



Zebra: How To

Units

Nimitz-Lite

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Change Default Password

Login	<pre>\$telnet 10.0.44.1 2601 Trying ::1... Trying 10.0.44.1 Connected to 10.0.44.1 Escape character is '^]'. Hello, this is Quagga (version 1.1.1). Copyright 1996-2005 Kunihiro Ishiguro, et al. User Access Verification Password: <nimitz-lite></pre>
enable	<pre>Nimitz> enable Password: <nimitz-lite> Nimitz#</pre>
configure terminal	<pre>Nimitz# configure terminal Nimitz(config)#</pre>
password	<pre>Nimitz(config)# password <enter new password> Nimitz(config)#</pre>

Enable IP-Forwarding

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

Adding Static Routes

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

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

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 ?

	<pre> 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 </pre>
Nested Privileges While Maneuvering Zebra <sample>	
Nimitz>	<pre>Nimitz></pre>
Nimitz#	<pre>Nimitz> enable Password: <password> Nimitz#</pre>
Nimitz(config)#	<pre>Nimitz# configure terminal Nimitz(config)#</pre>
Nimitz(config-if)#	<pre>Nimitz(config)# interface <interface-name> Nimitz(config-if)#</pre>
Returning to Previous Levels <sample>	
exit	<p>The <exit> command returns you to the previous level of privilege e.g.</p> <pre> Nimitz(config-if)# exit Nimitz(config)# </pre>
end	<p>The <end> command returns you to the initial enable level of privilege e.g.</p> <pre> Nimitz(config-if)# end Nimitz# </pre>