimitz password nimitz ! interface enp1s0 description "WAN" ip address A.B.C.D/xx ! interface enp2s1 description "LAN" ip address A.B.C.D/xx ! interface lo ! ip route A.B.C.D/xx A.B.C.D ip route A.B.C.D/xx A.B.C.D ! ip forwarding ! ! line vty ! end #Nimitz

Adding Interface Descriptors <sample>

enable	Nimitz> enable Password: <password> Nimitz#
configure terminal	Nimitz# configure terminal Nimitz(config)#
interface <if-name>	Nimitz(config)#interface <if-name> Nimitz(config-if)# description "WAN Interface" Nimitz(config-if)# show running-config Current Configuration: ...truncated for clarity ! interface <if-name> description "WAN Interface" ip address A.B.C.D/xx Nimitz(config-if)#

Negating commands <sample>

no	Prepend <no> to an existing command to negate its effect e.g. Nimitz(config)# no ip route A.B.C.D/xx A.B.C.D Nimitz(config)#
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Maneuvering Zebra commands with <?>

Nimitz> ?	The <?> command has 4 primary uses 1. Show current available commands Nimitz> ? echo Echo a message back to the vty enable Turn on privileged mode command exit Exit current mode and down to previous mode help Description of the interactive help system list Print command list quit Exit current mode and down to previous mode show Show running system information terminal Set terminal line parameters who Display who is on vty
Nimitz> show?	2. Show a commands <definition> *no space following command Nimitz> show? show Show running system information
Nimitz> show ?	3. Show a commands <options> *space following command Nimitz> show ? commandtree Show command tree debugging Debugging information history Display the session command history interface Interface status and configuration ip IP information ipv6 IPv6 information logging Show current logging configuration memory Memory statistics table default routing table to use for all clients thread Thread information version Displays zebra version work-queues Work Queue information
Nimitz> show ip ?	4. Show a commands <options><suboptions><suboptions> Nimitz> show ip ? forwarding IP forwarding status nht IP nexthop tracking table prefix-list Build a prefix list protocol IP protocol filtering status route IP routing table rpf Display RPF informat

Nested Privileges While Maneuvering Zebra <sample>

Nimitz>	Nimitz>
Nimitz#	Nimitz> enable Password: <password>
Nimitz(config)#	Nimitz#
Nimitz(config-if)#	Nimitz# configure terminal Nimitz(config)# Nimitz(config)# interface <interface-name> Nimitz(config-if)#

Returning to Previous Levels <sample>

exit	The <exit> command returns you to the previous level of privilege e.g. Nimitz(config-if)# exit Nimitz(config)#
end	The <end> command returns you to the initial enable level of privilege e.g. Nimitz(config-if)# end Nimitz#