

General Configurations

Command	Mode	Function
<code>terminal history size 200</code>	priv. EXEC	changes how many commands the history buffer stores (<i>for this session only</i>)

Dynamic Routing Protocol Configuration

Command	Mode	Function
<code>router [protocol]</code>	global	enables protocol & enters router config mode
<code>auto-summary</code>	router	enables automatic network # summarization
<code>default-information originate</code>	router	advertises default route info
<code>network [ip-address]</code>	router	enables dynamic routing for the network (<i>Directly connected nets only!</i>)
<code>network [ip-address] area 0</code>	router	assigns network to area 0
<code>passive-interface g0/1</code>	router	disables routing updates on that interface
<code>version [version]</code>	router	sets protocol version

DHCP Configuration

Command	Mode
<code>ip dhcp excluded-address [first IP] [last ip]</code>	global
<code>ip dhcp pool R1G1</code>	global
<code>network [network IP] [subnet mask]</code>	(dhcp-config)
<code>default-router [gateway IP]</code>	(dhcp-config)
<code>dns-server [dns IP]</code>	(dhcp-config)
<code>domain-name ccna-lab.com</code>	(dhcp-config)
<code>lease 2</code>	(dhcp-config)
<code>ip dhcp helper-address [dhcp server IP]</code>	interface (<i>on relay router</i>)

NAT Configuration

Short Command	Full Command
<code>ip nat pool name [first IP] [last IP]</code>	<code>ip nat pool name [first IP] [last IP]</code>
<code>net [subnet mask]</code>	<code>netmask [subnet mask]</code>
<code>ip nat inside source list pool_name overload</code>	<code>ip nat inside source list [acl#] pool_name overload</code>
<code>ip nat in</code>	<code>ip nat inside</code>
<code>ip nat out</code>	<code>ip nat outside</code>
<code>ip nat inside source static 192.168.1.10 209.165.200.18</code>	<code>ip nat inside source static [private IP] [global IP]</code>
---- Show Commands ----	
<code>sh ip nat s</code>	<code>show ip nat statistics</code>
<code>sh ip nat t</code>	<code>show ip nat translations</code>

Trunking & Subinterfaces

Command	Mode
<code>encapsulation dot1q</code>	

Command	Mode	Function
<code>interface loopback 0</code>	global	loopback address configuration



Routing Table (cont)

```
ip route [network] [subnet] [exit-int|next-hop] global
ipv6 route [network/prefix] [exit-int|next-hop]

ip route 0.0.0.0 0.0.0.0 [exit-int] global
ipv6 route ::/0 [exit-int]
```

```
ip route 0.0.0.0 0.0.0.0 [next-hop] [AD] global
ipv6 route ::/0 [next-hop] [AD]
```

Refresher Commands: Enabling SSH

Short Command	Complete Command
ip domain-name CCNA-lab.com	ip domain -name CCNA-lab.com
crypto key generate rsa modulus 1024	crypto key generate rsa modulus 1024
username Bob secret cisco	username Bob secret cisco
login local	login local
transport input ssh	transport input ssh
ip ssh version 2	ip ssh version 2

New Show Commands

Short Command

What It Displays

sh run int g0/0	running config for specified interface
sh run [begin include exclude section] line vty	filtered running-config output
sh history	contents of history buffer (previously entered commands)
sh ip protocols	dynamic routing protocol settings

Refresher Commands: General

Short Command	Complete Command	Mode
no ip domain-lookup	no ip domain -lookup	global
login block-for 120 attempts 3 within 60	login block-for 120 attempts 3 within 60	global
security password min-length 8	security password min-length 8	global
exec-timeout 10	exec-timeout 10	line

